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|---|---|---|---|---|---|
| 699 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG023. Californian–Vancouverian Montane |
| 700 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG023. Californian–Vancouverian Montane |
| 701 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG023. Californian–Vancouverian Montane |
| 702 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG023. Californian–Vancouverian Montane |
| 703 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG023. Californian–Vancouverian Montane |
| 704 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG023. Californian–Vancouverian Montane |
| 705 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG023. Californian–Vancouverian Montane |
| 706 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG023. Californian–Vancouverian Montane |
| 707 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG023. Californian–Vancouverian Montane |
| 708 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG023. Californian–Vancouverian Montane |
| 709 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG023. Californian–Vancouverian Montane |
| 710 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG023. Californian–Vancouverian Montane |
| 711 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG023. Californian–Vancouverian Montane |
| 712 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG023. Californian–Vancouverian Montane |
| 713 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG023. Californian–Vancouverian Montane |
| 714 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG023. Californian–Vancouverian Montane |
| 715 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG023. Californian–Vancouverian Montane |
| 716 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG023. Californian–Vancouverian Montane |
| 717 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG023. Californian–Vancouverian Montane |
| 718 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG023. Californian–Vancouverian Montane |
| 719 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG023. Californian–Vancouverian Montane |
| 720 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG023. Californian–Vancouverian Montane |
| 721 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG023. Californian–Vancouverian Montane |
| 722 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG023. Californian–Vancouverian Montane |
| 723 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG023. Californian–Vancouverian Montane |
| 724 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG023. Californian–Vancouverian Montane |
| 725 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG023. Californian–Vancouverian Montane |
| 726 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG023. Californian–Vancouverian Montane |
| 727 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG023. Californian–Vancouverian Montane |
| 728 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG023. Californian–Vancouverian Montane |
| 729 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG023. Californian–Vancouverian Montane |
| 730 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG023. Californian–Vancouverian Montane |
| 731 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG023. Californian–Vancouverian Montane |
| 732 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG023. Californian–Vancouverian Montane |
| 733 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG023. Californian–Vancouverian Montane |
| 734 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG023. Californian–Vancouverian Montane |
| 735 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 736 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 737 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 738 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 739 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 740 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 741 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 742 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 743 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 744 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 745 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 746 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 747 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 748 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 749 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 750 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 751 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 752 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 753 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 754 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 755 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 756 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 757 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 758 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 759 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 760 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 761 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 762 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 763 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 764 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 765 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 766 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 767 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 768 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |

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| 769 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 770 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 771 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 772 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 773 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 774 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 775 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 776 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 777 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 778 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 779 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 780 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 781 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 782 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 783 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 784 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 785 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 786 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 787 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG020. Rocky Mountain Subalpine and High |
| 788 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 789 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 790 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 791 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 792 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 793 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 794 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 795 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 796 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 797 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 798 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 799 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 800 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 801 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 802 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 803 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 804 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 805 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 806 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 807 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 808 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 809 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 810 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 811 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 812 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 813 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 814 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 815 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 816 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 817 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 818 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 819 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 820 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 821 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 822 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 823 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 824 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 825 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 826 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 827 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 828 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 829 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 830 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 831 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 832 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 833 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 834 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 835 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 836 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 837 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 838 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |

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| 839 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 840 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 841 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 842 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 843 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 844 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 845 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 846 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 847 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 848 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 849 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 850 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 851 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 852 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 853 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 854 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 855 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 856 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 857 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 858 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 859 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 860 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 861 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 862 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 863 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 864 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 865 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 866 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 867 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 868 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 869 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 870 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG024. Vancouverian Rainforest |
| 871 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 872 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 873 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 874 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 875 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 876 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 877 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 878 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 879 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 880 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 881 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 882 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 883 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 884 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 885 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 886 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 887 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 888 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 889 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 890 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 891 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 892 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 893 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 894 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 895 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 896 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 897 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 898 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 899 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 900 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 901 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 902 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 903 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 904 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 905 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 906 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 907 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 908 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |

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| 909 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 910 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 911 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 912 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 913 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 914 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 915 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 916 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 917 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 918 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 919 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 920 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 921 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 922 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 923 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 924 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 925 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 926 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 927 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 928 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 929 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 930 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 931 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 932 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 933 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 934 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 935 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 936 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 937 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 938 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 939 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 940 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 941 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 942 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.b. Western North America Cool | MG025. Vancouverian Subalpine Forest |
| 943 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 944 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 945 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 946 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 947 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 948 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 949 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 950 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 951 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 952 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 953 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 954 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 955 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 956 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 957 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 958 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 959 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 960 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 961 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 962 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 963 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 964 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 965 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 966 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 967 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 968 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 969 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 970 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 971 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 972 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 973 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 974 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 975 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 976 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 977 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 978 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |

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| 979 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 980 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 981 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 982 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 983 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 984 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 985 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 986 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 987 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 988 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 989 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 990 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 991 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.c. North American Intermountain Basins | MG026. Intermountain Basins Pinyon–Juniper |
| 992 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.x. North American Introduced Evergreen | MG027. Introduced North American |
| 993 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.x. North American Introduced Evergreen | MG027. Introduced North American |
| 994 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.x. North American Introduced Evergreen | MG027. Introduced North American |
| 995 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.x. North American Introduced Evergreen | MG027. Introduced North American |
| 996 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.2. Cool Temperate Forest | 1.C.2.x. North American Introduced Evergreen | MG027. Introduced North American |
| 997 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG031. Western cool temperate scrub |
| 998 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG031. Western cool temperate scrub |
| 999 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG031. Western cool temperate scrub |
| 1000 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG031. Western cool temperate scrub |
| 1001 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG031. Western cool temperate scrub |
| 1002 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG031. Western cool temperate scrub |
| 1003 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1004 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1005 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1006 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1007 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1008 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1009 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1010 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1011 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1012 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1013 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1014 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1015 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1016 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1017 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1018 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1019 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1020 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1021 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1022 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1023 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1024 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1025 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1026 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1027 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1028 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1029 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1030 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1031 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1032 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1033 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1034 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1035 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1036 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1037 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1038 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1039 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1040 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1041 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1042 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1043 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1044 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1045 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1046 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1047 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1048 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |

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| 1049 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1050 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1051 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1052 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1053 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1054 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1055 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1056 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1057 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1058 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1059 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1060 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1061 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1062 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1063 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1064 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1065 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1066 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1067 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1068 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1069 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1070 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1071 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1072 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1073 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1074 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1075 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1076 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1077 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1078 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1079 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1080 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1081 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1082 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1083 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1084 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1085 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1086 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1087 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1088 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1089 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1090 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1091 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1092 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1093 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1094 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1095 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1096 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1097 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1098 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1099 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1100 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1101 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1102 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1103 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1104 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1105 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1106 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1107 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1108 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1109 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1110 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1111 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1112 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1113 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1114 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.b. Western North America Flooded and | MG034. Western Cordilleran montane–boreal |
| 1115 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1116 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1117 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1118 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |

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| 1119 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1120 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1121 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1122 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1123 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1124 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1125 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1126 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1127 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1128 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1129 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1130 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1131 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1132 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1133 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1134 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1135 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1136 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1137 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1138 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1139 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1140 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1141 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1142 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1143 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1144 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1145 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1146 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1147 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1148 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1149 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1150 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1151 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1152 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1153 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1154 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1155 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1156 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1157 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1158 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1159 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1160 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1161 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1162 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1163 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1164 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1165 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1166 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1167 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1168 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1169 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1170 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1171 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1172 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1173 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1174 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1175 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1176 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1177 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1178 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1179 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1180 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1181 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1182 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1183 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1184 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1185 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1186 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1187 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1188 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |

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| 1189 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1190 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1191 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1192 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1193 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1194 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1195 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1196 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1197 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1198 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1199 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1200 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1201 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1202 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1203 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1204 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1205 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1206 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1207 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1208 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1209 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1210 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1211 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1212 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1213 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1214 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1215 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1216 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1217 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1218 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1219 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1220 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1221 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1222 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1223 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1224 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1225 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1226 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1227 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1228 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1229 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1230 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1231 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1232 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1233 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1234 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1235 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1236 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1237 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1238 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1239 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1240 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1241 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1242 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1243 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1244 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1245 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1246 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1247 | 1. Mesomorphic Tree Vegetation (Forest and Woodland) | 1.C. Temperate Forest | 1.C.3. Temperate Flooded and Swamp | 1.C.3.c. Western North America Warm | MG036. Southwestern North American |
| 1248 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1249 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1250 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1251 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1252 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1253 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1254 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1255 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1256 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1257 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1258 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |

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| 1259 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1260 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1261 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1262 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1263 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1264 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1265 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1266 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1267 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1268 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1269 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1270 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1271 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1272 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1273 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1274 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1275 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1276 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1277 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1278 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1279 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1280 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1281 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1282 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1283 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1284 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1285 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1286 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1287 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1288 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1289 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1290 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1291 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1292 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1293 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1294 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1295 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1296 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1297 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1298 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1299 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1300 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1301 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1302 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1303 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1304 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1305 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1306 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1307 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1308 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1309 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1310 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1311 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1312 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1313 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1314 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1315 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1316 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1317 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1318 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1319 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1320 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1321 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1322 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1323 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1324 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1325 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1326 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1327 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1328 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |

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| 1329 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1330 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1331 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1332 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1333 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1334 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1335 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1336 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1337 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1338 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1339 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1340 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1341 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1342 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1343 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1344 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1345 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1346 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1347 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1348 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1349 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1350 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1351 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1352 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1353 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1354 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1355 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1356 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1357 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1358 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1359 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1360 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1361 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1362 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1363 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1364 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1365 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1366 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1367 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1368 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1369 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1370 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1371 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1372 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1373 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1374 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1375 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1376 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1377 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1378 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1379 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1380 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1381 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1382 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1383 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1384 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1385 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1386 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1387 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1388 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1389 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1390 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1391 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1392 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1393 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1394 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1395 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1396 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1397 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1398 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |

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| 1399 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1400 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1401 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1402 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1403 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1404 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1405 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1406 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1407 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1408 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1409 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1410 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1411 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1412 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1413 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1414 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1415 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1416 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1417 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1418 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1419 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1420 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1421 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1422 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1423 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1424 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1425 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1426 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1427 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1428 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1429 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1430 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1431 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1432 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1433 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1434 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1435 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1436 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1437 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1438 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1439 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1440 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1441 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1442 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1443 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1444 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1445 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1446 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1447 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1448 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1449 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1450 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1451 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1452 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1453 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1454 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1455 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1456 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1457 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1458 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1459 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1460 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1461 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1462 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1463 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1464 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1465 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1466 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1467 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1468 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |

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| 1469 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1470 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1471 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1472 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1473 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1474 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1475 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1476 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1477 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1478 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1479 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1480 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1481 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1482 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1483 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1484 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1485 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1486 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1487 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1488 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1489 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1490 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1491 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1492 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1493 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1494 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1495 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1496 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1497 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1498 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1499 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1500 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1501 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1502 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1503 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1504 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1505 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1506 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1507 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1508 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1509 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1510 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1511 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1512 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1513 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1514 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1515 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1516 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1517 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1518 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1519 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1520 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1521 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1522 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1523 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1524 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1525 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1526 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1527 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1528 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1529 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1530 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1531 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1532 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1533 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1534 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1535 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1536 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG043. California Chaparral |
| 1537 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1538 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |

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| 1539 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1540 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1541 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1542 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1543 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1544 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1545 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1546 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1547 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1548 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1549 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1550 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1551 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1552 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1553 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1554 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1555 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1556 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1557 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1558 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1559 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1560 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1561 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1562 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1563 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1564 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1565 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1566 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1567 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1568 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1569 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1570 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1571 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1572 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1573 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1574 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1575 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1576 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1577 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1578 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1579 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1580 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1581 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1582 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1583 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1584 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1585 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1586 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1587 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1588 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1589 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1590 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1591 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1592 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1593 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1594 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1595 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1596 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1597 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1598 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1599 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1600 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1601 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1602 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1603 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1604 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1605 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1606 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1607 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1608 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |

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| 1609 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1610 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1611 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1612 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1613 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1614 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1615 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1616 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1617 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1618 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1619 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1620 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1621 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1622 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1623 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1624 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1625 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1626 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1627 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1628 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1629 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1630 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1631 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1632 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1633 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1634 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1635 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1636 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1637 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1638 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1639 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1640 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1641 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1642 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1643 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1644 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1645 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1646 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1647 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1648 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1649 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1650 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1651 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1652 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1653 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1654 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1655 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1656 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1657 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1658 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1659 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1660 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1661 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.1. Mediterranean Scrub | 2.B.1.a. California Scrub | MG044. California Coastal Scrub |
| 1662 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1663 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1664 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1665 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1666 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1667 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1668 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1669 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1670 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1671 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1672 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1673 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1674 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1675 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1676 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1677 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1678 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |

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| 1679 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1680 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1681 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1682 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1683 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1684 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1685 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1686 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1687 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1688 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1689 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1690 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1691 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1692 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1693 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1694 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1695 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1696 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1697 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1698 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1699 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1700 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1701 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1702 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1703 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1704 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1705 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1706 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1707 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1708 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1709 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1710 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1711 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1712 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1713 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1714 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1715 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1716 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1717 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1718 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1719 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1720 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1721 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1722 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1723 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1724 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1725 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1726 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1727 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1728 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1729 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1730 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1731 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1732 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1733 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1734 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1735 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1736 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1737 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1738 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1739 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1740 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1741 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1742 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1743 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1744 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1745 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1746 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1747 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1748 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |

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| 1749 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1750 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1751 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1752 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1753 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1754 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1755 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1756 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1757 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1758 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1759 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1760 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1761 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1762 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1763 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1764 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1765 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1766 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1767 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1768 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1769 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1770 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1771 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1772 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1773 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1774 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1775 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1776 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1777 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1778 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1779 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1780 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.B. Mediterranean Scrub and Grassland | 2.B.2. Mediterranean Grassland and | 2.B.2.a. California Grassland and Meadow | MG045. California Annual and Perennial |
| 1781 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1782 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1783 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1784 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1785 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1786 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1787 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1788 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1789 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1790 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1791 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1792 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1793 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1794 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1795 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1796 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1797 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1798 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1799 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1800 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1801 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1802 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1803 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1804 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1805 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1806 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1807 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1808 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1809 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1810 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1811 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1812 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1813 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1814 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1815 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1816 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1817 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1818 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |

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| 1819 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1820 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1821 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1822 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1823 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1824 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1825 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1826 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1827 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1828 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1829 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1830 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1831 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1832 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1833 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1834 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1835 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1836 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1837 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1838 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG047. Western Cordilleran montane-boreal |
| 1839 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1840 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1841 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1842 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1843 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1844 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1845 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1846 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1847 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1848 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1849 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1850 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1851 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1852 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1853 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1854 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1855 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1856 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1857 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1858 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1859 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1860 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1861 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1862 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1863 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1864 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1865 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1866 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1867 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1868 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1869 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1870 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1871 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1872 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1873 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1874 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1875 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1876 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1877 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG048. Western North American Temperate |
| 1878 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1879 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1880 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1881 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1882 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1883 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1884 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1885 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1886 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1887 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1888 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |

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| 1889 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1890 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1891 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1892 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1893 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1894 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1895 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1896 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1897 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1898 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1899 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1900 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1901 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1902 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1903 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1904 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1905 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1906 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1907 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1908 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1909 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1910 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1911 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1912 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1913 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1914 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1915 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1916 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1917 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1918 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1919 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1920 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1921 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1922 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1923 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1924 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1925 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1926 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1927 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1928 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1929 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1930 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1931 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1932 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1933 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1934 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1935 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1936 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1937 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1938 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1939 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1940 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1941 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1942 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1943 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1944 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1945 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG049. Western Cordilleran Montane |
| 1946 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG050. Vancouverian Lowland Grassland |
| 1947 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG050. Vancouverian Lowland Grassland |
| 1948 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG050. Vancouverian Lowland Grassland |
| 1949 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG050. Vancouverian Lowland Grassland |
| 1950 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG050. Vancouverian Lowland Grassland |
| 1951 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG050. Vancouverian Lowland Grassland |
| 1952 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG050. Vancouverian Lowland Grassland |
| 1953 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG050. Vancouverian Lowland Grassland |
| 1954 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG050. Vancouverian Lowland Grassland |
| 1955 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG050. Vancouverian Lowland Grassland |
| 1956 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG050. Vancouverian Lowland Grassland |
| 1957 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG050. Vancouverian Lowland Grassland |
| 1958 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG050. Vancouverian Lowland Grassland |

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| 1959 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG050. Vancouverian Lowland Grassland |
| 1960 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG050. Vancouverian Lowland Grassland |
| 1961 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG050. Vancouverian Lowland Grassland |
| 1962 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG050. Vancouverian Lowland Grassland |
| 1963 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG050. Vancouverian Lowland Grassland |
| 1964 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG050. Vancouverian Lowland Grassland |
| 1965 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG050. Vancouverian Lowland Grassland |
| 1966 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG050. Vancouverian Lowland Grassland |
| 1967 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG050. Vancouverian Lowland Grassland |
| 1968 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG050. Vancouverian Lowland Grassland |
| 1969 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG050. Vancouverian Lowland Grassland |
| 1970 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG050. Vancouverian Lowland Grassland |
| 1971 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG050. Vancouverian Lowland Grassland |
| 1972 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG050. Vancouverian Lowland Grassland |
| 1973 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG050. Vancouverian Lowland Grassland |
| 1974 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG050. Vancouverian Lowland Grassland |
| 1975 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG050. Vancouverian Lowland Grassland |
| 1976 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG050. Vancouverian Lowland Grassland |
| 1977 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG050. Vancouverian Lowland Grassland |
| 1978 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG050. Vancouverian Lowland Grassland |
| 1979 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.a. Vancouverian and Rocky Mountain | MG050. Vancouverian Lowland Grassland |
| 1980 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 1981 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 1982 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 1983 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 1984 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 1985 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 1986 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 1987 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 1988 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 1989 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 1990 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 1991 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 1992 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 1993 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 1994 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 1995 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 1996 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 1997 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 1998 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 1999 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 2000 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 2001 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 2002 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 2003 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 2004 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 2005 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 2006 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 2007 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 2008 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 2009 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 2010 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 2011 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 2012 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 2013 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 2014 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 2015 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 2016 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 2017 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 2018 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 2019 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG051. Warm Interior Chaparral |
| 2020 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG052. Western North American |
| 2021 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG052. Western North American |
| 2022 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG052. Western North American |
| 2023 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG052. Western North American |
| 2024 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG052. Western North American |
| 2025 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG052. Western North American |
| 2026 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG052. Western North American |
| 2027 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG052. Western North American |
| 2028 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG052. Western North American |

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| 2029 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG052. Western North American |
| 2030 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG052. Western North American |
| 2031 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG052. Western North American |
| 2032 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG052. Western North American |
| 2033 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG052. Western North American |
| 2034 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG052. Western North American |
| 2035 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG052. Western North American |
| 2036 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG052. Western North American |
| 2037 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG052. Western North American |
| 2038 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG052. Western North American |
| 2039 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG052. Western North American |
| 2040 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG052. Western North American |
| 2041 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG052. Western North American |
| 2042 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG052. Western North American |
| 2043 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.1. Temperate Grassland, Meadow, | 2.C.1.x. Western North America Interior | MG052. Western North American |
| 2044 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2045 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2046 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2047 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2048 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2049 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2050 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2051 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2052 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2053 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2054 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2055 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2056 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2057 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2058 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2059 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2060 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2061 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2062 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2063 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2064 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2065 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2066 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2067 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2068 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2069 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2070 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2071 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2072 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2073 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2074 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2075 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2076 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2077 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2078 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2079 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2080 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2081 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2082 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2083 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2084 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2085 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2086 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2087 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2088 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2089 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2090 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2091 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2092 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2093 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2094 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2095 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2096 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2097 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2098 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |

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| 2099 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2100 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2101 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2102 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2103 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2104 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2105 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2106 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2107 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2108 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2109 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2110 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2111 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2112 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2113 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2114 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2115 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2116 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2117 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2118 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2119 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2120 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2121 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2122 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2123 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2124 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2125 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2126 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2127 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2128 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2129 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2130 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2131 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2132 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2133 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2134 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2135 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2136 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.3. Temperate and Boreal Scrub and | 2.C.3.b. Pacific Coast Scrub and Herb Littoral | MG058. Vancouverian Coastal Dune and Bluff |
| 2137 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.4. Temperate and Boreal Bog and | 2.C.4.a. North American Scrub and Herb | MG063. Western North American |
| 2138 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.4. Temperate and Boreal Bog and | 2.C.4.a. North American Scrub and Herb | MG063. Western North American |
| 2139 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.4. Temperate and Boreal Bog and | 2.C.4.a. North American Scrub and Herb | MG063. Western North American |
| 2140 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.4. Temperate and Boreal Bog and | 2.C.4.a. North American Scrub and Herb | MG063. Western North American |
| 2141 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.4. Temperate and Boreal Bog and | 2.C.4.a. North American Scrub and Herb | MG063. Western North American |
| 2142 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.4. Temperate and Boreal Bog and | 2.C.4.a. North American Scrub and Herb | MG063. Western North American |
| 2143 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.4. Temperate and Boreal Bog and | 2.C.4.a. North American Scrub and Herb | MG063. Western North American |
| 2144 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.4. Temperate and Boreal Bog and | 2.C.4.a. North American Scrub and Herb | MG063. Western North American |
| 2145 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.4. Temperate and Boreal Bog and | 2.C.4.a. North American Scrub and Herb | MG063. Western North American |
| 2146 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.4. Temperate and Boreal Bog and | 2.C.4.a. North American Scrub and Herb | MG063. Western North American |
| 2147 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.4. Temperate and Boreal Bog and | 2.C.4.a. North American Scrub and Herb | MG063. Western North American |
| 2148 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.4. Temperate and Boreal Bog and | 2.C.4.a. North American Scrub and Herb | MG063. Western North American |
| 2149 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.4. Temperate and Boreal Bog and | 2.C.4.a. North American Scrub and Herb | MG063. Western North American |
| 2150 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.4. Temperate and Boreal Bog and | 2.C.4.a. North American Scrub and Herb | MG063. Western North American |
| 2151 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.4. Temperate and Boreal Bog and | 2.C.4.a. North American Scrub and Herb | MG063. Western North American |
| 2152 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.4. Temperate and Boreal Bog and | 2.C.4.a. North American Scrub and Herb | MG063. Western North American |
| 2153 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.4. Temperate and Boreal Bog and | 2.C.4.a. North American Scrub and Herb | MG063. Western North American |
| 2154 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.4. Temperate and Boreal Bog and | 2.C.4.a. North American Scrub and Herb | MG063. Western North American |
| 2155 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.4. Temperate and Boreal Bog and | 2.C.4.a. North American Scrub and Herb | MG063. Western North American |
| 2156 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.4. Temperate and Boreal Bog and | 2.C.4.a. North American Scrub and Herb | MG063. Western North American |
| 2157 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.4. Temperate and Boreal Bog and | 2.C.4.a. North American Scrub and Herb | MG063. Western North American |
| 2158 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.4. Temperate and Boreal Bog and | 2.C.4.a. North American Scrub and Herb | MG063. Western North American |
| 2159 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.4. Temperate and Boreal Bog and | 2.C.4.a. North American Scrub and Herb | MG063. Western North American |
| 2160 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.4. Temperate and Boreal Bog and | 2.C.4.a. North American Scrub and Herb | MG063. Western North American |
| 2161 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2162 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2163 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2164 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2165 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2166 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2167 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2168 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |

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|---|---|---|---|---|---|
| 2169 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2170 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2171 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2172 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2173 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2174 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2175 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2176 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2177 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2178 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2179 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2180 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2181 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2182 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2183 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2184 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2185 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2186 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2187 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2188 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2189 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2190 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2191 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2192 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2193 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2194 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2195 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2196 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2197 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2198 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2199 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2200 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2201 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2202 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2203 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2204 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2205 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2206 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2207 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2208 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2209 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2210 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2211 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2212 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG073. Western North American Freshwater |
| 2213 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2214 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2215 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2216 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2217 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2218 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2219 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2220 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2221 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2222 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2223 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2224 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2225 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2226 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2227 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2228 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2229 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2230 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2231 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2232 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2233 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2234 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2235 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2236 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2237 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2238 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |

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| 2239 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2240 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2241 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2242 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2243 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2244 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2245 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2246 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2247 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2248 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2249 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2250 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2251 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2252 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2253 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2254 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2255 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2256 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2257 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2258 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2259 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2260 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2261 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2262 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2263 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2264 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2265 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2266 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2267 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2268 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2269 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2270 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2271 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2272 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2273 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2274 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2275 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2276 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2277 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2278 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2279 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2280 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2281 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2282 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2283 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2284 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2285 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG074. Western North America Vernal Pool |
| 2286 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2287 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2288 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2289 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2290 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2291 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2292 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2293 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2294 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2295 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2296 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2297 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2298 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2299 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2300 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2301 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2302 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2303 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2304 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2305 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2306 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2307 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2308 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |

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| 2309 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2310 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2311 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2312 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2313 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2314 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2315 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2316 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2317 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2318 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2319 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2320 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2321 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2322 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2323 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2324 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2325 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2326 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2327 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2328 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2329 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2330 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2331 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2332 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2333 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2334 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2335 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2336 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2337 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2338 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2339 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2340 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2341 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2342 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2343 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2344 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2345 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2346 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2347 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2348 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2349 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2350 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2351 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2352 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2353 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2354 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2355 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2356 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2357 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2358 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2359 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2360 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2361 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2362 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2363 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2364 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2365 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2366 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2367 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2368 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2369 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2370 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2371 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2372 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2373 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2374 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2375 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2376 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2377 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2378 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |

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|---|---|---|---|---|---|---|
| 2379 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.5. Temperate and Boreal Freshwater | 2.C.5.b. Western North American Freshwater | MG075. Western North America Wet Meadow |
| 2380 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2381 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2382 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2383 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2384 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2385 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2386 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2387 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2388 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2389 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2390 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2391 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2392 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2393 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2394 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2395 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2396 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2397 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2398 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2399 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2400 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2401 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2402 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2403 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2404 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2405 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2406 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2407 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2408 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2409 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2410 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2411 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2412 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2413 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2414 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2415 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2416 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2417 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2418 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2419 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2420 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2421 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2422 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2423 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2424 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2425 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2426 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2427 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2428 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2429 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2430 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2431 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2432 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2433 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2434 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2435 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2436 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2437 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2438 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2439 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2440 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2441 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2442 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.c. Temperate and Boreal Pacific Coastal | MG081. North American Pacific Coastal Salt |
| 2443 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG082. Cool Semi-Desert Alkali–Saline |
| 2444 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG082. Cool Semi-Desert Alkali–Saline |
| 2445 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG082. Cool Semi-Desert Alkali–Saline |
| 2446 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG082. Cool Semi-Desert Alkali–Saline |
| 2447 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG082. Cool Semi-Desert Alkali–Saline |
| 2448 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG082. Cool Semi-Desert Alkali–Saline |

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| 2449 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG082. Cool Semi-Desert Alkali–Saline |
| 2450 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG082. Cool Semi-Desert Alkali–Saline |
| 2451 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG082. Cool Semi-Desert Alkali–Saline |
| 2452 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2453 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2454 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2455 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2456 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2457 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2458 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2459 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2460 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2461 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2462 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2463 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2464 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2465 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2466 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2467 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2468 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2469 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2470 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2471 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2472 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2473 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2474 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2475 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2476 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2477 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2478 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2479 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2480 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2481 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2482 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2483 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2484 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2485 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2486 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2487 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2488 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2489 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2490 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2491 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2492 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2493 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2494 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2495 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2496 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2497 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2498 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2499 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2500 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2501 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2502 | 2. Mesomorphic Shrub and Herb Vegetation (Shrubland and | 2.C. Temperate and Boreal Shrubland and | 2.C.6. Temperate and Boreal Salt Marsh | 2.C.6.d. Western North American Interior | MG083. Warm Semi-Desert/Mediterranean |
| 2503 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub |
| 2504 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub |
| 2505 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub |
| 2506 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub |
| 2507 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub |
| 2508 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub |
| 2509 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub |
| 2510 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub |
| 2511 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub |
| 2512 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub |
| 2513 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub |
| 2514 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub |
| 2515 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub |
| 2516 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub |
| 2517 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub |
| 2518 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub |

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| 2519 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2520 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2521 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2522 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2523 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2524 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2525 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2526 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2527 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2528 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2529 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2530 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2531 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2532 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2533 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2534 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2535 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2536 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2537 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2538 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2539 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2540 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2541 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2542 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2543 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2544 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2545 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2546 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2547 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2548 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2549 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2550 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2551 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2552 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2553 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2554 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2555 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2556 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2557 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2558 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2559 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2560 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2561 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2562 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2563 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2564 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2565 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2566 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2567 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2568 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2569 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2570 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2571 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2572 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2573 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2574 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2575 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2576 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2577 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2578 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2579 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2580 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2581 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2582 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2583 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2584 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2585 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2586 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2587 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2588 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |

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|---|---|---|---|---|---|---|
| 2589 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2590 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2591 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2592 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2593 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2594 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2595 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2596 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2597 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2598 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2599 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2600 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2601 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2602 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2603 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2604 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2605 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2606 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2607 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2608 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2609 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2610 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2611 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2612 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2613 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2614 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2615 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2616 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2617 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2618 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2619 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2620 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2621 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2622 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2623 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2624 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2625 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2626 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2627 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2628 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2629 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2630 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2631 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2632 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2633 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2634 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2635 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2636 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2637 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2638 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2639 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2640 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2641 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2642 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2643 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2644 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2645 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2646 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2647 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2648 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2649 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2650 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2651 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2652 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2653 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2654 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2655 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2656 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2657 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |
| 2658 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub | |

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|---|---|---|---|---|---|---|
| 2659 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub |
| 2660 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub |
| 2661 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub |
| 2662 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub |
| 2663 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub |
| 2664 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub |
| 2665 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub |
| 2666 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub |
| 2667 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub |
| 2668 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub |
| 2669 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub |
| 2670 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub |
| 2671 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub |
| 2672 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub |
| 2673 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub |
| 2674 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub |
| 2675 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub |
| 2676 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG088. Mojavean–Sonoran Desert Scrub |
| 2677 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG089. Viscaino–Baja California Desert |
| 2678 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG089. Viscaino–Baja California Desert |
| 2679 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG089. Viscaino–Baja California Desert |
| 2680 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG089. Viscaino–Baja California Desert |
| 2681 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG089. Viscaino–Baja California Desert |
| 2682 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG089. Viscaino–Baja California Desert |
| 2683 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG089. Viscaino–Baja California Desert |
| 2684 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG089. Viscaino–Baja California Desert |
| 2685 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG089. Viscaino–Baja California Desert |
| 2686 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG089. Viscaino–Baja California Desert |
| 2687 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2688 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2689 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2690 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2691 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2692 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2693 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2694 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2695 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2696 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2697 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2698 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2699 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2700 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2701 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2702 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2703 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2704 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2705 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2706 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2707 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2708 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2709 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2710 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2711 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2712 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2713 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2714 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2715 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2716 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2717 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2718 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2719 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2720 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2721 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2722 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2723 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2724 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2725 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2726 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2727 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2728 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |

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|---|---|---|---|---|---|---|
| 2729 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2730 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2731 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2732 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2733 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2734 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2735 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2736 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2737 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2738 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2739 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2740 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2741 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2742 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2743 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2744 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2745 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2746 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2747 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2748 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2749 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2750 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2751 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2752 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2753 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2754 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2755 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2756 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2757 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2758 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2759 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2760 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2761 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2762 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2763 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2764 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2765 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2766 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2767 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2768 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2769 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2770 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2771 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2772 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2773 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2774 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2775 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2776 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2777 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2778 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2779 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2780 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2781 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2782 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2783 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2784 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2785 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2786 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2787 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2788 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2789 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2790 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2791 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2792 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.A. Warm Semi-Desert Scrub and Grassland | 3.A.1. Warm Semi-Desert Scrub and | 3.A.1.a. Sonoran and Chihuahuan Semi-Desert | MG092. Madrean Warm Semi-Desert Wash |
| 2793 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG093. Cool Semi-Desert Alkali-Saline Flats |
| 2794 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG093. Cool Semi-Desert Alkali-Saline Flats |
| 2795 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG093. Cool Semi-Desert Alkali-Saline Flats |
| 2796 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG093. Cool Semi-Desert Alkali-Saline Flats |
| 2797 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG093. Cool Semi-Desert Alkali-Saline Flats |
| 2798 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG093. Cool Semi-Desert Alkali-Saline Flats |

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| 2799 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG093. Cool Semi-Desert Alkali-Saline Flats |
| 2800 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG093. Cool Semi-Desert Alkali-Saline Flats |
| 2801 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG093. Cool Semi-Desert Alkali-Saline Flats |
| 2802 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG093. Cool Semi-Desert Alkali-Saline Flats |
| 2803 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG093. Cool Semi-Desert Alkali-Saline Flats |
| 2804 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG093. Cool Semi-Desert Alkali-Saline Flats |
| 2805 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG093. Cool Semi-Desert Alkali-Saline Flats |
| 2806 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG093. Cool Semi-Desert Alkali-Saline Flats |
| 2807 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG093. Cool Semi-Desert Alkali-Saline Flats |
| 2808 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG095. Cool Semi-desert wash and |
| 2809 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG095. Cool Semi-desert wash and |
| 2810 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG095. Cool Semi-desert wash and |
| 2811 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG095. Cool Semi-desert wash and |
| 2812 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG095. Cool Semi-desert wash and |
| 2813 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG095. Cool Semi-desert wash and |
| 2814 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG095. Cool Semi-desert wash and |
| 2815 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG095. Cool Semi-desert wash and |
| 2816 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG095. Cool Semi-desert wash and |
| 2817 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG095. Cool Semi-desert wash and |
| 2818 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG095. Cool Semi-desert wash and |
| 2819 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG095. Cool Semi-desert wash and |
| 2820 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG095. Cool Semi-desert wash and |
| 2821 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG096. Western North America Tall Sage |
| 2822 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG096. Western North America Tall Sage |
| 2823 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG096. Western North America Tall Sage |
| 2824 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG096. Western North America Tall Sage |
| 2825 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG096. Western North America Tall Sage |
| 2826 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG096. Western North America Tall Sage |
| 2827 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG096. Western North America Tall Sage |
| 2828 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG096. Western North America Tall Sage |
| 2829 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG096. Western North America Tall Sage |
| 2830 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG096. Western North America Tall Sage |
| 2831 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG096. Western North America Tall Sage |
| 2832 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG096. Western North America Tall Sage |
| 2833 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG096. Western North America Tall Sage |
| 2834 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG096. Western North America Tall Sage |
| 2835 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG096. Western North America Tall Sage |
| 2836 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG096. Western North America Tall Sage |
| 2837 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG096. Western North America Tall Sage |
| 2838 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG096. Western North America Tall Sage |
| 2839 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG096. Western North America Tall Sage |
| 2840 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG096. Western North America Tall Sage |
| 2841 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG096. Western North America Tall Sage |
| 2842 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG096. Western North America Tall Sage |
| 2843 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG096. Western North America Tall Sage |
| 2844 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG096. Western North America Tall Sage |
| 2845 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG096. Western North America Tall Sage |
| 2846 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG097. Western North America Dwarf Sage |
| 2847 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG097. Western North America Dwarf Sage |
| 2848 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG097. Western North America Dwarf Sage |
| 2849 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG097. Western North America Dwarf Sage |
| 2850 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG097. Western North America Dwarf Sage |
| 2851 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG097. Western North America Dwarf Sage |
| 2852 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG097. Western North America Dwarf Sage |
| 2853 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG097. Western North America Dwarf Sage |
| 2854 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG097. Western North America Dwarf Sage |
| 2855 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG097. Western North America Dwarf Sage |
| 2856 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG097. Western North America Dwarf Sage |
| 2857 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG097. Western North America Dwarf Sage |
| 2858 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG097. Western North America Dwarf Sage |
| 2859 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG097. Western North America Dwarf Sage |
| 2860 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG097. Western North America Dwarf Sage |
| 2861 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG097. Western North America Dwarf Sage |
| 2862 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG097. Western North America Dwarf Sage |
| 2863 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG097. Western North America Dwarf Sage |
| 2864 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG097. Western North America Dwarf Sage |
| 2865 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG097. Western North America Dwarf Sage |
| 2866 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2867 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2868 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |

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| 2869 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2870 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2871 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2872 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2873 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2874 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2875 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2876 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2877 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2878 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2879 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2880 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2881 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2882 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2883 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2884 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2885 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2886 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2887 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2888 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2889 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2890 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2891 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2892 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2893 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2894 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2895 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2896 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2897 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2898 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2899 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2900 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2901 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2902 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2903 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2904 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2905 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2906 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2907 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2908 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2909 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2910 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2911 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2912 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2913 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2914 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2915 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2916 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2917 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2918 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2919 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2920 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2921 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2922 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2923 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2924 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2925 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2926 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2927 | 3. Xeromorphic Scrub and Herb Vegetation (Semi-Desert) | 3.B. Cool Semi-Desert Scrub and Grassland | 3.B.1. Cool Semi-Desert Scrub and | 3.B.1.a. Western North American Cool Semi- | MG098. Inter-Mountain Dry Shrubland and |
| 2928 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG099. Rocky Mountain Alpine Scrub, Forb |
| 2929 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG099. Rocky Mountain Alpine Scrub, Forb |
| 2930 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG099. Rocky Mountain Alpine Scrub, Forb |
| 2931 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG099. Rocky Mountain Alpine Scrub, Forb |
| 2932 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG099. Rocky Mountain Alpine Scrub, Forb |
| 2933 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG099. Rocky Mountain Alpine Scrub, Forb |
| 2934 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG099. Rocky Mountain Alpine Scrub, Forb |
| 2935 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2936 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2937 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2938 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |

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|---|---|---|---|---|---|---|
| 2939 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2940 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2941 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2942 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2943 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2944 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2945 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2946 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2947 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2948 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2949 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2950 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2951 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2952 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2953 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2954 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2955 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2956 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2957 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2958 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2959 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2960 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2961 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2962 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2963 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2964 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2965 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2966 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2967 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2968 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2969 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2970 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2971 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2972 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2973 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2974 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2975 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2976 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2977 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2978 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2979 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2980 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2981 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2982 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2983 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2984 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2985 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2986 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2987 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2988 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2989 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2990 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2991 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2992 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2993 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2994 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2995 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2996 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2997 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2998 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 2999 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 3000 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 3001 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 3002 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 3003 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 3004 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 3005 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 3006 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 3007 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 3008 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |

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|---|---|---|---|---|---|---|
| 3009 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 3010 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 3011 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 3012 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 3013 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 3014 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 3015 | 4. Cryomorphic Shrub and Herb Vegetation (Polar and High Montane | 4.B. Temperate and Boreal Alpine Vegetation | 4.B.1. Alpine Scrub, Forb Meadow, and | 4.B.1.b. Western North America Alpine Scrub, | MG101. Vancouverian Alpine Scrub, Forb |
| 3016 | 5. Hydromorphic Vegetation (Aquatic Vegetation) | 5.A. Saltwater Aquatic Vegetation | 5.A.1. Marine and Estuarine Saltwater | 5.A.1.c. Temperate Pacific Saltwater Aquatic | MG106. Temperate Pacific Intertidal Shore |
| 3017 | 5. Hydromorphic Vegetation (Aquatic Vegetation) | 5.A. Saltwater Aquatic Vegetation | 5.A.1. Marine and Estuarine Saltwater | 5.A.1.c. Temperate Pacific Saltwater Aquatic | MG106. Temperate Pacific Intertidal Shore |
| 3018 | 5. Hydromorphic Vegetation (Aquatic Vegetation) | 5.A. Saltwater Aquatic Vegetation | 5.A.1. Marine and Estuarine Saltwater | 5.A.1.c. Temperate Pacific Saltwater Aquatic | MG106. Temperate Pacific Intertidal Shore |
| 3019 | 5. Hydromorphic Vegetation (Aquatic Vegetation) | 5.A. Saltwater Aquatic Vegetation | 5.A.1. Marine and Estuarine Saltwater | 5.A.1.c. Temperate Pacific Saltwater Aquatic | MG106. Temperate Pacific Intertidal Shore |
| 3020 | 5. Hydromorphic Vegetation (Aquatic Vegetation) | 5.A. Saltwater Aquatic Vegetation | 5.A.1. Marine and Estuarine Saltwater | 5.A.1.c. Temperate Pacific Saltwater Aquatic | MG106. Temperate Pacific Intertidal Shore |
| 3021 | 5. Hydromorphic Vegetation (Aquatic Vegetation) | 5.B. Freshwater Aquatic Vegetation | 5.B.1. Freshwater Aquatic Vegetation | 5.B.1.a. North American Freshwater Aquatic | MG109. Western North American Freshwater |
| 3022 | 5. Hydromorphic Vegetation (Aquatic Vegetation) | 5.B. Freshwater Aquatic Vegetation | 5.B.1. Freshwater Aquatic Vegetation | 5.B.1.a. North American Freshwater Aquatic | MG109. Western North American Freshwater |
| 3023 | 5. Hydromorphic Vegetation (Aquatic Vegetation) | 5.B. Freshwater Aquatic Vegetation | 5.B.1. Freshwater Aquatic Vegetation | 5.B.1.a. North American Freshwater Aquatic | MG109. Western North American Freshwater |
| 3024 | 5. Hydromorphic Vegetation (Aquatic Vegetation) | 5.B. Freshwater Aquatic Vegetation | 5.B.1. Freshwater Aquatic Vegetation | 5.B.1.a. North American Freshwater Aquatic | MG109. Western North American Freshwater |
| 3025 | 5. Hydromorphic Vegetation (Aquatic Vegetation) | 5.B. Freshwater Aquatic Vegetation | 5.B.1. Freshwater Aquatic Vegetation | 5.B.1.a. North American Freshwater Aquatic | MG109. Western North American Freshwater |
| 3026 | 5. Hydromorphic Vegetation (Aquatic Vegetation) | 5.B. Freshwater Aquatic Vegetation | 5.B.1. Freshwater Aquatic Vegetation | 5.B.1.a. North American Freshwater Aquatic | MG109. Western North American Freshwater |
| 3027 | 5. Hydromorphic Vegetation (Aquatic Vegetation) | 5.B. Freshwater Aquatic Vegetation | 5.B.1. Freshwater Aquatic Vegetation | 5.B.1.a. North American Freshwater Aquatic | MG109. Western North American Freshwater |
| 3028 | 5. Hydromorphic Vegetation (Aquatic Vegetation) | 5.B. Freshwater Aquatic Vegetation | 5.B.1. Freshwater Aquatic Vegetation | 5.B.1.a. North American Freshwater Aquatic | MG109. Western North American Freshwater |
| 3029 | 5. Hydromorphic Vegetation (Aquatic Vegetation) | 5.B. Freshwater Aquatic Vegetation | 5.B.1. Freshwater Aquatic Vegetation | 5.B.1.a. North American Freshwater Aquatic | MG109. Western North American Freshwater |
| 3030 | 5. Hydromorphic Vegetation (Aquatic Vegetation) | 5.B. Freshwater Aquatic Vegetation | 5.B.1. Freshwater Aquatic Vegetation | 5.B.1.a. North American Freshwater Aquatic | MG109. Western North American Freshwater |
| 3031 | 6. Lithomorphic Vegetation (Nonvascular and Sparse Vascular Rock | 6.B. Mediterranean, Temperate, and Boreal | 6.B.1. Mediterranean Cliff, Scree, and | 6.B.1.a. North American Mediterranean Rock | MG110. California Cliff, Scree, and Other |
| 3032 | 6. Lithomorphic Vegetation (Nonvascular and Sparse Vascular Rock | 6.B. Mediterranean, Temperate, and Boreal | 6.B.1. Mediterranean Cliff, Scree, and | 6.B.1.a. North American Mediterranean Rock | MG110. California Cliff, Scree, and Other |
| 3033 | 6. Lithomorphic Vegetation (Nonvascular and Sparse Vascular Rock | 6.B. Mediterranean, Temperate, and Boreal | 6.B.1. Mediterranean Cliff, Scree, and | 6.B.1.a. North American Mediterranean Rock | MG110. California Cliff, Scree, and Other |
| 3034 | 6. Lithomorphic Vegetation (Nonvascular and Sparse Vascular Rock | 6.B. Mediterranean, Temperate, and Boreal | 6.B.1. Mediterranean Cliff, Scree, and | 6.B.2.b. Western North American Temperate | MG114. Vancouverian Cliff, Scree and Other |
| 3035 | 6. Lithomorphic Vegetation (Nonvascular and Sparse Vascular Rock | 6.B. Mediterranean, Temperate, and Boreal | 6.B.1. Mediterranean Cliff, Scree, and | 6.B.2.b. Western North American Temperate | MG114. Vancouverian Cliff, Scree and Other |
| 3036 | 6. Lithomorphic Vegetation (Nonvascular and Sparse Vascular Rock | 6.B. Mediterranean, Temperate, and Boreal | 6.B.1. Mediterranean Cliff, Scree, and | 6.B.2.b. Western North American Temperate | MG114. Vancouverian Cliff, Scree and Other |
| 3037 | 6. Lithomorphic Vegetation (Nonvascular and Sparse Vascular Rock | 6.C. Semi-Desert Nonvascular and Sparse | 6.C.1. Warm Semi-Desert Cliff, Scree, | 6.C.1.a. North American Warm Semi-Desert | MG117. North American Warm Semi-Desert |
| 3038 | 6. Lithomorphic Vegetation (Nonvascular and Sparse Vascular Rock | 6.C. Semi-Desert Nonvascular and Sparse | 6.C.1. Warm Semi-Desert Cliff, Scree, | 6.C.1.a. North American Warm Semi-Desert | MG117. North American Warm Semi-Desert |
| 3039 | 6. Lithomorphic Vegetation (Nonvascular and Sparse Vascular Rock | 6.C. Semi-Desert Nonvascular and Sparse | 6.C.1. Warm Semi-Desert Cliff, Scree, | 6.C.1.a. North American Warm Semi-Desert | MG117. North American Warm Semi-Desert |
| 3040 | 6. Lithomorphic Vegetation (Nonvascular and Sparse Vascular Rock | 6.C. Semi-Desert Nonvascular and Sparse | 6.C.1. Warm Semi-Desert Cliff, Scree, | 6.C.1.a. North American Warm Semi-Desert | MG117. North American Warm Semi-Desert |
| 3041 | 6. Lithomorphic Vegetation (Nonvascular and Sparse Vascular Rock | 6.C. Semi-Desert Nonvascular and Sparse | 6.C.1. Warm Semi-Desert Cliff, Scree, | 6.C.1.a. North American Warm Semi-Desert | MG117. North American Warm Semi-Desert |
| 3042 | 6. Lithomorphic Vegetation (Nonvascular and Sparse Vascular Rock | 6.C. Semi-Desert Nonvascular and Sparse | 6.C.1. Warm Semi-Desert Cliff, Scree, | 6.C.1.a. North American Warm Semi-Desert | MG117. North American Warm Semi-Desert |
| 3043 | 6. Lithomorphic Vegetation (Nonvascular and Sparse Vascular Rock | 6.C. Semi-Desert Nonvascular and Sparse | 6.C.1. Warm Semi-Desert Cliff, Scree, | 6.C.1.a. North American Warm Semi-Desert | MG117. North American Warm Semi-Desert |
| 3044 | 6. Lithomorphic Vegetation (Nonvascular and Sparse Vascular Rock | 6.C. Semi-Desert Nonvascular and Sparse | 6.C.1. Warm Semi-Desert Cliff, Scree, | 6.C.1.a. North American Warm Semi-Desert | MG117. North American Warm Semi-Desert |
| 3045 | 6. Lithomorphic Vegetation (Nonvascular and Sparse Vascular Rock | 6.C. Semi-Desert Nonvascular and Sparse | 6.C.1. Warm Semi-Desert Cliff, Scree, | 6.C.1.a. North American Warm Semi-Desert | MG117. North American Warm Semi-Desert |
| 3046 | 6. Lithomorphic Vegetation (Nonvascular and Sparse Vascular Rock | 6.C. Semi-Desert Nonvascular and Sparse | 6.C.1. Warm Semi-Desert Cliff, Scree, | 6.C.1.a. North American Warm Semi-Desert | MG117. North American Warm Semi-Desert |
| 3047 | 6. Lithomorphic Vegetation (Nonvascular and Sparse Vascular Rock | 6.C. Semi-Desert Nonvascular and Sparse | 6.C.1. Warm Semi-Desert Cliff, Scree, | 6.C.1.a. North American Warm Semi-Desert | MG117. North American Warm Semi-Desert |
| 3048 | 6. Lithomorphic Vegetation (Nonvascular and Sparse Vascular Rock | 6.C. Semi-Desert Nonvascular and Sparse | 6.C.1. Warm Semi-Desert Cliff, Scree, | 6.C.1.a. North American Warm Semi-Desert | MG117. North American Warm Semi-Desert |
| 3049 | 6. Lithomorphic Vegetation (Nonvascular and Sparse Vascular Rock | 6.C. Semi-Desert Nonvascular and Sparse | 6.C.1. Warm Semi-Desert Cliff, Scree, | 6.C.1.a. North American Warm Semi-Desert | MG117. North American Warm Semi-Desert |
| 3050 | 6. Lithomorphic Vegetation (Nonvascular and Sparse Vascular Rock | 6.C. Semi-Desert Nonvascular and Sparse | 6.C.1. Warm Semi-Desert Cliff, Scree, | 6.C.1.a. North American Warm Semi-Desert | MG117. North American Warm Semi-Desert |
| 3051 | 6. Lithomorphic Vegetation (Nonvascular and Sparse Vascular Rock | 6.C. Semi-Desert Nonvascular and Sparse | 6.C.1. Warm Semi-Desert Cliff, Scree, | 6.C.1.a. North American Warm Semi-Desert | MG117. North American Warm Semi-Desert |
| 3052 | 6. Lithomorphic Vegetation (Nonvascular and Sparse Vascular Rock | 6.C. Semi-Desert Nonvascular and Sparse | 6.C.1. Warm Semi-Desert Cliff, Scree, | 6.C.1.a. North American Warm Semi-Desert | MG117. North American Warm Semi-Desert |
| 3053 | 6. Lithomorphic Vegetation (Nonvascular and Sparse Vascular Rock | 6.C. Semi-Desert Nonvascular and Sparse | 6.C.1. Warm Semi-Desert Cliff, Scree, | 6.C.1.a. North American Warm Semi-Desert | MG117. North American Warm Semi-Desert |

| Scientific Name | Common Name | Global and State Rank | CaCode | CTT Code | Invasive Species Rank |
|---|---|---|---|---|---|
| Mixed North Slope Forest | | G4 S4 | | CTT81500CA | |
| Mixed North Slope Cismontane Woodland | | G3 S3.2 | | *CTT71420CA | |
| *Aesculus californica* (California buckeye groves) Alliance | California buckeye groves | G3 S3 | *75.100.00 | | |
| *Aesculus californica* | | | *75.100.03 | | |
| *Aesculus californica - Umbellularia californica / Diplacus aurantiacus* | | | *75.100.02 | | |
| *Aesculus californica - Umbellularia californica / Holodiscus discolor* | | | *75.100.06 | | |
| *Aesculus californica / Datisca glomerata* | | | *75.100.04 | | |
| *Aesculus californica / Lupinus albifrons* | | | *75.100.05 | | |
| *Aesculus californica / Toxicodendron diversilobum / moss* | | | *75.100.01 | | |
| *Juglans californica* (California walnut groves) Alliance | California walnut groves | G3 S3 | *72.100.00 | | |
| California Walnut Woodland | | G2 S2.1 | | *CTT71210CA | |
| Walnut Forest | | G1 S1.1 | | *CTT81600CA | |
| *Juglans californica - Quercus agrifolia* | | | *72.100.08 | | |
| *Juglans californica / annual herbaceous* | | | *72.100.03 | | |
| *Juglans californica / Artemisia californica / Leymus condensatus* | | | *72.100.04 | | |
| *Juglans californica / Ceanothus spinosus* | | | *72.100.05 | | |
| *Juglans californica / Heteromeles arbutifolia* | | | *72.100.06 | | |
| *Juglans californica / Malosma laurina* | | | *72.100.07 | | |
| *Lyonothamnus floribundus* (Catalina ironwood groves) Special Stands | Catalina ironwood groves | G2 S2 | *77.000.00 | | |
| Island Ironwood Forest | | G2 S2.1 | | *CTT81700CA | |
| *Quercus agrifolia* (Coast live oak woodland) Alliance | Coast live oak woodland | G5 S4 (some associations are of high priority for | 71.060.00 | | |
| Coast Live Oak Woodland | | G4 S4 | | CTT71160CA | |
| Coast Live Oak Forest | | G4 S4 | | CTT81310CA | |
| Central Coast Live Oak Riparian Forest | | G3 S3.2 | | *CTT61220CA | |
| Southern Coast Live Oak Riparian Forest | | G4 S4 | | CTT61310CA | |
| *Quercus agrifolia* | | | 71.060.02 | | |
| *Quercus agrifolia - Acer macrophyllum / Frangula californica - Holodiscus discolor* | | | 71.060.03 | | |
| *Quercus agrifolia - Aesculus californica* | | | 71.060.52 | | |
| *Quercus agrifolia - Arbutus menziesii* | | | 71.060.40 | | |
| *Quercus agrifolia - Arbutus menziesii - Toxicodendron diversilobum* | | | 71.060.41 | | |
| *Quercus agrifolia - Arbutus menziesii - Umbellularia californica* | | | 71.060.26 | | |
| *Quercus agrifolia - Arbutus menziesii / Corylus cornuta - Rubus spp.* | | | 71.060.10 | | |
| *Quercus agrifolia - Juglans californica* | | | 71.060.27 | | |
| *Quercus agrifolia - Pinus coulteri* | | | 71.060.23 | | |
| *Quercus agrifolia - Platanus racemosa - Salix laevigata* | | | 71.060.43 | | |
| *Quercus agrifolia - Platanus racemosa / Toxicodendron diversilobum* | | | 71.060.42 | | |
| *Quercus agrifolia - Quercus douglasii* | | | 71.060.01 | | |
| *Quercus agrifolia - Quercus engelmannii / Eriogonum fasciculatum* | | | 71.060.45 | | |
| *Quercus agrifolia - Quercus kelloggii* | | | *71.060.18 | | |
| *Quercus agrifolia - Salix lasiolepis* | | | 71.060.47 | | |
| *Quercus agrifolia - Umbellularia californica* | | | 71.060.48 | | |
| *Quercus agrifolia - Umbellularia californica / Arctostaphylos glauca - Toxicodendron diversilobum* | | | 71.060.51 | | |
| *Quercus agrifolia - Umbellularia californica / Ceanothus oliganthus* | | | 71.060.49 | | |
| *Quercus agrifolia - Umbellularia californica / Heteromeles arbutifolia - Quercus berberidifolia* | | | 71.060.05 | | |
| *Quercus agrifolia - Umbellularia californica / Toxicodendron diversilobum* | | | 71.060.50 | | |
| *Quercus agrifolia / Adenostoma fasciculatum (- Salvia mellifera)* | | | 71.060.07 | | |
| *Quercus agrifolia / Artemisia californica* | | | 71.060.08 | | |
| *Quercus agrifolia / Ceanothus oliganthus* | | | 71.060.16 | | |
| *Quercus agrifolia / Ceanothus spinosus* | | | 71.060.34 | | |
| *Quercus agrifolia / chaparral* | | | 71.060.29 | | |
| *Quercus agrifolia / coastal sage scrub* | | | 71.060.28 | | |
| *Quercus agrifolia / Equisetum hymale* | | | 71.060.35 | | |
| *Quercus agrifolia / Eriogonum wrightii* | | | 71.060.22 | | |
| *Quercus agrifolia / Frangula californica - Heteromeles arbutifolia* | | | 71.060.06 | | |
| *Quercus agrifolia / Frangula californica ssp. tomentella / Stachys pycnantha* | | | 71.060.36 | | |
| *Quercus agrifolia / grass* | | | 71.060.09 | | |
| *Quercus agrifolia / Heteromeles arbutifolia* | | | 71.060.14 | | |
| *Quercus agrifolia / Heteromeles arbutifolia - Toxicodendron diversilobum* | | | 71.060.15 | | |
| *Quercus agrifolia / Holodiscus discolor - Symphoricarpos albus* | | | 71.060.11 | | |
| *Quercus agrifolia / Quercus berberidifolia* | | | 71.060.37 | | |
| *Quercus agrifolia / Rubus spp. / Pteridium aquilinum* | | | 71.060.04 | | |
| *Quercus agrifolia / Salvia leucophylla - Artemisia californica* | | | 71.060.38 | | |
| *Quercus agrifolia / Symphoricarpos albus* | | | 71.060.17 | | |
| *Quercus agrifolia / Toxicodendron diversilobum* | | | 71.060.13 | | |
| *Quercus agrifolia / Toxicodendron diversilobum - (Corylus cornuta)* | | | 71.060.25 | | |
| *Quercus agrifolia / Toxicodendron diversilobum / grass* | | | 71.060.12 | | |
| *Quercus agrifolia / Toxicodendron diversilobum riparian* | | | 71.060.39 | | |
| *Quercus chrysolepis* (Canyon live oak forest) Alliance | Canyon live oak forest | G5 S5 (some associations are of high priority for | 71.050.00 | | |

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|---|---|---|---|
| Canyon Live Oak Forest | | G4 S4 | CTT81320CA |
| Canyon Live Oak Ravine Forest | | G3 S3.3 | *CTT61350CA |
| *Pinus ponderosa - Quercus chrysolepis / Arctostaphylos viscida* | | | 71.050.31 |
| *Quercus chrysolepis* | | | 71.050.04 |
| *Quercus chrysolepis - Arbutus menziesii - Lithocarpus densiflorus var. densiflorus* | | | 71.050.01 |
| *Quercus chrysolepis - Calocedrus decurrens* | | | 71.050.19 |
| *Quercus chrysolepis - Ceanothus integerrimus* | | | *71.050.03 |
| *Quercus chrysolepis - Pinus jeffreyi* | | | 71.050.32 |
| *Quercus chrysolepis - Pinus lambertiana* | | | *71.050.02 |
| *Quercus chrysolepis - Pinus ponderosa* | | | 71.050.18 |
| *Quercus chrysolepis - Pinus sabiniana* | | | 71.050.16 |
| *Quercus chrysolepis - Quercus garryana var. garryana / Pentagramma triangularis* | | | *71.050.07 |
| *Quercus chrysolepis - Quercus kelloggii - Acer macrophyllum* | | | 71.050.27 |
| *Quercus chrysolepis - Quercus kelloggii / (Toxicodendron diversilobum)* | | | 71.050.26 |
| *Quercus chrysolepis - Quercus lobata / Vitis californica* | | | 71.050.28 |
| *Quercus chrysolepis - Quercus wislizeni* | | | 71.050.29 |
| *Quercus chrysolepis - Umbellularia californica* | | | 71.050.13 |
| *Quercus chrysolepis - Umbellularia californica / Vitis californica* | | | 71.050.30 |
| *Quercus chrysolepis / Arctostaphylos mewukka* | | | 71.050.09 |
| *Quercus chrysolepis / Arctostaphylos patula* | | | 71.050.15 |
| *Quercus chrysolepis / Arctostaphylos viscida* | | | 71.050.14 |
| *Quercus chrysolepis / Dryopteris arguta* | | | 71.050.17 |
| *Quercus chrysolepis / Lithocarpus densiflorus var. echinoides* | | | 71.050.25 |
| *Quercus chrysolepis / Polystichum imbricans* | | | 71.050.08 |
| *Querecus chrysolepis / Rhamnus ilicifolia* | | | 71.050.33 |
| *Quercus chrysolepis / Toxicodendron diversilobum* | | | 71.050.21 |
| *Quercus douglasii* (Blue oak woodland) Alliance | Blue oak woodland | G4 S4 (some associations are of high priority for | 71.020.00 |
| Blue Oak Woodland | | G3 S3.2 | *CTT71140CA |
| *Quercus douglasii - Aesculus californica / Asclepias fascicularis* | | | 71.020.44 |
| *Quercus douglasii - Aesculus californicus / grass* | | | 71.020.24 |
| *Quercus douglasii - Pinus sabiniana* | | | 71.020.02 |
| Digger Pine Oak Woodland | | G4 S4 | CTT71410CA |
| *Quercus douglasii - Pinus sabiniana / Arctostaphylos viscida* | | | 71.020.04 |
| *Quercus douglasii - Pinus sabiniana / Ceanothus cuneatus - Cercocapus montanus* | | | 71.020.03 |
| *Quercus douglasii - Pinus sabiniana / Cercocarpus montanus* | | | 71.020.25 |
| *Quercus douglasii - Quercus agrifolia* | | | 71.020.01 |
| *Quercus douglasii - Quercus lobata* | | | 71.020.11 |
| *Quercus douglasii - Quercus wislizeni* | | | 71.020.06 |
| *Quercus douglasii - Quercus wislizeni - Pinus sabiniana* | | | 71.020.18 |
| *Quercus douglasii - Quercus wislizeni / Bromus spp. - Daucus pusillus* | | | 71.020.17 |
| *Quercus douglasii - Quercus wislizeni / Ceanothus cuneatus* | | | 71.020.07 |
| *Quercus douglasii - Quercus wislizeni / Lithophragma cymbalaria* | | | 71.020.46 |
| *Quercus douglasii / Juniperus californica - Cercocarpus montanus* | | | 71.020.42 |
| *Quercus douglasii / Achnatherum lemmonii* | | | 71.020.43 |
| *Quercus douglasii / Amsinckia intermedia - Plagiobothrys nothofulvus* | | | 71.020.27 |
| *Quercus douglasii / Arctostaphylos manzanita / herbaceous* | | | 71.020.22 |
| *Quercus douglasii / Brachypodium distachyon* | | | 71.020.28 |
| *Quercus douglasii / Bromus hordeaceus - Lolium multiflorum* | | | 71.020.30 |
| *Quercus douglasii / Bromus hordeaceus - Madia gracilis* | | | 71.020.29 |
| *Quercus douglasii / Bromus hordeaceus - Triteleia laxa* | | | 71.020.31 |
| *Quercus douglasii / Bromus spp. - Daucus pusillus* | | | 71.020.16 |
| *Quercus douglasii / Ceanothus cuneatus* | | | 71.020.12 |
| *Quercus douglasii / Cercocarpus montanus / Bowlesia incana - Lithophragma affine* | | | *71.020.14 |
| *Quercus douglasii / Collinsia sparsiflora - Rigiopappus leptocladus* | | | 71.020.32 |
| *Quercus douglasii / Delphinium parryi - Phacelia imbricata* | | | 71.020.33 |
| *Quercus douglasii / Ericameria linearifolia* | | | 71.020.08 |
| *Quercus douglasii / Ericameria linearifolia - Juniperus californica* | | | 71.020.19 |
| *Quercus douglasii / Eriogonum elongatum / Lotus subpinnatus - Plantago erecta* | | | 71.020.34 |
| *Quercus douglasii / Eriogonum fasciculatum / herbaceous* | | | 71.020.20 |
| *Quercus douglasii / Erodium moschatum - Hordeum leporinum* | | | 71.020.35 |
| *Quercus douglasii / Euphorbia spathulata - Pentagramma triangularis* | | | 71.020.36 |
| *Quercus douglasii / Galium andrewsii - Lupinus concinnus* | | | 71.020.37 |
| *Quercus douglasii / grass* | | | 71.020.05 |
| *Quercus douglasii / Hordeum leporinum - Viola pedunculata* | | | 71.020.38 |
| *Quercus douglasii / Juniperus californica* | | | 71.020.26 |
| Juniper Oak Cismontane Woodland | | G3 S3.2 | *CTT71430CA |
| *Quercus douglasii / Juniperus californica - Ceanothus cuneatus* | | | 71.020.23 |
| *Quercus douglasii / Juniperus californica - Quercus john-tuckeri* | | | 71.020.41 |
| *Quercus douglasii / Lotus subpinnatus - Nassella pulchra* | | | 71.020.40 |
| *Quercus douglasii / Lupinus concinnus - Trifolium ciliolatum* | | | 71.020.39 |

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| *Quercus douglasii / Ribes californica / Bromus diandrus* | | | 71.020.15 | |
| *Quercus douglasii / Selaginella hansenii - Navarretia pubescens* | | | 71.020.21 | |
| *Quercus douglasii / Toxicodendron diversilobum / grass* | | | 71.020.45 | |
| *Quercus douglasii / understory oak* | | | 71.020.09 | |
| *Quercus engelmannii* (Engelmann oak woodland) Alliance | Engelmann oak woodland | G3 S3 | *71.070.00 | |
| Engelmann Oak Woodland | | G2 S2.1 | | *CTT71180CA |
| Open Engelmann Oak Woodland | | G2 S2.2 | | *CTT71181CA |
| Dense Engelmann Oak Woodland | | G2 S2.1 | | *CTT71182CA |
| *Quercus engelmannii / Adenostoma fasciculatum - Arctostaphylos glauca* | | | *71.070.05 | |
| *Quercus engelmannii / annual grass - herb* | | | *71.070.06 | |
| *Quercus engelmannii / Quercus berberidifolia* | | | *71.070.07 | |
| *Quercus engelmannii / Salvia apiana / grass - herb* | | | *71.070.08 | |
| *Quercus engelmannii / Toxicodendron diversilobum / grass* | | | *71.070.09 | |
| *Quercus kelloggii* (California black oak forest) Alliance | California black oak forest | G4 S4 (some associations are of high priority for | 71.010.00 | |
| Black Oak Forest | | G4 S4 | | CTT81340CA |
| Black Oak Woodland | | G3 S3.2 | | *CTT71120CA |
| *Quercus kelloggii - Calocedrus decurrens* | | | 71.010.21 | |
| *Quercus kelloggii - Pinus coulteri* | | | 71.010.32 | |
| *Quercus kelloggii - Pinus coulteri / Arctostaphylos glandulosa* | | | 71.010.33 | |
| *Quercus kelloggii - Pinus coulteri / Arctostaphylos pringlei* | | | 71.010.34 | |
| *Quercus kelloggii - Pinus ponderosa* | | | 71.010.26 | |
| Westside Ponderosa Pine Forest | | G3 S2.1 | | *CTT84210CA |
| *Quercus kelloggii - Pinus ponderosa / Arctostaphylos viscida* | | | 71.010.27 | |
| *Quercus kelloggii - Pinus ponderosa / Ceanothus integerrimus* | | | 71.010.28 | |
| *Quercus kelloggii - Pinus sabiniana / Styrax officinalis - Toxicodendron diversilobum* | | | 71.010.35 | |
| *Quercus kelloggii - Pseudotsuga menziesii* | | | *71.010.17 | |
| *Quercus kelloggii - Pseudotsuga menziesii - Acer macrophyllum* | | | 71.010.16 | |
| *Quercus kelloggii - Pseudotsuga menziesii - Umbellularia californica* | | | 71.010.29 | |
| *Quercus kelloggii - Quercus agrifolia - pine / Holodiscus discolor* | | | *71.010.02 | |
| *Quercus kelloggii - Quercus chrysolepis* | | | 71.010.12 | |
| *Quercus kelloggii - Quercus chrysolepis / Toxicodendron diversilobum* | | | 71.010.01 | |
| *Quercus kelloggii - Quercus chrysolepis / Toxicodendron diversilobum* | | | 71.010.23 | |
| *Quercus kelloggii - Quercus lobata / grass* | | | *71.010.11 | |
| *Quercus kelloggii / annual grass - herb* | | | 71.010.30 | |
| *Quercus kelloggii / Arctostaphylos mewukka / Chamaebatia foliosa* | | | 71.010.20 | |
| *Quercus kelloggii / Arctostaphylos patula* | | | 71.010.06 | |
| *Quercus kelloggii / Arctostaphylos viscida* | | | 71.010.24 | |
| *Quercus kelloggii / Ceanothus integerrimus* | | | 71.010.03 | |
| *Quercus kelloggii / Ceanothus integerrimus - Toxicodendron diversilobum / Pteridium aquilinum* | | | 71.010.04 | |
| *Quercus kelloggii / Heteromeles arbutifolia - Toxicodendron diversilobum* | | | 71.010.31 | |
| *Quercus kelloggii / Toxicodendron diversilobum* | | | 71.010.08 | |
| *Quercus kelloggii / Toxicodendron diversilobum - Styrax officinalis / Triteleia laxa* | | | 71.010.10 | |
| *Quercus kelloggii / Toxicodendron diversilobum / grass* | | | 71.010.25 | |
| *Quercus kelloggii/ Triteleia spp.* | | | 71.010.05 | |
| *Quercus lobata* (Valley oak woodland) Alliance | Valley oak woodland | G3 S3 (some associations are of high priority for | *71.040.00 | |
| Valley Oak Woodland | | G3 S2.1 | | *CTT71130CA |
| *Quercus lobata - Acer negundo* | | | *71.040.15 | |
| *Quercus lobata - Alnus rhombifolia* | | | *71.040.11 | |
| *Quercus lobata - Fraxinus latifolia / Vitis californica* | | | *71.040.16 | |
| *Quercus lobata - Quercus agrifolia / grass* | | | *71.040.06 | |
| *Quercus lobata - Quercus agrifolia / Toxicodendron diversilobum* | | | *71.040.17 | |
| *Quercus lobata - Quercus douglasii* | | | *71.040.18 | |
| *Quercus lobata - Quercus kelloggii* | | | *71.040.19 | |
| *Quercus lobata - Quercus wislizeni* | | | *71.040.12 | |
| *Quercus lobata - Salix lasiolepis* | | | *71.040.20 | |
| *Quercus lobata (Sacramento River)* | Sacramento River | | *71.040.14 | |
| Great Valley Valley Oak Riparian Forest | | G1 S1.1 | | *CTT61430CA |
| *Quercus lobata / grass* | | | *71.040.05 | |
| *Quercus lobata / herbaceous semi-riparian* | | | *71.040.13 | |
| *Quercus lobata / Rhus trilobata* | | | *71.040.09 | |
| *Quercus lobata / Rubus armeniacus* | | | *71.040.10 | |
| *Quercus palmeri* (Palmer oak chaparral) Alliance | Palmer oak chaparral | G3 S2? | *37.419.00 | |
| *Quercus palmeri - Eriogonum fasciculatum* | | | *37.419.01 | |
| *Quercus palmeri - Eriogonum wrightii* | | | *37.419.02 | |
| *Quercus parvula var. shrevei* (Shreve oak forests) Provisional Alliance | Shreve oak forests | G2 S2 | *71.085.00 | |
| *Quercus (agrifolia, douglasii, garryana, kelloggii, lobata, wislizeni)* (Mixed oak forest) Alliance | Mixed oak forest | G4 S4 | 71.100.00 | |
| *Mixed oak - Aesculus californica / grass* | | | 71.100.05 | |
| *Mixed oak - Pinus sabiniana / grass* | | | 71.100.07 | |
| *Mixed oak - Quercus agrifolia / Toxicodendron diversilobum* | | | 71.100.06 | |
| *Mixed oak - Quercus kelloggii / grass* | | | 71.100.04 | |

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| *Mixed oak / Baccharis pilularis - Toxicodendron diversilobum* | | | 71.100.10 | |
| *Mixed oak / grass* | | | 71.100.08 | |
| *Quercus douglasii - Quercus lobata - Quercus agrifolia / Toxicodendron diversilobum* | | | 71.100.14 | |
| *Quercus tomentella* (Island oak groves) Special Stands | Island oak groves | G3 S3 | *71.090.00 | |
| Island Oak Woodland | | G2 S2.1 | | *CTT71190CA |
| *Quercus wislizeni* (Interior live oak woodland) Alliance | Interior live oak woodland | G4 S4 | 71.080.00 | |
| Interior Live Oak Forest | | G4 S4 | | CTT81330CA |
| Interior Live Oak Woodland | | G3 S3.2 | | *CTT71150CA |
| *Quercus wislizeni - Aesculus californica* | | | 71.080.14 | |
| *Quercus wislizeni - Aesculus californica / Toxicodendron diversilobum* | | | 71.080.37 | |
| *Quercus wislizeni - Arbutus menziesii / Toxicodendron diversilobum* | | | 71.080.03 | |
| *Quercus wislizeni - Pinus ponderosa* | | | 71.080.15 | |
| *Quercus wislizeni - Pinus sabiniana / annual grass - herb* | | | 71.080.42 | |
| *Quercus wislizeni - Pinus sabiniana / Arctostaphylos manzanita* | | | 71.080.02 | |
| *Quercus wislizeni - Pinus sabiniana / Arctostaphylos viscida* | | | 71.080.08 | |
| *Quercus wislizeni - Quercus chrysolepis - Pinus coulteri* | | | 71.080.39 | |
| *Quercus wislizeni - Quercus chrysolepis tree* | | | 71.080.38 | |
| *Quercus wislizeni - Quercus douglasii - Aesculus californica* | | | 71.080.43 | |
| *Quercus wislizeni - Quercus douglasii - Pinus sabiniana / (grass)* | | | 71.080.01 | |
| *Quercus wislizeni - Quercus douglasii - Pinus sabiniana / Toxicodendron diversilobum* | | | 71.080.41 | |
| *Quercus wislizeni - Quercus douglasii / herbaceous* | | | 71.080.44 | |
| *Quercus wislizeni - Quercus douglasii / Toxicodendron diversilobum* | | | 71.080.46 | |
| *Quercus wislizeni - Quercus kelloggii* | | | 71.080.45 | |
| *Quercus wislizeni - Quercus kelloggii / Heteromeles arbutifolia - Toxicodendron diversilobum* | | | 71.080.47 | |
| *Quercus wislizeni - Salix laevigata / Frangula californica* | | | 71.080.13 | |
| *Quercus wislizeni / Arctostaphylos viscida* | | | 71.080.04 | |
| *Quercus wislizeni / Eriodictyon californicum* | | | 71.080.05 | |
| *Quercus wislizeni / Heteromeles arbutifolia* | | | 71.080.40 | |
| *Quercus wislizeni / Toxicodendron diversilobum* | | | 71.080.48 | |
| *Quercus wislizeni / Toxicodendron diversilobum / Centaurea solstitialis* | | | 71.080.16 | |
| *Umbellularia californica* (California bay forest) Alliance | California bay forest | G4 S3 | *74.100.00 | |
| California Bay Forest | | G3 S3.2 | | *CTT81200CA |
| *Umbellularia californica* | | | *74.100.01 | |
| *Umbellularia californica - Acer macrophyllum* | | | *74.100.10 | |
| *Umbellularia californica - Aesculus californica / Holodiscus discolor* | | | *74.100.06 | |
| *Umbellularia californica - Alnus rhombifolia* | | | *74.100.16 | |
| *Umbellularia californica - Arbutus menziesii* | | | *74.100.03 | |
| *Umbellularia californica - Juglans californica / Ceanothus spinosus* | | | *74.100.11 | |
| *Umbellularia californica - Lithocarpus densiflorus* | | | *74.100.12 | |
| *Umbellularia californica - Platanus racemosa* | | | *74.100.13 | |
| *Umbellularia californica - Pseudotsuga menziesii / Rhododendron occidentale* | | | *74.100.17 | |
| *Umbellularia californica - Quercus agrifolia / (Genista monspessulana)* | | | *74.100.15 | |
| *Umbellularia californica - Quercus agrifolia / Heteromeles arbutifolia - Toxicodendron diversilobum / Melica torreyana* | | | *74.100.19 | |
| *Umbellularia californica - Quercus agrifolia / Toxicodendron diversilobum (Corylus cornuta)* | | | *74.100.05 | |
| *Umbellularia californica - Quercus chrysolepis* | | | *74.100.20 | |
| *Umbellularia californica - Quercus wislizeni* | | | *74.100.18 | |
| *Umbellularia californica / Ceanothus oliganthus* | | | *74.100.07 | |
| *Umbellularia californica / Polystichum munitum* | | | *74.100.08 | |
| *Umbellularia californica / Toxicodendron diversilobum* | | | *74.100.09 | |
| Northern Interior Cypress Forest | | G2 S2.2 | | *CTT83220CA |
| Southern Interior Cypress Forest | | G2 S2.1 | | *CTT83230CA |
| *Callitropsis abramsiana* (Santa Cruz cypress groves) Special Stands | Santa Cruz cypress groves | G1 S1 | *81.606.00 | |
| *Callitropsis bakeri* (Baker cypress stands) Alliance | Baker cypress stands | G2 S2 | *81.601.00 | |
| *Callitropsis bakeri / Arctostaphylos patula* | | | *81.601.01 | |
| *Callitropsis forbesii* (Tecate cypress stands) Alliance | Tecate cypress stands | G2 S2 | *81.607.00 | |
| *Callitropsis goveniana* (Monterey pygmy cypress stands) Special Stands | Monterey pygmy cypress stands | G1 S1 | *81.603.00 | |
| Monterey Pygmy Cypress Forest | | G1 S1.1 | | *CTT83162CA |
| *Callitropsis macnabiana* (McNab cypress woodland) Alliance | McNab cypress woodland | G3 S3 | *81.300.00 | |
| *Callitropsis macnabiana / Arctostaphylos viscida* | | | *81.300.02 | |
| *Callitropsis macrocarpa* (Monterey cypress stands) Special Stands | Monterey cypress stands | G1 S1 | *81.604.00 | |
| Monterey Cypress Forest | | G1 S1.2 | | *CTT83150CA |
| *Callitropsis nevadensis* | | | *81.605.01 | |
| *Callitropsis pigmaea* (Mendocino pygmy cypress woodland) Alliance | Mendocino pygmy cypress woodland | G2 S2 | *81.400.00 | |
| Mendocino Pygmy Cypress Forest | | G2 S2.1 | | *CTT83161CA |
| *Callitropsis pigmaea / Ramalina tharusta* | | | *81.400.03 | |
| *Callitropsis pigmaea / Usnea subfloridana* | | | *81.400.04 | |
| *Callitropsis pigmaea / Cladina impexa* | | | *81.400.02 | |
| *Callitropsis sargentii* (Sargent cypress woodland) Alliance | Sargent cypress woodland | G3 S3 | *81.500.00 | |
| *Callitropsis sargentii* | | | *81.500.01 | |
| *Callitropsis sargentii / Arctostaphylos montana* | | | *81.500.03 | |

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| *Callitropsis sargentii / riparian* | | | *81.500.02 | |
| *Callitropsis stephensonii* (Cuyamaca cypress stands) Special Stands | Cuyamaca cypress stands | G1 S1 | *81.610.00 | |
| *Juniperus californica* (California juniper woodland) Alliance | California juniper woodland | G4 S4 (some associations are of high priority for | 89.100.00 | |
| Peninsular Juniper Woodland and Scrub | | G3 S3.2 | | *CTT72320CA |
| Cismontane Juniper Woodland and Scrub | | G2 S2.1 | | *CTT72400CA |
| *Juniperus californica - (Yucca schidigera) / Pleuraphis rigida* | | | 89.100.08 | |
| *Juniperus californica - Adenostoma fasciculatum - Eriogonum fasciculatum* | | | *89.100.01 | |
| *Juniperus californica - Coleogyne ramosissima* | | | 89.100.04 | |
| *Juniperus californica - Coleogyne ramosissima - Yucca schidigera* | | | 89.100.06 | |
| *Juniperus californica - Ericameria linearifolia / annual - perennial - herb* | | | *89.100.02 | |
| *Juniperus californica - Eriogonum fasciculatum - Artemisia californica* | | | 89.100.12 | |
| *Juniperus californica - Fraxinus dipetala - Ericameria linearifolia* | | | 89.100.14 | |
| *Juniperus californica - Quercus cornelius - mulleri / Coleogyne ramosissima* | | | 89.100.05 | |
| *Juniperus californica - Yucca schidigera* | | | 89.100.18 | |
| *Juniperus californica / Agave deserti* | | | 89.100.03 | |
| *Juniperus californica / annual herbaceous* | | | 89.100.15 | |
| *Juniperus californica / Hesperostipa comata* | | | 89.100.17 | |
| *Juniperus californica / Nolina parryi* | | | 89.100.11 | |
| *Juniperus californica / Prunus ilicifolia / moss* | | | 89.100.16 | |
| *Pinus attenuata* (Knobcone pine forest) Alliance | Knobcone pine forest | G4 S4 | 87.100.00 | |
| Knobcone Pine Forest | | G4 S4 | | *CTT83210CA |
| *Pinus attenuata - mixed oak / Arctostaphylos viscida* | | | 87.100.08. | |
| *Pinus attenuata / Adenostoma fasciculatum* | | | 87.100.04 | |
| *Pinus attenuata / Arctostaphylos columbiana* | | | 87.100.01 | |
| *Pinus attenuata / Arctostaphylos glandulosa* | | | 87.100.06 | |
| *Pinus attenuata / Arctostaphylos patula* | | | 87.100.02 | |
| *Pinus attenuata / Arctostaphylos viscida* | | | 87.100.05 | |
| *Pinus attenuata / Ceanothus lemmonii* | | | 87.100.07 | |
| *Pinus attenuata / Quercus vacciniifolia* | | | 87.100.03 | |
| *Pinus coulteri* (Coulter pine woodland) Alliance | Coulter pine woodland | G4 S4 (some associations are of high priority for | 87.090.00 | |
| Coulter Pine Forest | | | | *CTT84140CA |
| *Pinus coulteri - Calocedrus decurrens - Pinus jeffreyi / Quercus durata* | | | *87.090.01 | |
| *Pinus coulteri - Calocedrus decurrens / Frangula californica spp. tomentella / Aquilegia eximia* | | | *87.092.03 | |
| *Pinus coulteri - Calocedrus decurrens / Quercus durata - Arctostaphylos glauca* | | | *87.090.02 | |
| *Pinus coulteri - Pinus sabiniana / Quercus durata - Arctostaphylos pungens* | | | *87.090.03 | |
| *Pinus coulteri - Quercus chrysolepis* | | | 87.090.04 | |
| *Pinus coulteri - Quercus chrysolepis / Arctostaphylos pringlei* | | | *87.090.06 | |
| *Pinus coulteri - Quercus kelloggii* | | | 87.092.08 | |
| *Pinus coulteri - Quercus wislizeni* | | | 87.092.05 | |
| *Pinus coulteri / Arctostaphylos glandulosa* | | | 87.092.07 | |
| *Pinus coulteri / Arctostaphylos glandulosa - Quercus wislizeni* | | | 87.092.01 | |
| *Pinus coulteri / Arctostaphylos glauca* | | | 87.092.02 | |
| *Pinus coulteri / Quercus durata* | | | *87.092.04 | |
| *Pinus muricata* (Bishop pine forest) Alliance | Bishop pine forest | G3 S3 | *87.070.00 | |
| Northern Bishop Pine Forest | | G2 S2.2 | | *CTT83121CA |
| Southern Bishop Pine Forest | | G1 S1.1 | | *CTT83122CA |
| *Pinus muricata - (Arbutus menziesii) / Vaccinium ovatum* | | | *87.070.01 | |
| *Pinus muricata - Callitropsis pigmaea* | | | *87.070.10 | |
| *Pinus muricata - Pinus contorta ssp. bolanderi* | | | *87.070.02 | |
| *Pinus muricata - Pinus contorta ssp. bolanderi / Arnica discoidea* | | | *87.070.03 | |
| *Pinus muricata - Pseudotsuga menziesii* | | | *87.070.04 | |
| *Pinus muricata / Arctostaphylos glandulosa* | | | *87.070.07 | |
| *Pinus muricata / Xerophyllum tenax* | | | *87.070.09 | |
| *Pinus quadrifolia* (Parry pinyon woodland) Alliance | Parry pinyon woodland | G3 S2 | *87.030.00 | |
| *Pinus quadrifolia / Quercus cornelius - mulleri* | | | *87.030.01 | |
| *Pinus radiata* (Monterey pine forest) Alliance | Monterey pine forest | G1 S1 | *87.110.00 | |
| Monterey Pine Forest | | G1 S1.1 | | *CTT83130CA |
| *Pinus radiata - Pinus muricata / Arctostaphylos tomentosa - Arctostaphylos hookeri* | | | *87.110.03 | |
| *Pinus radiata - Quercus agrifolia / Toxicodendron diversilobum* | | | *87.110.04 | |
| *Pinus radiata / Arctostaphylos tomentosa - Vaccinium ovatum* | | | *87.110.01 | |
| *Pinus radiata / Toxicodendron diversilobum* | | | *87.110.02 | |
| *Pinus sabiniana* (Ghost pine woodland) Alliance | Ghost pine woodland | G4 S4 | 87.130.00 | |
| Open Digger Pine Woodland | | G4 S4 | | CTT71310CA |
| *Pinus sabiniana - Juniperus californica / grass* | | | 87.130.02 | |
| *Pinus sabiniana - Quercus chrysolepis / Arctostaphylos viscida* | | | 87.130.12 | |
| *Pinus sabiniana - Quercus wislizeni / Adenostoma fasciculatum* | | | 87.130.11 | |
| *Pinus sabiniana - Quercus wislizeni / Ceanothus cuneatus* | | | 87.130.04 | |
| *Pinus sabiniana / Adenostoma fasciculatum* | | | 87.130.07 | |
| *Pinus sabiniana / Arctostaphylos viscida* | | | 87.130.08 | |
| *Pinus sabiniana / Artemisia californica - Ceanothus ferrisiae - Heteromeles arbutifolia* | | | 87.130.06 | |

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| *Pinus sabiniana / Ceanothus cuneatus - Heteromeles arbutifolia* | | | 87.130.09 | |
| *Pinus sabiniana / Ceanothus cuneatus - Rhamnus illicifolia* | | | 87.130.10 | |
| *Pinus sabiniana / Ceanothus cuneatus / Plantago erecta* | | | 87.130.03 | |
| *Pinus sabiniana / Frangula californica ssp. tomentella* | | | 87.130.13 | |
| *Pinus torreyana* (Torrey pine stands) Special Stands | Torrey pine stands | G1 S1 | *87.190.00 | |
| Torrey Pine Forest | | G1 S1.1 | | *CTT83140CA |
| *Pinus torreyana / Artemisia californica - Rhus integrifolia* | | | *87.190.01 | |
| Mixed Evergreen Forest | | G4 S4 | | CTT81100CA |
| *Arbutus menziesii* (Madrone forest) Alliance | Madrone forest | G4 S3 | *73.200.00 | |
| *Arbutus menziesii - Quercus agrifolia* | | | *73.200.03 | |
| *Arbutus menziesii - Umbellularia californica - (Lithocarpus densiflorus)* | | | *73.200.01 | |
| *Arbutus menziesii - Umbellularia californica - Quercus kelloggii* | | | *73.200.02 | |
| *Chrysolepis chrysophylla* (Golden chinquapin thickets) Alliance | Golden chinquapin thickets | G2 S2 | *37.417.00 | |
| *Chrysolepis chrysophylla - Arctostaphylos glandulosa* | | | *37.417.02 | |
| *Chrysolepis chrysophylla / Vaccinium ovatum* | | | *37.417.01 | |
| *Lithocarpus densiflorus* (Tanoak forest) Alliance | Tanoak forest | G4 S3 | *73.100.00 | |
| Tan Oak Forest | | G4 S4 | | CTT81400CA |
| *Lithocarpus densiflorus - Acer circinatum* | | | *73.100.10 | |
| *Lithocarpus densiflorus - Acer macrophyllum* | | | *73.100.11 | |
| *Lithocarpus densiflorus - Arbutus menziesii* | | | *73.100.03 | |
| *Lithocarpus densiflorus - Calocedrus decurrens / Festuca californica* | | | *73.100.12 | |
| *Lithocarpus densiflorus - Chamaecyparis lawsoniana* | | | *73.100.13 | |
| *Lithocarpus densiflorus - Chrysolepis chrysophylla* | | | *73.100.14 | |
| *Lithocarpus densiflorus - Cornus nuttallii* | | | *73.100.15 | |
| *Lithocarpus densiflorus - Cornus nuttallii / Toxicodendron diversilobum* | | | *73.100.16 | |
| *Lithocarpus densiflorus - Pinus lambertiana / Toxicodendron diversilobum* | | | *73.100.01 | |
| *Lithocarpus densiflorus - Quercus chrysolepis* | | | *73.100.17 | |
| *Lithocarpus densiflorus - Quercus kelloggii* | | | *73.100.18 | |
| *Lithocarpus densiflorus - Umbellularia californica* | | | *73.100.19 | |
| *Lithocarpus densiflorus / Corylus cornuta* | | | *73.100.04 | |
| *Lithocarpus densiflorus / Frangula californica* | | | *73.100.02 | |
| *Lithocarpus densiflorus / Gaultheria shallon* | | | *73.100.05 | |
| *Lithocarpus densiflorus / Mahonia nervosa* | | | *73.100.06 | |
| *Lithocarpus densiflorus / Quercus vacciniifolia - Rhododendron macrophyllum* | | | *73.100.07 | |
| *Lithocarpus densiflorus / Toxicodendron diversilobum - Lonicera hispidula var. vacillens* | | | *73.100.08 | |
| *Lithocarpus densiflorus / Vaccinium ovatum* | | | *73.100.09 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus* (Douglas fir - tanoak forest) Alliance | Douglas fir - tanoak forest | G4 S4 | 82.500.00 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus* | | | 82.500.48 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus - (Acer macrophyllum) / Polystichum munitum* | | | 82.500.02 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus - (Acer macrophyllum) / Polystichum munitum* | | | 82.500.50 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus - (Calocedrus decurrens) / Festuca californica* | | | 82.500.22 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus - (Chamaecyparis lawsoniana - Alnus rubra) / riparian* | | | 82.500.31 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus - (Chamaecyparis lawsoniana - Umbellularia californica) / Vaccinium ovatum* | | | 82.500.24 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus - (Chamaecyparis lawsoniana) / Mahonia nervosa / Linnaea borealis* | | | 82.500.25 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus - (Chamaecyparis lawsoniana) / Acer circinatum* | | | 82.500.30 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus - (Chamaecyparis lawsoniana) / Gaultheria shallon* | | | 82.500.29 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus - (Chamaecyparis lawsoniana) / Vaccinium ovatum* | | | 82.500.26 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus - (Chamaecyparis lawsoniana) / Vaccinium ovatum - Rhododendron occidentalis* | | | 82.500.27 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus - (Chamaecyparis lawsoniana) / Vaccinium parvifolium* | | | 82.500.28 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus - (Chrysolepis chrysophylla) / Gaultheria shallon* | | | 82.500.16 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus - (Chrysolepis chrysophylla) / Pteridium aquilinum* | | | 82.500.12 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus - (Chrysolepis chrysophylla) / Rhododendron macrophyllum - Gaultheria shallon* | | | 82.500.15 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus - (Pinus lambertiana)* | | | 82.500.39 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus - (Quercus chrysolepis) / Mahonia nervosa* | | | 82.500.13 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus - (Quercus chrysolepis) / Mahonia nervosa - Gaultheria shallon* | | | 82.500.06 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus - (Quercus chrysolepis) / rockpile* | | | 82.500.11 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus - (Quercus chrysolepis) / Toxicodendron diversilobum* | | | 82.500.10 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus - (Quercus chrysolepis) / Vaccinium ovatum* | | | 82.500.08 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus - (Quercus chrysolepis, Quercus kelloggii) / Toxicodendron diversilobum* | | | 82.500.05 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus - (Quercus kelloggii) / Rosa gymnocarpa* | | | 82.500.03 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus - (Umbellularia californica) / Toxicodendron diversilobum* | | | 82.500.04 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus / Iris* | | | 82.500.44 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus - Thuja plicata / Vaccinium ovatum - Gaultheria shallon* | | | 82.500.51 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus / Acer circinatum* | | | 82.500.36 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus / Achlys triphylla* | | | 82.500.40 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus / Chimaphila umbellata* | | | 82.500.01 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus / Cornus nuttallii* | | | 82.500.43 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus / Corylus cornuta* | | | 82.500.21 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus / Gaultheria shallon* | | | 82.500.35 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus / Mahonia nervosa* | | | 82.500.07 | |

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| *Pseudotsuga menziesii - Lithocarpus densiflorus / Quercus vacciniifolia - Holodiscus discolor* | | | 82.500.46 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus / Rhododendron macrophyllum* | | | 82.500.49 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus / Taxus brevifolia* | | | 82.500.38 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus / Toxicodendron diversilobum - (Lonicera hispidula)* | | | 82.500.23 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus / Vaccinium ovatum - (Gaultheria shallon)* | | | 82.500.19 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus / Vaccinium ovatum - (Gaultheria shallon)* | | | 82.500.20 | |
| *Pseudotsuga menziesii - Lithocarpus densiflorus / Whipplea modesta* | | | 82.500.47 | |
| *Quercus garryana* (Oregon white oak woodland) Alliance | Oregon white oak woodland | G4 S3 | *71.030.00 | |
| Oregon Oak Woodland | | G3 S3.3 | | *CTT71110CA |
| *Quercus garryana - Pseudotsuga menziesii / Festuca californica* | | | *71.030.03 | |
| *Quercus garryana - Quercus kelloggii / Arrhenatherum elatius* | | | *71.030.01 | |
| *Quercus garryana - Quercus kelloggii / Dichelostemma ida-maia* | | | *71.030.15 | |
| *Quercus garryana - Quercus kelloggii / Toxicodendron diversilobum* | | | *71.030.14 | |
| *Quercus garryana var. garryana - Quercus garryana var. breweri / Festuca californica* | | | *71.030.02 | |
| *Quercus garryana / Bromus carinatus* | | | *71.030.11 | |
| *Quercus garryana / Cynosurus cristatus* | | | *71.030.06 | |
| *Quercus garryana / Dactylis glomerata* | | | *71.030.10 | |
| *Quercus garryana / Delphinium trolliifolium* | | | *71.030.09 | |
| *Quercus garryana / Melica subulata* | | | *71.030.13 | |
| *Quercus garryana / Philadelphus lewisii* | | | *71.030.08 | |
| *Quercus garryana / Ribes roezlii* | | | *71.030.07 | |
| *Quercus garryana / Symphoricarpos albus* | | | *71.030.05 | |
| *Quercus garryana / Toxicodendron diversilobum* | | | *71.030.04 | |
| *Abies concolor - Pseudotsuga menziesii* (White fir - Douglas fir forest) Alliance | White fir - Douglas fir forest | G5 S4 (some associations are of high priority for | 88.530.00 | |
| *Abies concolor - Pseudotsuga menziesii - (mixed conifer) / Acer circinatum - Chrysolepis sempervirens* | | | 88.530.34 | |
| *Abies concolor - Pseudotsuga menziesii - (Quercus chrysolepis)* | | | *88.530.06 | |
| *Abies concolor - Pseudotsuga menziesii - Calocedrus decurrens* | | | 88.530.30 | |
| *Abies concolor - Pseudotsuga menziesii / Amelanchier utahensis* | | | 88.530.35 | |
| *Abies concolor - Pseudotsuga menziesii / Arnica cordifolia* | | | 88.530.14 | |
| *Abies concolor - Pseudotsuga menziesii / Cornus nuttallii* | | | 88.530.36 | |
| *Abies concolor - Pseudotsuga menziesii / Cornus nuttallii / Corylus cornuta* | | | 88.530.37 | |
| *Abies concolor - Pseudotsuga menziesii / Corylus cornuta* | | | *88.530.15 | |
| *Abies concolor - Pseudotsuga menziesii / Corylus cornuta / Adenocaulon bicolor* | | | 88.530.32 | |
| *Abies concolor - Pseudotsuga menziesii / Melica subulata* | | | 88.530.16 | |
| *Abies concolor - Pseudotsuga menziesii / Pteridium aquilinum* | | | 88.530.29 | |
| *Abies concolor - Pseudotsuga menziesii / Quercus sadleriana* | | | 88.530.17 | |
| *Abies concolor - Pseudotsuga menziesii / Quercus sadleriana - Arctostaphylos nevadensis* | | | 88.530.18 | |
| *Abies concolor - Pseudotsuga menziesii / Quercus sadleriana - Quercus vacciniifolia* | | | 88.530.19 | |
| *Abies concolor - Pseudotsuga menziesii / Quercus sadleriana - Rhododendron macrophyllum* | | | 88.530.38 | |
| *Abies concolor - Pseudotsuga menziesii / Quercus vacciniifolia* | | | 88.530.20 | |
| *Abies concolor - Pseudotsuga menziesii / Rhododendron macrophyllum - Quercus sadleriana* | | | *88.530.21 | |
| *Abies concolor - Pseudotsuga menziesii / Rosa gymnocarpa - Linnaea borealis - Symphoricarpos mollis* | | | 88.530.23 | |
| *Abies concolor - Pseudotsuga menziesii / Rosa gymnocarpa - Symphoricarpos mollis* | | | 88.530.24 | |
| *Abies concolor - Pseudotsuga menziesii / Rosa gymnocarpa / Linnaea borealis* | | | *88.530.25 | |
| *Abies concolor - Pseudotsuga menziesii / Rubus ameniacus* | | | 88.530.31 | |
| *Abies concolor - Pseudotsuga menziesii / Rubus parviflorus* | | | *88.530.26 | |
| *Abies concolor - Pseudotsuga menziesii / Trientalis latifolia* | | | 88.530.33 | |
| *Abies concolor - Pseudotsuga menziesii / Xerophyllum tenax* | | | 88.530.28 | |
| *Acer macrophyllum* (Bigleaf maple forest) Alliance | Bigleaf maple forest | G4 S3 | *61.450.00 | |
| *Acer macrophyllum* | | | *61.450.01 | |
| *Acer macrophyllum - Pseudotsuga menziesii / Adenocaulon bicolor* | | | *61.450.02 | |
| *Acer macrophyllum - Pseudotsuga menziesii / Corylus cornuta* | | | *61.450.04 | |
| *Acer macrophyllum - Pseudotsuga menziesii / Dryopteris arguta* | | | *61.450.03 | |
| *Acer macrophyllum - Pseudotsuga menziesii / Philadelphus lewisii* | | | *61.450.05 | |
| *Acer macrophyllum - Pseudotsuga menziesii / Polystichum munitum* | | | *61.450.06 | |
| *Alnus rubra* (Red alder forest) Alliance | Red alder forest | G5 S4 (some associations are of high priority for | 61.410.00 | |
| Red Alder Forest | | G4 S3.2 | | CTT81A00CA |
| *Alnus rubra - Pseudotsuga menziesii / Acer circinatum / Claytonia siberica* | | | 61.410.08 | |
| *Alnus rubra - Pseudotsuga menziesii / Acer circinatum / Claytonia sibirica* | | | *61.410.01 | |
| *Alnus rubra / Gaultheria shallon* | | | *61.410.02 | |
| *Alnus rubra / Rubus spectabilis* | | | 61.410.07 | |
| Red Alder Riparian Forest | | G3 S2.2 | | *CTT61130CA |
| *Alnus rubra / Rubus spectabilis - Sambucus racemosa* | | | *61.410.06 | |
| *Pseudotsuga menziesii* (Douglas fir forest) Alliance | Douglas fir forest | G5 S4 (some associations are of high priority for | 82.200.00 | |
| Upland Douglas Fir Forest | | G4 S3.1 | | *CTT82420CA |
| *Pseudotsuga menziesii* | | | 82.200.77 | |
| *Pseudotsuga menziesii - Chrysolepis chrysophylla - Lithocarpus densiflorus* | | | *82.200.12 | |
| *Pseudotsuga menziesii - Chrysolepis chrysophylla - Lithocarpus densiflorus / Mahonia nervosa* | | | *82.200.13 | |
| *Pseudotsuga menziesii - Chrysolepis chrysophylla / Rhododendron macrophyllum - Gaultheria shallon* | | | 82.200.79 | |
| *Pseudotsuga menziesii - Chrysolepis chrysophylla / Rhododendron macrophyllum - Mahonia nervosa* | | | *82.200.10 | |

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| *Pseudotsuga menziesii - Chrysolepis chrysophylla / Rhododendron macrophyllum - Quercus sadleriana - Xerophyllum tenax* | | | *82.200.11 | |
| *Pseudotsuga menziesii - Chrysolepis chrysophylla / Xerophyllum tenax* | | | *82.200.09 | |
| *Pseudotsuga menziesii - Quercus agrifolia* | | | 82.200.71 | |
| *Pseudotsuga menziesii - Quercus chrysolepis* | | | *82.300.03 | |
| *Pseudotsuga menziesii - Quercus chrysolepis - Acer macrophyllum / Toxicodendron diversilobum* | | | 82.300.07 | |
| *Pseudotsuga menziesii - Quercus chrysolepis - Arbutus menziesii / Toxicodendron diversilobum* | | | *82.300.02 | |
| *Pseudotsuga menziesii - Quercus chrysolepis - Lithocarpus densiflorus* | | | *82.300.05 | |
| *Pseudotsuga menziesii - Quercus chrysolepis - mixed conifer / Polystichum munitum* | | | *82.300.01 | |
| *Pseudotsuga menziesii - Quercus chrysolepis / Arctostaphylos manzanita* | | | 82.300.06 | |
| *Pseudotsuga menziesii - Quercus garryana var. garryana / grass* | | | *82.200.19 | |
| *Pseudotsuga menziesii - Quercus kelloggii* | | | *82.200.60 | |
| *Pseudotsuga menziesii - Quercus kelloggii* | | | 82.200.80 | |
| *Pseudotsuga menziesii - Umbellularia californica* | | | *82.200.66 | |
| *Pseudotsuga menziesii - Umbellularia californica / Frangula californica* | | | 82.200.70 | |
| *Pseudotsuga menziesii - Umbellularia californica / Holodiscus discolor* | | | 82.200.81 | |
| *Pseudotsuga menziesii - Umbellularia californica / Polystichum munitum* | | | 82.200.69 | |
| *Pseudotsuga menziesii - Umbellularia californica / Toxicodendron diversilobum* | | | *82.200.05 | |
| *Pseudotsuga menziesii / Acer circinatum - Mahonia nervosa* | | | *82.200.20 | |
| *Pseudotsuga menziesii / Achlys triphylla* | | | *82.200.49 | |
| *Pseudotsuga menziesii / Arbutus menziesii* | | | *82.200.50 | |
| *Pseudotsuga menziesii / Arctostaphylos patula* | | | 82.200.53 | |
| *Pseudotsuga menziesii / Baccharis pilularis* | | | 82.200.72 | |
| *Pseudotsuga menziesii / Chimaphila umbellata* | | | *82.200.54 | |
| *Pseudotsuga menziesii / Corylus cornuta* | | | *82.200.56 | |
| *Pseudotsuga menziesii / Corylus cornuta / Adenocaulon bicolor* | | | *82.200.04 | |
| *Pseudotsuga menziesii / Gaultheria shallon* | | | *82.200.59 | |
| *Pseudotsuga menziesii / Linnaea borealis* | | | *82.200.55 | |
| *Pseudotsuga menziesii / Lithocarpus densiflorus var. echinoides / Iris douglasii* | | | 82.200.78 | |
| *Pseudotsuga menziesii / Mahonia nervosa* | | | *82.200.64 | |
| *Pseudotsuga menziesii / Quercus vacciniifolia* | | | *82.200.15 | |
| *Pseudotsuga menziesii / Quercus vacciniifolia - Lithocarpus densiflorus var. echinoides* | | | *82.200.16 | |
| *Pseudotsuga menziesii / Quercus vacciniifolia - Rhododendron macrophyllum* | | | *82.200.74 | |
| *Pseudotsuga menziesii / Rhododendron spp.* | | | *82.200.58 | |
| *Pseudotsuga menziesii / Vancouveria planipetala* | | | *82.200.57 | |
| *Pinus ponderosa - Pseudotsuga menziesii* (Ponderosa pine - Douglas fir forest) Alliance | Ponderosa pine - Douglas fir forest | G4 S4 (some associations are of high priority for | 82.400.00 | |
| Coast Range Mixed Coniferous Forest | | G4 S4 | | CTT84110CA |
| *Pinus ponderosa - Pseudotsuga menziesii - Lithocarpus densiflorus / Chamaebatia foliolosa* | | | 82.400.08 | |
| *Pinus ponderosa - Pseudotsuga menziesii - Quercus chrysolepis / Galium bolanderi* | | | 82.400.09 | |
| *Pinus ponderosa - Pseudotsuga menziesii / Antennaria rosea - Eriogonum nudum* | | | 82.400.07 | |
| *Pinus ponderosa - Pseudotsuga menziesii / Purshia tridentata var. tridentata / Wyethia mollis* | | | 82.400.06 | |
| *Pseudotsuga menziesii - Pinus ponderosa* | | | *82.400.04 | |
| *Pseudotsuga menziesii - Pinus ponderosa - Calocedrus decurrens* | | | *82.400.02 | |
| *Pseudotsuga menziesii - Pinus ponderosa - Pinus jeffreyi / Poa secunda* | | | *82.400.03 | |
| *Pseudotsuga menziesii - Calocedrus decurrens* (Douglas fir - Incense cedar forest) Alliance | Douglas fir - Incense cedar forest | G3 S3 | *82.600.00 | |
| Ultramafic Mixed Coniferous Forest | | G4 S4 | | CTT84180CA |
| *Pseudotsuga menziesii - Calocedrus decurrens - (Pinus jeffreyi) / Nassella pulchra* | | | *82.600.15 | |
| *Pseudotsuga menziesii - Calocedrus decurrens - (Quercus kellogii) / Nassella pulchra* | | | *82.600.14 | |
| *Pseudotsuga menziesii - Calocedrus decurrens - Pinus jeffreyi* | | | *82.600.12 | |
| *Pseudotsuga menziesii - Calocedrus decurrens - Pinus jeffreyi / Festuca californica* | | | *82.600.13 | |
| *Pseudotsuga menziesii - Calocedrus decurrens - Umbellularia californica / Toxicodendron diversilobum* | | | *82.600.01 | |
| *Pseudotsuga menziesii - Calocedrus decurrens / Festuca californica* | | | *82.600.02 | |
| *Pseudotsuga menziesii - Calocedrus decurrens / Quercus vacciniifolia* | | | *82.600.04 | |
| *Abies bracteata* (Santa Lucia fir groves) Alliance | Santa Lucia fir groves | G3 S3 | *88.300.00 | |
| Santa Lucia Fir Forest | | G2 S2.2 | | *CTT84120CA |
| *Abies bracteata / Galium clementis* | | | *88.300.01 | |
| *Abies bracteata / Polystichum munitum* | | | *88.300.02 | |
| *Abies concolor* (White fir forest) Alliance | White fir forest | G5 S4 (some associations are of high priority for | 88.500.00 | |
| Southern California White Fir Forest | | G4 S4 | | CTT85320CA |
| Desert Mountain White Fir Forest | | G4 S1.2 | | *CTT85330CA |
| *Abies concolor - Calocedrus decurrens - Pinus jeffreyi* | | | 88.500.40 | |
| *Abies concolor - Calocedrus decurrens - Pseudotsuga macrocarpa - Pinus coulteri* | | | 88.510.10 | |
| *Abies concolor - Calocedrus decurrens - Quercus kelloggii* | | | 88.500.29 | |
| *Abies concolor - Calocedrus decurrens / Pyrola picta* | | | 88.500.31 | |
| *Abies concolor - Calocedrus decurrens / Symphoricarpos mollis* | | | 88.500.30 | |
| *Abies concolor - Chrysolepis chrysophylla* | | | *88.500.37 | |
| *Abies concolor / (Rosa gymnocarpa) - Symphoricarpos mollis* | | | 88.500.35 | |
| *Abies concolor / Acer glabrum* | | | 88.500.60 | |
| *Abies concolor / Achlys triphylla* | | | 88.500.12 | |
| *Abies concolor / Amelanchier alnifolia* | | | 88.500.33 | |
| *Abies concolor / Arctostaphylos nevadensis* | | | 88.500.10 | |

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| *Abies concolor / Arnica cordifolia* | | | 88.500.17 | |
| *Abies concolor / Chimaphila menziesii - Pyrola picta* | | | 88.500.32 | |
| *Abies concolor / Chimaphila umbellata* | | | 88.500.11 | |
| *Abies concolor / Goodyera oblongifolia* | | | 88.500.59 | |
| *Abies concolor / Mahonia nervosa* | | | 88.500.54 | |
| *Abies concolor / Prunus emarginata* | | | 88.500.58 | |
| *Abies concolor / Pseudostellaria jamesiana* | | | 88.500.61 | |
| *Abies concolor / Trillium ovatum* | | | 88.500.57 | |
| *Abies concolor / Vicia americana* | | | 88.500.53 | |
| *Abies concolor - Pinus lambertiana* (White fir-sugar pine forest) Alliance | White fir-sugar pine forest | G4 S4 | 88.510.00 | |
| Sierran Mixed Coniferous Forest | | G4 S4 | | CTT84230CA |
| Sierran White Fir Forest | | G4 S4 | | CTT84240CA |
| *Abies concolor - Pinus lambertiana* | | | 88.510.01 | |
| *Abies concolor - Pinus lambertiana - Calocedrus decurrens - Quercus chrysolepis* | | | 88.510.09 | |
| *Abies concolor - Pinus lambertiana - Calocedrus decurrens / Adenocaulon bicolor* | | | 88.510.06 | |
| *Abies concolor - Pinus lambertiana - Calocedrus decurrens / Chrysolepis sempervirens* | | | 88.510.07 | |
| *Abies concolor - Pinus lambertiana - Calocedrus decurrens / Cornus nuttallii / Corylus cornuta* | | | 88.510.05 | |
| *Abies concolor - Pinus lambertiana - Calocedrus decurrens / Symphoricarpos mollis / Kelloggia galioides* | | | 88.510.08 | |
| *Abies concolor - Pinus lambertiana - Pinus jeffreyi* | | | 88.510.04 | |
| *Abies concolor - Pinus lambertiana - Pinus ponderosa / Lithocarpus densiflorus var. echinoides* | | | 88.510.17 | |
| *Abies concolor - Pinus lambertiana - Pseudotsuga menziesii / Carex rossii* | | | 88.510.14 | |
| *Abies concolor - Pinus lambertiana / Ceanothus cordulatus* | | | 88.510.13 | |
| *Abies concolor - Pinus lambertiana / Maianthemum racemosa - Prosartes hookeri* | | | 88.510.03 | |
| *Abies concolor - Pinus ponderosa / Lithocarpus densiflorus var. echinoides* | | | 88.510.16 | |
| *Pinus ponderosa - Pinus lambertiana / Lithocarpus densiflorus var. echinoides* | | | 88.510.15 | |
| *Abies magnifica - Abies concolor* (Red fir - white fir forest) Alliance | Red fir - white fir forest | G5 S4 | 88.520.00 | |
| *Abies magnifica - Abies concolor* | | | 88.520.01 | |
| *Abies magnifica - Abies concolor - Pinus jeffreyi* | | | 88.520.09 | |
| *Abies magnifica - Abies concolor / Acer glabrum* | | | 88.520.11 | |
| *Abies magnifica - Abies concolor / Achlys triphylla* | | | 88.520.08 | |
| *Abies magnifica - Abies concolor / Anemone deltoidea* | | | 88.520.16 | |
| *Abies magnifica - Abies concolor / Arctostaphylos nevadensis* | | | 88.520.07 | |
| *Abies magnifica - Abies concolor / Arctostaphylos nevadensis* | | | 88.520.12 | |
| *Abies magnifica - Abies concolor / Arnica cordifolia* | | | 88.520.03 | |
| *Abies magnifica - Abies concolor / Penstemon anguineus - Monardella odoratissima* | | | 88.520.13 | |
| *Abies magnifica - Abies concolor / Pinus lambertiana* | | | 88.520.10 | |
| *Abies magnifica - Abies concolor / Pteridium aquilinum* | | | 88.520.02 | |
| *Abies magnifica - Abies concolor / Pyrola picta* | | | 88.520.15 | |
| *Abies magnifica - Abies concolor / Quercus sadleriana* | | | 88.520.06 | |
| *Abies magnifica - Abies concolor / Quercus sadleriana* | | | 88.520.14 | |
| *Abies magnifica - Abies concolor / Symphoricarpos mollis - Rosa gymnocarpa* | | | 88.520.05 | |
| *Abies magnifica - Abies concolor / Symphoricarpos mollis / Pyrola picta* | | | 88.520.04 | |
| *Calocedrus decurrens* (Incense cedar forest) Alliance | Incense cedar forest | G4 S3 | *85.100.00 | |
| *Calocedrus decurrens - Abies concolor / Senecio triangularis* | | | *85.100.05 | |
| *Calocedrus decurrens - Alnus rhombifolia* | | | *85.100.03 | |
| *Calocedrus decurrens - Quercus chrysolepis - Quercus kelloggii* | | | *85.100.04 | |
| *Calocedrus decurrens / Listera convallarioides* | | | *85.100.01 | |
| *Picea breweriana* (Brewer spruce forest) Alliance | Brewer spruce forest | G3 S2 | *83.300.00 | |
| Siskiyou Enriched Coniferous Forest | | G1 S1.2 | | *CTT85410CA |
| Salmon Scott Enriched Coniferous Forest | | G1 S1.2 | | *CTT85420CA |
| *Pinus jeffreyi* (Jeffrey pine forest) Alliance | Jeffrey pine forest | 87.020.00 | Jeffrey pine forest | |
| Jeffrey Pine Forest | | G4 S4 | | CTT85100CA |
| Jeffrey Pine Fir Forest | | G4 S4 | | CTT85210CA |
| Northern Ultramafic Jeffrey Pine Forest | | G3 S3.2 | | *CTT84171CA |
| Southern Ultramafic Jeffrey Pine Forest | | G2 S2.1 | | *CTT84172CA |
| Southern Ultramafic Mixed ConiferousForest | | G2 S2.1 | | *CTT84182CA |
| *Pinus jeffreyi - Abies concolor - Abies magnifica* | | | 87.205.03 | |
| *Pinus jeffreyi - Abies concolor / Chrysolepis sempervirens* | | | 87.020.30 | |
| *Pinus jeffreyi - Abies concolor / Iris innominata* | | | 87.205.06 | |
| *Pinus jeffreyi - Abies concolor / Quercus sadleriana* | | | 87.205.05 | |
| *Pinus jeffreyi - Abies concolor / Symphoricarpos rotundifolius / Elymus elymoides* | | | 87.205.07 | |
| *Pinus jeffreyi - Abies magnifica* | | | 87.020.39 | |
| *Pinus jeffreyi - Calocedrus decurrens / Ceanothus cuneatus* | | | 87.020.04 | |
| *Pinus jeffreyi - Calocedrus decurrens / Ceanothus pumila* | | | 87.020.28 | |
| *Pinus jeffreyi - Calocedrus decurrens / Quercus vacciniifolia* | | | 87.020.37 | |
| *Pinus jeffreyi - Calocedrus decurrens / Quercus vacciniifolia / Xerophyllum tenax* | | | 87.020.05 | |
| *Pinus jeffreyi - Pinus monophylla* | | | 87.020.26 | |
| *Pinus jeffreyi - Pinus ponderosa - Quercus kelloggii / Poa wheeleri / granite* | | | 87.200.08 | |
| *Pinus jeffreyi - Pinus ponderosa / Amelanchier alnifolia - Mahonia repens* | | | 87.200.09 | |
| *Pinus jeffreyi - Pinus ponderosa / Purshia tridentata var. tridentata / Festuca idahoensis / Granite* | | | *87.200.03 | |

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| *Pinus jeffreyi - Pinus ponderosa / Symphoricarpos mollis / Wyethia mollis* | | | *87.200.07 | |
| *Pinus jeffreyi - Pseudotsuga menziesii / Quercus vacciniifolia / Festuca californica* | | | *87.020.02 | |
| *Pinus jeffreyi - Quercus chrysolepis / Arctostaphylos viscida* | | | 87.020.38 | |
| *Pinus jeffreyi - Quercus kelloggii* | | | 87.020.25 | |
| *Pinus jeffreyi - Quercus kelloggii / Poa secunda* | | | *87.020.15 | |
| *Pinus jeffreyi - Quercus kelloggii / Rhus trilobata* | | | *87.020.16 | |
| *Pinus jeffreyi / Arctostaphylos nevadensis* | | | 87.020.24 | |
| *Pinus jeffreyi / Arctostaphylos patula* | | | 87.020.09 | |
| *Pinus jeffreyi / Arctostaphylos patula - Ceanothus velutinus* | | | 87.020.35 | |
| *Pinus jeffreyi / Artemisia tridentata / Penstemon centranthifolius* | | | 87.020.32 | |
| *Pinus jeffreyi / Artemisia tridentata var. vaseyana / Festuca idahoensis* | | | *87.020.19 | |
| *Pinus jeffreyi / Calamagrostis koelerioides* | | | *87.020.23 | |
| *Pinus jeffreyi / Ceanothus cordulatus* | | | 87.020.10 | |
| *Pinus jeffreyi / Ceanothus cordulatus - Artemisia tridentata* | | | 87.020.36 | |
| *Pinus jeffreyi / Cercocarpus ledifolius* | | | *87.020.17 | |
| *Pinus jeffreyi / Chrysolepis sempervirens* | | | *87.020.20 | |
| *Pinus jeffreyi / Ericameria ophitidis* | | | *87.020.22 | |
| *Pinus jeffreyi / Festuca idahoensis* | | | *87.020.03 | |
| *Pinus jeffreyi / Lupinus caudatus* | | | 87.020.11 | |
| *Pinus jeffreyi / Purshia tridentata var. tridentata* | | | *87.020.21 | |
| *Pinus jeffreyi / Purshia tridentata var. tridentata - Symphoricarpos longiflorus / Poa wheeleri* | | | *87.020.14 | |
| *Pinus jeffreyi / Purshia tridentata var. tridentata / Cercocarpus ledifolius / Achnatherum occidentalis* | | | *87.020.13 | |
| *Pinus jeffreyi / Purshia tridentata var. tridentata / Wyethia mollis* | | | *87.020.12 | |
| *Pinus jeffreyi / Quercus palmeri* | | | 87.020.33 | |
| *Pinus jeffreyi / Quercus sadleriana / Xerophyllum tenax* | | | 87.020.01 | |
| *Pinus jeffreyi / Quercus vacciniifolia* | | | 87.020.08 | |
| *Pinus jeffreyi / Quercus vacciniifolia - Arctostaphylos nevadensis / Festuca idahoensis* | | | 87.020.27 | |
| *Pinus jeffreyi / Quercus wislizeni* | | | 87.020.34 | |
| *Pinus jeffreyi / Symphoricarpos longiflorus / Poa wheeleri* | | | *87.020.18 | |
| *Pinus lambertiana* (Sugar white pine forest) Alliance | Sugar white pine forest | G4 S3 | *87.206.00 | |
| *Pinus lambertiana - Chrysolepis chrysophylla / Quercus vacciniifolia - Quercus sadleriana* | | | *87.206.01 | |
| *Pinus lambertiana - Pinus contorta ssp contorta / Quercus vacciniifolia - Lithocarpus densiflorus var. echinoides* | | | *87.206.02 | |
| *Pinus lambertiana - Pinus contorta ssp. contorta / Lithocarpus densiflorus var. echinoides - Rhododendron macrophyllum* | | | *87.206.03 | |
| *Pinus lambertiana - Pinus monticola / Quercus vacciniifolia - Garrya buxifolia* | | | *87.206.04 | |
| *Pinus ponderosa* (Ponderosa pine forest) Alliance | Ponderosa pine forest | G5 S4 (some associations are of high priority for | 87.010.00 | |
| Upland Coast Range Ponderosa Pine Forest | | G3 S3.2 | | *CTT84131CA |
| Eastside Ponderosa Pine Forest | | G4 S2.1 | | *CTT84220CA |
| Ponderosa Dune Forest | | G1 S1.1 | | *CTT84221CA |
| Maritime Coast Range Ponderosa Pine Forest | | G1 S1.1 | | *CTT84132CA |
| *Pinus ponderosa - Abies concolor / Lithocarpus densiflorus var. echinoides* | | | 87.010.45 | |
| *Pinus ponderosa - Alnus rhombifolia* | | | 87.010.37 | |
| *Pinus ponderosa - Alnus rhombifolia* | | | 87.010.44 | |
| *Pinus ponderosa - Lithocarpus densiflorus* | | | 87.010.46 | |
| *Pinus ponderosa - Pinus contorta ssp. murrayana / Amelanchier alnifolia* | | | *87.010.23 | |
| *Pinus ponderosa - Pinus jeffreyi / Achnatherum occidentalis* | | | 87.010.54 | |
| *Pinus ponderosa - Pinus jeffreyi / Artemisia tridentata var. vaseyana - Purshia tridentata var. tridentata* | | | *87.010.25 | |
| *Pinus ponderosa - Pinus jeffreyi / Balsamorhiza sagittata* | | | 87.010.55 | |
| *Pinus ponderosa - Pinus jeffreyi / Cercocarpus ledifolius / Pseudoroegneria spicata* | | | 87.010.49 | |
| *Pinus ponderosa - Pinus jeffreyi / Frangula rubra / Poa secunda* | | | 87.010.51 | |
| *Pinus ponderosa - Pinus jeffreyi / Purshia tridentata var. tridentata / Senecio integerrimus / granite* | | | 87.010.50 | |
| *Pinus ponderosa - Pinus jeffreyi / Quercus vacciniifolia* | | | 87.010.53 | |
| *Pinus ponderosa - Pinus jeffreyi / Quercus vacciniifolia / Wyethia mollis* | | | 87.010.52 | |
| *Pinus ponderosa - Pinus lambertiana - Quercus chrysolepis / Lithocarpus densiflorus var. echinoides* | | | 87.010.48 | |
| *Pinus ponderosa - Pinus lambertiana / Arctostaphylos patula - Lithocarpus densiflorus var. echinoides* | | | 87.010.47 | |
| *Pinus ponderosa / Achnatherum nelsonii* | | | *87.010.18 | |
| *Pinus ponderosa / Amelanchier alnifolia - Mahonia repens / Arnica cordifolia* | | | *87.010.27 | |
| *Pinus ponderosa / Amelanchier alnifolia - Mahonia repens / Arnica cordifolia* | | | 87.010.42 | |
| *Pinus ponderosa / Amelanchier alnifolia - Prunus virginiana* | | | *87.010.26 | |
| *Pinus ponderosa / Arctostaphylos patula - Chamaebatia foliolosa* | | | *87.010.03 | |
| *Pinus ponderosa / Arctostaphylos viscida* | | | 87.010.39 | |
| *Pinus ponderosa / Artemisia tridentata* | | | *87.010.04 | |
| *Pinus ponderosa / Artemisia tridentata var. vaseyana / Festuca idahoensis* | | | *87.010.24 | |
| *Pinus ponderosa / Bromus carinatus* | | | *87.010.06 | |
| *Pinus ponderosa / Ceanothus cuneatus* | | | *87.010.09 | |
| *Pinus ponderosa / Ceanothus prostratus* | | | *87.010.08 | |
| *Pinus ponderosa / Ceanothus velutinus / Achnatherum nelsonii* | | | *87.010.28 | |
| *Pinus ponderosa / Cercocarpus ledifolius - Purshia tridentata var. tridentata / Festuca idahoensis* | | | *87.010.19 | |
| *Pinus ponderosa / Cercocarpus ledifolius / Pseudoroegneria spicata* | | | *87.010.20 | |
| *Pinus ponderosa / Chamaebatia foliolosa* | | | *87.010.02 | |
| *Pinus ponderosa / Galium angustifolium* | | | *87.010.07 | |

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| *Pinus ponderosa / Lithocarpus densiflorus var. echinoides* | | | 87.010.43 | |
| *Pinus ponderosa / Purshia tridentata var. tridentata* | | | *87.010.05 | |
| *Pinus ponderosa / Purshia tridentata var. tridentata - Arctostaphylos patula / Achnatherum nelsonii* | | | *87.010.13 | |
| *Pinus ponderosa / Purshia tridentata var. tridentata - Ceanothus velutinus* | | | *87.010.14 | |
| *Pinus ponderosa / Purshia tridentata var. tridentata - Prunus virginiana / Bromus orcuttianus* | | | 87.010.41 | |
| *Pinus ponderosa / Purshia tridentata var. tridentata - Ribes cereum / Bromus orcuttianus* | | | *87.010.16 | |
| *Pinus ponderosa / Purshia tridentata var. tridentata / Achnatherum nelsonii / pumice* | | | *87.010.12 | |
| *Pinus ponderosa / Purshia tridentata var. tridentata / Balsamorhiza sagittata* | | | *87.010.10 | |
| *Pinus ponderosa / Purshia tridentata var. tridentata / Galium bolanderi* | | | 87.010.40 | |
| *Pinus ponderosa / Purshia tridentata var. tridentata / Senecio integerrimus / granite* | | | *87.010.15 | |
| *Pinus ponderosa / Symphoricarpos longiflorus* | | | *87.010.29 | |
| *Pinus ponderosa stream terrace* | | | 87.010.38 | |
| *Pinus ponderosa - Calocedrus decurrens* (Mixed conifer forest) Alliance | Mixed conifer forest | G4 S4 | 87.015.00 | |
| *Pinus ponderosa - Calocedrus decurrens - Quercus kelloggii* | | | 87.015.02 | |
| *Pinus ponderosa - Calocedrus decurrens (mixed conifer) - Quercus chrysolepis / Chamaebatia foliosa* | | | 87.015.04 | |
| *Pinus ponderosa - Calocedrus decurrens (mixed conifer) / Arctostaphylos sp. - Chamaebatia foliolosa* | | | 87.015.08 | |
| *Pinus ponderosa - Calocedrus decurrens (mixed conifer) / Galium bolanderi - Polygala cornuta* | | | 87.015.01 | |
| *Pinus ponderosa - Calocedrus decurrens / Ceanothus prostratus* | | | 87.015.10 | |
| *Pinus ponderosa - Calocedrus decurrens / Chamaebatia foliolosa / Galium bolanderi* | | | 87.015.11 | |
| *Pinus ponderosa - Calocedrus decurrens / Chamaebatia foliosa* | | | 87.015.03 | |
| *Pinus ponderosa - Calocedrus decurrens / Mahonia nervosa* | | | 87.015.09 | |
| *Pinus ponderosa - Calocedrus decurrens / Purshia tridentata / Achnatherum occidentalis* | | | 87.015.14 | |
| *Pinus ponderosa - Calocedrus decurrens / Purshia tridentata var. tridentata / (Balsamorhiza sagittata - Achnatherum occidentalis)* | | | 87.015.13 | |
| *Pinus ponderosa - Calocedrus decurrens / Quercus chrysolepis var. nana - Quercus vacciniifolia* | | | 87.015.12 | |
| *Pinus ponderosa - Calocedrus decurrens / Quercus vaccinifolia (serpentine)* | | | 87.015.05 | |
| *Pinus washoensis* (Washoe pine woodland) Alliance | Washoe pine woodland | G2 S2 | *87.120.00 | |
| Washoe Pine Fir Forest | | G1 S1.2 | | *CTT85220CA |
| *Pinus washoensis / Lupinus caudatus* | | | *87.120.01 | |
| *Pinus washoensis / Symphoricarpos longiflorus / Pseudostellaria jamesiana* | | | *87.120.02 | |
| *Pseudotsuga macrocarpa* (Bigcone Douglas fir forest) Alliance | Bigcone Douglas fir forest | G3 S3 | *82.100.00 | |
| Bigcone Spruce Canyon Oak Forest | | G3 S3.2 | | *CTT84150CA |
| *Pseudotsuga macrocarpa - Quercus agrifolia* | | | *82.100.01 | |
| *Pseudotsuga macrocarpa - Quercus chrysolepis* | | | *82.100.02 | |
| *Sequoiadendron giganteum* (Giant sequoia forest) Alliance | Giant sequoia forest | G3 S3 | *86.200.00 | |
| Big Tree Forest | | G3 S3.2 | | *CTT84250CA |
| *Sequoiadendron giganteum - Pinus lambertiana / Cornus nuttallii* | | | *86.200.01 | |
| Southern California Subalpine Forest | | G3 S3.3 | | *CTT86500CA |
| *Abies lasiocarpa* (Subalpine fir forest) Alliance | Subalpine fir forest | G5 S2 | *88.400.00 | |
| *Abies lasiocarpa* | | | *88.400.01 | |
| *Picea engelmannii* (Engelmann spruce forest) Alliance | Engelmann spruce forest | G5 S2 | *83.100.00 | |
| *Populus tremuloides* (Aspen groves) Alliance | Aspen groves | G5 S3 | *61.111.00 | |
| Aspen Forest | | G5 S3.2 | | CTT81B00CA |
| Aspen Riparian Forest | | G4 S3.2 | | *CTT61520CA |
| *Populus tremuloides* | | | *61.111.02 | |
| *Populus tremuloides - Pinus contorta / Artemisia tridentata / Poa pratensis* | | | *61.111.11 | |
| *Populus tremuloides / Artemisia tridentata* | | | *61.111.06 | |
| *Populus tremuloides / Artemisia tridentata / Monardella odoratissima - Kelloggia galioides* | | | *61.111.07 | |
| *Populus tremuloides / Bromus carinatus* | | | *61.111.19 | |
| *Populus tremuloides / dry graminoid* | | | *61.111.18 | |
| *Populus tremuloides / mesic forb* | | | *61.111.17 | |
| *Populus tremuloides / Monardella odoratissima* | | | *61.111.08 | |
| *Populus tremuloides / Pinus jeffreyi* | | | *61.111.09 | |
| *Populus tremuloides / Poa pratensis* | | | *61.111.20 | |
| *Populus tremuloides / Prunus* | | | *61.111.14 | |
| *Populus tremuloides / Rosa woodsii* | | | *61.111.10 | |
| *Populus tremuloides / Symphoricarpos albus* | | | *61.111.15 | |
| *Populus tremuloides / Symphoricarpos rotundifolius* | | | *61.111.16 | |
| *Populus tremuloides / Symphyotricum foliaceum* | | | *61.111.05 | |
| *Populus tremuloides / upland* | | | *61.111.04 | |
| *Populus tremuloides / Veratrum californicum* | | | *61.111.03 | |
| *Pinus albicaulis* (Whitebark pine forest) Alliance | Whitebark pine forest | G5 S4 | 87.180.00 | |
| Whitebark Pine Forest | | G4 S4 | | CTT86600CA |
| *Pinus albicaulis - Tsuga mertensiana* | | | 87.180.07 | |
| *Pinus albicaulis / Achnatherum californica* | | | 87.180.01 | |
| *Pinus albicaulis / Arenaria aculeata* | | | 87.180.03 | |
| *Pinus albicaulis / Carex filifolia* | | | 87.180.08 | |
| *Pinus albicaulis / Carex rossii* | | | 87.180.09 | |
| *Pinus albicaulis / Holodiscus discolor* | | | 87.180.04 | |
| *Pinus albicaulis / Penstemon davidsonii* | | | 87.180.06 | |
| *Pinus albicaulis / Penstemon gracilentus* | | | 87.180.02 | |

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| *Pinus albicaulis / Poa wheeleri* | | | 87.180.05 | |
| *Pinus balfouriana* (Foxtail pine woodland) Alliance | Foxtail pine woodland | G3 S3 | *87.150.00 | |
| Foxtail Pine Forest | | G3 S3.3 | | *CTT86300CA |
| *Pinus balfouriana* | | | *87.150.01 | |
| *Pinus balfouriana - Abies magnifica* | | | *87.150.04 | |
| *Pinus balfouriana - Pinus albicaulis* | | | *87.150.05 | |
| *Pinus balfouriana - Pinus flexilis* | | | *87.150.07 | |
| *Pinus balfouriana - Pinus monticola* | | | *87.150.06 | |
| *Pinus balfouriana / Anemone drummondii* | | | *87.150.02 | |
| *Pinus balfouriana / Chrysolepis sempervirens* | | | *87.150.03 | |
| *Pinus flexilis* (Limber pine woodland) Alliance | Limber pine woodland | G5 S3 | *87.160.00 | |
| Limber Pine Forest | | G4 S2.3 | | CTT86700CA |
| *Pinus flexilis - Pinus contorta / Chrysolepis sempervirens* | | | *87.160.02 | |
| *Pinus flexilis - Pinus contorta ssp. murryana* | | | *87.160.03 | |
| *Pinus flexilis / Cercocarpus ledifolius* | | | *87.160.01 | |
| *Pinus longaeva* (Bristlecone pine woodland) Alliance | Bristlecone pine woodland | G4 S2 | *87.140.00 | |
| Bristlecone Pine Forest | | G4 S2.3 | | *CTT86400CA |
| *Pinus longaeva* | | | *87.140.01 | |
| *Pinus longaeva / Cercocarpus intricatus* | | | *87.140.02 | |
| *Abies grandis* (Grand fir forest) Alliance | Grand fir forest | G4 S2 | *88.100.00 | |
| Grand Fir Forest | | G1 S1.1 | | *CTT82120CA |
| *Chamaecyparis lawsoniana* (Port Orford cedar forest) Alliance | Port Orford cedar forest | G3 S3 | *81.100.00 | |
| Port Orford Cedar Forest | | G3 S2.1 | | *CTT82500CA |
| *Chamaecyparis lawsoniana - Abies concolor / Acer circinatum* | | | *81.100.31 | |
| *Chamaecyparis lawsoniana - Abies concolor / Alnus viridis* | | | *81.100.30 | |
| *Chamaecyparis lawsoniana - Abies concolor / Chrysolepis sempervirens (-Rhododendron occidentale - Leucothoe davisiae)* | | | *81.100.14 | |
| *Chamaecyparis lawsoniana - Abies concolor / herb* | | | *81.100.08 | |
| *Chamaecyparis lawsoniana - Abies concolor / Quercus sadleriana* | | | *81.100.07 | |
| *Chamaecyparis lawsoniana - Abies concolor / Quercus vacciniifolia* | | | *81.100.09 | |
| *Chamaecyparis lawsoniana - Abies concolor / Rhododendron occidentale* | | | *81.100.06 | |
| *Chamaecyparis lawsoniana - Abies x shastensis - Picea breweri / Quercus sadleriana - Quercus vacciniifolia* | | | *81.100.32 | |
| *Chamaecyparis lawsoniana - Abies x shastensis / Alnus viridis - Quercus sadleriana* | | | *81.100.33 | |
| *Chamaecyparis lawsoniana - Abies x shastensis / Alnus viridis / Darlingtonia californica* | | | *81.100.34 | |
| *Chamaecyparis lawsoniana - Abies x shastensis / Quercus sadleriana - Vaccinium membranaceum* | | | *81.100.03 | |
| *Chamaecyparis lawsoniana - Calocedrus decurrens - Alnus rhombifolia* | | | *81.100.39 | |
| *Chamaecyparis lawsoniana - Calocedrus decurrens / Quercus vacciniifolia* | | | *81.100.40 | |
| *Chamaecyparis lawsoniana - Pinus monticola / Alnus viridis* | | | *81.100.16 | |
| *Chamaecyparis lawsoniana - Pinus monticola / dry herb complex* | | | *81.100.19 | |
| *Chamaecyparis lawsoniana - Pinus monticola / Quercus vacciniifolia* | | | *81.100.10 | |
| *Chamaecyparis lawsoniana - Pinus monticola / Rhododendron neoglandulosum / Darlingtonia californica* | | | *81.100.15 | |
| *Chamaecyparis lawsoniana - Pinus monticola / Rhododendron neoglandulosum / Darlingtonia californica* | | | *81.100.38 | |
| *Chamaecyparis lawsoniana - Pinus monticola / Rhododendron occidentale - Lithocarpus densiflorus var. echinoides - Rhododendron neoglandulosum* | | | *81.100.37 | |
| *Chamaecyparis lawsoniana - Pinus monticola / Vaccinium membranaceum* | | | *81.100.17 | |
| *Chamaecyparis lawsoniana - Pinus monticola / wet herb complex* | | | *81.100.18 | |
| *Chamaecyparis lawsoniana - Pseudotsuga menziesii - Lithocarpus densiflorus / Quercus vacciniifolia* | | | *81.100.25 | |
| *Chamaecyparis lawsoniana - Pseudotsuga menziesii - Lithocarpus densiflorus / Rhododendron macrophyllum* | | | *81.100.26 | |
| *Chamaecyparis lawsoniana - Pseudotsuga menziesii / Calycanthus occidentalis* | | | *81.100.22 | |
| *Chamaecyparis lawsoniana - Pseudotsuga menziesii / Corylus cornuta* | | | *81.100.35 | |
| *Chamaecyparis lawsoniana - Pseudotsuga menziesii / Quercus vacciniifolia* | | | *81.100.02 | |
| *Chamaecyparis lawsoniana - Tsuga heterophylla / Chrysolepis sempervirens* | | | *81.100.20 | |
| *Chamaecyparis lawsoniana - Tsuga heterophylla / Leucothoe davisiae* | | | *81.100.24 | |
| *Chamaecyparis lawsoniana - Tsuga heterophylla / Rhododendron neoglandulosum* | | | *81.100.21 | |
| *Chamaecyparis lawsoniana / Gaultheria shallon* | | | *81.100.05 | |
| *Chamaecyparis lawsoniana / Quercus vacciniifolia - Rhododendron occidentale* | | | *81.100.12 | |
| *Chamaecyparis lawsoniana / Rhododendron macrophyllum - Gaultheria shallon* | | | *81.100.04 | |
| *Chamaecyparis lawsoniana / Rhododendron occidentale* | | | *81.100.01 | |
| *Chamaecyparis lawsoniana / Rhododendron occidentale - Lithocarpus densiflorus var. echinoides* | | | *81.100.11 | |
| *Picea sitchensis* (Sitka spruce forest) Alliance | Sitka spruce forest | G5 S2 | *83.200.00 | |
| Sitka Spruce Forest | | G1 S1.1 | | *CTT82110CA |
| Sitka Spruce Grand Fir Forest | | G4 S1.1 | | CTT82100CA |
| *Picea sitchensis - Tsuga heterophylla* | | | *83.200.04 | |
| *Picea sitchensis / Maianthemum dilatatum* | | | *83.200.01 | |
| *Picea sitchensis / Polystichum munitum* | | | *83.200.03 | |
| *Picea sitchensis / Rubus spectabilis* | | | *83.200.02 | |
| *Pinus contorta var. contorta* (Beach pine forest) Alliance | Beach pine forest | G5 S3 | *87.060.00 | |
| Beach Pine Forest | | G4 S2.1 | | *CTT83110CA |
| *Pinus contorta var. contorta* | | | *87.060.01 | |
| *Pinus contorta ssp. contorta - Picea sitchensis* | | | *87.060.02 | |
| *Sequoia sempervirens* (Redwood forest) Alliance | Redwood forest | G3 S3 | *86.100.00 | |
| Upland Redwood Forest | | G3 S2.3 | | *CTT82320CA |

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| *Sequoia sempervirens* | | | *86.100.04 | |
| *Sequoia sempervirens - Acer macrophyllum - Umbellularia californica* | | | *86.100.14 | |
| *Sequoia sempervirens - Acer macrophyllum / Polypodium californicum* | | | *86.100.01 | |
| *Sequoia sempervirens - Alnus rubra / Rubus spectabilis* | | | *86.100.29 | |
| North Coast Alluvial Redwood Forest | | G2 S2.2 | | *CTT61120CA |
| *Sequoia sempervirens - Arbutus menziesii / Vaccinium ovatum* | | | *86.100.15 | |
| *Sequoia sempervirens - Chrysolepis chrysophylla / Arctostaphylos glandulosa* | | | *86.100.18 | |
| *Sequoia sempervirens - Lithocarpus densiflorus / Carex globosa - Iris douglasiana* | | | *86.100.06 | |
| *Sequoia sempervirens - Lithocarpus densiflorus / Vaccinium ovatum* | | | *86.100.16 | |
| *Sequoia sempervirens - Pseudotsuga menziesii - Lithocarpus densiflorus - Chamaecyparis lawsoniana / Vaccinium ovatum* | | | *86.100.23 | |
| *Sequoia sempervirens - Pseudotsuga menziesii - Umbellularia californica* | | | *86.100.20 | |
| *Sequoia sempervirens - Pseudotsuga menziesii / Arbutus menziesii* | | | *86.100.10 | |
| *Sequoia sempervirens - Pseudotsuga menziesii / Gaultheria shallon* | | | *86.100.11 | |
| *Sequoia sempervirens - Pseudotsuga menziesii / Rhododendron macrophyllum* | | | *86.100.26 | |
| *Sequoia sempervirens - Pseudotsuga menziesii / Vaccinium ovatum* | | | *86.100.12 | |
| *Sequoia sempervirens - Tsuga heterophylla / Polystichum munitum* | | | *86.100.28 | |
| *Sequoia sempervirens - Tsuga heterophylla / Rubus spectabilis* | | | *86.100.30 | |
| *Sequoia sempervirens - Tsuga heterophylla / Vaccinium ovatum* | | | *86.100.27 | |
| *Sequoia sempervirens - Umbellularia californica* | | | *86.100.21 | |
| *Sequoia sempervirens / (Pteridium aquilinum) - Woodwardia fimbriata* | | | *86.100.02 | |
| *Sequoia sempervirens / Arbutus menziesii* | | | *86.100.09 | |
| *Sequoia sempervirens / Blechnum spicant* | | | *86.100.07 | |
| *Sequoia sempervirens / Mahonia nervosa* | | | *86.100.08 | |
| *Sequoia sempervirens / Marah fabaceus - Vicia angustifolia* | | | *86.100.05 | |
| *Sequoia sempervirens / Oxalis oregana* | | | *86.100.13 | |
| *Sequoia sempervirens / Polystichum munitum* | | | *86.100.25 | |
| *Sequoia sempervirens / Pteridium aquilinum* | | | *86.100.24 | |
| *Sequoia sempervirens / Pteridium aquilinum - Trillium ovatum* | | | *86.100.03 | |
| *Tsuga heterophylla* (Western hemlock forest) Alliance | Western hemlock forest | G5 S2 | *84.200.00 | |
| Western Hemlock Forest | | G4 S1.1 | | CTT82200CA |
| *Tsuga heterophylla - Pseudotsuga menziesii - Chamaecyparis lawsoniana* | | | *84.200.01 | |
| Coastal Douglas Fir Western Hemlock Forest | | G4 S2.1 | | CTT82410CA |
| *Abies amabilis* (Pacific silver fir forest) Alliance | Pacific silver fir forest | G5 S1 | *88.800.00 | |
| *Abies amabilis* | | | *88.800.01 | |
| *Abies magnifica* (Red fir forest) Alliance | Red fir forest | G5 S4 (some associations are of high priority for | 88.200.00 | |
| Red Fir Forest | | G4 S4 | | CTT85310CA |
| *Abies magnifica* | | | 88.200.23 | |
| *Abies magnifica - Pinus monticola* | | | 88.200.30 | |
| *Abies magnifica - Tsuga mertensiana / Orthilia secunda* | | | 88.200.15 | |
| *Abies magnifica - Picea breweriana / Quercus sadleriana - Vaccinium membranaceum* | | | 88.200.14 | |
| *Abies magnifica - Pinus contorta / Sphenosciadium capitellatum* | | | 88.200.16 | |
| *Abies magnifica - Pinus contorta ssp. murrayana / Hieracium albiflorum* | | | 88.200.24 | |
| *Abies magnifica - Pinus monticola - Pinus contorta ssp. murrayana* | | | 88.200.29 | |
| *Abies magnifica - Pinus monticola / Quercus vacciniifolia* | | | 88.200.43 | |
| *Abies magnifica - (Calocedrus decurrens)* | | | *88.200.10 | |
| *Abies magnifica / Achlys triphylla* | | | 88.200.03 | |
| *Abies magnifica / Arctostaphylos nevadensis* | | | 88.200.27 | |
| *Abies magnifica / Chimaphila umbellata* | | | 88.200.05 | |
| *Abies magnifica / Leucothoe davisiae* | | | 88.200.35 | |
| *Abies magnifica / Linnaea borealis* | | | 88.200.37 | |
| *Abies magnifica / Lupinus albifrons* | | | 88.200.41 | |
| *Abies magnifica / Orthilia secunda* | | | 88.200.11 | |
| *Abies magnifica / Penstemon gracilentus* | | | 88.200.06 | |
| *Abies magnifica / Pinus contorta ssp. murrayana* | | | 88.200.25 | |
| *Abies magnifica / Pinus monticola / Arctostaphylos nevadensis* | | | 88.200.28 | |
| *Abies magnifica / Pinus monticola / Chrysolepis sempervirens* | | | 88.200.31 | |
| *Abies magnifica / Pyrola picta* | | | 88.200.13 | |
| *Abies magnifica / Quercus sadleriana* | | | 88.200.01 | |
| *Abies magnifica / Quercus sadleriana - Arctostaphylos nevadensis* | | | 88.200.09 | |
| *Abies magnifica / Quercus vacciniifolia* | | | 88.200.36 | |
| *Abies magnifica / Rhododendron macrophyllum* | | | *88.200.12 | |
| *Abies magnifica / Vaccinium membranaceum* | | | *88.200.02 | |
| *Abies magnifica / Wyethia mollis* | | | 88.200.26 | |
| *Callitropsis nootkatensis* (Alaska yellow-cedar stands) Alliance | Alaska yellow-cedar stands | G4 S1 | *81.200.00 | |
| *Pinus contorta ssp. Murrayana* (Lodgepole pine forest) Alliance | Lodgepole pine forest | G4 S4 | 87.080.00 | |
| Lodgepole Pine Forest | | G4 S4 | | CTT86100CA |
| *Pinus contorta ssp. murrayana* | | | 87.080.01 | |
| *Pinus contorta ssp. murrayana - Pinus albicaulis / Carex filifolia* | | | 87.080.17 | |
| Whitebark Pine Lodgepole Pine Forest | | G4 S4 | | CTT86220CA |
| *Pinus contorta ssp. murrayana - Pinus albicaulis / Carex rossii* | | | 87.080.11 | |

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| *Pinus contorta ssp. murrayana / Artemisia tridentata* | | | 87.080.02 | |
| *Pinus contorta ssp. murrayana / Carex filifolia* | | | 87.080.10 | |
| *Pinus contorta ssp. murrayana / Carex rossii* | | | 87.080.06 | |
| *Pinus contorta ssp. murrayana / Carex spp.* | | | 87.080.13 | |
| *Pinus contorta ssp. Murrayana / Cistanthe umbellata* | | | 87.080.05 | |
| *Pinus contorta ssp. murrayana / Ligusticum grayi* | | | 87.080.03 | |
| *Pinus contorta ssp. murrayana / Penstemon newberryi* | | | 87.080.12 | |
| *Pinus contorta ssp. murrayana / Rhododendron neoglandulosum* | | | 87.080.08 | |
| *Pinus contorta ssp. murrayana / Rhododendron neoglandulosum - Phyllodoce breweri* | | | 87.080.14 | |
| *Pinus contorta ssp. murrayana / Thalictrum fendleri* | | | 87.080.07 | |
| *Pinus contorta ssp. murrayana / Vaccinium caespitosum* | | | 87.080.15 | |
| *Pinus contorta ssp. murrayana / Vaccinium uliginosum* | | | 87.080.09 | |
| *Pinus contorta ssp. murrayana / Vaccinium uliginosum - Rhododendron neoglandulosum* | | | 87.080.16 | |
| *Pinus monticola* (Western white pine forest) Alliance | Western white pine forest | G5 S4 (some associations are of high priority for | 87.170.00 | |
| *Pinus monticola - Pinus contorta ssp. contorta / Lithocarpus densiflorus var. echinoides* | | | *87.170.01 | |
| *Pinus monticola - Pinus contorta var. ssp. Murrayana* | | | 87.170.07 | |
| *Pinus monticola - Pseudotsuga menziesii / Quercus vacciniifolia - Lithocarpus densiflorus var. echinoides* | | | 87.170.08 | |
| *Pinus monticola / Achnatherum occidentalis* | | | 87.170.06 | |
| *Pinus monticola / Angelica arguta* | | | *87.170.04 | |
| *Pinus monticola / Holodiscus discolor* | | | *87.170.02 | |
| *Pinus monticola / Xerophyllum tenax* | | | *87.170.03 | |
| Ultramafic White Pine Forest | | G3 S3.2 | | *CTT84160CA |
| *Tsuga mertensiana* (Mountain hemlock forest) Alliance | Mountain hemlock forest | G5 S4 | 84.100.00 | |
| *Tsuga mertensiana* | | | 84.100.04 | |
| *Tsuga mertensiana - Pinus contorta ssp. murrayana* | | | 84.100.15 | |
| *Tsuga mertensiana - Pinus contorta var. murrayana - Pinus monticola* | | | 84.100.11 | |
| *Tsuga mertensiana - Pinus monticola* | | | 84.100.10 | |
| *Tsuga mertensiana / Arnica cordifolia* | | | 84.100.09 | |
| *Tsuga mertensiana / Juncus parryi* | | | 84.100.02 | |
| *Tsuga mertensiana / Phyllodoce empetriformis* | | | 84.100.01 | |
| *Tsuga mertensiana / Pyrola picta* | | | 84.100.08 | |
| *Tsuga mertensiana / Quercus sadleriana* | | | 84.100.03 | |
| *Tsuga mertensiana / Quercus vacciniifolia* | | | 84.100.07 | |
| *Tsuga mertensiana / steep* | | | 84.100.14 | |
| Great Basin Woodlands | | G4 S4 | | CTT72100CA |
| *Juniperus grandis* (Mountain juniper woodland) Alliance | Mountain juniper woodland | G4 S4 | 89.200.00 | |
| *Juniperus grandis* | | | 89.200.01 | |
| *Juniperus grandis - Cercocarpus ledifolius / Artemisia tridentata* | | | 89.200.03 | |
| *Juniperus grandis / Arctostaphylos nevadensis* | | | 89.200.05 | |
| *Juniperus grandis / Artemisia tridentata* | | | 89.200.02 | |
| *Juniperus grandis / Holodiscus discolor* | | | 89.200.04 | |
| *Juniperus osteosperma* (Utah juniper woodland) Alliance | Utah juniper woodland | G5 S3 | *89.300.00 | |
| Great Basin Juniper Woodland and Scrub | | G4 S4 | | CTT72123CA |
| Mojavean Juniper Woodland and Scrub | | G4 S4 | | CTT72220CA |
| *Juniperus osteosperma* | | | *89.300.01 | |
| *Juniperus osteosperma / Ambrosia dumosa* | | | *89.300.07 | |
| *Juniperus osteosperma / Artemisia tridentata - Ephedra viridis* | | | *89.300.02 | |
| *Juniperus osteosperma / Artemisia tridentata - Purshia glandulosa - Ephedra nevadensis* | | | *89.300.03 | |
| *Juniperus osteosperma / Atriplex confertifolia - (Tetradymia axillaris)* | | | *89.300.06 | |
| *Juniperus osteosperma / Coleogyne ramosissima / (Achnatherum speciosum)* | | | *89.300.08 | |
| *Juniperus osteosperma / Coleogyne ramosissima / Pleuraphis jamesii* | | | *89.300.09 | |
| *Juniperus osteosperma / Ephedra nevadensis / Achnatherium speciosum* | | | *89.300.11 | |
| *Juniperus osteosperma / Eriogonum fasciculatum* | | | *89.300.04 | |
| *Juniperus osteosperma / Gutierrezia microcephala* | | | *89.300.05 | |
| *Juniperus osteosperma / Yucca baccata* | | | *89.300.10 | |
| *Pinus edulis* (Two-needle pinyon stands) Special Stands | Two-needle pinyon stands | G4 S2? | *87.050.00 | |
| *Pinus monophylla* (Singleleaf pinyon woodlands) Alliance | Singleleaf pinyon woodlands | G5 S4 | 87.040.00 | |
| Mojavean Pinon Woodland | | G4 S3.2 | | CTT72210CA |
| Peninsular Pinon Woodland | | G3 S3.2 | | *CTT72310CA |
| Great Basin Pinon Juniper Woodland | | G4 S4 | | CTT72121CA |
| Great Basin Pinon Woodland | | G3 S3.2 | | *CTT72122CA |
| *Pinus monophylla - Juniperus californica / Achnatherum speciosum* | | | 87.040.14 | |
| *Pinus monophylla - Juniperus californica / Quercus cornelius-mulleri* | | | 87.040.18 | |
| *Pinus monophylla - Juniperus osteosperma / Artemisia tridentata* | | | 87.040.16 | |
| *Pinus monophylla - Juniperus osteosperma / Cercocarpus intricatus* | | | 87.040.17 | |
| *Pinus monophylla / Artemisia tridentata* | | | 87.040.02 | |
| *Pinus monophylla / Artemisia tridentata / Elymus elymoides* | | | 87.040.15 | |
| *Pinus monophylla / Cercocarpus ledifolius / Artemisia tridentata - Purshia tridentata* | | | 87.040.12 | |
| *Pinus monophylla / Ephedra viridis* | | | 87.040.03 | |
| *Pinus monophylla / Garrya flavescens* | | | 87.040.05 | |

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| *Pinus monophylla / Juniperus californica / Artemisia tridentata - Coleogyne ramosissima* | | | 87.040.06 | |
| *Pinus monophylla / Juniperus osteosperma / Artemisia nova* | | | 87.040.07 | |
| *Pinus monophylla / Juniperus osteosperma / Purshia mexicana* | | | 87.040.13 | |
| *Pinus monophylla / Prunus fasciculata - Rhus trilobata* | | | 87.040.10 | |
| *Pinus monophylla / Quercus cornelius - mulleri / Nama californica* | | | 87.040.09 | |
| *Pinus monophylla / Ribes velutinum* | | | 87.040.11 | |
| *Pinus monophylla / Symphoricarpos rotundifolia - Ribes velutinum* | | | 87.040.04 | |
| *Juniperus occidentalis* (Western juniper woodland) Alliance | Western juniper woodland | G5 S4 | 89.400.00 | |
| Northern Juniper Woodland | | G4 S4 | | CTT72110CA |
| *Pinus monophylla / Symphoricarpos rotundifolia - Ribes velutinum* | | | 87.040.04 | |
| *Juniperus occidentalis* | | | 89.400.02 | |
| *Juniperus occidentalis - Pinus jeffreyi / (Purshia tridentata) - (Prunus virginiana)* | | | 89.400.03 | |
| *Juniperus occidentalis / Artemisia arbuscula* | | | 89.400.04 | |
| *Eucalyptus (globulus, camaldulensis)* (Eucalyptus groves) Semi-natural Stands | Eucalyptus groves | | 79.100.00 | |
| *Schinus (molle, terebinthifolius) - Myoporum laetum* (Pepper tree or Myoporum groves) Semi-natural Stands | Pepper tree or Myoporum groves | | 79.200.00 | |
| *Myoporum laetum / Arundo donax* | | | 79.200.01 | |
| *Schinus molle* | | | 79.200.02 | |
| *Schinus molle / Lepidospartum squamatum* | | | 79.200.03 | |
| Freshwater Swamp | | G2 S2.2 | | *CTT52600CA |
| *Cornus sericea* (Red osier thickets) Alliance | Red osier thickets | G4 S3? | *80.100.00 | |
| *Cornus sericea* | | | *80.100.02 | |
| *Cornus sericea - Salix exigua* | | | *80.100.03 | |
| *Cornus sericea - Salix lasiolepis* | | | *80.100.04 | |
| *Cornus sericea / Senecio triangularis* | | | *80.100.01 | |
| Montane Riparian Scrub | | G4 S4 | | CTT63500CA |
| Modoc Great Basin Riparian Scrub | | G3 S2.1 | | *CTT63600CA |
| *Betula occidentalis* (Water birch thicket) Alliance | Water birch thicket | G4 S2 | *63.610.00 | |
| Water Birch Riparian Scrub | | G? SNR | | CTT63510CA |
| *Betula occidentalis / Salix spp.* | | | *63.610.01 | |
| *Rosa woodsii* (Interior rose thickets) Provisional Alliance | Interior rose thickets | G5 S3 | *63.320.00 | |
| *Salix lutea* (Yellow willow thickets) Alliance | Yellow willow thickets | G4 S3? | *61.210.00 | |
| *Salix lutea / mesic forbs* | | | *61.210.01 | |
| *Salix lutea / mesic graminoids* | | | *61.210.02 | |
| *Salix lutea / Poa pratensis* | | | *61.210.03 | |
| *Salix lutea/ Rosa woodsii* | | | *61.210.04 | |
| *Acer glabrum* (Rocky Mountain maple thickets) Provisional Alliance | Rocky Mountain maple thickets | G5 S3? | *61.430.00 | |
| *Alnus incana* (Mountain alder thicket) Alliance | Mountain alder thicket | G4 S3 | *63.210.00 | |
| *Alnus incana* | | | *63.210.01 | |
| *Alnus incana / Glyceria elata* | | | *63.210.02 | |
| *Alnus incana / bench* | | | *63.210.03 | |
| *Alnus viridis* (Sitka alder thickets) Provisional Alliance | Sitka alder thickets | G5 S3? | *63.220.00 | |
| *Betula glandulosa* (Resin birch thickets) Provisional Alliance | Resin birch thickets | G5 S2? | *63.620.00 | |
| *Dasiphora fruticosa* (Shrubby cinquefoil scrub) Alliance | Shrubby cinquefoil scrub | G5 S3? | *38.110.00 | |
| *Dasiphora fruticosa* | | | *38.110.01 | |
| *Dasiphora fruticosa / Danthonia intermedia* | | | *38.110.02 | |
| *Dasiphora fruticosa / Danthonia unispicata* | | | *38.110.04 | |
| *Dasiphora fruticosa / Potentilla breweri* | | | *38.110.03 | |
| *Dasiphora fruticosa / Veratrum californicum* | | | *38.110.05 | |
| *Salix bebbiana* (Bebb's willow thickets) Alliance | Bebb's willow thickets | G4 S2? | *61.213.00 | |
| *Salix bebbiana / mesic forb type* | | | *61.213.01 | |
| *Salix eastwoodiae* (Sierran willow thickets) Alliance | Sierran willow thickets | G3 S3 | *61.112.00 | |
| *Salix eastwoodiae* | | | *61.112.01 | |
| *Salix eastwoodiae / Carex scopulorum* | | | *61.112.02 | |
| *Salix eastwoodiae / Oreostemma alpigenum* | | | *61.112.03 | |
| *Salix eastwoodiae / Senecio triangularis* | | | *63.160.02 | |
| *Salix geyeriana* (Geyer willow thickets) Alliance | Geyer willow thickets | G4 S2? | *61.212.00 | |
| *Salix geyeriana / grass* | | | *61.212.01 | |
| *Salix geyeriana / mesic graminoid* | | | *61.212.02 | |
| *Salix jepsonii* (Jepson willow thickets) Alliance | Jepson willow thickets | G3 S3 | *61.118.00 | |
| *Salix jepsonii* | | | *61.118.01 | |
| *Salix jepsonii - Cornus sericea* | | | *61.118.04 | |
| *Salix jepsonii - Paxistima myrsinites* | | | *61.118.03 | |
| *Salix jepsonii / Senecio triangularis* | | | *61.118.02 | |
| *Salix lemmonii* (Lemmon's willow thickets) Alliance | Lemmon's willow thickets | G4 S3 | *61.113.00 | |
| *Salix lemmonii* | | | *61.113.01 | |
| *Salix lemmonii / Carex spp.* | | | *61.113.02 | |
| *Salix lemmonii / mesic forb* | | | *61.113.04 | |
| *Salix lemmonii / mesic graminoid* | | | *61.113.03 | |
| *Salix lucida ssp. lasiandra / Urtica urens - Urtica dioica* | | | *61.204.01 | |
| *Salix orestera* (Sierra gray willow thickets) Alliance | Sierra gray willow thickets | G4 S4 (some associations are of high priority for | 61.115.00 | |

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| *Salix orestera / Allium validum* | | | *63.160.03 | |
| *Salix orestera / Calamagrostis muiriana* | | | 61.115.01 | |
| *Salix orestera / Senecio triangularis* | | | 61.115.02 | |
| *Salix orestera / tall forb* | | | 61.115.03 | |
| *Salix planifolia* (Tea-leaved willow thickets) Provisional Alliance | Tea-leaved willow thickets | G4 S2? | *61.119.00 | |
| *Salix planifolia* | | | *61.119.01 | |
| North Coast Riparian Scrub | | G3 S3.2 | | *CTT63100CA |
| *Morella californica* (Wax myrtle scrub) Alliance | Wax myrtle scrub | G3 S3 | *37.930.00 | |
| *Morella californica* | | | *37.930.01 | |
| *Salix hookeriana* (Coastal dune willow thickets) Alliance | Coastal dune willow thickets | G4 S3 | *61.203.00 | |
| *Salix hookeriana* | | | *61.203.01 | |
| *Salix hookeriana / Rubus ursinus* | | | *61.203.02 | |
| *Salix sitchensis* (Sitka willow thickets) Provisional Alliance | Sitka willow thickets | G4 S3? | *61.206.00 | |
| *Alnus rhombifolia* (White alder groves) Alliance | White alder groves | G4 S4 (some associations are of high priority for | 61.420.00 | |
| White Alder Riparian Forest | | G4 S4 | | *CTT61510CA |
| *Alnus rhombifolia* | | | 61.420.10 | |
| *Alnus rhombifolia - Acer macrophyllum* | | | 61.420.03 | |
| *Alnus rhombifolia - Fraxinus latifolia* | | | 61.420.28 | |
| *Alnus rhombifolia - Platanus racemosa* | | | 61.420.11 | |
| Southern Sycamore Alder Riparian Woodland | | G4 S4 | | *CTT62400CA |
| *Alnus rhombifolia - Platanus racemosa - Quercus chrysolepis* | | | 61.420.12 | |
| *Alnus rhombifolia - Platanus racemosa - Salix laevigata* | | | 61.420.15 | |
| *Alnus rhombifolia - Pseudotsuga menziesii* | | | 61.420.29 | |
| *Alnus rhombifolia - Pseudotsuga menziesii - Calocedrus decurrens* | | | 61.420.31 | |
| *Alnus rhombifolia - Pseudotsuga menziesii / Darmera peltata* | | | 61.420.30 | |
| *Alnus rhombifolia - Pseudotsuga menziesii / Rubus armeniacus* | | | 61.420.04 | |
| *Alnus rhombifolia - Quercus chrysolepis* | | | 61.420.22 | |
| *Alnus rhombifolia - Salix laevigata* | | | 61.420.13 | |
| *Alnus rhombifolia / Aruncus dioicus* | | | 61.420.02 | |
| *Alnus rhombifolia / Baccharis salicifolia* | | | 61.420.09 | |
| *Alnus rhombifolia / Carex nudata* | | | 61.420.24 | |
| *Alnus rhombifolia / Carex spp* | | | 61.420.23 | |
| *Alnus rhombifolia / Cornus sericea* | | | 61.420.07 | |
| *Alnus rhombifolia / Cornus sessilis* | | | 61.420.06 | |
| *Alnus rhombifolia / Darmera peltata* | | | 61.420.05 | |
| *Alnus rhombifolia / Galium trifolium* | | | 61.420.08 | |
| *Alnus rhombifolia / Galium trifolium - Stachys ajugoides* | | | 61.420.26 | |
| *Alnus rhombifolia / Leucothoe davisiae* | | | 61.420.21 | |
| *Alnus rhombifolia / Polypodium californicum* | | | *61.420.01 | |
| *Alnus rhombifolia / Pteridium aquilinum* | | | 61.420.27 | |
| *Alnus rhombifolia / Rhododendron occidentale* | | | 61.420.17 | |
| *Alnus rhombifolia / Salix exigua - (Rosa californica)* | | | 61.420.18 | |
| *Fraxinus latifolia* (Oregon ash groves) Alliance | Oregon ash groves | G4 S3 | *61.960.00 | |
| *Fraxinus latifolia* | | | *61.960.04 | |
| *Fraxinus latifolia - Alnus rhombifolia* | | | *61.960.02 | |
| *Fraxinus latifolia / Cornus sericea* | | | *61.960.03 | |
| *Fraxinus latifolia / Toxicodendron diversilobum* | | | *61.960.01 | |
| *Populus trichocarpa* (Black cottonwood forest) Alliance | Black cottonwood forest | G5 S3 | *61.120.00 | |
| Montane Black Cottonwood Riparian Forest | | G4 S3.2 | | *CTT61530CA |
| North Coast Black Cottonwood Riparian Forest | | G1 S1.1 | | *CTT61110CA |
| *Populus trichocarpa* | | | *61.120.01 | |
| *Populus trichocarpa - Pinus jeffreyi* | | | *61.120.03 | |
| *Populus trichocarpa - Quercus agrifolia* | | | *61.120.08 | |
| *Populus trichocarpa - Salix laevigata* | | | *61.120.09 | |
| *Populus trichocarpa - Salix lasiolepis* | | | *61.120.10 | |
| *Populus trichocarpa - Salix lucida* | | | *61.120.11 | |
| *Populus trichocarpa / Artemisia tridentata ssp. vaseyana* | | | *61.120.04 | |
| *Populus trichocarpa / Rhododendron occidentalis* | | | *61.120.07 | |
| *Populus trichocarpa / Symphoricarpos rotundifolius* | | | *61.120.05 | |
| *Populus / Salix* | | | *61.120.06 | |
| *Salix lucida* (Shining willow groves) Alliance | Shining willow groves | G4 S3 | *61.204.00 | |
| *Salix lucida / Poa pratensis* | | | *61.204.02 | |
| *Salix lucida ssp. lasiandra* | | | *61.204.03 | |
| *Salix lucida ssp. lasiandra / Cornus sericea* | | | *61.204.04 | |
| *Salix lucida ssp. lasiandra / Equisetum arvense* | | | *61.204.05 | |
| *Salix lucida ssp. lasiandra / Trifolium longipes* | | | *61.204.06 | |
| Mojave Riparian Forest | | G1 S1.1 | | *CTT61700CA |
| Great Valley Willow Scrub | | G3 S3.2 | | *CTT63410CA |
| Southern Mixed Riparian Forest | | G2 S2.1 | | *CTT61340CA |
| Southern Riparian Forest | | G4 S4 | | CTT61300CA |

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| Southern Riparian Scrub | | G3 S3.2 | | *CTT63300CA |
| Southern Willow Scrub | | G3 S2.1 | | *CTT63320CA |
| *Acer negundo* (Box-elder forest) Alliance | Box-elder forest | G5 S2 | *61.440.00 | |
| *Acer negundo - Salix gooddingii* | | | *61.440.01 | |
| *Juglans hindsii and Hybrids* (Hinds's walnut and related stands) Special Stands | Hinds's walnut and related stands | G1 S1 | *61.810.00 | |
| Hinds Walnut Woodland | | G1 S1.1 | | *CTT71220CA |
| *Platanus racemosa* (California sycamore woodlands) Alliance | California sycamore woodlands | G3 S3 (some associations are of high priority for | *61.310.00 | |
| *Platanus racemosa - Populus fremontii* | | | *61.314.01 | |
| *Platanus racemosa - Populus fremontii / Salix lasiolepis* | | | *61.314.03 | |
| Central Coast Cottonwood Sycamore Riparian Forest | | G3 S3.2 | | *CTT61210CA |
| *Platanus racemosa - Populus fremontii / Salix lasiolepis - Salix exigua / Scirpus americanus* | | | *61.314.02 | |
| *Platanus racemosa - Quercus agrifolia* | | | *61.312.01 | |
| *Platanus racemosa - Quercus agrifolia - Populus fremontii - Salix laevigata* | | | *61.312.06 | |
| *Platanus racemosa - Quercus agrifolia - Salix lasiolepis* | | | *61.312.03 | |
| *Platanus racemosa - Quercus agrifolia / Baccharis salicifolia / Artemisia douglasiana* | | | *61.312.04 | |
| *Platanus racemosa - Salix laevigata* | | | *61.312.07 | |
| *Platanus racemosa - Salix laevigata / Salix lasiolepis - Baccharis salicifolia* | | | *61.312.05 | |
| *Platanus racemosa / Adenostoma fasciculatum* | | | *61.313.03 | |
| *Platanus racemosa / annual grass* | | | *61.311.03 | |
| Sycamore Alluvial Woodland | | G1 S1.1 | | *CTT62100CA |
| *Platanus racemosa / Avena barbata* | | | *61.311.01 | |
| *Platanus racemosa / Baccharis salicifolia* | | | *61.313.01 | |
| *Platanus racemosa / Bromus hordeaceus* | | | *61.311.02 | |
| *Platanus racemosa / Toxicodendron diversilobum* | | | *61.313.02 | |
| *Populus fremontii* (Fremont cottonwood forest) Alliance | Fremont cottonwood forest | G4 S3 | *61.130.00 | |
| Modoc Great Basin Cottonwood Willow Riparian Forest | | G3 S2.1 | | *CTT61610CA |
| Sonoran Cottonwood Willow Riparian Forest | | G2 S1.1 | | *CTT61810CA |
| Great Valley Cottonwood Riparian Forest | | G2 S2.1 | | *CTT61410CA |
| Great Valley Mixed Riparian Forest | | G2 S2.2 | | *CTT61420CA |
| Southern Cottonwood Willow Riparian Forest | | G3 S3.2 | | *CTT61330CA |
| *Populus fremontii* | | | *61.130.06 | |
| *Populus fremontii - Juglans californica* | | | *61.130.18 | |
| *Populus fremontii - Prosopis pubescens* | | | *61.130.19 | |
| *Populus fremontii - Quercus agrifolia* | | | *61.130.20 | |
| *Populus fremontii - Salix (laevigata, lasiolepis, lucida ssp. lasiandra)* | | | *61.130.24 | |
| *Populus fremontii - Salix gooddingii / Baccharis salicifolia* | | | *61.130.14 | |
| *Populus fremontii - Salix laevigata* | | | *61.130.15 | |
| *Populus fremontii - Salix laevigata / Salix lasiolepis - Baccharis salicifolia* | | | *61.130.22 | |
| *Populus fremontii - Salix laevigata / Salix lasiolepis / Vitis girdiana* | | | *61.130.21 | |
| *Populus fremontii - Salix lasiolepis* | | | *61.130.23 | |
| *Populus fremontii - Salix lucida ssp. lasiandra* | | | *61.130.25 | |
| *Populus fremontii - Sambucus nigra* | | | *61.130.26 | |
| *Populus fremontii / Acer negundo* | | | *61.130.07 | |
| *Populus fremontii / Acer negundo / Rubus armeniacus* | | | *61.130.08 | |
| *Populus fremontii / Artemisia douglasiana* | | | *61.130.09 | |
| *Populus fremontii / Baccharis salicifolia* | | | *61.130.16 | |
| *Populus fremontii / Galium aparine* | | | *61.130.10 | |
| *Populus fremontii / Rubus ursinus* | | | *61.130.11 | |
| *Populus fremontii / Salix exigua* | | | *61.130.17 | |
| *Populus fremontii / Vitis californica* | | | *61.130.13 | |
| *Salix gooddingii* (Black willow thickets) Alliance | Black willow thickets | G4 S3 | *61.211.00 | |
| *Salix gooddingii* | | | *61.211.01 | |
| *Salix gooddingi - Populus fremontii* | | | *61.211.04 | |
| *Salix gooddingii - Quercus lobata / wetland herb* | | | *61.211.06 | |
| *Salix gooddingii - Salix laevigata* | | | *61.211.05 | |
| *Salix gooddingii - Salix lucida - Populus fremontii* | | | *61.211.08 | |
| *Salix gooddingii / Baccharis salicifolia* | | | *61.211.02 | |
| *Salix gooddingii / Lepidium latifolium* | | | *61.211.03 | |
| *Salix gooddingii / Rubus armeniacus* | | | *61.211.07 | |
| *Salix laevigata* (Red willow thickets) Alliance | Red willow thickets | G3 S3 | *61.205.00 | |
| *Salix laevigata* | | | *61.205.01 | |
| *Salix laevigata - Cornus sericea / Scirpus microcarpus* | | | *61.205.05 | |
| *Salix laevigata - Salix lasiolepis* | | | *61.205.02 | |
| *Salix laevigata - Salix lasiolepis / Artemisia douglasiana - Rubus ursinus* | | | *61.205.03 | |
| *Salix laevigata - Salix lasiolepis / Baccharis salicifolia* | | | *61.205.07 | |
| *Salix laevigata / Rosa californica* | | | *61.205.04 | |
| *Salix laevigata / Salix lasiolepis / Artemisia douglasiana* | | | *61.205.06 | |
| *Washingtonia filifera* (California fan palm oasis) Alliance | California fan palm oasis | G3 S3 | *61.520.00 | |
| Desert Fan Palm Oasis Woodland | | G3 S3.2 | | *CTT62300CA |
| *Washingtonia filifera - Platanus racemosa / Salix spp* | | | *61.520.04 | |

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| *Washingtonia filifera / spring (Atriplex - Baccharis - Pluchea)* | | | *61.520.03 | | |
| *Baccharis emoryi* (Emory's baccharis thickets) Provisional Alliance | Emory's baccharis thickets | G3 S2? | *63.520.00 | | |
| *Baccharis salicifolia* (Mulefat thickets) Alliance | Mulefat thickets | G5 S4 | 63.510.00 | | |
| Mule Fat Scrub | | G4 S4 | | CTT63310CA | |
| *Baccharis salicifolia* | | | 63.510.01 | | |
| *Baccharis salicifolia - Arundo donax* | | | 63.510.05 | | |
| *Baccharis salicifolia - Lepidospartum squamatum - Hazardia squarrosa* | | | 63.510.02 | | |
| *Baccharis salicifolia - Pluchea sericea* | | | 63.510.06 | | |
| *Baccharis salicifolia - Sambucus mexicana* | | | 63.510.03 | | |
| *Baccharis salicifolia - Tamarix ramosissima* | | | 63.510.07 | | |
| *Baccharis salicifolia / Stachys albens* | | | 63.510.04 | | |
| *Baccharis sergiloides* (Broom baccharis thickets) Alliance | Broom baccharis thickets | G4 S3 | *63.530.00 | | |
| *Baccharis sergiloides - Prunus fasciculata* | | | *63.530.01 | | |
| *Baccharis sergiloides - Prunus fasciculata - Rhus trilobata* | | | *63.530.02 | | |
| *Baccharis sergiloides / Muhlenbergia rigens* | | | *63.530.03 | | |
| *Cephalanthus occidentalis* (Button willow thickets) Alliance | Button willow thickets | G5 S2 | *63.300.00 | | |
| Buttonbush Scrub | | G1 S1.1 | | *CTT63430CA | |
| *Cephalanthus occidentalis* | | | *63.300.01 | | |
| *Forestiera pubescens* (Desert olive patches) Alliance | Desert olive patches | G3 S2 | *61.580.00 | | |
| *Forestiera pubescens* | | | *61.580.01 | | |
| *Forestiera pubescens - Sambucus nigra* | | | *61.580.02 | | |
| Woodwardia Thicket | | G3 S3.2 | | *CTT63110CA | |
| *Rhododendron occidentale* (Western azalea patches) Provisional Alliance | Western azalea patches | G3 S2? | *63.310.00 | | |
| *Rosa californica* (California rose briar patches) Alliance | California rose briar patches | G3 S3 | *63.907.00 | | |
| *Rosa californica* | | | *63.907.02 | | |
| *Rosa californica - Baccharis pilularis* | | | *63.907.01 | | |
| *Rosa californica / Schoenoplectus spp.* | | | *63.907.03 | | |
| *Salix breweri* (Brewer willow thickets) Alliance | Brewer willow thickets | G2 S2 | *61.215.00 | | |
| *Salix breweri / Muhlenbergia asperifolia* | | | *61.215.01 | | |
| *Salix exigua* (Sandbar willow thickets) Alliance | Sandbar willow thickets | G5 S4 | 61.209.00 | | |
| *Salix exigua* | | | 61.209.01 | | |
| *Salix exigua - (Saix lasiolepis) - Rubus discolor* | | | 61.209.07 | | |
| *Salix exigua - Arundo donax* | | | 61.209.02 | | |
| *Salix exigua - Brickellia californica* | | | 61.209.06 | | |
| *Salix exigua - Salix melanopsis* | | | 61.209.03 | | |
| *Salix exigua / Baccharis sergiloides* | | | 61.209.04 | | |
| *Salix exigua / Juncus spp.* | | | 61.209.05 | | |
| *Salix lasiolepis* (Arroyo willow thickets) Alliance | Arroyo willow thickets | G4 S4 (some associations are of high priority for | 61.201.00 | | |
| Southern Arroyo Willow Riparian Forest | | G2 S2.1 | | *CTT61320CA | |
| Central Coast Riparian Scrub | | G3 S3 | | *CTT63200CA | |
| Central Coast Arroyo Willow Riparian Forest | | G3 S3.2 | | *CTT61230CA | |
| *Salix lasiolepis* | | | *61.201.01 | | |
| *Salix lasiolepis - Salix lucida* | | | 61.201.04 | | |
| *Salix lasiolepis / Artemisia douglasiana* | | | 61.201.02 | | |
| *Salix lasiolepis / Baccharis pilularis - Rubus ursinus* | | | 61.201.05 | | |
| *Salix lasiolepis / Baccharis salicifolia* | | | 61.201.06 | | |
| *Salix lasiolepis / Malosma laurina* | | | 61.201.07 | | |
| *Salix lasiolepis / Rosa californica* | | | 61.201.08 | | |
| *Salix lasiolepis / Rubus spp.* | | | 61.201.03 | | |
| *Sambucus nigra* (Blue elderberry stands) Alliance | Blue elderberry stands | G3 S3 | *63.410.00 | | |
| Elderberry Savanna | | G2 S2.1 | | *CTT63440CA | |
| *Sambucus nigra* | | | *63.410.01 | | |
| *Sambucus nigra - Heteromeles arbutifolia* | | | *63.410.03 | | |
| *Sambucus nigra / Leymus condensatus* | | | *63.410.02 | | |
| *Arundo donax* (Giant reed breaks) Semi-natural Stands | Giant reed breaks | | 42.080.00 | | Invasive sp ranking: Cal IPC High |
| *Arundo donax* | | | 42.080.01 | | |
| *Arundo donax - Salix exigua* | | | 42.080.02 | | |
| *Tamarix spp.* (Tamarisk thickets) Semi-natural Stands | Tamarisk thickets | | 63.810.00 | | |
| Tamarisk Scrub | | G5 S4 | | CTT63810CA | |
| Non-Serpentine Digger Pine Chaparral Woodland | | G4 S4 | | CTT71322CA | |
| Serpentine Digger Pine Chaparral Woodland | | G3 S3.2 | | *CTT71321CA | |
| Granitic Southern Mixed Chaparral | | G3 S3.3 | | *CTT37121CA | |
| Mafic Southern Mixed Chaparral | | G3 S3.2 | | *CTT37122CA | |
| Northern Mixed Chaparral | | G4 S4 | | CTT37110CA | |
| Northern North Slope Chaparral | | G3 S3.3 | | *CTT37E10CA | |
| Southern North Slope Chaparral | | G3 S3.3 | | *CTT37E20CA | |
| Alluvial Fan Chaparral | | G2 S2.1 | | *CTT37H00CA | |
| Flannel Bush Chaparral | | G3 S3.3 | | *CTT37J00CA | |
| *Adenostoma fasciculatum* (Chamise chaparral) Alliance | Chamise chaparral | G5 S5 (some associations are of high priority for | 37.101.00 | | |
| Chamise Chaparral | | G4 S4 | | CTT37200CA | |

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| *Adenostoma fasciculatum* | | | 37.101.16 | |
| *Adenostoma fasciculatum - (Arctostaphylos glandulosa)* | | | 37.101.07 | |
| *Adenostoma fasciculatum - (Arctostaphylos manzanita)* | | | 37.101.19 | |
| *Adenostoma fasciculatum - (Arctostaphylos pungens)* | | | 37.101.26 | |
| *Adenostoma fasciculatum - (Arctostaphylos viscida)* | | | 37.101.27 | |
| *Adenostoma fasciculatum - (Ceanothus crassifolius)* | | | 37.101.08 | |
| *Adenostoma fasciculatum - (Ceanothus cuneatus)* | | | 37.101.10 | |
| *Adenostoma fasciculatum - (Ceanothus greggii / mafic)* | | | *37.101.06 | |
| *Adenostoma fasciculatum - (Ceanothus tomentosus)* | | | 37.101.11 | |
| *Adenostoma fasciculatum - Arctostaphylos glandulosa - Ceanothus jepsonii / Calamagrostis ophitidis* | | | 37.101.32 | |
| *Adenostoma fasciculatum - Arctostaphylos pringlei* | | | 37.101.22 | |
| *Adenostoma fasciculatum - Diplacus aurantiacus* | | | *37.101.12 | |
| *Adenostoma fasciculatum - Eriodictyon californicum (Lotus scoparius)* | | | 37.101.31 | |
| *Adenostoma fasciculatum - Eriogonum fasciculatum* | | | 37.101.14 | |
| *Adenostoma fasciculatum - Eriogonum fasciculatum - Salvia apiana* | | | 37.103.03 | |
| *Adenostoma fasciculatum - Hesperoyucca whipplei* | | | 37.101.04 | |
| *Adenostoma fasciculatum - Heteromeles arbutifolia / Melica torreyana* | | | 37.101.28 | |
| *Adenostoma fasciculatum - Malosma laurina* | | | 37.101.21 | |
| *Adenostoma fasciculatum - Malosma laurina - Eriodictyon crassifolium* | | | 37.101.33 | |
| *Adenostoma fasciculatum / annual grass - forb* | | | 37.101.24 | |
| *Adenostoma fasciculatum / Castilleja pruinosa* | | | 37.101.29 | |
| *Adenostoma fasciculatum / mixed herb - moss* | | | 37.101.25 | |
| *Adenostoma fasciculatum / Selaginella bigelovii* | | | 37.101.30 | |
| *Adenostoma fasciculatum disturbance* | | | 37.101.17 | |
| *Adenostoma fasciculatum serpentine* | | | *37.101.15 | |
| *Adenostoma fasciculatum - Salvia apiana* (Chamise - white sage chaparral) Alliance | Chamise - white sage chaparral | G3 S3 | *37.103.00 | |
| *Adenostoma fasciculatum - Salvia apiana* | | | *37.103.01 | |
| *Adenostoma fasciculatum - Salvia apiana - Artemisia californica* | | | *37.103.02 | |
| *Adenostoma fasciculatum - Salvia leucophylla* | | | *37.101.23 | |
| *Adenostoma fasciculatum - Salvia mellifera* (Chamise - black sage chaparral) Alliance | Chamise - black sage chaparral | G5 S5 (some associations are of high priority for | 37.102.00 | |
| *Adenostoma fasciculatum - Salvia mellifera - Artemisia californica* | | | 37.102.04 | |
| *Adenostoma fasciculatum - Salvia mellifera - Ceanothus crassifolius* | | | 37.102.05 | |
| *Adenostoma fasciculatum - Salvia mellifera - Malosma laurina* | | | 37.102.06 | |
| *Adenostoma fasciculatum - Salvia mellifera - Rhus ovata* | | | 37.102.07 | |
| *Adenostoma fasciculatum - Salvia mellifera / (herbaceous)* | | | 37.102.02 | |
| *Adenostoma fasciculatum - Salvia mellifera / mixed shrub* | | | *37.102.03 | |
| *Adenostoma fasciculatum - Xylococcus bicolor* (Chamise-mission manzanita chaparral) Alliance | Chamise-mission manzanita chaparral | G4 S3 | *37.109.00 | |
| Southern Maritime Chaparral | | G1 S1.1 | | *CTT37C30CA |
| *Adenostoma fasciculatum - Xylococcus bicolor* | | | *37.109.01 | |
| *Adenostoma fasciculatum - Xylococcus bicolor - Ceanothus crassifolius* | | | *37.109.05 | |
| *Adenostoma fasciculatum - Xylococcus bicolor - Ceanothus crassifolius - Malosma laurina* | | | *37.109.14 | |
| *Adenostoma fasciculatum - Xylococcus bicolor - Ceanothus tomentosus* | | | *37.109.02 | |
| *Adenostoma fasciculatum - Xylococcus bicolor - Ceanothus verrucosus* | | | *37.109.08 | |
| *Adenostoma fasciculatum - Xylococcus bicolor - Cneoridium dumosum* | | | *37.109.09 | |
| *Adenostoma fasciculatum - Xylococcus bicolor - Eriogonum fasciculatum* | | | *37.109.10 | |
| *Adenostoma fasciculatum - Xylococcus bicolor - Quercus berberidifolia* | | | *37.109.12 | |
| *Adenostoma fasciculatum - Xylococcus bicolor - Rhus integrifolia* | | | *37.109.11 | |
| *Adenostoma fasciculatum - Xylococcus bicolor - Salvia mellifera - Malosma laurina* | | | *37.109.13 | |
| Upper Sonoran Manzanita Chaparral | | G4 S4 | | CTT37B00CA |
| *Arctostaphylos glauca* (Bigberry manzanita chaparral) Alliance | Bigberry manzanita chaparral | G4 S4 (some associations are of high priority for | 37.301.00 | |
| *Arctostaphylos glauca* | | | 37.301.01 | |
| *Arctostaphylos glauca - Adenostoma fasciculatum* | | | 37.104.01 | |
| *Arctostaphylos glauca - Adenostoma fasciculatum - Ceanothus crassifolius* | | | 37.104.05 | |
| *Arctostaphylos glauca - Adenostoma fasciculatum - Ceanothus cuneatus* | | | 37.104.07 | |
| *Arctostaphylos glauca - Adenostoma fasciculatum - Ceanothus greggii* | | | 37.104.04 | |
| *Arctostaphylos glauca - Adenostoma fasciculatum - Ceanothus leucodermis* | | | 37.104.02 | |
| *Arctostaphylos glauca - Adenostoma fasciculatum - Diplacus aurantiacus* | | | 37.104.08 | |
| *Arctostaphylos glauca - Adenostoma fasciculatum - Hesperoyucca whipplei* | | | 37.104.03 | |
| *Arctostaphylos glauca - Adenostoma fasciculatum - Quercus berberidifolia* | | | 37.104.06 | |
| *Arctostaphylos glauca - Adenostoma fasciculatum - Rhus ovata* | | | 37.104.09 | |
| *Arctostaphylos glauca - Adenostoma fasciculatum - Salvia mellifera* | | | 37.104.10 | |
| *Arctostaphylos glauca - Adenostoma fasciculatum on serpentine* | | | 37.104.11 | |
| *Arctostaphylos glauca - Artemisia californica - Salvia mellifera* | | | 37.301.03 | |
| *Arctostaphylos glauca - Cercocarpus montanus* | | | 37.301.05 | |
| *Arctostaphylos glauca - Quercus durata / Pinus sabiniana* | | | *37.301.04 | |
| *Arctostaphylos glauca / Melica torreyana* | | | *37.301.02 | |
| *Arctostaphylos hookeri* (Hooker's manzanita chaparral) Provisional Alliance | Hooker's manzanita chaparral | G2 S2 | *37.321.00 | |
| *Arctostaphylos manzanita* (Spiny menodora scrub) Provisional Alliance | Spiny menodora scrub | G3? S3? | *37.313.00 | |
| *Arctostaphylos viscida* (White leaf manzanita chaparral) Alliance | White leaf manzanita chaparral | G4 S4 (some associations are of high priority for | 37.305.00 | |
| *Arctostaphylos viscida* | | | 37.305.01 | |

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|---|---|---|---|---|
| *Arctostaphylos viscida - Heteromeles arbutifolia - Toxicodendron diversilobum* | | | 37.305.05 | |
| *Arctostaphylos viscida - Quercus wislizeni* | | | 37.305.07 | |
| *Arctostaphylos viscida / Salvia sonomensis* | | | *37.305.03 | |
| *Arctostaphylos viscida ssp. pulchella* | | | 37.305.06 | |
| *Arctostaphylos viscida - Adenostoma fasciculatum* | | | 37.305.02 | |
| *(Arctostaphylos viscida - Adenostoma fasciculatum) / Salvia sonomensis* | | | *37.305.04 | |
| *Ceanothus crassifolius* (Hoary leaf ceanothus chaparral) Alliance | Hoary leaf ceanothus chaparral | G4 S4 | 37.208.00 | |
| Ceanothus crassifolius Chaparral | | G3 S3.2 | | *CTT37830CA |
| *Ceanothus crassifolius* | | | 37.208.01 | |
| *Ceanothus crassifolius - Adenostoma fasciculatum* | | | 37.208.02 | |
| *Ceanothus crassifolius - Adenostoma fasciculatum - Rhus ovata* | | | 37.208.04 | |
| *Ceanothus crassifolius - Adenostoma fasciculatum - Salvia mellifera* | | | 37.208.05 | |
| *Ceanothus crassifolius - Adenostoma fasciculatum - Malosma Laurina* | | | 37.208.03 | |
| *Ceanothus crassifolius - Adenostoma fasciculatum - Xylococcus bicolor* | | | 37.208.06 | |
| *Ceanothus crassifolius - Cercocarpus montanus* | | | 37.208.07 | |
| *Ceanothus crassifolius - Malosma laurina* | | | 37.208.08 | |
| *Ceanothus cuneatus* (Wedge leaf ceanothus chaparral, Buck brush chaparral) Alliance | Wedge leaf ceanothus chaparral, Buck brus | G4 S4 | 37.211.00 | |
| Buck Brush Chaparral | | G4 S4 | | CTT37810CA |
| *Ceanothus cuneatus* | | | 37.211.01 | |
| *Ceanothus cuneatus - Adenostoma fasciculatum* | | | 37.211.06 | |
| *Ceanothus cuneatus - Adenostoma fasciculatum - Salvia mellifera - Malosma laurina* | | | 37.211.10 | |
| *Ceanothus cuneatus - Eriodictyon californicum - (Fremontodendron californicum)* | | | 37.211.08 | |
| *Ceanothus cuneatus - Frangula californica - Arctostaphylos pungens* | | | 37.211.09 | |
| *Ceanothus cuneatus / Calocedrus decurrens* | | | 37.211.02 | |
| *Ceanothus cuneatus / Elymus elymoides* | | | 37.211.03 | |
| *Ceanothus cuneatus / Eriophyllum lanatum* | | | 37.211.11 | |
| *Ceanothus cuneatus / Plantago erecta* | | | 37.211.05 | |
| *Ceanothus megacarpus* (Big pod ceanothus chaparral) Alliance | Big pod ceanothus chaparral | G4 S4 | 37.201.00 | |
| Ceanothus megacarpus Chaparral | | G3 S3.2 | | *CTT37840CA |
| *Ceanothus megacarpus* | | | 37.201.01 | |
| *Ceanothus megacarpus - Adenostoma fasciculatum* | | | 37.201.02 | |
| *Ceanothus megacarpus - Adenostoma sparsifolium* | | | 37.201.04 | |
| *Ceanothus megacarpus - Cercocarpus montanus* | | | 37.201.05 | |
| *Ceanothus megacarpus - Malosma laurina* | | | 37.201.06 | |
| *Ceanothus megacarpus - Prunus ilicifolia* | | | 37.201.09 | |
| *Ceanothus megacarpus - Rhamnus ilicifolia* | | | 37.203.01 | |
| *Ceanothus megacarpus - Salvia mellifera* | | | 37.201.08 | |
| *Eriodictyon californicum* (California yerba santa scrub) Alliance | California yerba santa scrub | G4 S4 | 37.080.00 | |
| *Eriodictyon californicum / herbaceous* | | | 35.080.01 | |
| *Eriodictyon crassifolium* (Thick leaf yerba santa scrub) Provisional Alliance | Thick leaf yerba santa scrub | G3 S3 | *37.090.00 | |
| *Arctostaphylos (crustacea, tomentosa)* (Brittle leaf-Woolly leaf manzanita chaparral) Alliance | Brittle leaf-Woolly leaf manzanita chaparral | G2 S2 | *37.308.00 | |
| Northern Maritime Chaparral | | G1 S1.2 | | *CTT37C10CA |
| Central Maritime Chaparral | | G2 S2.2 | | *CTT37C20CA |
| Island Maritime Chaparral | | G3 S3.1 | | *CTT37700CA |
| *Arctostaphylos canescens* (Hoary manzanita chaparral) Provisional Alliance | Hoary manzanita chaparral | G3? S3? | *37.311.00 | |
| *Arctostaphylos canescens - Arctostaphylos glandulosa - Adenostoma fasciculatum* | | | *37.311.01 | |
| *Arctostaphylos crustacea* | | | *37.308.03 | |
| *Arctostaphylos crustacea - Adenostoma fasciculatum - Ceanothus (cuneatus, papillosus)* | | | *37.308.04 | |
| *Arctostaphylos crustacea - Arctostaphylos gabilanensis* | | | *37.308.05 | |
| *Arctostaphylos hooveri* (Hoover's manzanita chaparral) Alliance | Hoover's manzanita chaparral | G2 S2 | *37.312.00 | |
| *Arctostaphylos hooveri* | | | *37.312.01 | |
| *Arctostaphylos montereyensis* (Monterey manzanita chaparral) Provisional Alliance | Monterey manzanita chaparral | G1 S1 | *37.314.00 | |
| *Arctostaphylos morroensis* (Morro manzanita chaparral) Alliance | Morro manzanita chaparral | G1 S1 | *37.315.00 | |
| *Arctostaphylos myrtifolia* (Ione manzanita chaparral) Alliance | Ione manzanita chaparral | G1 S1 | *37.304.00 | |
| Ione Chaparral | | G1 S1.1 | | *CTT37D00CA |
| *Arctostaphylos myrtifolia* | | | *37.304.01 | |
| *Arctostaphylos (nummularia, sensitiva)* (Glossy leaf manzanita chaparral) Alliance | Glossy leaf manzanita chaparral | G2 S2 | *37.306.00 | |
| *Arctostaphylos pajaroensis* (Pajaro manzanita chaparral) Alliance | Pajaro manzanita chaparral | G1 S1 | *37.316.00 | |
| *Arctostaphylos pajaroensis* | | | *37.316.01 | |
| *Arctostaphylos pumila* (Sandmat manzanita chaparral) Provisional Alliance | Sandmat manzanita chaparral | G1 S1 | *37.318.00 | |
| *Arctostaphylos sensitiva - Vaccinium ovatum - Chrysolepis chrysophylla var. minor* | | | *37.306.01 | |
| *Arctostaphylos sensitiva - Arctostaphylos glandulosa* | | | *37.306.02 | |
| *Arctostaphylos (purissima, rudis)* (Burton Mesa chaparral) Provisional Alliance | Burton Mesa chaparral | G1 S1 | *37.322.00 | |
| *Arctostaphylos silvicola* (Silverleaf manzanita chaparral) Provisional Alliance | Silverleaf manzanita chaparral | G1 S1 | *37.320.00 | |
| *Arctostaphylos stanfordiana* (Stanford manzanita chaparral) Provisional Alliance | Stanford manzanita chaparral | G3 S3? | *37.319.00 | |
| *Ceanothus papillosus* (Wart leaf ceanothus chaparral) Alliance | Wart leaf ceanothus chaparral | G3 S3 | *37.215.00 | |
| *Ceanothus papillosus - Adenostoma fasciculata* | | | *37.215.01 | |
| *Ceanothus verrucosus* (Wart-stemmed ceanothus chaparral) Provisional Alliance | Wart-stemmed ceanothus chaparral | G2 S2 | *37.216.00 | |
| *Malosma laurina* (Laurel sumac scrub) Alliance | Laurel sumac scrub | G4 S4 | 45.455.00 | |
| *Malosma laurina* | | | 45.455.01 | |

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| *Malosma laurina - Eriogonum cinereum* | | | 45.455.03 | |
| *Malosma laurina - Eriogonum fasciculatum* | | | 45.455.04 | |
| *Malosma laurina - Eriogonum fasciculatum - Salvia apiana* | | | 45.455.06 | |
| *Malosma laurina - Eriogonum fasciculatum - Salvia mellifera* | | | 45.455.07 | |
| *Malosma laurina - Rhus ovata - Ceanothus megacarpus* | | | 45.455.08 | |
| *Malosma laurina - Salvia mellifera* | | | 45.455.09 | |
| *Malosma laurina - Tetracoccus dioicus* | | | 45.455.10 | |
| *Quercus pacifica* (Island scrub oak chaparral) Alliance | Island scrub oak chaparral | G3 S3 | *37.416.00 | |
| *Quercus pacifica* | | | *37.416.01 | |
| *Rhus integrifolia* (Lemonade berry scrub) Alliance | Lemonade berry scrub | G3 S3 | *37.803.00 | |
| *Rhus integrifolia* | | | *37.803.01 | |
| *Rhus integrifolia - Adenostoma fasciculatum - Artemisia californica* | | | *37.803.02 | |
| *Rhus integrifolia - Artemisia californica - Eriogonum cinereum* | | | *37.803.03 | |
| *Rhus integrifolia - Opuntia spp - Eriogonum cinereum* | | | *37.803.04 | |
| *Rhus integrifolia - Salvia mellifera - Artemisia californica* | | | *37.803.05 | |
| *Ceanothus spinosus* (Greenbark ceanothus chaparral) Alliance | Greenbark ceanothus chaparral | G4 S4 | 37.214.00 | |
| *Ceanothus spinosus* | | | 37.214.01 | |
| *Ceanothus spinosus - Ceanothus megacarpus* | | | 37.214.02 | |
| *Cercocarpus montanus* (Birch leaf mountain mahogany chaparral) Alliance | Birch leaf mountain mahogany chaparral | G5 S4 | 76.100.00 | |
| *Cercocarpus montanus - Adenostoma fasciculatum* | | | 76.100.06 | |
| *Cercocarpus montanus - Adenostoma fasciculatum - Diplacus aurantiacus* | | | 76.100.17 | |
| *Cercocarpus montanus - Arctostaphylos glauca* | | | 76.100.04 | |
| *Cercocarpus montanus - Ceanothus cuneatus* | | | 76.100.16 | |
| *Cercocarpus montanus - Ceanothus cuneatus - Fraxinus dipetala* | | | 76.100.15 | |
| *Cercocarpus montanus - Ceanothus cuneatus - Quercus john-tuckeri* | | | 76.100.09 | |
| *Cercocarpus montanus - Ceanothus spinosus* | | | 76.100.05 | |
| *Cercocapus montanus - Eriogonum fasciculatum* | | | 37.600.01 | |
| *Cercocapus montanus - Eriogonum fasciculatum - Eriogonum wrightii* | | | 37.600.02 | |
| *Cercocarpus montanus - Fremontodendron californicum* | | | 76.100.10 | |
| *Cercocarpus montanus - Juniperus californica* | | | 76.100.11 | |
| *Cercocarpus montanus - Malosma laurina - Artemisia californica* | | | 76.100.12 | |
| *Cercocarpus montanus - Prunus ilicifolia* | | | 76.100.14 | |
| *Cercocarpus montanus - Prunus ilicifolia - Adenostoma sparsifolium* | | | 76.100.13 | |
| *Cercocarpus montanus var. glaber* | | | 76.100.03 | |
| *Cercocarpus montanus var. macrourus* | | | 37.610.01 | |
| *Cercocarpus montanus var. minutiflorus* | | | 37.610.02 | |
| *Heteromeles arbutifolia* (Toyon chaparral) Alliance | Toyon chaparral | G5 S3 | *37.911.00 | |
| *Heteromeles arbutifolia - Artemisia californica* | | | *37.911.02 | |
| *Heteromeles arbutifolia - Malosma laurina* | | | *37.911.03 | |
| *Heteromeles arbutifolia - Quercus berberidifolia - Cercocarpus montanus - Fraxinus dipetala* | | | *37.911.04 | |
| *Heteromeles arbutifolia / serpentine* | | | *37.911.01 | |
| *Prunus ilicifolia* (Holly leaf cherry chaparral) Alliance | Holly leaf cherry chaparral | G3 S3 (some associations are of high priority for | *37.910.00 | |
| Island Cherry Forest | | G2 S2.1 | | *CTT81810CA |
| Mainland Cherry Forest | | G1 S1.1 | | *CTT81820CA |
| *Prunus ilicifolia ssp. ilicifolia* | | | *37.910.03 | |
| *Prunus ilicifolia ssp. ilicifolia - Ceanothus cuneatus* | | | *37.910.05 | |
| *Prunus ilicifolia ssp. ilicifolia - Fraxinus dipetala* | | | *37.910.06 | |
| *Prunus ilicifolia ssp. ilicifolia - Heteromeles arbutifolia* | | | *37.910.02 | |
| *Prunus ilicifolia ssp. ilicifolia - Toxicodendron diversilobum / grass* | | | *37.910.07 | |
| *Prunus ilicifolia ssp. Ilicifolia / Sanicula crassicaulis* | | | *37.910.01 | |
| *Prunus ilicifolia ssp. lyonii* | | | *37.910.04 | |
| *Quercus berberidifolia* (Scrub oak chaparral) Alliance | Scrub oak chaparral | G4 S4 (some associations are of high priority for | 37.407.00 | |
| Scrub Oak Chaparral | | G3 S3.3 | | *CTT37900CA |
| *Quercus berberidifolia* | | | 37.407.02 | |
| *Quercus berberidifolia - Arctostaphylos glauca* | | | 37.406.01 | |
| *Quercus berberidifolia - Ceanothus cuneatus* | | | 37.406.05 | |
| *Quercus berberidifolia - Ceanothus integerrimus* | | | 37.406.02 | |
| *Quercus berberidifolia - Ceanothus leucodermis* | | | 37.407.05 | |
| *Quercus berberidifolia - Ceanothus oliganthus* | | | *37.406.03 | |
| *Quercus berberidifolia - Ceanothus spinosus* | | | 37.407.07 | |
| *Quercus berberidifolia - Ceanothus tomentosus* | | | 37.406.06 | |
| *Quercus berberidifolia - Cercocarpus montanus* | | | 37.407.06 | |
| *Quercus berberidifolia - Fraxinus dipetela - Heteromeles arbutifolia* | | | 37.407.09 | |
| *Quercus berberidifolia - Heteromeles arbutifolia* | | | 37.407.04 | |
| *Quercus berberidifolia - southern mixed chaparral* | | | 37.407.08 | |
| *Quercus berberidifolia / Aesculus californica* | | | 37.407.01 | |
| *Quercus berberidifolia - Adenostoma fasciculatum* (Scrub oak - chamise chaparral) Alliance | Scrub oak - chamise chaparral | G4 S4 | 37.409.00 | |
| *Quercus berberidifolia - Adenostoma fasciculatum* | | | 37.409.03 | |
| *Quercus berberidifolia - Adenostoma fasciculatum - Arctostaphylos glandulosa* | | | 37.407.03 | |
| *Quercus berberidifolia - Adenostoma fasciculatum - Ceanothus crassifolius* | | | 37.409.01 | |

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| *Quercus berberidifolia - Adenostoma fasciculatum - Ceanothus greggii* | | | 37.409.02 | |
| *Arctostaphylos bakeri* (Stands of Baker manzanita) Special Stands | Stands of Baker manzanita | G1 S1 | *37.317.00 | |
| *Arctostaphylos montana* (Mount Tamalpais manzanita chaparral) Alliance | Mount Tamalpais manzanita chaparral | G2 S2 | *37.307.00 | |
| *Arctostaphylos montana* | | | *37.307.01 | |
| *Arctostaphylos montana - Adenostoma fasciculatum* | | | *37.307.02 | |
| *Quercus durata* (Leather oak chaparral) Alliance | Leather oak chaparral | G4 S4 (some associations are of high priority for | 37.405.00 | |
| Mixed Serpentine Chaparral | | G2 S2.1 | | *CTT37610CA |
| Leather Oak Chaparral | | G3 S3.2 | | *CTT37620CA |
| *Quercus durata* | | | 37.405.02 | |
| *Quercus durata - Adenostoma fasciculatum - Quercus wislizeni* | | | 37.405.03 | |
| *Quercus durata - Adenostoma fasciculatum / Salvia sonomensis* | | | *37.405.14 | |
| *Quercus durata - Arctostaphylos glandulosa* | | | *37.405.01 | |
| *Quercus durata - Arctostaphylos glauca - Artemisia californica / Grass* | | | *37.405.06 | |
| *Quercus durata - Arctostaphylos glauca - Garrya congdonii / Melica torreyana* | | | *37.405.07 | |
| *Quercus durata - Arctostaphylos glauca / Pinus sabiniana* | | | 37.405.04 | |
| *Quercus durata - Arctostaphylos pungens / Pinus sabiniana* | | | *37.405.08 | |
| *Quercus durata - Cercocarpus montanus* | | | 37.405.10 | |
| *Quercus durata - Frangula californica - Arctostaphylos glauca* | | | *37.405.12 | |
| *Quercus durata - Heteromeles arbutifolia - Umbellularia californica* | | | 37.405.11 | |
| *Quercus durata / Allium falcifolium - Streptanthus batrachopus* | | | *37.405.13 | |
| *Quercus durata / Pinus sabiniana* | | | 37.405.09 | |
| *Arctostaphylos glandulosa* (Eastwood manzanita chaparral) Alliance | Eastwood manzanita chaparral | G4 S4 (some associations are of high priority for | 37.302.00 | |
| *Arctostaphylos glandulosa* | | | 37.302.01 | |
| *Arctostaphylos glandulosa - Adenostoma fasciculatum* | | | 37.106.13 | |
| *Arctostaphylos glandulosa - Adenostoma fasciculatum - Arctostaphylos glauca* | | | 37.106.12 | |
| *Arctostaphylos glandulosa - Adenostoma fasciculatum - Ceanothus crassifolius* | | | 37.106.04 | |
| *Arctostaphylos glandulosa - Adenostoma fasciculatum - Ceanothus cuneatus* | | | 37.106.07 | |
| *Arctostaphylos glandulosa - Adenostoma fasciculatum - Ceanothus leucodermis* | | | 37.106.02 | |
| *Arctostaphylos glandulosa - Adenostoma fasciculatum - Cercocarpus montanus* | | | 37.106.01 | |
| *Arctostaphylos glandulosa - Adenostoma fasciculatum - Quercus berberidifolia* | | | 37.106.11 | |
| *Arctostaphylos glandulosa - Adenostoma fasciculatum - Quercus wislizeni* | | | 37.106.10 | |
| *Arctostaphylos glandulosa - Adenostoma fasciculatum / mafic soils* | | | *37.106.05 | |
| *Arctostaphylos glandulosa - Adenostoma fasciculatum -Ceanothus greggii* | | | 37.106.03 | |
| *Arctostaphylos glandulosa - Arctostaphylos pringlei* | | | *37.302.07 | |
| *Arctostaphylos glandulosa - Cercocarpus montanus* | | | 37.302.03 | |
| *Arctostaphylos glandulosa - Quercus wislizeni* | | | 37.302.04 | |
| *Arctostaphylos glandulosa ssp. adamsii* | | | *37.302.02 | |
| *Arctostaphylos pringlei ssp. drupacea* (Pink-bract manzanita chaparral) Alliance | Pink-bract manzanita chaparral | G3 S3 | *37.310.00 | |
| *Arctostaphylos pringlei ssp. drupacea* | | | *37.310.02 | |
| *Arctostaphylos pringlei ssp. drupacea - Arctostaphylos pungens* | | | *37.310.01 | |
| *Ceanothus leucodermis* (Chaparral white thorn chaparral) Alliance | Chaparral white thorn chaparral | G4 S4 | 37.205.00 | |
| Whitethorn Chaparral | | G4 S4 | | *CTT37532CA |
| *Ceanothus leucodermis* | | | 37.205.01 | |
| *Ceanothus leucodermis / Toxicodendron diversilobum* | | | 37.205.02 | |
| *Ceanothus oliganthus* (Hairy leaf ceanothus chaparral) Alliance | Hairy leaf ceanothus chaparral | G3 S3 | *37.207.00 | |
| *Ceanothus oliganthus* | | | *37.207.01 | |
| *Ceanothus oliganthus - Adenostoma fasciculatum* | | | *37.207.02 | |
| *Ceanothus oliganthus - Adenostoma fasciculatum - Xylococcus bicolor* | | | *37.207.03 | |
| *Ceanothus oliganthus - Adenostoma sparsifolium* | | | *37.207.04 | |
| *Ceanothus oliganthus - Arctostaphylos glandulosa* | | | *37.207.05 | |
| *Ceanothus oliganthus - Eriodictyon crassifolium* | | | *37.207.06 | |
| *Ceanothus oliganthus - Heteromeles arbutifolia - Rhus ovata* | | | *37.207.07 | |
| *Ceanothus oliganthus - Quercus berberidifolia* | | | *37.207.08 | |
| *Quercus chrysolepis* (Canyon live oak chaparral) Alliance | Canyon live oak chaparral | G3 S3 | *37.413.00 | |
| *Quercus chrysolepis* | | | *37.413.01 | |
| *Quercus wislizeni* (Interior live oak chaparral) Alliance | Interior live oak chaparral | G4 S4 | 37.420.00 | |
| Interior Live Oak Chaparral | | G3 S3.3 | | *CTT37A00CA |
| *Quercus wislizen - Cercocarpus montanus - Arctostaphylos glandulosa* | | | 37.420.05 | |
| *Quercus wislizeni* | | | 37.420.01 | |
| *Quercus wislizeni - Arctostaphylos glandulosa* | | | 37.420.02 | |
| *Quercus wislizeni - Ceanothus leucodermis* | | | 37.403.01 | |
| *Quercus wislizeni - Ceanothus leucodermis - Arctostaphylos glandulosa* | | | 37.403.02 | |
| *Quercus wislizeni - Ceanothus leucodermis / Pinus coulteri* | | | 37.403.03 | |
| *Quercus wislizeni - Cercocarpus montanus* | | | 37.420.03 | |
| *Quercus wislizeni - Cercocarpus montanus - Adenostoma sparsifolium* | | | 37.420.04 | |
| *Quercus wislizeni - Quercus berberidifolia* | | | 37.404.01 | |
| *Quercus wislizeni - Quercus berberidifolia - Fraxinus dipetala* | | | 37.404.02 | |
| *Quercus wislizeni - Quercus chrysolepis shrub* | | | 37.402.01 | |
| Riversidian Upland Sage Scrub | | G3 S3.1 | | *CTT32710CA |
| Riversidian Alluvial Fan Sage Scrub | | G1 S1.1 | | *CTT32720CA |

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| Riversidian Desert Scrub | | G3 S3.1 | *CTT32730CA |
| Diegan Coastal Sage Scrub | | G3 S3.1 | *CTT32500CA |
| Venturan Coastal Sage Scrub | | G3 S3.1 | *CTT32300CA |
| Diablan Sage Scrub | | G3 S3.3 | *CTT32600CA |
| *Artemisia californica* (California sagebrush scrub) Alliance | California sagebrush scrub | G5 S5 | 32.010.00 |
| *Artemisia californica* | | | 32.010.01 |
| *Artemisia californica - Malosma laurina* | | | 45.455.02 |
| *Artemisia californica - Baccharis pilularis / Leymus condensatus* | | | 32.010.15 |
| *Artemisia californica - Ceanothus ferrisiae* | | | 32.010.08 |
| *Artemisia californica - Diplacus aurantiacus* | | | 32.010.11 |
| *Artemisia californica - Eriogonum cinereum* | | | 32.010.07 |
| *Artemisia californica - Keckiella cordifolia* | | | 32.010.03 |
| *Artemisia californica - Lepidospartum squamatum* | | | 32.010.09 |
| *Artemisia californica - Lotus scoparius* | | | 32.010.02 |
| *Artemisia californica - Malosma laurina* | | | 32.010.10 |
| *Artemisia californica - Salvia leucophylla* | | | 32.010.04 |
| *Artemisia californica / Amsinckia menziesii* | | | 32.010.12 |
| *Artemisia californica / Eschscholzia californica* | | | 32.010.13 |
| *Artemisia californica / Leymus condensatus* | | | 32.010.14 |
| *Artemisia californica - Eriogonum fasciculatum* (California sagebrush - California buckwheat scrub) Alliance | California sagebrush - California buckwheat | G4 S4 | 32.110.00 |
| *Artemisia californica - Eriogonum fasciculatum* | | | 32.110.05 |
| *Artemisia californica - Eriogonum fasciculatum - Ephedra californica* | | | 32.110.07 |
| *Artemisia californica - Eriogonum fasciculatum - Malosma laurina* | | | 32.110.06 |
| *Artemisia californica - Eriogonum fasciculatum - Rhus ovata* | | | 32.110.01 |
| *Artemisia californica - Eriogonum fasciculatum - Salvia apiana* | | | 32.110.02 |
| *Artemisia californica - Eriogonum fasciculatum - Salvia leucophylla* | | | 32.110.03 |
| *Artemisia californica - Eriogonum fasciculatum - Salvia mellifera* | | | 32.110.04 |
| *Artemisia californica - Salvia mellifera* (California sagebrush - black sage scrub) Alliance | California sagebrush - black sage scrub | G4 S4 | 32.120.00 |
| *Artemisia californica - Salvia mellifera* | | | 32.120.01 |
| *Artemisia californica - Salvia mellifera - Baccharis sarothroides* | | | 32.120.03 |
| *Diplacus aurantiacus* (Bush monkeyflower scrub) Alliance | Bush monkeyflower scrub | G3 S3? | *32.082.00 |
| *Diplacus aurantiacus* | | | *32.082.01 |
| *Encelia californica* (California brittle bush scrub) Alliance | California brittle bush scrub | G4 S3 | *32.050.00 |
| *Encelia californica* | | | *32.050.02 |
| *Encelia californica - Artemisia californica* | | | *32.050.01 |
| *Encelia californica - Artemisia californica - Salvia mellifera - Baccharis pilularis* | | | *32.050.03 |
| *Encelia californica - Eriogonum cinereum* | | | *32.050.04 |
| *Encelia californica - Malosma laurina - Salvia mellifera* | | | *32.050.05 |
| *Encelia californica - Rhus integrifolia* | | | *32.050.06 |
| *Eriogonum cinereum* (Ashy buckwheat scrub) Alliance | Ashy buckwheat scrub | G3 S3 | *32.035.00 |
| *Eriogonum cinereum* | | | *32.035.01 |
| *Eriogonum heermannii* (Heermann's buckwheat patches) Provisional Alliance | Heermann's buckwheat patches | G2 S2? | *32.035.00 |
| *Eriogonum fasciculatum* (California buckwheat scrub) Alliance | California buckwheat scrub | G5 S5 (some associations are of high priority for | 32.040.00 |
| *Eriogonum fasciculatum* | | | 32.040.02 |
| *Eriogonum fasciculatum - (Lepidospartum squamatum) alluvial fan* | | | *32.070.01 |
| *Eriogonum fasciculatum - Ambrosia dumosa* | | | 32.040.05 |
| *Eriogonum fasciculatum - Artemisia tridentata* | | | *32.040.03 |
| *Eriogonum fasciculatum - Bebbia juncea* | | | 32.040.08 |
| *Eriogonum fasciculatum - Cylindropuntia californica* | | | 32.040.10 |
| *Eriogonum fasciculatum - Encelia farinosa* | | | 32.040.18 |
| *Eriogonum fasciculatum - Gutierrezia sarothrae* | | | 32.040.09 |
| *Eriogonum fasciculatum - Lotus scoparius* | | | 32.040.19 |
| *Eriogonum fasciculatum - Rhus ovata* | | | 32.040.11 |
| *Eriogonum fasciculatum - Salazaria mexicana* | | | 32.040.06 |
| *Eriogonum fasciculatum - Salvia mellifera* | | | 32.040.17 |
| *Eriogonum fasciculatum - Salvia mellifera - Malosma laurina* | | | 32.040.07 |
| *Eriogonum fasciculatum - Scrophularia californica - Phacelia ramosissima* | | | 32.040.01 |
| *Eriogonum fasciculatum - Simmondsia chinensis - Cylindropuntia californica* | | | 32.040.12 |
| *Eriogonum fasciculatum var. foliolosum - Hesperoyucca whipplei* | | | 32.040.16 |
| *Eriogonum fasciculatum var. foliolosum - Juniperus californica* | | | 32.040.13 |
| *Eriogonum fasciculatum var. polifolium / Eriastrum pluriflorum* | | | 32.040.15 |
| *Eriogonum fasciculatum - Salvia apiana* (California buckwheat - white sage scrub) Alliance | California buckwheat - white sage scrub | G4 S4 (some associations are of high priority for | 32.100.00 |
| *Eriogonum fasciculatum - Salvia apiana* | | | *32.100.01 |
| *Deinandra clementina - Eriogonum giganteum* (Island buckwheat - Island tar plant scrub) Provisional Alliance | Island buckwheat - Island tar plant scrub | G3? S3? | *43.110.00 |
| *Eriogonum wrightii* (Wright's buckwheat patches) Alliance | Wright's buckwheat patches | G3 S3 | *32.041.00 |
| *Eriogonum wrightii - Eriophyllum confertiflorum / Monardella antonina ssp. benitensis* | | | *32.041.01 |
| *Eriogonum wrightii - Juniperus californica* | | | *32.041.02 |
| *Eriogonum wrightii - Lessingia filaginifolia* | | | *32.041.03 |
| *Keckiella antirrhinoides* (Bush penstemon scrub) Alliance | Bush penstemon scrub | G3 S3 | *32.065.00 |
| *Keckellia antirrhinoides* | | | *32.065.01 |

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| *Keckellia antirrhinoides - Artemisia californica* | | | *32.065.02 | |
| *Keckellia antirhinoides - Eriogonum fasciculatum* | | | *32.065.03 | |
| *Keckiella antirrhinoides - Mixed Chaparral* | | | *32.065.04 | |
| *Salvia apiana* (White sage scrub) Alliance | White sage scrub | G4 S3 | *32.030.00 | |
| *Salvia apiana - Artemisia californica* | | | *32.030.01 | |
| *Salvia apiana - Encelia farinosa* | | | *32.030.02 | |
| *Salvia apiana - Hesperoyucca whipplei* | | | *32.030.03 | |
| *Salvia leucophylla* (Purple sage scrub) Alliance | Purple sage scrub | G4 S4 | 32.090.00 | |
| *Salvia leucophylla* | | | 32.090.03 | |
| *Salvia leucophylla - Artemisia californica* | | | 32.090.01 | |
| *Salvia leucophylla - Artemisia californica - Eriogonum cinereum / Nassella spp.* | | | 32.090.04 | |
| *Salvia leucophylla - Eriogonum cinereum / annual herb* | | | 32.090.05 | |
| *Salvia leucophylla - Malosma laurina* | | | 32.090.02 | |
| *Salvia mellifera* (Black sage scrub) Alliance | Black sage scrub | G4 S4 (some associations are of high priority for | 32.020.00 | |
| *Salvia mellifera* | | | 32.020.03 | |
| *Salvia mellifera - Encelia californica* | | | 32.020.04 | |
| *Salvia mellifera - Eriogonum cinereum* | | | *32.020.08 | |
| *Salvia mellifera - Eriogonum fasciculatum / Bromus rubens* | | | 32.020.06 | |
| *Salvia mellifera - Eriogonum fasciculatum var. foliolosum - Eriodictyon tomentosum* | | | 32.020.07 | |
| *Salvia mellifera - Lotus scoparius* | | | 32.020.09 | |
| *Salvia mellifera - Malosma laurina* | | | 32.020.01 | |
| *Salvia mellifera - Opuntia littoralis* | | | *32.020.05 | |
| *Salvia mellifera - Rhus ovata* | | | 32.020.11 | |
| *Dendromecon rigida* (Bush poppy scrub) Alliance | Bush poppy scrub | G4 S4 | 37.750.00 | |
| *Dendromecon rigida* | | | 37.750.01 | |
| Upper Sonoran Subshrub Scrub | | G4 S3.2 | | CTT39000CA |
| *Ericameria linearifolia* (Narrowleaf goldenbush scrub) Provisional Alliance | Narrowleaf goldenbush scrub | G3 S3? | *38.125.00 | |
| *Ericameria palmeri* (Palmer's goldenbush scrub) Provisional Alliance | Palmer's goldenbush scrub | G3 S3? | *38.130.00 | |
| *Gutierrezia californica* (California match weed patches) Provisional Alliance | California match weed patches | G3? S3? | *32.042.00 | |
| *Gutierrezia californica / Annual - perennial grass - herb* | | | *32.042.01 | |
| *Hazardia squarrosa* (Sawtooth golden bush scrub) Alliance | Sawtooth golden bush scrub | G3 S3 | *32.055.00 | |
| *Hazardia squarrosa - Artemisia californica* | | | *32.055.02 | |
| *Hazardia squarrosa / Nassella pulchra - Deinandra fasciculata* | | | *32.055.01 | |
| *Isocoma menziesii* (Menzies's golden bush scrub) Alliance | Menzies's golden bush scrub | G4? S4? (some associations are of high priority for | 32.044.00 | |
| *Isocoma menziesii - Lupinus albifrons* | | | 32.044.03 | |
| *Isocoma menziesii / Astragalus miguelensis - Atriplex californica - Lasthenia californica* | | | *32.044.01 | |
| *Isocoma menziesii / Distichlis spicata - Paraphalis incurva* | | | 32.044.02 | |
| *Lotus scoparius* (Deer weed scrub) Alliance | Deer weed scrub | G5 S5 | 52.240.00 | |
| *Lotus scoparius* | | | 52.240.01 | |
| *Lupinus albifrons* (Silver bush lupine scrub) Alliance | Silver bush lupine scrub | G4 S4 | 32.081.00 | |
| *Lupinus albifrons* | | | 32.081.01 | |
| *Lupinus albifrons - Senecio flaccidus var. douglasii* | | | 32.081.03 | |
| *Lupinus albifrons coastal* | | | 32.081.02 | |
| *Malacothamnus fasciculatus* (Bush mallow scrub) Alliance | Bush mallow scrub | G4 S4 | 45.450.00 | |
| *Malacothamnus fasciculatus* | | | 45.450.01 | |
| *Malacothamnus fasciculatus - Ceanothus megacarpus* | | | 45.450.02 | |
| *Malacothamnus fasciculatus - Ceanothus spinosus* | | | 45.450.03 | |
| *Malacothamnus fasciculatus - Malosma laurina* | | | 45.450.04 | |
| *Malacothamnus fasciculatus - Salvia leucophylla* | | | 45.450.05 | |
| *Malacothamnus fasciculatus - Salvia mellifera* | | | 45.450.06 | |
| *Broom (Cytisus scoparius and Others)* (Broom patches) Semi-natural Stands | Broom patches | | 32.180.00 | |
| *Genista monspessulana* | | | 32.180.01 | |
| *Spartium junceum* | | | *32.180.02 | |
| Native Grassland | | G3 S3.1 | | *CTT42100CA |
| Serpentine Bunchgrass | | G2 S2.2 | | *CTT42130CA |
| *Ambrosia psilostachya* (Western ragweed meadows) Provisional Alliance | Western ragweed meadows | G4 S4? | 33.065.00 | |
| *Amsinckia (menziesii, tessellata)* (Fiddleneck fields) Alliance | Fiddleneck fields | G4 S4 | 42.110.00 | |
| *Amsinckia menziesii - Erodium spp.* | | | 42.110.01 | |
| *Amsinckia menziesii - Vulpia bromoides - Plagiobothrys canescens* | | | 42.110.02 | |
| *Artemisia dracunculus* (Wild tarragon patches) Alliance | Wild tarragon patches | G4 S4 | 35.160.00 | |
| *Artemisia dracunculus* | | | 35.160.01 | |
| *Artemisia dracunculus - Pseudognaphalium canescens* | | | 35.160.02 | |
| *Eschscholzia (californica)* (California poppy fields) Alliance | California poppy fields | G4 S4 | 43.200.00 | |
| Wildflower Field | | G2 S2.2 | | *CTT42300CA |
| *Eschscholzia californica* | | | 43.200.01 | |
| *Lasthenia californica - Plantago erecta - Vulpia microstachys* (California goldfields - Dwarf plantain - Six-weeks fescue flo | California goldfields - Dwarf plantain - Six-w | G4 S4 (some associations are of high priority for | 44.108.00 | |
| *Lasthenia californica* | | | 44.109.03 | |
| *Lasthenia californica - Atriplex coronata var. notatior* | | | *44.109.01 | |
| *Lasthenia californica - Lupinus bicolor - Layia platyglossa - Bromus spp.* | | | *44.109.04 | |
| *Lasthenia californica - Plantago erecta - Hesperevax sparsiflora* | | | *44.108.01 | |

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|---|---|---|---|---|---|
| *Lasthenia ferrisiae - Lasthenia conjugens* | | | *52.500.05 | | |
| *Plantago erecta - Lolium perenne lichen-rocky* | | | 44.108.02 | | |
| *Vulpia microstachys - Elymus elymoides - Achnatherum lemmonii* | | | 44.108.08 | | |
| *Vulpia microstachys - Lasthenia californica - Agrostis elliottiana* | | | 44.109.05 | | |
| *Vulpia microstachys - Mimulus guttatus - Pentagramma triangularis* | | | 44.108.05 | | |
| *Vulpia microstachys - Navarretia tagetina* | | | 44.108.09 | | |
| *Vulpia microstachys - Parvisedum pumilum - Lasthenia californica* | | | 44.109.06 | | |
| *Vulpia microstachys - Plantago erecta* | | | 44.108.04 | | |
| *Vulpia microstachys - Plantago erecta - Calycadenia (truncata, multiglandulosa)* | | | 44.108.03 | | |
| *Vulpia microstachys - Selaginella hansenii* | | | 44.108.10 | | |
| *Vulpia microstachys - Selaginella hansenii - Lupinus nanus* | | | 44.108.11 | | |
| *Vulpia microstachys - Selaginella hansenii - Lupinus spectabilis* | | | 44.108.07 | | |
| *Lotus purshianus* (Spanish clover fields) Provisional Alliance | Spanish clover fields | G4? S4? | 52.230.00 | | |
| *Plagiobothrys nothofulvus* (Popcorn flower fields) Alliance | Popcorn flower fields | G4 S4 | 43.300.00 | | |
| *Plagiobothrys nothofulvus - Daucus pusillus - Bromus hordeaceus* | | | 43.300.01 | | |
| *Leymus condensatus* (Giant wild rye grassland) Alliance | Giant wild rye grassland | G3 S3 | *41.265.00 | | |
| *Leymus condensatus* | | | *41.265.01 | | |
| *Melica torreyana* (Torrey's melic grass patches) Provisional Alliance | Torrey's melic grass patches | G2 S2? | *41.275.00 | | |
| *Melica torreyana* | | | *41.275.01 | | |
| *Nassella cernua* (Nodding needle grass grassland) Provisional Alliance | Nodding needle grass grassland | G4 S3? | *41.140.00 | | |
| *Nassella lepida* (Foothill needle grass grassland) Provisional Alliance | Foothill needle grass grassland | G3? S3? | *41.110.00 | | |
| *Nassella pulchra* (Purple needle grass grassland) Alliance | Purple needle grass grassland | G4 S3? | *41.150.00 | | |
| Valley Needlegrass Grassland | | G3 S3.1 | | *CTT42110CA | |
| *Nassella pulchra* | | | *41.150.04 | | |
| *Nassella pulchra - Avena fatua* | | | *41.150.02 | | |
| *Nassella pulchra - Avena spp. - Bromus spp.* | | | *41.150.05 | | |
| *Nassella pulchra - Distichlis spicata - Bromus spp.* | | | *41.150.10 | | |
| *Nassella pulchra - Erodium spp. - Avena barbata* | | | *41.150.06 | | |
| *Nassella pulchra - Leontodon taraxicoides* | | | *41.150.11 | | |
| *Nassella pulchra - Lolium perenne (-Trifolium spp.)* | | | *41.150.01 | | |
| *Nassella pulchra - Lolium perenne - Astragalus gambelianus - Lepidium nitidum* | | | *41.150.12 | | |
| *Nassella pulchra - Lolium perenne - Calystegia collina* | | | *41.150.13 | | |
| *Nassella pulchra - Melica californica - annual grass* | | | *41.150.09 | | |
| *Nassella pulchra - Sanicula bipinnatifida* | | | *41.150.03 | | |
| *Nassella pulchra / Baccharis pilularis* | | | *41.150.14 | | |
| *Nassella pulchra / Hazardia squarrosa* | | | *41.150.07 | | |
| *Aegilops triuncialis* (Barbed goatgrass patches) Provisional Semi-natural Stands | Barbed goatgrass patches | | 42.003.00 | | Invasive sp ranking: Cal-IPC High |
| *Aegilops triuncialis - Hemizonia congesta* | | | 42.003.01 | | |
| *Avena (barbata, fatua)* (Wild oats grasslands) Semi-natural Stands | Wild oats grasslands | | 44.150.00 | | |
| *Avena barbata* | | | 44.150.01 | | |
| *Avena barbata - Avena fatua* | | | 44.150.02 | | |
| *Avena barbata - Bromus hordeaceus* | | | 44.150.03 | | |
| *Avena fatua* | | | 44.150.04 | | |
| *Brassica nigra and other mustards* (Upland mustards) Semi-natural Stands | Upland mustards | | 42.011.00 | | |
| *Brassica nigra* | | | 42.011.01 | | |
| *Brassica nigra - Bromus diandrus* | | | 42.011.02 | | |
| *Brassicas tournefortii / Ambrosia dumosa* | | | 42.011.03 | | |
| *Raphanus sativus* | | | 42.011.04 | | |
| Non Native Grassland | | G4 S4 | | CTT42200CA | |
| *Bromus (diandrus, hordeaceus) - Brachypodium distachyon* (Annual brome grasslands) Semi-natural Stands | Annual brome grasslands | | 42.026.00 | | |
| *Brachypodium distachyon* | | | 42.040.03 | | |
| *Bromus diandrus* | | | 42.026.21 | | |
| *Bromus diandrus - Avena spp.* | | | 42.026.22 | | |
| *Bromus diandrus - Mixed herbs* | | | 42.026.11 | | |
| *Bromus hordeaceus - Aira caryophyllea* | | | 42.026.20 | | |
| *Bromus hordeaceus - Amsinckia menziesii - Hordeum murinum* | | | 42.026.23 | | |
| *Bromus hordeaceus - Bromus tectorum* | | | 42.026.08 | | |
| *Bromus hordeaceus - Dichelostemma multiflorum* | | | 42.026.10 | | |
| *Bromus hordeaceus - Erodium botrys* | | | 42.026.09 | | |
| *Bromus hordeaceus - Erodium botrys - Plagiobothrys fulvus* | | | 42.026.13 | | |
| *Bromus hordeaceus - Holocarpha virgata - Lolium perenne* | | | 42.026.15 | | |
| *Bromus hordeaceus - Holocarpha virgata - Taeniatherum caput - medusa* | | | 42.026.14 | | |
| *Bromus hordeaceus - Leontodon taraxacoides* | | | 42.026.17 | | |
| *Bromus hordeaceus - Limnanthes douglasii* | | | 42.026.16 | | |
| *Bromus hordeaceus - Lupinus nanus - Trifolium spp.* | | | 42.026.18 | | |
| *Bromus hordeaceus - Taeniatherum caput - medusae* | | | 42.026.07 | | |
| *Bromus hordeaceus - Vulpia hirsuta* | | | 42.026.02 | | |
| *Bromus hordeaceus (-Vicia villosa - Lolium multiflorum) - Trifolium hirtum* | | | 42.026.19 | | |
| *Bromus rubens* | | | 42.024.01 | | |
| *Bromus rubens - mixed herbs* | | | 42.024.02 | | |

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| *Bromus rubens - Schismus (arabicus, barbatus)* (Red brome or Mediterranean grass grasslands) Semi-natural Stands | Red brome or Mediterranean grass grasslands | | 42.024.00 | |
| *Schimus playa* | | | 42.024.03 | |
| *Centaurea (solstitialis, meletensis)* (Yellow star-thistle fields) Semi-natural Stands | Yellow star-thistle fields | | 42.042.00 | |
| *Centaurea melitensis - Brassica nigra* | | | 42.042.01. | |
| *Centaurea solstitialis* | | | 42.042.02. | |
| *Centaurea spp. - Brachypodium distachyon.* | | | 42.040.04. | |
| *Centaurea (virgata)* (Knapweed and purple-flowered star-thistle fields) Provisional Semi-natural Stands | Knapweed and purple-flowered star-thistle fields | | 42.043.00 | |
| *Conium maculatum - Foeniculum vulgare* (Poison hemlock or fennel patches) Semi-natural Stands | Poison hemlock or fennel patches | | 45.556.00 | |
| *Conium maculatum* | | | 45.556.01 | |
| *Foeniculum vulgare* | | | 45.556.02 | |
| *Cortaderia (jubata, selloana)* (Pampas grass patches) Semi-natural Stands | Pampas grass patches | | 42.070.00 | |
| *Cynosurus echinatus* (Annual dogtail grasslands) Semi-natural Stands | Annual dogtail grasslands | | 42.044.00 | Invasive sp ranking: Cal-IPC: Moderate |
| *Cynosurus echinatus - Arrhenatherum elatius / Dichelostemma capitatum* | | | 42.044.07 | |
| *Cynosurus echinatus - Bromus hordeaceus - Avena fatua* | | | 42.044.01 | |
| *Cynosurus echinatus - Bromus hordeaceus - Madia elegans* | | | 42.044.02 | |
| *Cynosurus echinatus - Bromus hordeaceus - Taeniatherum caput-medusae* | | | 42.044.04 | |
| *Cynosurus echinatus - Bromus hordeaceus - Taraxacum officinale* | | | 42.044.03 | |
| *Cynosurus echinatus - Lagophylla ramosissima* | | | 42.044.05 | |
| *Lolium perenne* (Perennial rye grass fields) Semi-natural Stands | Perennial rye grass fields | | 41.321.00 | Invasive sp ranking: Cal-IPC rank: Mode |
| *Lolium perenne* | | | 41.321.01 | |
| *Lolium perenne - Bromus hordeaceus* | | | 41.321.02 | |
| *Lolium perenne - Centaurium muehlenbergii* | | | 41.321.03 | |
| *Lolium perenne - Convolvulus arvensis* | | | 41.321.08 | |
| *Lolium perenne - Festuca arundinacea* | | | 41.321.09 | |
| *Lolium perenne - Hemizonia congesta* | | | 41.321.04 | |
| *Lolium perenne - Hordeum marinum - Ranunculus californicus* | | | 41.321.05 | |
| *Lolium perenne - Lepidium latifolium* | | | 41.321.10 | |
| *Lolium perenne - Leymus triticoides* | | | 41.321.06 | |
| *Lolium perenne - Lotus corniculatus* | | | 41.321.11 | |
| *Zigadenus fremontii ( - Lolium perenne)* | | | 41.321.12 | |
| *Pennisetum setaceum* (Fountain grass swards) Semi-natural Stands | Fountain grass swards | | 42.085.00 | |
| *Pennisetum setaceum - Coreopsis gigantea - Hesperoyucca whipplei - Malosma laurina* | | | 42.085.01 | |
| *Carex douglasii* (Douglas' sedge meadows) Provisional Alliance | Douglas' sedge meadows | G4? S2? | *45.169.00 | |
| *Iris missouriensis* (Western blue flag patches) Provisional Alliance | Western blue flag patches | G5 S4 | 45.401.00 | |
| *Muhlenbergia filiformis* (Pullup muhly meadows) Provisional Alliance | Pullup muhly meadows | G4? S4? | 41.276.00 | |
| *Phyllodoce empetriformis* (Mountain heather mats) Provisional Alliance | Mountain heather mats | G5 S2? | *45.404.00 | |
| *Veratrum californicum* (White corn lily patches) Alliance | White corn lily patches | G5 S4 | 45.423.00 | |
| *Veratrum californicum* | | | 45.423.02 | |
| *Veratrum californicum - Bistorta bistortoides* | | | 45.423.03 | |
| *Veratrum californicum - Juncus nevadensis* | | | 45.423.04 | |
| *Veratrum californicum - Senecio triangularis* | | | 45.423.01 | |
| *Carex heteroneura* (Different-nerve sedge patches) Provisional Alliance | Different-nerve sedge patches | G3? S3? | *45.115.00 | |
| *Carex heteroneura - Achillea millefolium* | | | *45.115.01 | |
| *Carex integra* (Small-fruited sedge meadows) Provisional Alliance | Small-fruited sedge meadows | G4? S2? | *45.175.00 | |
| *Carex jonesii* (Jones's sedge turf) Alliance | Jones's sedge turf | G4 S3 | *45.162.00 | |
| *Carex jonesii* | | | *45.162.02 | |
| *Carex jonesii - Bistorta bistortoides* | | | *45.162.01 | |
| *Carex jonesii / Sphagnum subsecundum* | | | *45.162.03 | |
| *Carex lasiocarpa* (Slender sedge meadows) Provisional Alliance | Slender sedge meadows | G5? S3? | *45.166.00 | |
| *Carex lasiocarpa* | | | *45.166.01 | |
| *Carex luzulina* (Woodland sedge fens) Provisional Alliance | Woodland sedge fens | G3 S2? | *45.179.00 | |
| *Carex microptera* (Small-winged sedge meadows) Provisional Alliance | Small-winged sedge meadows | G4 S2? | *45.181.00 | |
| *Carex nebrascensis* (Nebraska sedge meadows) Alliance | Nebraska sedge meadows | G5 S4 | 45.130.00 | |
| *Carex nebrascensis* | | | 45.130.01 | |
| *Carex nebrascensis - Ptilagrostis kingii* | | | 45.130.02 | |
| *Carex simulata* (Short-beaked sedge meadows) Alliance | Short-beaked sedge meadows | G4 S3 | *45.190.00 | |
| *Carex simulata* | | | *45.190.01 | |
| *Carex simulata - Carex utriculata* | | | *45.190.04 | |
| *Carex simulata - Carex vesicaria* | | | *45.190.05 | |
| *Carex simulata / Aulacomnium palustre* | | | *45.190.02 | |
| *Carex simulata / Philonotis fontana* | | | *45.190.03 | |
| *Carex straminiformis* (Mount Shasta sedge meadows) Provisional Alliance | Mount Shasta sedge meadows | G3? S3? | *45.185.00 | |
| *Carex subnigricans* (Dark alpine sedge turf) Alliance | Dark alpine sedge turf | G4 S3 | *45.186.00 | |
| *Carex subnigricans - Antennaria media* | | | *45.186.01 | |
| *Carex subnigricans - Deschampsia caespitosa* | | | *45.186.05 | |
| *Carex subnigricans - Dodecatheon alpinum* | | | *45.186.03 | |
| *Carex subnigricans - Oreostemma alpigenum* | | | *45.186.02 | |
| *Carex vernacula - Antennaria media* | | | 45.110.22 | |
| *Carex subnigricans - Pedicularis attollens* | | | *45.186.04 | |
| *Deschampsia caespitosa* (Tufted hair grass meadows) Alliance | Tufted hair grass meadows | G5 S4? (some associations are of high priority for | 41.220.00 | |

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| *Deschampsia caespitosa* | | | *41.220.08 | | |
| *Deschampsia caespitosa - Anthoxanthum odoratum* | | | *41.220.05 | | |
| *Deschampsia caespitosa - Bistorta bistortoides* | | | 41.220.12 | | |
| *Deschampsia caespitosa - Cardamine breweri* | | | *41.220.02 | | |
| *Deschampsia caespitosa - Carex nebrascensis* | | | 41.220.01 | | |
| *Deschampsia caespitosa - Danthonia californica* | | | 41.220.09 | | |
| *Deschampsia caespitosa - Horkelia marinensis* | | | *41.220.13 | | |
| *Deschampsia caespitosa - Lilaeopsis masonii* | | | *41.220.14 | | |
| *Deschampsia caespitosa - Perideridia parishii* | | | 41.220.11 | | |
| *Deschampsia caespitosa - Senecio scorzonella* | | | 41.220.03 | | |
| *Deschampsia caespitosa - Senecio scorzonella - Achillea millefolium* | | | 41.220.04 | | |
| *Deschampsia caespitosa - Solidago multiradiata* | | | 41.220.07 | | |
| *Deschampsia caespitosa - Trifolium longipes* | | | *41.220.10 | | |
| *Deschampsia caespitosa var. holciformis* | | | *41.220.15 | | |
| *Juncus nevadensis* (Sierra rush marshes) Alliance | Sierra rush marshes | G3? S3? | *45.567.00 | | |
| *Juncus nevadensis* | | | *45.567.01 | | |
| *Juncus nevadensis - Carex leporinella* | | | *45.567.02 | | |
| *Juncus nevadensis - Eleocharis quinqueflora* | | | *45.567.03 | | |
| *Solidago canadensis* (Canada goldenrod patches) Provisional Alliance | Canada goldenrod patches | G4? S4? | 45.420.00 | | |
| *Trifolium longipes* (Long-stalk clover meadows) Provisional Alliance | Long-stalk clover meadows | G3? S3? | *45.426.00 | | |
| *Aristida purpurea* (Purple three-awn meadows) Provisional Alliance | Purple three-awn meadows | G4 S3? | *45.425.00 | | |
| *Elymus glaucus* (Blue wild rye meadows) Alliance | Blue wild rye meadows | G3? S3? | *41.640.00 | | |
| *Elymus glaucus* | | | *41.640.01 | | |
| *Elymus glaucus - Carex feta* | | | *41.640.03 | | |
| *Elymus glaucus - Carex pellita* | | | *41.640.02 | | |
| *Elymus glaucus - Heracleum lanatum* | | | *41.640.04 | | |
| *Elymus multisetus* (Big squirreltail patches) Provisional Alliance | Big squirreltail patches | G4 S4? | 41.650.00 | | |
| Bald Hills Prairie | | G2 S2.1 | | *CTT41200CA | |
| *Festuca idahoensis* (Idaho fescue grassland) Alliance | Idaho fescue grassland | G4 S3? | *41.250.00 | | |
| *Festuca idahoensis - Achillea millefolium* | | | *41.250.03 | | |
| *Festuca idahoensis - Bromus carinatus* | | | *41.250.01 | | |
| *Festuca idahoensis - Festuca rubra* | | | *41.250.02 | | |
| *Leymus cinereus* (Ashy ryegrass meadows) Alliance | Ashy ryegrass meadows | G4 S2 | *41.020.00 | | |
| *Poa secunda* (Curly blue grass grassland) Alliance | Curly blue grass grassland | G4 S3? | *41.180.00 | | |
| Pine Bluegrass Grassland | | G3 S2.2 | | *CTT42150CA | |
| *Poa secunda - Danthonia unispicata* | | | *41.180.04 | | |
| *Poa secunda ssp. juncifolia* | | | *41.180.03 | | |
| *Poa secunda ssp. secunda* | | | *41.180.02 | | |
| *Agrostis (gigantea, stolonifera) - Festuca arundinacea* (Bent grass - tall fescue meadows) Semi-natural Stands | Bent grass - tall fescue meadows | | 45.106.00 | | |
| *Agrostis gigantea* | | | 45.106.01 | | |
| *Agrostis stolonifera* | | | 45.106.02 | | |
| *Agrostis stolonifera - Festuca arundinacea* | | | 45.106.03 | | |
| *Holcus lanatus* | | | 42.050.08 | | |
| *Holcus lanatus - Anthoxanthum odoratum* | | | 42.050.09 | | |
| *Holcus lanatus - Anthoxanthum odoratum* (Common velvet grass - sweet vernal grass meadows) Semi-natural Stands | Common velvet grass - sweet vernal grass meadows | | 42.050.00 | | Invasive sp ranking: Cal-IPC: Moderate |
| *Phalaris aquatica* (Harding grass swards) Semi-natural Stands | Harding grass swards | | 42.051.00 | | Invasive sp ranking: Cal-IPC: Moderate. |
| *Phalaris aquatica* | | | 42.051.02 | | |
| *Phalaris aquatica - Avena barbata* | | | 42.051.03 | | |
| *Phalaris aquatica - Bromus hordeaceus - Centaurea solstitialis* | | | 42.051.01 | | |
| *Poa pratensis* (Kentucky blue grass turf) Semi-natural Stands | Kentucky blue grass turf | | 42.060.00 | | |
| *Poa pratensis* | | | 42.060.05 | | |
| *Poa pratensis - Carex (nebrascensis, pellita)* | | | 42.060.01 | | |
| *Poa pratensis - Juncus patens - Luzula comosa* | | | 42.060.04 | | |
| *Poa pratensis - Potentilla gracilis* | | | 42.060.02 | | |
| *Poa pratensis ssp. pratensis* | | | 42.060.07 | | |
| *Poa pratensis ssp.agassizensis* | | | 42.060.06 | | |
| *Bromus tectorum* (Cheatgrass grassland) Semi-natural Stands | Cheatgrass grassland | | 42.020.00 | | Invasive sp ranking: Cal-IPC High |
| *Bromus tectorum* | | | 42.020.01 | | |
| *Bromus tectorum - Bromus diandrus* | | | 42.020.02 | | |
| *Calamagrostis canadensis* (Bluejoint reed grass meadows) Alliance | Bluejoint reed grass meadows | G5 S3 | *41.224.00 | | |
| *Calamagrostis canadensis* | | | *41.224.01 | | |
| *Calamagrostis canadensis - Carex utriculata* | | | *41.224.02 | | |
| *Calamagrostis canadensis - Dodecatheon redolens* | | | *41.224.03 | | |
| *Calamagrostis canadensis - Scirpus microcarpus* | | | *41.224.04 | | |
| Dry Montane Meadow | | G4 S3.2 | | CTT45120CA | |
| *Cistanthe (umbellata) - Gayophytum (diffusum)* (Pussypaws - groundsmoke openings) Alliance | Pussypaws - groundsmoke openings | G4 S4 | 45.311.00 | | |
| *Astragalus bolanderi - (Cistanthe umbellatum)* | | | 45.311.01 | | |
| *Cistanthe umbellatum - Achnatherum occidentalis* | | | 45.311.02 | | |
| *Cistanthe - Castilleja arachnoidea* | | | 45.311.03 | | |
| *Polygonum douglasii - Gayophytum dffusum* | | | 45.311.04 | | |

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| *Danthonia intermedia* (Wild mountain oat grass meadows) Alliance | Wild mountain oat grass meadows | G4? S3? | *41.051.00 | |
| *Danthonia intermedia - Antennaria rosea* | | | *41.051.01 | |
| *Danthonia intermedia - Ptilagrostis kingii* | | | *41.051.02 | |
| *Hordeum brachyantherum* (Meadow barley patches) Alliance | Meadow barley patches | G4 S3? | *42.052.00 | |
| *Hordeum brachyantherum* | | | *42.052.01 | |
| *Hordeum brachyantherum - Poa pratensis* | | | *42.052.04 | |
| *Hordeum brachyantherum - Polypogon monspeliensis* | | | *42.052.02 | |
| *Hordeum brachyantherum - Senecio triangularis* | | | *42.052.03 | |
| *Muhlenbergia richardsonis* (Mat muhly meadows) Provisional Alliance | Mat muhly meadows | G4? S4? | 41.277.00 | |
| *Penstemon heterodoxus* (Heretic penstemon patches) Provisional Alliance | Heretic penstemon patches | G4? S3? | *45.414.00 | |
| *Antennaria alpina - Penstemon heterodoxus* | | | *91.120.02 | |
| *Ptilagrostis kingii* (King's needle grass meadows) Alliance | King's needle grass meadows | G4 S4 | 41.225.00 | |
| *Ptilagrostis kingii* | | | 41.225.01 | |
| *Ptilagrostis kingii - Oreostemma alpigenum* | | | 41.225.02 | |
| *Ptilagrostis kingii - Senecio scorzonella* | | | 91.120.25 | |
| *Holodiscus discolor* (Ocean spray brush) Alliance | Ocean spray brush | G4 S3 | *39.100.00 | |
| *Holodiscus discolor - Arctostaphylos patula* | | | *39.100.03 | |
| *Holodiscus discolor - Keckiella corymbosa* | | | *39.100.04 | |
| *Holodiscus discolor - Sambucus racemosa* | | | *39.100.06 | |
| *Holodiscus discolor / Achnatherum occidentalis - Eriogonum nudum* | | | *39.100.02 | |
| *Holodiscus discolor / Mimulus suksdorfii* | | | *39.100.01 | |
| *Holodiscus discolor / Sedum obsusatum ssp. boreale - Cryptogramma acrostichoides* | | | *39.100.05 | |
| *Juncus parryi* (Parry's rush outcrops) Alliance | Parry's rush outcrops | G4 S4 | 45.566.00 | |
| *Juncus parryi - Eriogonum incanum* | | | 45.566.01 | |
| *Penstemon newberryi* (Mountain pride patches) Alliance | Mountain pride patches | G4 S4 | 45.415.00 | |
| *Penstemon newberryi - Streptanthus tortuosus - Sedum obtusatum ssp. boreale - Muhlenbergia montana* | | | 45.415.03 | |
| *Penstemon newberryi - Streptanthus tortuosus / Selaginella watsonii* | | | 45.415.04 | |
| *Penstemon newberryi - Streptanthus tortuosus / Spiraea densiflora* | | | 45.415.02 | |
| *Phyllodoce breweri* (Mountain heather mats) Alliance | Mountain heather mats | G4 S4? | 45.402.00 | |
| *Phyllodoce breweri - Cassiope mertensiana - Juncus parryi* | | | 45.402.02 | |
| *Phyllodoce breweri - Juncus parryi* | | | 45.402.01 | |
| *Phyllodoce breweri - Vaccinium caespitosum* | | | 45.405.01 | |
| *Ceanothus integerrimus* (Deer brush chaparral) Alliance | Deer brush chaparral | G4 S4 | 37.206.00 | |
| Deer Brush Chaparral | | G4 S4 | | *CTT37531CA |
| *Ceanothus integerrimus* | | | 37.206.01 | |
| *Ceanothus integerrimus - Arctostaphylos viscida* | | | 37.206.04 | |
| *Ceanothus integerrimus - Quercus garryana var. fruticosa* | | | 37.206.05 | |
| *Ceanothus integerrimus / Lithocarpus densiflorus - Arbutus menziesii* | | | 37.206.03 | |
| *Ceanothus integerrimus / Quercus chrysolepis / Elymus glaucus* | | | 37.206.02 | |
| *Prunus emarginata* (Bitter cherry thickets) Provisional Alliance | Bitter cherry thickets | G4 S4 | 37.900.00 | |
| *Quercus garryana* (Brewer oak scrub) Alliance | Brewer oak scrub | G4 S4 | 37.411.00 | |
| Shin Oak Chaparral | | G3 S3.3 | | *CTT37541CA |
| *Quercus garryana shrub* | | | 37.411.03 | |
| *Quercus garryana / Festuca californica* | | | 37.411.04 | |
| *Quercus garryana - Arctostaphylos patula* | | | 37.411.05 | |
| *Quercus garryana - Cercocarpus montanus* | | | 37.411.06 | |
| *Artemisia cana* (Silver sagebrush scrub) Alliance | Silver sagebrush scrub | G5 S3 | *35.150.00 | |
| *Artemisia cana - Muhlenbergia richardsonis* | | | *35.150.06 | |
| *Artemisia cana / cold* | | | *35.150.01 | |
| *Artemisia cana / dry graminoid* | | | *35.150.02 | |
| *Artemisia cana / Iris missouriensis - Juncus arcticus var. balticus* | | | *35.150.05 | |
| *Artemisia cana / Juncus arcticus var. balticus* | | | *35.150.04 | |
| *Artemisia cana / mesic (Poa secunda - Poa cusickii)* | | | *35.150.07 | |
| *Artemisia cana / warm* | | | *35.150.03 | |
| *Rhus trilobata* (Basket bush thickets) Provisional Alliance | Basket bush thickets | G4 S3? | *37.802.00 | |
| *Prunus virginiana* (Choke cherry thickets) Provisional Alliance | Choke cherry thickets | G4 S2? | *37.905.00 | |
| *Ribes quercetorum* (Oak gooseberry thickets) Provisional Alliance | Oak gooseberry thickets | G2 S2? | *37.960.00 | |
| Coastal Terrace Prairie | | G2 S2.1 | | *CTT41100CA |
| *Calamagrostis nutkaensis* (Pacific reed grass meadows) Alliance | Pacific reed grass meadows | G4 S2 | *41.190.00 | |
| *Calamagrostis nutkaensis* | | | *41.190.03 | |
| *Calamagrostis nutkaensis - Baccharis pilularis* | | | *41.190.01 | |
| *Calamagrostis nutkaensis - Carex obnupta. - Juncus spp.* | | | *41.190.02 | |
| *Danthonia californica* (California oat grass prairie) Provisional Alliance | California oat grass prairie | G4 S3 | *41.050.00 | |
| *Danthonia californica* | | | *41.050.05 | |
| *Danthonia californiaca - Aira caryophyllea* | | | *41.050.04 | |
| *Danthonia californica - Arrhenatherum elatius* | | | *41.050.01 | |
| *Danthonia californica - Elymus elymoides* | | | *41.050.02 | |
| *Danthonia californica - Muhlenbergia filiformis* | | | *41.050.03 | |
| *Festuca rubra* (Red fescue grassland) Alliance | Red fescue grassland | G4 S3? | *41.255.00 | |
| *Festuca rubra* | | | *41.255.01 | |

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| *Corylus cornuta / Polystichum munitum* | | | *37.950.01 | | |
| *Corylus cornuta var. californica* (Hazelnut scrub) Alliance | Hazelnut scrub | G3 S2? | *37.950.00 | | |
| *Rubus (parviflorus, spectabilis, ursinus)* (Coastal brambles) Alliance | Coastal brambles | G4 S3 | *63.901.00 | | |
| *Gaultheria shallon - Rubus spectabiis - Rubus parviflorus* | | | *63.901.01 | | |
| *Rubus parviflorus* | | | *63.901.03 | | |
| *Rubus parviflorus - Rubus spectabilis - Rubus ursinus* | | | *63.901.02 | | |
| *Rubus spectabilis* | | | *63.901.04 | | |
| *Rubus ursinus* | | | *63.901.05 | | |
| *Toxicodendron diversilobum* (Poison oak scrub) Alliance | Poison oak scrub | G4 S4 | 37.940.00 | | |
| Poison Oak Chaparral | | G3 S3.3 | | *CTT37F00CA | |
| *Toxicodendron diversilobum - Artemisia californica / Leymus condensatus* | | | 37.940.02 | | |
| *Toxicodendron diversilobum - Baccharis pilularis - Rubus parviflorus* | | | 37.940.01 | | |
| *Toxicodendron diversilobum - Diplacus aurantiacus* | | | 37.940.03 | | |
| *Toxicodendron diversilobum - Philadelphus lewisii* | | | 37.940.04 | | |
| *Toxicodendron diversilobum / Bromus hordeaceus - Micropus californicus* | | | 37.940.05 | | |
| *Toxicodendron diversilobum / Bromus hordeaceus - Vicia villosa - Madia gracilis* | | | 37.940.06 | | |
| *Toxicodendron diversilobum / herbaceous* | | | 37.940.08 | | |
| *Toxicodendron diversilobum / Pteridium aquilinum* | | | 37.940.07 | | |
| *Rubus armeniacus* (Himalayan black berry brambles) Semi-natural Stands | Himalayan black berry brambles | | 63.906.00 | | Invasive Sp Ranking: Cal-IPC: High. |
| *Rubus armeniacus* | | | 63.906.01 | | |
| *Rubus armeniacus - Rubus ursinus* | | | 63.906.02 | | |
| Semi Desert Chaparral | | G3 S3.2 | | *CTT37400CA | |
| *Adenostoma sparsifolium* (Redshank chaparral) Alliance | Redshank chaparral | G4 S4 (some associations are of high priority for | 37.501.00 | | |
| Red Shank Chaparral | | G3 S3.2 | | *CTT37300CA | |
| *Adenostoma sparsifolium* | | | *37.501.01 | | |
| *Adenostoma sparsifolium - Adenostoma fasciculatum - Arctostaphylos glauca* | | | 37.503.05 | | |
| *Adenostoma sparsifolium - Adenostoma fasciculatum - Arctostaphylos pungens* | | | *37.503.03 | | |
| *Adenostoma sparsifolium - Adenostoma fasciculatum - Ceanothus crassifolius* | | | 37.503.04 | | |
| *Adenostoma sparsifolium - Adenostoma fasciculatum - Ceanothus greggii* | | | *37.503.02 | | |
| *Adenostoma sparsifolium - Adenostoma fasciculatum - Cercocarpus montanus* | | | *37.503.01 | | |
| *Adenostoma sparsifolium - Adenostoma fasciculatum - Opuntia parryi* | | | 37.503.06 | | |
| *Adenostoma sparsifolium - Artemisia tridentata* | | | 37.501.02 | | |
| *Adenostoma sparsifolium - Ceanothus crassifolius* | | | 37.501.03 | | |
| *Adenostoma sparsifolium - Ceanothus cuneatus* | | | 37.501.04 | | |
| *Adenostoma sparsifolium - Cercocarpus montanus* | | | 37.502.01 | | |
| *Adenostoma sparsifolium - Ericameria linearifolia - Eriogonum fasciculatum - Opuntia basilaris* | | | 37.501.06 | | |
| *Adenostoma sparsifolium - Eriogonum fasciculatum - Lotus scoparius* | | | 37.501.07 | | |
| *Quercus cornelius-mulleri* (Muller oak chaparral) Alliance | Muller oak chaparral | G4 S4 | 37.415.00 | | |
| *Quercus cornelius-mulleri - Adenostoma sparsifolium - Ceanothus greggii* | | | 37.415.04 | | |
| *Quercus cornelius-mulleri - Adenostoma sparsifolium - Cercocapus montanus* | | | 37.415.05 | | |
| *Quercus cornelius-mulleri - Cercocapus montanus* | | | 37.415.03 | | |
| *Quercus cornelius-mulleri - Eriogonum fasciculatum - Ericameria linearifolia* | | | 37.415.02 | | |
| *Quercus cornelius-mulleri - Rhus ovata* | | | 37.415.01 | | |
| *Quercus cornelius-mulleri -Coleogyne ramosissima* | | | 37.415.06 | | |
| *Quercus john-tuckeri* (Tucker oak chaparral) Alliance | Tucker oak chaparral | G4 S4 | 37.418.00 | | |
| Alvord Oak Woodland | | G2 S2.2 | | *CTT71170CA | |
| *Quercus john-tuckeri* | | | 37.418.04 | | |
| *Quercus john-tuckeri - Adenostoma fasciculatum* | | | 37.418.01 | | |
| *Quercus john-tuckeri - Juniperus californica - Ericameria linearifolia* | | | 37.418.05 | | |
| *Quercus john-tuckeri - Juniperus californica - Fraxinus dipetala* | | | 37.418.02 | | |
| *Quercus john-tuckeri - Quercus wislizeni - Garrya flavescens* | | | 37.418.03 | | |
| *Ceanothus greggii* (Cup leaf ceanothus chaparral) Alliance | Cup leaf ceanothus chaparral | G4 S3 | *37.212.00 | | |
| *Ceanothus greggii* | | | *37.212.01 | | |
| *Ceanothus greggii - Adenostoma fasciculatum* | | | *37.212.03 | | |
| *Quercus turbinella* (Sonoran live oak scrub) Alliance | Sonoran live oak scrub | G4 S1 | *71.095.00 | | |
| *Quercus turbinella - Baccharis sergiloides* | | | *71.095.02 | | |
| *Quercus turbinella / Pinus monophylla* | | | *71.095.01 | | |
| *Rhus ovata* (Sugarbush chaparral) Alliance | Sugarbush chaparral | G4 S4 (some associations are of high priority for | 37.801.00 | | |
| *Rhus ovata* | | | 37.801.01 | | |
| *Rhus ovata - Salvia leucophylla - Artemisia californica* | | | 37.801.02 | | |
| *Rhus ovata - Ziziphus parryi* | | | *37.801.03 | | |
| Mixed Montane Chaparral | | G4 S4 | | CTT37510CA | |
| *Ceanothus cordulatus* (Mountain white thorn chaparral) Alliance | Mountain white thorn chaparral | G4 S4 | 37.209.00 | | |
| *Ceanothus cordulatus* | | | 37.209.01 | | |
| *Chrysolepis sempervirens* (Bush chinquapin chaparral) Alliance | Bush chinquapin chaparral | G4 S3 | *37.700.00 | | |
| Bush Chinquapin Chaparral | | G3 S3.3 | | *CTT37550CA | |
| *Chrysolepis sempervirens* | | | *37.700.01 | | |
| *Lithocarpus densiflorus var. echinoides* (Shrub tanoak chaparral) Alliance | Shrub tanoak chaparral | G3 S3 | *73.110.00 | | |
| *Lithocarpus densiflorus var. echinoides / Arctostaphylos nevadensis* | | | *73.110.01 | | |
| *Lithocarpus densiflorus var. echinoides / Pteridium aquilinum* | | | *73.110.02 | | |

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| *Quercus sadleriana* (Sadler oak or deer oak brush fields) Alliance | Sadler oak or deer oak brush fields | G3 S3 | *37.412.00 | |
| *Quercus sadleriana* | | | *37.412.01 | |
| *Quercus vacciniifolia* (Huckleberry oak chaparral) Alliance | Huckleberry oak chaparral | G4 S4 | 37.414.00 | |
| Huckleberry Oak Chaparral | | G3 S3.3 | | *CTT37542CA |
| *Quercus vacciniifolia* | | | 37.414.01 | |
| *Quercus vacciniifolia - Arctostaphylos patula* | | | 37.414.03 | |
| *Quercus vacciniifolia - Chrysolepis sempervirens* | | | 37.414.02 | |
| *Arctostaphylos patula* (Green leaf manzanita chaparral) Alliance | Green leaf manzanita chaparral | G5 S4 | 37.303.00 | |
| Montane Manzanita Chaparral | | G4 S4 | | CTT37520CA |
| *Arctostaphylos patula* | | | 37.303.01 | |
| *Arctostaphylos patula - Quercus vacciniifolia* | | | 37.303.02 | |
| *Ceanothus velutinus* (Tobacco brush or snow bush chaparral) Alliance | Tobacco brush or snow bush chaparral | G5 S4 | 37.210.00 | |
| Tobacco Brush Chaparral | | G4 S3.3 | | CTT37533CA |
| *Ceanothus velutinus* | | | 37.210.01 | |
| *Ceanothus velutinus - Prunus emarginata - Artemisia tridentata* | | | 37.210.02 | |
| Active Coastal Dunes | | G3 S2.2 | | *CTT21100CA |
| Northern Foredunes | | G2 S2.1 | | *CTT21210CA |
| Northern Foredune Grassland | | G1 S1.1 | | *CTT21211CA |
| Central Foredunes | | G1 S1.2 | | *CTT21220CA |
| Southern Foredunes | | G2 S2.1 | | *CTT21230CA |
| Northern Dune Scrub | | G2 S1.2 | | CTT21310CA |
| Central Dune Scrub | | G2 S2.2 | | *CTT21320CA |
| Southern Dune Scrub | | G1 S1.1 | | *CTT21330CA |
| Northern Coastal Bluff Scrub | | G2 S2.2 | | *CTT31100CA |
| Northern Salal Scrub | | G4 S3.2 | | *CTT32120CA |
| Southern Coastal Bluff Scrub | | G1 S1.1 | | *CTT31200CA |
| *Abronia latifolia - Ambrosia chamissonis* (Dune mat) Alliance | Dune mat | G3 S3 | *21.100.00 | |
| *Abronia latifolia - Erigeron glaucus* | | | *21.101.01 | |
| *Abronia latifolia - Leymus mollis* | | | *21.101.02 | |
| *Ambrosia chamissonis - Abronia maritima - Cakile maritima* | | | *21.102.02 | |
| *Ambrosia chamissonis - Abronia umbellata* | | | *21.102.01 | |
| *Ambrosia chamissonis - Eriophyllum staechadifolium (- Lupinus arboreus)* | | | *21.100.03 | |
| *Ambrosia chamissonis - Malacothrix incana - Carpobrotus chilensis - Poa douglasii* | | | *21.102.03 | |
| *Artemisia pycnocephala - Calystegia soldanella* | | | *21.100.01 | |
| *Artemisia pycnocephala - Cardionema ramosissimum* | | | *21.110.01 | |
| *Artemisia pycnocephala - Ericameria ericoides* | | | *21.110.03 | |
| *Artemisia pycnocephala - Poa douglasii* | | | *21.110.04 | |
| *Artemisia pycnocephala - Polygonum paronychia* | | | 21.110.02 | |
| *Poa douglasii - Lathyrus littoralis* | | | *21.100.06 | |
| *Cakile maritima - Abronia maritima* | | | 21.125.01 | |
| *Cakile maritima - Ambrosia chamissonis - Carpobrotus edulis* | | | 21.102.04 | |
| *Carex pansa* (Sand dune sedge swaths) Provisional Alliance | Sand dune sedge swaths | G4? S3? | *45.184.00 | |
| *Leymus mollis* (Sea lyme grass patches) Alliance | Sea lyme grass patches | G4 S2 | *41.260.00 | |
| *Leymus mollis - Abronia latifolia - (Cakile sp.)* | | | *41.260.03 | |
| *Leymus mollis - Ammophila arenaria* | | | *41.260.02 | |
| *Leymus mollis - Carpobrotus edulis* | | | *41.260.01 | |
| *Baccharis pilularis* (Coyote brush scrub) Alliance | Coyote brush scrub | G5 S5 (some associations are of high priority for | 32.060.00 | |
| Northern Coyote Bush Scrub | | G4 S4 | | *CTT32110CA |
| Central Lucian Coastal Scrub | | G3 S3.3 | | *CTT32200CA |
| *Baccharis pilularis* | | | 32.060.23 | |
| *Baccharis pilularis - Lupinus arboreus* | | | 32.060.06 | |
| *Baccharis pilularis - Artemisia californica* | | | 32.060.05 | |
| *Baccharis pilularis - Artemisia californica - Heteromeles arbutifolia* | | | 32.060.19 | |
| *Baccharis pilularis - Artemisia californica - Toxicodendron / Monardella villosa* | | | 32.060.18 | |
| *Baccharis pilularis - Ceanothus thyrsiflorus* | | | 32.060.14 | |
| *Baccharis pilularis - Corylus cornuta* | | | 32.060.25 | |
| *Baccharis pilularis - Frangula californica - Rubus parviflorus* | | | 32.060.16 | |
| *Baccharis pilularis - Holodiscus discolor* | | | *32.060.12 | |
| *Baccharis pilularis - Lotus scoparius* | | | 32.060.29 | |
| *Baccharis pilularis - Prunus ilicifolia* | | | 32.060.26 | |
| *Baccharis pilularis - Rubus ursinus / weedy herb* | | | 32.060.15 | |
| *Baccharis pilularis - Salvia mellifera* | | | 32.060.27 | |
| *Baccharis pilularis - Toxicodendron diversilobum* | | | 32.060.17 | |
| *Baccharis pilularis / Ammophila arenaria* | | | 32.060.07 | |
| *Baccharis pilularis / Annual Grass - Herb* | | | 32.060.20 | |
| *Baccharis pilularis / Carex obnupta - Juncus patens* | | | *32.060.13 | |
| *Baccharis pilularis / Danthonia californica* | | | *32.060.11 | |
| *Baccharis pilularis / Deschampsia caespitosa* | | | *32.060.02 | |
| *Baccharis pilularis / Dudleya farinosa* | | | 32.060.24 | |
| *Baccharis pilularis / Eriophyllum staechadifolium* | | | *32.060.01 | |

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| *Baccharis pilularis / Leymus triticoides* | | | *32.060.03 | | |
| *Baccharis pilularis / Nassella pulchra* | | | *32.060.10 | | |
| *Baccharis pilularis / Native Grass (Mixed)* | | | 32.060.21 | | |
| *Baccharis pilularis / Polystichum munitum* | | | *32.060.04 | | |
| *Baccharis pilularis / Scrophularia californica* | | | 32.060.08 | | |
| *Gaultheria shallon - Baccharis pilularis - Ceanothus thyrsiflorus* | | | 32.060.28 | | |
| *Ceanothus thyrsiflorus* (Blue blossom chaparral) Alliance | Blue blossom chaparral | G4 S4 | 37.204.00 | | |
| Blue Brush Chaparral | | G4 S4 | | CTT37820CA | |
| *Ceanothus thyrsiflorus - Baccharis pilularis - Toxicodendron diversilobum* | | | 37.204.01 | | |
| *Ceanothus thyrsiflorus - Rubus ursinus* | | | 37.204.02 | | |
| *Ceanothus thyrsiflorus - Vaccinium ovatum - Rubus parviflorus* | | | 37.204.03 | | |
| *Frangula californica* (California coffee berry scrub) Alliance | California coffee berry scrub | G4 S4 (some associations are of high priority for | 37.920.00 | | |
| *Frangula californica spp. tomentella / Hoita macrostachya* | | | 37.920.04 | | |
| *Frangula californica ssp. tomentella* | | | 37.920.02 | | |
| *Frangula californica ssp. tomentella / Cirsium fontinale var. campylon - Mimulus guttatus* | | | 37.920.03 | | |
| *Frangula californica - Baccharis pilularis / Scrophularia californica* | | | *37.920.01 | | |
| *Garrya elliptica* (Coastal silk tassel scrub) Provisional Alliance | Coastal silk tassel scrub | G3? S3? | *39.040.00 | | |
| Silk Tassel Forest | | G3 S3.2 | | *CTT81900CA | |
| Northern Silk Tassel Scrub | | G3 S2.3 | | *CTT32130CA | |
| *Lupinus arboreus* (Yellow bush lupine scrub) Alliance | Yellow bush lupine scrub | G4 S4 (within native range), some associations are high | 32.080.00 | | |
| *Lupinus arboreus* | | | 32.080.02 | | |
| *Lupinus arboreus - Ericameria ericoides* | | | *32.080.03 | | |
| *Lupinus arboreus / Anthoxanthum odoratum* | | | 32.080.04 | | |
| *Lupinus arboreus / Bromus diandrus* | | | 32.080.01 | | |
| *Lupinus arboreus / Scrophularia californica* | | | 32.080.05 | | |
| *Ericameria ericoides* | | | *32.160.01 | | |
| *Lupinus chamissonis - Ericameria ericoides* (Silver dune lupine - mock heather scrub) Alliance | Silver dune lupine - mock heather scrub | G3 S3 | *32.160.00 | | |
| *Lupinus chamissonis* | | | *32.160.02 | | |
| *Lupinus chamissonis - Ericameria ericoides* | | | *32.160.03 | | |
| *Venegasia carpesioides* (Canyon sunflower scrub) Alliance | Canyon sunflower scrub | G3 S3 | *39.030.00 | | |
| *Venegasia carpesioides* | | | *39.030.01 | | |
| *Ammophila arenaria* (European beach grass swards) Semi-natural Stands | European beach grass swards | | 42.010.00 | | Invasive sp ranking: Cal-IPC High |
| *Ammophila arenaria* | | | 42.010.02 | | |
| *Ammophila arenaria - Cardionema ramosissimum* | | | 42.010.03 | | |
| *Ammophila arenaria - Erechtites minima* | | | 42.010.01 | | |
| *Ammophila arenaria - Lupinus variicolor* | | | 42.010.04 | | |
| *Cakile (edentula, maritima)* (Sea rocket sands) Provisional Semi-natural Stands | Sea rocket sands | | 21.125.00 | | Invasive sp ranking: Cal-IPC Unranked |
| *Carpobrotus edulis or other Ice Plants* (Ice plant mats) Semi-natural Stands | Ice plant mats | | 21.200.00 | | Invasive sp ranking: Cal ICP High |
| Fen | | G2 S1.2 | | *CTT51200CA | |
| *Carex limosa* (Shore sedge fens) Alliance | Shore sedge fens | G4? S2? | *45.178.00 | | |
| *Carex limosa - Menyanthes trifoliata* | | | *45.178.02 | | |
| *Carex limosa - Mimulus primuloides* | | | *45.110.03 | | |
| *Carex limosa / Drepanocladus sordidus* | | | *45.178.01 | | |
| *Dulichium arundinaceum* (Three-way sedge meadows) Provisional Alliance | Three-way sedge meadows | G3? S1 | *52.115.00 | | |
| *Dulichium arundinaceum* | | | *52.115.01 | | |
| Darlingtonia Seep | | G4 S3.2 | | *CTT51120CA | |
| *Darlingtonia californica* (California pitcher plant fens) Alliance | California pitcher plant fens | G4? S3 | *51.200.00 | | |
| *Darlingtonia californica* | | | *51.200.01 | | |
| *Rhododendron neoglandulosum* (Western Labrador-tea thickets) Alliance | Western Labrador-tea thickets | G4 S2? | *63.425.00 | | |
| Ledum Swamp | | G2 S2.1 | | *CTT5261ACA | |
| *Rhododendron neoglandulosum* | | | *63.425.01 | | |
| *Rhododendron neoglandulosum - Kalmia microphylla / Pinus contorta* | | | *63.425.02 | | |
| *Triantha occidentalis - Narthecium californicum* (Western false asphodel - California bog asphodel fens) Alliance | Western false asphodel - California bog asp | G2? S2? | *45.135.00 | | |
| *Triantha occidentalis - Rhynchospora alba* | | | *45.135.01 | | |
| *Triantha occidentalis / Sphagnum teres* | | | *45.135.02 | | |
| *Triantha occidentalis - Narthecium californicum* | | | *45.135.03 | | |
| *Vaccinium uliginosum* (Bog blue berry wet meadows) Alliance | Bog blue berry wet meadows | G4 S3 | *45.410.00 | | |
| *Vaccinium uliginosum* | | | *45.410.01 | | |
| *Vaccinium uliginosum / Aulacomnium palustre* | | | *45.410.03 | | |
| *Vaccinium uliginosum / Sphagnum teres* | | | *45.410.04 | | |
| *Vaccinium uliginosum ssp. occidentale / Bistorta bistortoides* | | | *45.410.02 | | |
| Sphagnum Bog | | G3 S1.2 | | *CTT51110CA | |
| Coastal and Valley Freshwater Marsh | | G3 S2.1 | | *CTT52410CA | |
| Transmontane Freshwater Marsh | | G3 S2.2 | | *CTT52420CA | |
| *Phragmites australis* (Common reed marshes) Alliance | Common reed marshes | G5 S4? | 41.061.00 | | |
| *Phragmites australis* | | | 41.061.01 | | |
| *Phragmites australis - Scirpus spp.* | | | 41.061.02 | | |
| *Schoenoplectus acutus* (Hardstem bulrush marsh) Alliance | Hardstem bulrush marsh | G5 S4 | 52.122.00 | | |
| *Schoenoplectus acutus* | | | 52.122.01 | | |
| *Schoenoplectus acutus - Apocynum cannabinum* | | | 52.122.02 | | |

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| *Schoenoplectus acutus - Typha angustifolia* | | | 52.122.03 | |
| *Schoenoplectus acutus - Typha domingensis* | | | 52.102.02 | |
| *Schoenoplectus acutus - Typha latifolia* | | | 52.122.04 | |
| *Schoenoplectus acutus - Typha latifolia - Phragmites australis* | | | 52.122.05 | |
| *Schoenoplectus acutus - Xanthium strumarium* | | | 52.122.06 | |
| *Schoenoplectus californicus* (California bulrush marsh) Alliance | California bulrush marsh | G5 S4? | 52.114.00 | |
| *Schoenoplectus californicus* | | | 52.114.02 | |
| *Schoenoplectus californicus - Apocynum cannabinum* | | | 52.114.03 | |
| *Schoenoplectus californicus - Eichhornia crassipes* | | | 52.114.04 | |
| *Schoenoplectus californicus - Schoenoplectus acutus* | | | 52.114.01 | |
| *Schoenoplectus californicus - Schoenoplectus acutus / Rosa californica* | | | 52.114.06 | |
| *Schoenoplectus californicus - Typha latifolia* | | | 52.114.05 | |
| *Typha (angustifolia, domingensis, latifolia)* (Cattail marshes) Alliance | Cattail marshes | G5 S5 | 52.050.00 | |
| *Typha angustifolia* | | | 52.050.01 | |
| *Typha angustifolia - Distichlis spicata* | | | 52.050.02 | |
| *Typha angustifolia - Typha latifolia - Typha domingensis* | | | 52.050.05 | |
| *Typha angustifolia - Typha latifolia - Typha domingensis / Distichlis spicata* | | | 52.050.06 | |
| *Typha angustifolia - Typha latifolia - Typha domingensis / Echinocloa crus-galli* | | | 52.050.07 | |
| *Typha angustifolia - Typha latifolia - Typha domingensis / Phragmites australis* | | | 52.050.08 | |
| *Typha angustifolia - Typha latifolia - Typha domingensis / Schoenoplectus americanus* | | | 52.050.09 | |
| *Typha domingensis* | | | 52.050.03 | |
| *Typha latifolia* | | | 52.103.02 | |
| *Typha latifolia - Typha angustifolia* | | | 52.050.04 | |
| *Argentina egedii* (Pacific silverweed marshes) Alliance | Pacific silverweed marshes | G4 S2 | *38.140.00 | |
| *Argentina egedii* | | | *38.140.01 | |
| *Argentina egedii - Eleocharis macrostachya* | | | *38.140.03 | |
| *Argentina egedii - Alopecurus aequalis* | | | *38.140.02 | |
| *Argentina egedii - Lotus uliginosus* | | | *38.140.04 | |
| *Carex obnupta* (Slough sedge swards) Alliance | Slough sedge swards | G4 S3 | *45.183.00 | |
| *Carex obnupta* | | | *45.183.01 | |
| *Carex obnupta - Juncus lescurii* | | | *45.183.02 | |
| *Carex obnupta - Juncus patens* | | | *45.183.03 | |
| *Juncus effusus* (Soft rush marshes) Alliance | Soft rush marshes | G4 S4? | 45.561.00 | |
| *Juncus effusus* | | | 45.561.01 | |
| *Juncus lescurii* (Salt rush swales) Alliance | Salt rush swales | G3 S2? | *45.569.00 | |
| *Juncus lescurii* | | | *45.569.01 | |
| *Juncus (lescurii) - Distichlis spicata* | | | *45.569.02 | |
| *Juncus patens* (Western rush marshes) Provisional Alliance | Western rush marshes | G4? S4? | 45.564.00 | |
| *Oenanthe sarmentosa* (Water-parsley marsh) Alliance | Water-parsley marsh | G4 S2? | *52.119.00 | |
| *Oenanthe sarmentosa* | | | *52.119.01 | |
| *Scirpus microcarpus* (Small-fruited bulrush marsh) Alliance | Small-fruited bulrush marsh | G4 S2 | *52.113.00 | |
| *Scirpus microcarpus* | | | *52.113.01 | |
| *Scirpus microcarpus - Oxypolis occidentalis* | | | *52.113.02 | |
| *Scirpus microcarpus - Scirpus congdonii* | | | *52.113.03 | |
| Northern Basalt Flow Vernal Pool | | G3 S2.2 | | *CTT44131CA |
| Northern Volcanic Ash Vernal Pool | | G1 S1.1 | | *CTT44133CA |
| Northern Volcanic Mud Flow Vernal Pool | | G1 S1.1 | | *CTT44132CA |
| Northern Vernal Pool | | G2 S2.1 | | *CTT44100CA |
| Northern Hardpan Vernal Pool | | G3 S3.1 | | *CTT44110CA |
| Northern Claypan Vernal Pool | | G1 S1.1 | | *CTT44120CA |
| San Diego Mesa Claypan Vernal Pool | | G2 S2.1 | | *CTT44322CA |
| San Diego Mesa Hardpan Vernal Pool | | G2 S2.1 | | *CTT44321CA |
| Southern Interior Basalt Flow Vernal Pool | | G1 S1.2 | | *CTT44310CA |
| Southern Vernal Pool | | G? SNR | | CTT44300CA |
| Vernal Marsh | | G2 S2.1 | | *CTT52500CA |
| *Alopecurus geniculatus* (Water foxtail meadows) Provisional Alliance | Water foxtail meadows | G3? S3? | *42.006.00 | |
| *Lasthenia fremontii - Downingia (bicornuta)* (Fremont's goldfields - Downingia vernal pools) Alliance | Fremont's goldfields - Downingia vernal poo | G3 S3 | *42.007.00 | |
| *Downingia (bicornuta, cuspidata)* | | | *42.007.02 | |
| *Downingia bicornuta* | | | *42.007.01 | |
| *Eryngium (vaseyi, castrense)* | | | *42.007.06 | |
| *Lasthenia californica - Downingia bicornuta* | | | *42.007.08 | |
| *Lasthenia fremontii* | | | *42.007.07 | |
| *Lasthenia fremontii - Downingia bicornuta* | | | *42.007.03 | |
| *Lasthenia fremontii - Downingia ornatissima* | | | *42.007.04 | |
| *Ranunculus bonariensis - Holocarpha virgata* | | | *42.007.05 | |
| *Eleocharis macrostachya* (Pale spike rush marshes) Alliance | Pale spike rush marshes | G4 S4 (some associations are of high priority for | 45.230.00 | |
| *Eleocharis macrostachya* | | | 45.230.01 | |
| *Eleocharis macrostachya - (Pleuropogon californicus)* | | | *45.230.07 | |
| *Eleocharis macrostachya - Callitriche hermaphroditica* | | | *45.230.02 | |
| *Eleocharis macrostachya - Eryngium aristulatum ssp. Parishii* | | | *45.230.04 | |

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| *Eleocharis macrostachya - Lasthenia glaberrima* | | | *45.230.05 | |
| *Eleocharis macrostachya - Marsilea vestita* | | | *45.230.06 | |
| *Eleocharis macrostachya - Sagittaria montevidensis* | | | *45.230.03 | |
| *Eleocharis acicularis* (Needle spike rush stands) Alliance | Needle spike rush stands | G4? S3? | *45.231.00 | |
| *Eleocharis acicularis - Eryngium castrense* | | | *45.231.01 | |
| *Navarretia spp. - (Eleocharis acicularis - Eryngium alismaefolium)* | | | *45.231.03 | |
| *Plagiobothrys mollis - (Eleocharis acicularis - Eryngium mathiasiae)* | | | *45.231.02 | |
| *Eryngium aristulatum* (California button-celery patches) Alliance | California button-celery patches | G3 S3? | *42.004.00 | |
| *Eryngium aristulatum - Lupinus bicolor* | | | *42.004.01 | |
| *Grindelia (stricta)* (Gum plant patches) Provisional Alliance | Gum plant patches | G3? S3? | *52.206.00 | |
| *Centromadia (pungens)* (Tar plant fields) Alliance | Tar plant fields | G2? S2? | *44.160.00 | |
| *Centromadia pungens - Downingia bella* | | | *44.160.02 | |
| *Centromadia pungens ssp. laevis* | | | *44.160.01 | |
| *Deinandra fasciculata* (Clustered tarweed fields) Alliance | Clustered tarweed fields | G3? S3? | *44.161.00 | |
| *Deinandra fasciculata - annual grass-herb* | | | *44.161.01 | |
| *Deinandra fasciculata - Hordeum depressum - Atriplex coronata var. notatior* | | | *44.161.02 | |
| *Lasthenia fremontii - Distichlis spicata* (Fremont's goldfields - Saltgrass alkaline vernal pools) Alliance | Fremont's goldfields - Saltgrass alkaline ver | G4 S3 | *44.119.00 | |
| *Lasthenia fremontii - Distichlis spicata* | | | *44.119.11 | |
| *Downingia bella - Lilaea scilloides* | | | *44.119.01 | |
| *Downingia cuspidata - Myosurus minimus* | | | *44.119.02 | |
| *Downingia insignis - Psilocarphus brevissimus* | | | *44.119.03 | |
| *Downingia pulchella - Cressa truxillensis* | | | *44.119.04 | |
| *Downingia pulchella - Distichlis spicata* | | | *44.119.05 | |
| *Lasthenia fremontii - Pleuropogon californicus* | | | *44.119.07 | |
| *Limnanthes douglasii ssp. rosea - Pleuropogon californicus* | | | *44.119.10 | |
| *Lasthenia platycarpha - Lepidium latipes* | | | *44.119.09 | |
| *Lasthenia glaberrima* (Smooth goldfields vernal pool bottoms) Alliance | Smooth goldfields vernal pool bottoms | G3 S3 | *44.140.00 | |
| *Lasthenia glaberrima - Atriplex persistens* | | | *44.119.08 | |
| *Lasthenia glaberrima - Downingia bicornuta* | | | *44.140.01 | |
| *Lasthenia glaberrima - Downingia insignis* | | | *44.140.05 | |
| *Lasthenia glaberrima - Lupinus bicolor* | | | *44.140.06 | |
| *Lasthenia glaberrima - Pleuropogon californicus* | | | *44.140.02 | |
| *Lasthenia glaberrima - Pogogyne douglasii* | | | *44.140.03 | |
| *Lasthenia glaberrima - Trifolium variegatum* | | | *44.140.04 | |
| *Layia fremontii - Achyrachaena mollis* (Fremont's tidy-tips - Blow wives vernal pools) Alliance | Fremont's tidy-tips - Blow wives vernal pools | G3 S3? | *42.002.00 | |
| *Layia fremontii - Achyrachaena mollis* | | | *42.002.01 | |
| *Layia fremontii - Lasthenia californica - Achyrachaena mollis* | | | *42.002.02 | |
| *Layia fremontii - Leontodon taraxacoides - Plagiobothrys greenei* | | | *42.002.03 | |
| *Plagiobothrys austina - Achyrachaena mollis* | | | *42.002.04 | |
| *Montia fontana - Sidalcea calycosa* (Water blinks - Annual checkerbloom vernal pools) Alliance | Water blinks - Annual checkerbloom vernal | G2 S2 | *44.113.00 | |
| *Montia fontana - Sidalcea calycosa* | | | *44.113.01 | |
| *Trifolium variegatum* (White-tip clover swales) Alliance | White-tip clover swales | G3? S3? | *42.005.00 | |
| *Trifolium gracilentum - Hesperevax caulescens* | | | *42.005.02 | |
| *Trifolium variegatum* | | | *42.005.01 | |
| *Trifolium variegatum - Lolium perenne - Leontodon taraxacoides* | | | *42.005.03 | |
| *Trifolium variegatum - Vulpia bromoides (Hypochaeris glabra - Leontodon taraxacoides)* | | | *42.005.04 | |
| *(Trifolium variegatum - Vulpia bromoides) - Hypochaeris glabra - Leontodon taraxacoides* | | | *42.005.05 | |
| Wet Montane Meadow | | G3 S3.2 | | *CTT45110CA |
| Freshwater Seep | | G4 S3.2 | | CTT45400CA |
| Montane Freshwater Marsh | | G3 S3.2 | | *CTT52430CA |
| Wet Supalpine or Alpine Meadow | | G3 S3.2 | | *CTT45210CA |
| *Bistorta bistortoides - Mimulus primuloides* (Western bistort - primrose monkey flower meadows) Alliance | Western bistort - primrose monkey flower m | G4 S4 | 45.413.00 | |
| *Bistorta bistortoides* | | | 45.413.02 | |
| *Camassia quamash* (Small camas meadows) Alliance | Small camas meadows | G4? S3? | *45.416.00 | |
| *Camassia quamash / Sphagnum subsecundum* | | | *45.416.01 | |
| *Carex (aquatilis, lenticularis)* (Water sedge and Lakeshore sedge meadows) Alliance | Water sedge and Lakeshore sedge meadow | G5 S3 | *45.168.00 | |
| *Carex aquatilis* | | | *45.168.01 | |
| *Carex aquatilis - Carex lenticularis* | | | *45.168.04 | |
| *Carex densa* (Dense sedge marshes) Provisional Alliance | Dense sedge marshes | G2? S2? | *45.165.00 | |
| *Carex densa - Juncus xiphioides* | | | *45.165.02 | |
| *Carex densa - Lolium perenne - Juncus spp.* | | | *45.165.03 | |
| *Carex lenticularis / Aulacomnium palustre* | | | *45.168.02 | |
| *Carex lenticularis / Perideridia parishii* | | | *45.168.03 | |
| *Carex nigricans* (Showy sedge sod) Provisional Alliance | Showy sedge sod | G4 S3? | *45.164.00 | |
| *Carex scopulorum* (Sierra alpine sedge turf) Alliance | Sierra alpine sedge turf | G4 S3 | *45.120.00 | |
| *Carex scopulorum* | | | *45.120.01 | |
| *Carex scopulorum - Allium validum* | | | *45.120.07 | |
| *Carex scopulorum - Eleocharis quinquefolia* | | | *45.120.04 | |
| *Carex scopulorum - Eriophorum crinigerum* | | | *45.120.03 | |
| *Carex scopulorum - Mimulus primuloides* | | | *45.120.08 | |

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| *Carex scopulorum - Pedicularis groenlandica* | | | *45.120.02 | |
| *Carex scopulorum / Aulacomnium palustre* | | | *45.120.06 | |
| *Carex scopulorum / Oreostemma alpigenum* | | | *45.120.05 | |
| *Carex (utriculata, vesicaria)* (Beaked sedge and blister sedge meadows) Alliance | Beaked sedge and blister sedge meadows | G5 S4 | 52.121.00 | |
| *Carex utriculata* | | | 52.120.01 | |
| *Carex utriculata - Mimulus primuloides* | | | 52.121.01 | |
| *Carex vesicaria* | | | 45.170.01 | |
| *Eleocharis quinqueflora* (Few-flowered spike rush marshes) Alliance | Few-flowered spike rush marshes | G4 S4 (some associations are of high priority for | 45.220.00 | |
| *Eleocharis quinqueflora* | | | 45.220.01 | |
| *Eleocharis quinqueflora - Mimulus primuloides* | | | *45.220.02 | |
| *Eleocharis quinqueflora / Aulacomnium palustre* | | | *45.220.03 | |
| *Eleocharis quinqueflora / Campylium stellatum* | | | *45.220.04 | |
| *Eleocharis quinqueflora / Drepanocladus aduncus - Drepanocladus sordidus* | | | *45.220.05 | |
| *Eleocharis quinqueflora / Philonotis fontana* | | | *45.220.06 | |
| *Glyceria (elata, striata)* (Manna grass meadows) Alliance | Manna grass meadows | G4 S3? | *41.222.00 | |
| *Glyceria elata* | | | *41.222.01 | |
| *Glyceria elata - Lotus oblongifolius* | | | *41.222.03 | |
| *Glyceria elata - Scirpus microcarpus* | | | *41.222.02 | |
| *Glyceria striata* | | | *41.222.04 | |
| *Glyceria occidentalis* (Northwest manna grass marshes) Provisional Alliance | Northwest manna grass marshes | G3? S3? | *41.223.00 | |
| *Oxypolis occidentalis (*Western cowbane meadows) Alliance | Western cowbane meadows | G3 S3 | *45.418.00 | |
| *Oxypolis occidentalis - Bistorta bistortoides* | | | *45.418.02 | |
| *Oxypolis occidentalis - Carex amplifolia* | | | *45.418.03 | |
| *Oxypolis occidentalis - Eleocharis montevidensis* | | | *45.418.04 | |
| *Oxypolis occidentalis - Senecio triangularis* | | | *45.418.05 | |
| *Oxypolis occidentalis / Philonotis fontana* | | | *45.418.06 | |
| *Senecio triangularis* (Herb-rich meadows) Alliance | Herb-rich meadows | G4 S4 | 45.419.00 | |
| *Senecio triangularis - Athyrium filix-femina* | | | 45.419.04 | |
| *Senecio triangularis - Lupinus latifolius* | | | 45.419.01 | |
| *Senecio triangularis-Lupinus polyphyllus* | | | 45.419.05 | |
| *Torreyochloa pallida* (Floating mats of weak manna grass) Alliance | Floating mats of weak manna grass | G3 S3? | *45.171.00 | |
| *Torreyochloa pallida* | | | *45.171.01 | |
| *Torreyochloa pallida - Isoetes bolanderi* | | | *45.171.02 | |
| *Carex barbarae* (White-root beds) Alliance | White-root beds | G2? S2? | *45.142.00 | |
| *Carex barbarae* | | | *45.142.01 | |
| *Carex nudata* (Torrent sedge patches) Alliance | Torrent sedge patches | G3 S3 | *45.182.00 | |
| *Carex nudata* | | | *45.182.01 | |
| *Carex serratodens* (Twotooth sedge seeps) Provisional Alliance | Twotooth sedge seeps | G3 S3? | *45.180.00 | |
| *Cirsium fontinale* (Fountain thistle seeps) Alliance | Fountain thistle seeps | G1 S1 | *42.100.00 | |
| *Cirsium fontinale var. campylon - Carex serratodens - Hordeum brachyantherum* | | | *42.100.01 | |
| *Cirsium fontinale var. campylon - Hemizonia congesta var. luzulifolia* | | | *42.100.02 | |
| *Cirsium fontinale var. campylon - Mimulus guttatus - Stachys pycnantha* | | | *42.100.03 | |
| *Juncus arcticus (var. balticus, mexicanus)* (Baltic and Mexican rush marshes) Alliance | Baltic and Mexican rush marshes | G5 S4 | 45.562.00 | |
| *Juncus arcticus var. balticus* | | | 45.562.07 | |
| *Juncus arcticus var. balticus* | | | 91.120.21 | |
| *Juncus arcticus var. balticus - Argentina egedii* | | | 45.562.05 | |
| *Juncus arcticus var. balticus - Carex praegracilis* | | | 45.562.04 | |
| *Juncus arcticus var. balticus - Conium maculatum* | | | 45.562.01 | |
| *Juncus arcticus var. balticus - Lepidium latifolium* | | | 45.562.06 | |
| *Juncus arcticus var. mexicanus* | | | 45.562.02 | |
| *Juncus (oxymeris, xiphioides)* (Iris-leaf rush seeps) Provisional Alliance | Iris-leaf rush seeps | G2? S2? | *45.568.00 | |
| *Leymus triticoides* (Creeping rye grass turfs) Alliance | Creeping rye grass turfs | G4 S3 | *41.080.00 | |
| Valley Wildrye Grassland | | G2 S2.1 | *CTT42140CA | |
| *Leymus triticoides* | | | *41.080.01 | |
| *Leymus triticoides - Anemopsis californica* | | | *41.080.05 | |
| *Leymus triticoides - Bromus spp. - Avena spp.* | | | *41.080.02 | |
| *Leymus triticoides - Carduus pycnocephalus - Geranium dissectum* | | | *41.080.04 | |
| *Leymus triticoides - Lolium perenne* | | | *41.080.03 | |
| *Leymus triticoides - Poa secunda* | | | *41.080.06 | |
| *Mimulus (guttatus)* (Common monkey flower seeps) Alliance | Common monkey flower seeps | G4? S3? | *44.111.00 | |
| *Mimulus guttatus* | | | *44.111.01 | |
| *Mimulus guttatus - (Mimulus spp.)* | | | *44.111.03 | |
| *Mimulus guttatus - Vulpia microstachys* | | | *44.111.02 | |
| *Mimulus lewisii* | | | *44.111.04 | |
| *Mimulus primuloides* | | | *45.413.03 | |
| *Muhlenbergia rigens* (Deer grass beds) Alliance | Deer grass beds | G3 S2? | *41.278.00 | |
| *Muhlenbergia rigens* | | | *41.278.01 | |
| *Lepidium latifolium* (Perennial pepper weed patches) Semi-natural Stands | Perennial pepper weed patches | | 52.205.00 | Invasive sp ranking: Cal-IPC rank: High; |
| *Lepidium latifolium* | | | 52.205.02 | Invasive sp ranking: Cal-IPC rank: High; |
| *Lepidium latifolium - Distichlis spicata.* | | | 52.205.01 | |

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| *Persicaria lapathifolia - Xanthium strumarium* (Smartweed - cocklebur patches) Provisional Alliance | Smartweed - cocklebur patches | G4 S4 | 42.207.00 | | |
| *Distichlis spicata* (Salt grass flats) Alliance | Salt grass flats | G5 S4 (some associations are of high priority for | 41.200.00 | | |
| *Distichlis spicata - Agrostis viridis* | | | 41.200.14 | | |
| *Distichlis spicata - Ambrosia chamissonis* | | | *41.200.11 | | |
| *Distichlis spicata - Atriplex triangularis* | | | 41.200.15 | | |
| *Distichlis spicata - Bromus diandrus* | | | 41.200.16 | | |
| *Distichlis spicata - Cotula coronopifolia* | | | 41.200.17 | | |
| *Distichlis spicata - Frankenia salina - Jaumea carnosa* | | | *41.200.07 | | |
| *Distichlis spicata - Hordeum murninum* | | | 41.200.18 | | |
| *Distichlis spicata - Jaumea carnosa* | | | *41.200.06 | | |
| *Distichlis spicata - Juncus arcticus ssp. balticus (J. arcticus ssp. mexicanus)* | | | 41.200.05 | | |
| *Distichlis spicata - Juncus cooperi* | | | *41.200.02 | | |
| *Distichlis spicata - Leymus triticoides / Lupinus (albifrons, arboreus)* | | | 41.200.19 | | |
| *Distichlis spicata - Parapholis strigosa* | | | 41.200.10 | | |
| *Distichlis spicata - Sarcocornia pacifica* | | | *41.200.20 | | |
| *Distichlis spicata / Allenrolfea occidentalis* | | | *41.200.01 | | |
| *Distichlis spicata / annual grasses* | | | 41.200.13 | | |
| *Distichlis spicata / Chrysothamnus albidus* | | | *41.200.04 | | |
| *Distichlis spicata / Sarcobatus vermiculatus* | | | *41.200.03 | | |
| *Bulboschoenus maritimus* (Salt marsh bulrush marshes) Alliance | Salt marsh bulrush marshes | G4 S3 | *52.112.00 | | |
| *Bolboschoenus maritimus* | | | *52.112.03 | | |
| *Bolboschoenus maritimus / Sarcocornia pacifica (depressa)* | | | *52.112.04 | | |
| *Bolboschoenus maritimus / Sesuvium verrucosum* | | | *52.112.05 | | |
| *Sarcocornia pacifica (Salicornia depressa)* (Pickleweed mats) Alliance | Pickleweed mats | G4 S3 | *52.215.00 | | |
| *Sarcocornia pacific - Lepidium latifolium* | | | *52.215.12 | | |
| *Sarcocornia pacifica* | | | *52.215.04 | | |
| *Sarcocornia pacifica - Jaumea carnosa - Batis maritima* | | | *52.215.22 | | |
| *Sarcocornia pacifica - Atriplex prostrata* | | | *52.215.06 | | |
| *Sarcocornia pacifica - Bolboschoenus maritimus* | | | *52.215.07 | | |
| *Sarcocornia pacifica - Brassica nigra* | | | *52.215.15 | | |
| *Sarcocornia pacifica - Cotula coronopifolia* | | | *52.215.16 | | |
| *Sarcocornia pacifica - Crypsis schoenoides* | | | *52.215.17 | | |
| *Sarcocornia pacifica - Cuscuta salina - Spartina densiflora* | | | *52.215.01 | | |
| *Sarcocornia pacifica - Distichlis spicata* | | | *52.215.02 | | |
| *Sarcocornia pacifica - Echinochloa crus-galli - Polygonum - Xanthium strumarium* | | | *52.215.18 | | |
| *Sarcocornia pacifica - Frankenia salina* | | | *52.215.09 | | |
| *Sarcocornia pacifica - Frankenia salina - Suaeda taxifolia* | | | *52.215.21 | | |
| *Sarcocornia pacifica - Grindelia stricta* | | | *52.215.10 | | |
| *Sarcocornia pacifica - Jaumea carnosa* | | | *52.215.11 | | |
| *Sarcocornia pacifica - Jaumea carnosa - Distichlis spicata* | | | *52.215.03 | | |
| *Sarcocornia pacifica - Sesuvium verrucosum* | | | *52.215.20 | | |
| *Sarcocornia pacifica - Spartina foliosa* | | | *52.215.13 | | |
| *Sarcocornia pacifica / algae* | | | *52.215.14 | | |
| *Sarcocornia pacifica/annual grasses (Polypogon, Hordeum, Lolium)* | | | *52.215.19 | | |
| *Spartina foliosa* (California cordgrass marsh) Alliance | California cordgrass marsh | G3 S3 | *52.020.00 | | |
| *Spartina foliosa* | | | *52.020.02 | | |
| *Spartina foliosa - Sarcocornia pacifica* | | | *52.020.01 | | |
| *Spartina (alterniflora, densiflora)* (Smooth or Chilean cordgrass marshes) Semi-natural Stands | Smooth or Chilean cordgrass marshes | | *41.070.00 | | |
| *Spartina densiflora* | | | 41.070.02 | | |
| *Sesuvium verrucosum* (Western sea-purslane marshes) Alliance | Western sea-purslane marshes | G3? S2 | *52.210.00 | | |
| *Sesuvium verrucosum* | | | *52.210.01 | | |
| *Sesuvium verrucosum - Cotula coronopifolia* | | | *52.210.02 | | |
| *Sesuvium verrucosum - Distichlis spicata* | | | *52.210.03 | | |
| *Sesuvium verrucosum - Lolium perenne* | | | *52.210.04 | | |
| *Atriplex prostrata - Cotula coronopifolia* (Fields of fat hen and brass buttons) Semi-natural Stands | Fields of fat hen and brass buttons | | 52.211.00 | | Invasive sp ranking: Not listed. |
| *Atriplex prostrata* | | | 52.211.01 | | |
| *Atriplex prostrata / annual grasses* | | | 52.211.02 | | |
| *Atriplex prostrata / Distichlis spicata* | | | 52.211.03 | | |
| *Atriplex prostrata / Schoenoplectus maritimus* | | | 52.211.04 | | |
| *Atriplex prostrata / Sesuvium verrucosum* | | | 52.211.05 | | |
| *Cotula coronopifolia* | | | 52.211.06 | | |
| Coastal Brackish Marsh | | G2 S2.1 | | *CTT52200CA | |
| Northern Coastal Salt Marsh | | G3 S3.2 | | *CTT52110CA | |
| Southern Coastal Salt Marsh | | G2 S2.1 | | *CTT52120CA | |
| *Sarcobatus vermiculatus* (Greasewood scrub) Alliance | Greasewood scrub | G5 S4 (some associations are of high priority for | *36.400.00 | | |
| Desert Greasewood Scrub | | G4 S3.2 | | CTT36130CA | |
| *Sarcobatus vermiculatus* | | | 36.400.01 | | |
| *Sarcobatus vermiculatus - Atriplex confertifolia* | | | *36.400.02 | | |
| Alkali Meadow | | G3 S2.1 | | *CTT45310CA | |
| Alkali Seep | | G3 S2.1 | | *CTT45320CA | |

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| Cismontane Alkali Marsh | | G1 S1.1 | | *CTT52310CA |
| Desert Sink Scrub | | G4 S3.1 | | CTT36120CA |
| Transmontane Alkali Marsh | | G3 S2.1 | | *CTT52320CA |
| *Anemopsis californica* (Yerba mansa meadows) Alliance | Yerba mansa meadows | G3 S2? | *52.214.00 | |
| *Anemopsis californica - Juncus arcticus var. mexicanus* | | | *52.214.01 | |
| *Juncus cooperi* (Cooper's rush marsh) Alliance | Cooper's rush marsh | G3 S3 | *45.563.00 | |
| *Juncus cooperi* | | | *45.563.01 | |
| *Schoenoplectus americanus* (American bulrush marsh) Alliance | American bulrush marsh | G5 S3 | *52.111.00 | |
| *Schoenoplectus americanus* | | | *52.111.04 | |
| *Schoenoplectus americanus - Eleocharis rostellata* | | | *52.111.05 | |
| *Schoenoplectus americanus / Argentina egedii* | | | *52.111.02 | |
| *Schoenoplectus americanus / Lepidium latifolium* | | | *52.111.03 | |
| *Schoenoplectus americanus / Schoenoplectus californicus - Schoenoplectus acutus* | | | *52.111.06 | |
| *Spartina gracilis (* Alkali cordgrass marsh) Alliance | Alkali cordgrass marsh | GU S1 | *52.030.00 | |
| *Spartina gracilis - Sporobolus airoides* | | | *52.030.01 | |
| *Sporobolus airoides* (Alkali sacaton grassland) Alliance | Alkali sacaton grassland | G4 S2 | *41.010.00 | |
| Valley Sacaton Grassland | | G1 S1.1 | | *CTT42120CA |
| *Sporobolus airoides* | | | *41.010.01 | |
| *Sporobolus airoides / Allenrolfea occidentalis* | | | *41.010.03 | |
| *Sporobolus airoides / Ericameria nauseosa* | | | *41.010.02 | |
| *Allenrolfea occidentalis* (Iodine bush scrub) Alliance | Iodine bush scrub | G4 S3 | *36.120.00 | |
| Valley Sink Scrub | | G1 S1.1 | | CTT36210CA |
| *Allenrolfea occidentalis* | | | *36.120.04 | |
| *Allenrolfea occidentalis - Sporobolus airoides* | | | *36.120.03 | |
| *Allenrolfea occidentalis - Suaeda moquinii* | | | *36.120.02 | |
| *Arthrocnemum subterminale* (Parish's glasswort patches) Alliance | Parish's glasswort patches | G4 S2 | *52.212.00 | |
| *Arthrocnemum subterminale* | | | *52.212.01 | |
| *Arthrocnemum subterminale - Monanthocloe littoralis* | | | *52.212.03 | |
| *Arthrocnemum subterminale - Sarcocornia pacifica* | | | *52.212.02 | |
| *Atriplex lentiformis* (Quailbush scrub) Alliance | Quailbush scrub | G4 S4 | 36.370.00 | |
| *Atriplex lentiformis* | | | 36.370.01 | |
| *Atriplex spinifera* (Spinescale scrub) Alliance | Spinescale scrub | G3 S3 | *36.350.00 | |
| Relictual Interior Dunes | | G1 S1.1 | | *CTT23200CA |
| Stabilized Interior Dunes | | G1 S1.1 | | *CTT23100CA |
| Valley Saltbush Scrub | | G2 S2.1 | | *CTT36220CA |
| *Atriplex spinifera* | | | *36.350.01 | |
| *Atriplex spinifera - Picrothamnus desertorum* | | | *36.350.03 | |
| *Atriplex spinifera / annual herb* | | | *36.350.02 | |
| *Cressa truxillensis - Distichlis spicata* (Alkali weed - Salt grass playas and sinks) Alliance | Alkali weed - Salt grass playas and sinks | G4 S4 | 46.100.00 | |
| *Chamaesyce hooveri - Bolboschoenus maritimus* | | | 46.100.02 | |
| *Neostapfia colusana - Malvella leprosa* | | | 46.100.03 | |
| *Neostapfia colusana - Polypogon maritimus* | | | 46.100.04 | |
| *Orcuttia pilosa* | | | 46.100.05 | |
| *Hordeum (depressum, murinum spp. leporinum)* | | | 44.119.06 | |
| *Frankenia salina* (Alkali heath marsh) Alliance | Alkali heath marsh | G4 S3 | *52.500.00 | |
| *Frankenia salina* | | | *52.500.02 | |
| *Frankenia salina - Limonium californicum - Monanthochloe littoralis - Sarcocornia pacifica* | | | *52.500.01 | |
| *Frankenia salina / Agrostis avenacea* | | | *52.500.03 | |
| *Frankenia salina / Distichlis spicata* | | | *52.500.04 | |
| *Suaeda taxifolia / Hordeum murinum* | | | *52.500.06 | |
| *Suaeda moquinii* (Bush seepweed scrub) Alliance | Bush seepweed scrub | G5 S3 | *36.200.00 | |
| *Suaeda moquinii* | | | *36.200.01 | |
| *Suaeda moquinii - Allenrolfea occidentalis* | | | *36.200.02 | |
| *Suaeda moquinii - Atriplex canescens* | | | *36.200.03 | |
| Sonoran Mixed Woody Scrub | | G3 S3.2 | | *CTT33210CA |
| Mojave Mixed Woody and Succulent Scrub | | G3 S3.2 | | *CTT34240CA |
| Mojave Mixed Woody Scrub | | G3 S3.2 | | *CTT34210CA |
| Mojave Mixed Steppe | | G3 S2.2 | | *CTT34220CA |
| *Ambrosia dumosa* (White bursage scrub) Alliance | White bursage scrub | G5 S4 (some associations are of high priority for | 33.060.00 | |
| *Ambrosia dumosa* | | | *33.060.02 | |
| *Ambrosia dumosa - Acamptopappus sphaerocephalus* | | | *33.060.01 | |
| *Ambrosia dumosa - Atriplex hymenolytra* | | | 33.060.03 | |
| *Ambrosia dumosa - Encelia farinosa* | | | 33.060.06 | |
| *Ambrosia dumosa - Ephedra californica / sandy* | | | 33.060.07 | |
| *Ambrosia dumosa - Olneya tesota - Calliandra eriophylla* | | | 33.060.09 | |
| *Ambrosia dumosa / Pleuraphis rigida* | | | *33.060.04 | |
| *Ambrosia salsola* (Cheesebush scrub) Alliance | Cheesebush scrub | G5 S4 (some associations are of high priority for | 33.200.00 | |
| *Ambrosia salsola* | | | 33.200.01 | |
| *Ambrosia salsola - Ambrosia eriocentra* | | | *33.200.06 | |
| *Ambrosia salsola - Atriplex confertifolia* | | | 33.200.04 | |

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| *Ambrosia salsola - Bebbia juncea* | | | 33.200.05 | |
| *Ambrosia salsola - Brickellia incana* | | | 33.200.07 | |
| *Ambrosia salsola - Eriogonum fasciculatum* | | | 33.200.02 | |
| *Ambrosia salsola - Larrea tridentata* | | | 33.200.10 | |
| *Ambrosia salsola - Psorothamnus schottii* | | | 33.200.09 | |
| *Ambrosia salsola - Senna armata* | | | 33.200.08 | |
| *Ambrosia salsola -Petalonyx thurberi* | | | 33.200.11 | |
| *Atriplex polycarpa* (Allscale scrub) Alliance | Allscale scrub | G5 S4 | 36.340.00 | |
| Sierra Tehachapi Saltbush Scrub | | G2 S2.1 | | *CTT36310CA |
| Interior Coast Range Saltbush Scrub | | G2 S2.1 | | *CTT36320CA |
| Desert Saltbush Scrub | | G4 S3.2 | | CTT36110CA |
| *Atriplex polycarpa* | | | 36.340.04 | |
| *Atriplex polycarpa - Atriplex confertifolia* | | | 36.340.01 | |
| *Atriplex polycarpa sparse playa* | | | 36.340.05 | |
| *Encelia farinosa* (Brittle bush scrub) Alliance | Brittle bush scrub | G5 S4 (some associations are of high priority for | 33.030.00 | |
| *Encelia farinosa - coastal sage scrub* | | | 33.030.05 | |
| *Encelia farinosa - warm desert* | | | 33.030.01 | |
| *Encelia farinosa - Ambrosia dumosa - Fouquieria splendens* | | | 33.030.07 | |
| *Encelia farinosa - Ambrosia dumosa - Salvia greatae* | | | 33.030.08 | |
| *Encelia farinosa - Ambrosia dumosa - Senna armata* | | | 33.030.09 | |
| *Encelia farinosa - Artemisia californica* | | | 33.030.04 | |
| *Encelia farinosa - Eriogonum fasciculatum - Agave deserti* | | | *33.030.03 | |
| *Encelia farinosa - Mirabilis californica* | | | 33.030.06 | |
| *Encelia farinosa - Peucephyllum schottii* | | | *33.030.02 | |
| *Larrea tridentata* (Creosote bush scrub) Alliance | Creosote bush scrub | G5 S5 (some associations are of high priority for | 33.010.00 | |
| *Larrea tridentata* | | | 33.140.04 | |
| *Larrea tridentata - Atriplex confertifolia* | | | 33.010.17 | |
| *Larrea tridentata - Atriplex hymenelytra* | | | 33.010.16 | |
| *Larrea tridentata - Atriplex polycarpa* | | | 33.010.12 | |
| *Larrea tridentata - Ephedra nevadensis* | | | 33.010.10 | |
| *Larrea tridentata - Krameria grayi - Pleuraphis rigida* | | | *33.010.07 | |
| *Larrea tridentata - Pleuraphis rigida* | | | *33.010.13 | |
| *Larrea tridentata - Pleuraphis rigida - Lycium andersonii* | | | *33.010.14 | |
| *Larrea tridentata / cryptogamic crust* | | | 33.010.19 | |
| *Larrea tridentata / Eriogonum inflatum* | | | 33.010.09 | |
| *Larrea tridentata / wash* | | | 33.010.06 | |
| *Larrea tridentata - Ambrosia salsola* | | | 33.010.08 | |
| *Larrea tridentata - Ambrosia dumosa* (Creosote bush - white burr sage scrub) Alliance | Creosote bush - white burr sage scrub | G5 S5 (some associations are of high priority for | 33.140.00 | |
| Sonoran Creosote Bush Scrub | | G4 S4 | | CTT33100CA |
| Mojave Creosote Bush Scrub | | G4 S4 | | CTT34100CA |
| *Larrea tridentata - Ambrosia dumosa* | | | 33.140.42 | |
| *Larrea tridentata - Ambrosia dumosa - / Atriplex hymenelytra* | | | 33.140.09 | |
| *Larrea tridentata - Ambrosia dumosa - Amphipappus fremontii* | | | 33.140.40 | |
| *Larrea tridentata - Ambrosia dumosa - Atriplex canescens* | | | 33.140.37 | |
| *Larrea tridentata - Ambrosia dumosa - Atriplex confertifolia* | | | 33.140.39 | |
| *Larrea tridentata - Ambrosia dumosa - Atriplex confertifolia - Psorothamnus arborescens* | | | 33.140.45 | |
| *Larrea tridentata - Ambrosia dumosa - Atriplex polycarpa* | | | 33.140.38 | |
| *Larrea tridentata - Ambrosia dumosa - Bebbia juncea* | | | 33.140.36 | |
| *Larrea tridentata - Ambrosia dumosa - Cylindropuntia acanthocarpa* | | | 33.140.46 | |
| *Larrea tridentata - Ambrosia dumosa - Cylindropuntia ramosissima* | | | 33.140.18 | |
| *Larrea tridentata - Ambrosia dumosa - Echinocactus polycephalus* | | | *33.140.33 | |
| *Larrea tridentata - Ambrosia dumosa - Encelia farinosa* | | | 33.140.32 | |
| *Larrea tridentata - Ambrosia dumosa - Encelia virginensis* | | | *33.140.31 | |
| *Larrea tridentata - Ambrosia dumosa - Ephedra californica* | | | *33.140.30 | |
| *Larrea tridentata - Ambrosia dumosa - Ephedra funerea* | | | *33.140.29 | |
| *Larrea tridentata - Ambrosia dumosa - Ephedra nevadensis* | | | 33.140.20 | |
| *Larrea tridentata - Ambrosia dumosa - Ephedra viridis* | | | 33.140.47 | |
| *Larrea tridentata - Ambrosia dumosa - Ericameria cooperi* | | | 33.140.48 | |
| *Larrea tridentata - Ambrosia dumosa - Eriogonum fasciculatum* | | | 33.140.28 | |
| *Larrea tridentata - Ambrosia dumosa - Eriogonum inflatum* | | | 33.140.27 | |
| *Larrea tridentata - Ambrosia dumosa - Fouquieria splendens* | | | 33.140.44 | |
| *Larrea tridentata - Ambrosia dumosa - Galium angustifolium - Lyrocarpa coulteri* | | | *33.140.10 | |
| *Larrea tridentata - Ambrosia dumosa - Grayia spinosa* | | | 33.140.26 | |
| *Larrea tridentata - Ambrosia dumosa - Gutierrezia sarothrae* | | | 33.140.25 | |
| *Larrea tridentata - Ambrosia dumosa - Krameria erecta* | | | 33.140.23 | |
| *Larrea tridentata - Ambrosia dumosa - Krameria grayii* | | | 33.140.22 | |
| *Larrea tridentata - Ambrosia dumosa - Lepidium fremontii* | | | 33.140.21 | |
| *Larrea tridentata - Ambrosia dumosa - Lycium andersonii* | | | 33.140.19 | |
| *Larrea tridentata - Ambrosia dumosa - Olneya tesota* | | | 33.140.49 | |
| *Larrea tridentata - Ambrosia dumosa - Opuntia basilaris* | | | 33.140.43 | |

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| *Larrea tridentata - Ambrosia dumosa - Petalonyx thurberi* | | | *33.140.24 | |
| *Larrea tridentata - Ambrosia dumosa - Pleuraphis rigida* | | | *33.140.17 | |
| *Larrea tridentata - Ambrosia dumosa - Psorothamnus arborescens* | | | 33.140.15 | |
| *Larrea tridentata - Ambrosia dumosa - Psorothamnus emoryi - sandy* | | | *33.140.08 | |
| *Larrea tridentata - Ambrosia dumosa - Psorothamnus fremontii* | | | 33.140.16 | |
| *Larrea tridentata - Ambrosia dumosa - Psorothamnus schottii* | | | *33.140.07 | |
| *Larrea tridentata - Ambrosia dumosa - Psorothamnus spinosus* | | | 33.140.50 | |
| *Larrea tridentata - Ambrosia dumosa - Salazaria mexicana* | | | 33.140.14 | |
| *Larrea tridentata - Ambrosia dumosa - Senna armata* | | | 33.140.13 | |
| *Larrea tridentata - Ambrosia dumosa - Viguiera parishii* | | | 33.140.12 | |
| *Larrea tridentata - Ambrosia dumosa - Yucca schidigera* | | | 33.140.11 | |
| *Larrea tridentata - Ambrosia dumosa / Crytogrammic crust* | | | *33.140.35 | |
| *Larrea tridentata - Ambrosia dumosa / Dalea mollissima* | | | *33.140.34 | |
| *Larrea tridentata - Encelia farinosa* (Creosote bush - brittle bush scrub) Alliance | Creosote bush - brittle bush scrub | G5 S4 | 33.027.00 | |
| *Larrea tridentata - Encelia farinosa* | | | 33.027.05 | |
| *Larrea tridentata - Encelia farinosa - Ambrosia dumosa* | | | 33.027.03 | |
| *Larrea tridentata - Encelia farinosa - Bebbia juncea* | | | 33.027.02 | |
| *Larrea tridentata - Encelia farinosa - Fouquieria splendens* | | | 33.027.04 | |
| *Larrea tridentata - Encelia farinosa - Peucephyllum schottii* | | | 33.027.06 | |
| *Larrea tridentata - Encelia farinosa - Pleurocoronis pluriseta* | | | 33.027.07 | |
| Sonoran Mixed Woody and Succulent Scrub | | G4 S3.2 | | CTT33220CA |
| *Cylindropuntia bigelovii* (Teddy bear cholla patches) Alliance | Teddy bear cholla patches | G4 S3 | *33.050.00 | |
| *Cylindropuntia bigelovii* | | | *33.050.01 | |
| *Pleuraphis rigida* (Big galleta shrub-steppe) Alliance | Big galleta shrub-steppe | G3 S2 | *41.030.00 | |
| *Pleuraphis rigida* | | | *41.030.01 | |
| *Pleuraphis rigida - Dalea mollissima* | | | *41.030.04 | |
| *Pleuraphis rigida / Acamptopappus sphaerocephalus* | | | *41.030.02 | |
| *Pleuraphis rigida / Ambrosia dumosa* | | | *41.030.06 | |
| *Pleuraphis rigida / Atriplex canescens* | | | *41.030.05 | |
| *Pleuraphis rigida / Ephedra californica* | | | *41.030.07 | |
| *Pleuraphis rigida / Ericameria cooperi* | | | *41.030.03 | |
| *Pleuraphis rigida / Larrea tridentata* | | | *41.030.08 | |
| *Tidestromia oblongifolia* (Arizona honey sweet sparse scrub) Provisional Alliance | Arizona honey sweet sparse scrub | G3 S3 | *33.330.00 | |
| *Parkinsonia microphylla* (Foothill palo verde desert scrub) Alliance | Foothill palo verde desert scrub | G4 S1 | *33.150.00 | |
| Arizonan Woodland | | G3 S1.2 | | *CTT75400CA |
| *Prunus fremontii* (Desert apricot scrub) Alliance | Desert apricot scrub | G4 S3 | *33.220.00 | |
| *Prunus fremontii* | | | *33.220.01 | |
| *Simmondsia chinensis* (Jojoba scrub) Provisional Alliance | Jojoba scrub | G4 S3? | *33.005.00 | |
| *Simmondsia chinensis - Eriogonum fasciculatum - Opuntia parryi* | | | *33.005.01 | |
| *Tetracoccus hallii* (Hall's shrubby-spurge patches) Provisional Alliance | Hall's shrubby-spurge patches | G2 S1 | *33.350.00 | |
| *Viguiera parishii* (Parish's goldeneye scrub) Alliance | Parish's goldeneye scrub | G4 S4 (some associations are of high priority for | 33.032.00 | |
| *Viguiera parishii* | | | 33.032.03 | |
| *Viguiera parishii - Agave deserti* | | | *33.032.01 | |
| *Viguiera parishii - Encelia farinosa* | | | 33.032.04 | |
| *Viguiera parishii - Eriogonum fasciculatum* | | | 33.032.02 | |
| *Viguiera parishii - Salvia dorrii* | | | *33.032.05 | |
| *Ziziphus obtusifolia* (Graythorn patches) Special Stands | Graythorn patches | G2 S2? | *33.225.00 | |
| *Menodora spinescens* (Spiny menodora scrub) Alliance | Spiny menodora scrub | G4 S3 | *33.290.00 | |
| *Menodora spinescens - Atriplex confertifolia* | | | *33.290.01 | |
| *Menodora spinescens - Ephedra nevadensis* | | | *33.290.02 | |
| *Salazaria mexicana* (Bladder sage scrub) Alliance | Bladder sage scrub | G4 S4 | 33.310.00 | |
| *Salazaria mexicana* | | | 33.310.01 | |
| *Salazaria mexicana - Ambrosia salsola - Eriogonum fasciculatum* | | | 33.310.03 | |
| *Salazaria mexicana - Viguieria reticulata - Atriplex confertifolia* | | | 33.310.02 | |
| *Yucca brevifolia* (Joshua tree woodland) Alliance | Joshua tree woodland | G4 S3 | *33.170.00 | |
| Joshua Tree Woodland | | G4 S3.2 | | CTT73000CA |
| *Yucca brevifolia* | | | *33.170.01 | |
| *Yucca brevifolia / Ephedra nevadensis* | | | *33.170.20 | |
| *Yucca brevifolia / Yucca baccata / Pleuraphis jamesii* | | | *33.170.18 | |
| *Yucca brevifolia / Artemisia tridentata - Atriplex confertifolia* | | | *33.170.04 | |
| *Yucca brevifolia / Coleogyne ramosissima* | | | *33.170.02 | |
| *Yucca brevifolia / Cylindropuntia acanthocarpa* | | | *33.170.06 | |
| *Yucca brevifolia / Gutierrezia microcephala / Pleuraphis rigida* | | | *33.170.14 | |
| *Yucca brevifolia / Juniperus californica / Coleogyne ramosissima* | | | *33.170.03 | |
| *Yucca brevifolia / Juniperus californica / Ephedra nevadensis* | | | *33.170.19 | |
| *Yucca brevifolia / Larrea tridentata - Yucca schidigera* | | | *33.170.10 | |
| *Yucca brevifolia / Larrea tridentata - Ambrosia dumosa - Eriogonum fasciculatum* | | | *33.170.11 | |
| *Yucca brevifolia / Larrea tridentata - Pleuraphis rigida* | | | *33.170.15 | |
| *Yucca brevifolia / Lycium andersonii* | | | *33.170.08 | |
| *Yucca brevifolia / Pleuraphis (rigida, jamesii)* | | | *33.170.07 | |

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| *Yucca brevifolia / Pleuraphis rigida* | | | *33.170.16 | |
| *Yucca brevifolia / Pleuraphis rigida - Muhlenbergia porteri* | | | *33.170.17 | |
| *Yucca brevifolia / Prunus fasciculata* | | | *33.170.13 | |
| *Yucca brevifolia / Salazaria mexicana* | | | *33.170.09 | |
| *Yucca schidigera* (Mojave yucca scrub) Alliance | Mojave yucca scrub | G4 S4 (some associations are of high priority for | 33.070.00 | |
| Mojave Yucca Scrub and Steppe | | G3 S3.2 | | *CTT34230CA |
| *Yucca schidigera* | | | 33.070.01 | |
| *Yucca schidigera - Ambrosia dumosa* | | | 33.070.03 | |
| *Yucca schidigera - Coleogyne ramosissima* | | | 33.070.04 | |
| *Yucca schidigera - Cylindropuntia acanthocarpa* | | | *33.070.08 | |
| *Yucca schidigera - Ephedra nevadensis* | | | 33.070.02 | |
| *Yucca schidigera - Eriogonum fasciculatum* | | | 33.070.07 | |
| *Yucca schidigera - Larrea tridentata - Agave deserti* | | | *33.070.11 | |
| *Yucca schidigera - Larrea tridentata - Ambrosia dumosa* | | | 33.070.05 | |
| *Yucca schidigera - Larrea tridentata - Ephedra nevadensis* | | | 33.070.06 | |
| *Yucca schidigera - Larrea tridentata - Simmondsia chinensis* | | | *33.070.10 | |
| *Yucca schidigera - Viguiera parishii* | | | 33.070.09 | |
| *Yucca schidigera / Pleuraphis rigida* | | | 33.070.12 | |
| *Coreopsis gigantea* (Giant coreopsis scrub) Alliance | Giant coreopsis scrub | G3 S3? | *43.100.00 | |
| *Coreopsis gigantea - Artemisia californica - Eriogonum cinereum* | | | *43.100.01 | |
| *Coreopsis gigantea - Ericameria ericoides - Encelia californica* | | | *43.100.02 | |
| *Lycium californicum* (California desert-thorn) Provisional Alliance | California desert-thorn | G2? S2? | *33.365.00 | |
| *Opuntia littoralis* (Coast prickly pear scrub) Alliance | Coast prickly pear scrub | G4 S3 | *32.150.00 | |
| Maritime Succulent Scrub | | G2 S1.1 | | *CTT32400CA |
| *Opuntia littoralis - Eriogonum fasciculatum - Malosma laurina* | | | *32.150.01 | |
| *Opuntia littoralis - mixed coastal sage scrub* | | | *32.150.02 | |
| *Bursera microphylla* (Elephant tree stands) Special Stands | Elephant tree stands | G4 S1 | *33.120.00 | |
| Elephant Tree Woodland | | G3 S1.2 | | *CTT75100CA |
| Desert Dry Wash Woodland | | G3 S3.2 | | *CTT62200CA |
| Mojave Wash Scrub | | G3 S3.2 | | *CTT34250CA |
| Mojave Desert Wash Scrub | | G3 S3.2 | | *CTT63700CA |
| *Acacia greggii* (Catclaw acacia thorn scrub) Alliance | Catclaw acacia thorn scrub | G5 S4 (some associations are of high priority for | 33.040.00 | |
| *Acacia greggii - Ambrosia eriocentra* | | | *33.040.08 | |
| *Acacia greggii - Ambrosia salsola* | | | 33.040.05 | |
| *Acacia greggii - annual herbs (Bromus rubens)* | | | 33.040.02 | |
| *Acacia greggii - Bebbia juncea* | | | 33.040.10 | |
| *Acacia greggii - Encelia virginensis* | | | 33.040.12 | |
| *Acacia greggii - Eriogonum fasciculatum* | | | 33.040.13 | |
| *Acacia greggii - Hyptis emoryi* | | | 33.040.03 | |
| *Acacia greggii - Prunus fasciculata* | | | 33.040.07 | |
| *Acacia greggii - Salvia dorrii* | | | 33.040.09 | |
| *Acacia greggii - Viguiera parishii* | | | 33.040.06 | |
| *Acacia greggii / Eriogonum nudum var. pauciflorum* | | | *33.040.11 | |
| *Acacia greggii wash (Justicia californica)* | | | 33.040.01 | |
| *Ephedra californica* (California joint fir scrub) Alliance | California joint fir scrub | G3 S3 | *33.270.00 | |
| Monvero Residual Dunes | | G1 S1.2 | | *CTT23300CA |
| *Ephedra californica* | | | *33.270.01 | |
| *Ephedra californica - Ambrosia salsola* | | | *33.270.02 | |
| *Ephedra californica - Gutierrezia californica / Eriastrum pluriflorum* | | | *33.270.04 | |
| *Ephedra californica / annual - perennial herb* | | | *33.270.03 | |
| *Ericameria paniculata* (Black-stem rabbitbrush scrub) Alliance | Black-stem rabbitbrush scrub | G4 S3 | *35.340.00 | |
| *Ericameria paniculata* | | | *35.340.01 | |
| *Ericameria paniculata - Ambrosia eriocentra* | | | *35.340.03 | |
| *Ericameria paniculata - Ambrosia salsola* | | | *35.340.02 | |
| *Ericameria parryi* (Parry's rabbitbrush scrub) Alliance | Parry's rabbitbrush scrub | G4 S3 | *35.340.00 | |
| *Ericameria parryi / Gayophytum diffusum* | | | *35.320.01 | |
| *Lepidospartum squamatum* (Scale broom scrub) Alliance | Scale broom scrub | G3 S3 | *32.070.00 | |
| *Lepidospartum squamatum - Artemisia californica* | | | *32.070.09 | |
| *Lepidospartum squamatum - Atriplex canescens* | | | *32.070.04 | |
| *Lepidospartum squamatum - Baccharis salicifolia* | | | *32.070.05 | |
| *Lepidospartum squamatum - Eriodictyon crassifolium - Hesperoyucca whipplei* | | | *32.070.02 | |
| *Lepidospartum squamatum - Eriodictyon trichocalyx - Hesperoyucca whipplei* | | | *32.070.08 | |
| *Lepidospartum squamatum - Eriogonum fasciculatum* | | | *32.070.06 | |
| *Lepidospartum squamatum / Amsinckia menziesii* | | | *32.070.07 | |
| *Lepidospartum squamatum / ephemeral annuals* | | | *32.070.03 | |
| *Prunus fasciculata* (Desert almond scrub) Alliance | Desert almond scrub | G4 S3 | *33.300.00 | |
| *Prunus fasciculata* | | | *33.300.01 | |
| *Prunus fasciculata - (Viguiera reticulata - Mortonia utahensis) limestone* | | | *33.300.06 | |
| *Prunus fasciculata - Ambrosia eriocentra* | | | *33.300.05 | |
| *Prunus fasciculata - Purshia stansburiana* | | | *33.300.04 | |

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| *Prunus fasciculata - Rhus trilobata* | | | *33.300.03 | |
| *Prunus fasciculata - Salazaria mexicana* | | | *33.300.02 | |
| *Viguiera reticulata* (Net-veined goldeneye scrub) Alliance | Net-veined goldeneye scrub | G3 S3? | *33.033.00 | |
| *Viguiera reticulata* | | | *33.033.01 | |
| *Agave deserti* (Desert agave scrub) Alliance | Desert agave scrub | G3 S3 | *33.075.00 | |
| *Agave deserti - Ambroia salsola (wash and terrace)* | | | *33.075.01 | |
| *Agave deserti - Yucca schidigera* | | | *33.075.02 | |
| *Castela emoryi* (Crucifixion thorn stands) Special Stands | Crucifixion thorn stands | G2 S1 | *33.110.00 | |
| *Chilopsis linearis* (Desert willow woodland) Alliance | Desert willow woodland | G4 S3 | *61.550.00 | |
| *Chilopsis linearis* | | | *61.550.01 | |
| *Chilopsis linearis / Ambrosia salsola* | | | *61.550.02 | |
| *Chilopsis linearis / Atriplex polycarpa* | | | *61.550.08 | |
| *Chilopsis linearis / Ericameria paniculata* | | | *61.550.07 | |
| *Chilopsis linearis / Prunus fasciculata* | | | *61.550.04 | |
| *Chilopsis linearis / Prunus fasciculata - Ambrosia salsola* | | | *61.550.03 | |
| *Chilopsis linearis / Salvia dorrii* | | | *61.550.05 | |
| *Chilopsis linearis / Viguiera parishii* | | | *61.550.06 | |
| *Hyptis emoryi* (Desert lavender scrub) Alliance | Desert lavender scrub | G4 S3 | *33.190.00 | |
| *Hyptis emoryi* | | | *33.190.01 | |
| *Hyptis emoryi - Psorothamnus schottii* | | | *33.190.02 | |
| *Justicia californica* (Chuparosa patches) Provisional Alliance | Chuparosa patches | G2 S2? | *33.340.00 | |
| *Koeberlinia spinosa* (Crown-of-thorns stands) Special Stands | Crown-of-thorns stands | G2 S1 | *33.100.00 | |
| All Thorn Woodland | | G3 S1.1 | | *CTT75300CA |
| *Parkinsonia florida - Olneya tesota* (Blue palo verde - Ironwood woodland) Alliance | Blue palo verde - Ironwood woodland | G4 S3 | *61.545.00 | |
| *Parkinsonia florida* | | | *61.545.05 | |
| *Parkinsonia florida - Acacia greggii - Encelia frutescens Parkinsonia florida* | | | *61.545.06 | |
| *Parkinsonia florida - Olneya tesota* | | | *61.545.10 | |
| *Parkinsonia florida - Olneya tesota / Cylindropuntia munzii* | | | *61.545.12 | |
| *Parkinsonia florida - Olneya tesota / Hyptis emoryi* | | | *61.545.11 | |
| *Parkinsonia florida / Chilopsis linearis* | | | *61.545.07 | |
| *Parkinsonia florida / Hyptis emoryi* | | | *61.545.08 | |
| *Parkinsonia florida / Larrea tridentata - Peucephyllum schottii* | | | *61.545.09 | |
| *Olneya tesota* | | | *61.545.01 | |
| *Olneya tesota - Psorothamnus schottii* | | | *61.545.02 | |
| *Olneya tesota / Hyptis emoryi* | | | *61.545.04 | |
| *Olneya tesota / Larrea tridentata - Encelia farinosa* | | | *61.545.03 | |
| *Pluchea sericea* (Arrow weed thickets) Alliance | Arrow weed thickets | G3 S3 | *63.710.00 | |
| Arrowweed Scrub | | G3 S3.3 | | *CTT63820CA |
| *Pluchea sericea* | | | *63.710.01 | |
| *Pluchea sericea - Allenrolfea occidentalis* | | | *63.710.02 | |
| *Pluchea sericea - Atriplex canescens* | | | *63.710.03 | |
| *Prosopis glandulosa* (Mesquite bosque, mesquite thicket) Alliance | Mesquite bosque, mesquite thicket | G5 S3 | *61.512.00 | |
| Great Valley Mesquite Scrub | | G1 S1.1 | | *CTT63420CA |
| Mesquite Bosque | | G3 S2.1 | | *CTT61820CA |
| *Prosopis glandulosa* | | | *61.512.01 | |
| *Prosopis glandulosa - Salix exigua - Salix lasiolepis* | | | *61.512.09 | |
| *Prosopis glandulosa - Sambucus nigra* | | | *61.512.02 | |
| *Prosopis glandulosa / Atriplex canescens* | | | *61.512.04 | |
| *Prosopis glandulosa / Atriplex spp. (alkaline)* | | | *61.512.03 | |
| *Prosopis glandulosa / Bebbia juncea - Petalonyx thurberi (wash)* | | | *61.512.05 | |
| *Prosopis glandulosa / Pluchea sericea - Atriplex canescens (alkaline spring)* | | | *61.512.06 | |
| *Prosopis glandulosa / Rhus ovata (upper desert spring)* | | | *61.512.07 | |
| *Prosopis glandulosa / Suaeda moquinii* | | | *61.512.08 | |
| *Prosopis pubescens* (Screwbean mesquite bosques) Alliance | Screwbean mesquite bosques | G3 S2 | *61.513.00 | |
| *Prosopis / Atriplex spp. (alkaline)* | | | *61.513.01 | |
| *Prosopis / Bebbia juncea - Petalonyx thurberi (wash)* | | | *61.513.03 | |
| *Prosopis / Pluchea sericea - Atriplex canescens (alkaline spring)* | | | *61.513.02 | |
| *Psorothamnus spinosus* (Smoke tree woodland) Alliance | Smoke tree woodland | G4 S3 | *61.570.00 | |
| *Psorothamnus spinosus* | | | *61.570.01 | |
| *Psorothamnus spinosus - Acacia greggii - Chrysothamnus sp* | | | *61.570.06 | |
| *Psorothamnus spinosus / Ambrosia salsola - Bebbia juncea* | | | *61.570.02 | |
| *Psorothamnus spinosus / Ephedra californica - Ambrosia salsola* | | | *61.570.03 | |
| *Psorothamnus spinosus / Hyptis emoryi - Acacia greggii* | | | *61.570.04 | |
| Crucifixion Thorn Woodland | | G3 S1.2 | | *CTT75200CA |
| *Atriplex confertifolia* (Shadscale scrub) Alliance | Shadscale scrub | G5 S4 | 36.320.00 | |
| *Atriplex confertifolia* | | | 36.320.10 | |
| *Atriplex confertifolia - Grayia spinosa - Encelia virginensis var. actoni* | | | 36.320.09 | |
| *Atriplex confertifolia - Ambrosia dumosa* | | | 36.320.03 | |
| *Atriplex confertifolia - Atriplex canescens* | | | 36.320.06 | |
| *Atriplex confertifolia - Coleogyne ramosissima* | | | 36.320.04 | |

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| *Atriplex confertifolia - Ephedra nevadensis* | | | 36.320.02 | |
| *Atriplex confertifolia - Gutierrezia microcephala - Tetradymia axillaris* | | | 36.320.05 | |
| *Atriplex confertifolia - Krascheninnikovia lanata* | | | 36.320.08 | |
| *Atriplex confertifolia - Lycium andersonii* | | | 36.320.07 | |
| *Atriplex confertifolia / cryptogramic crust* | | | 36.320.11 | |
| *Atriplex canescens (*Fourwing saltbush scrub) Alliance | Fourwing saltbush scrub | G5 S4 | 36.310.00 | |
| *Atriplex canescens* | | | 36.310.01 | |
| *Atriplex canescens - Krascheninnikovia lanata* | | | 36.310.02 | |
| Shadscale Scrub | | G4 S3.2 | | CTT36140CA |
| Mono Pumice Flat | | G1 S1.2 | | *CTT35410CA |
| *Encelia virginensis* (Virgin River brittle brush scrub) Alliance | Virgin River brittle brush scrub | G4 S3 | *33.025.00 | |
| *Encelia virginensis* | | | *33.025.01 | |
| *Encelia virginensis - Salvia dorrii* | | | *33.025.02 | |
| *Ericameria nauseosa* (Rubber rabbitbrush scrub) Alliance | Rubber rabbitbrush scrub | G5 S5 | 35.310.00 | |
| Rabbitbrush Scrub | | G5 S5 | | CTT35400CA |
| *Ericameria nauseosa - Juniperus californica / annual to perennial herb* | | | 35.310.01 | |
| *Ericameria nauseosa / Sporobolus airoides* | | | 35.310.02 | |
| *Ericameria teretifolia* (Needleleaf rabbitbrush scrub) Alliance | Needleleaf rabbitbrush scrub | G4 S4 | 35.330.00 | |
| *Ericameria teretifolia* | | | 35.330.01 | |
| *Gutierrezia sarothrae* (Broom snake weed scrub) Provisional Alliance | Broom snake weed scrub | G3 S3 | *32.043.00 | |
| *Salvia dorrii* (Desert purple sage scrub) Alliance | Desert purple sage scrub | G3 S2 | *33.320.00 | |
| *Salvia dorrii* | | | *33.320.01 | |
| *Artemisia rothrockii* (Rothrock's sagebrush) Alliance | Rothrock's sagebrush | G3 S3 | *35.140.00 | |
| *Artemisia rothrockii / Monardella odoratissima* | | | *35.140.02 | |
| *Artemisia rothrockii / Penstemon heterodoxus* | | | *35.140.01 | |
| *Artemisia tridentata* (Big sagebrush) Alliance | Big sagebrush | G5 S5 | 35.110.00 | |
| Big Sagebrush Scrub | | G4 S4 | | CTT35210CA |
| Sagebrush Steppe | | G2 S2.1 | | *CTT35300CA |
| *Artemisia tridentata* | | | 35.110.02 | |
| *Artemisia tridentata - Artemisia nova* | | | 35.110.11 | |
| *Artemisia tridentata - Chrysothamnus viscidiflorus* | | | 35.110.12 | |
| *Artemisia tridentata - Coleogyne ramosissima* | | | 35.110.05 | |
| *Artemisia tridentata - Encelia virginensis* | | | 35.110.06 | |
| *Artemisia tridentata - Ephedra nevadensis* | | | 35.110.13 | |
| *Artemisia tridentata - Ericameria nauseosa* | | | 35.110.01 | |
| *Artemisia tridentata - Ericameria teretifolia* | | | 35.110.14 | |
| *Artemisia tridentata - Eriogonum fasciculatum* | | | 35.110.09 | |
| *Artemisia tridentata - Eriogonum wrightii* | | | 35.110.10 | |
| *Artemisia tridentata - Purshia tridentata* | | | 35.110.07 | |
| *Artemisia tridentata - Purshia tridentata / Hesperostipa comata* | | | 35.110.15 | |
| *Artemisia tridentata - Symphoricarpos longiflorus* | | | 35.110.04 | |
| *Artemisia tridentata ssp. vaseyana* (Mountain big sagebrush) Alliance | Mountain big sagebrush | G5 S5 | 35.111.00 | |
| Subalpine Sagebrush Scrub | | G3 S3.2 | | *CTT35220CA |
| *Artemisia tridentata ssp. vaseyana* | | | 35.111.02 | |
| *Artemisia tridentata ssp. vaseyana - Purshia tridentata / Festuca idahoensis* | | | 35.111.03 | |
| *Artemisia tridentata ssp. vaseyana / Carex exserta* | | | 35.111.01 | |
| *Artemisia tridentata ssp. vaseyana / Monardella odoratissima* | | | 35.111.04 | |
| *Artemisia arbuscula ssp. arbuscula* (Little sagebrush scrub) Alliance | Little sagebrush scrub | G5 S4 (some associations are of high priority for | 35.120.00 | |
| *Artemisia arbuscula* | | | 35.120.07 | |
| *Artemisia arbuscula - Eriogonum microthecum* | | | *35.120.05 | |
| *Artemisia arbuscula / Carex exserta* | | | 35.120.06 | |
| *Artemisia arbuscula / Castilleja applegatei* | | | 35.120.08 | |
| *Artemisia arbuscula / Castilleja schizotrichia* | | | 35.120.09 | |
| *Artemisia arbuscula / Eriogonum nudum - Monardella odoratissima* | | | 35.120.10 | |
| *Artemisia arbuscula / Festuca idahoensis* | | | *35.120.03 | |
| *Artemisia arbuscula / Leptodactylon pungens* | | | 35.120.04 | |
| *Artemisia arbuscula / Stenotus acaulis - Geum canescens* | | | 35.120.02 | |
| *Artemisia arbuscula / Stenotus acaulis - Linanthus pungens* | | | 35.120.11 | |
| *Artemisia arbuscula / Stenotus acaulis - Tetradymia canescens* | | | 35.120.12 | |
| *Artemisia arbuscula / Trifolium andersonii ssp. monoense* | | | *35.120.01 | |
| *Artemisia arbuscula ssp. longicaulis* (Lahontan sagebrush scrub) Provisional Alliance | Lahontan sagebrush scrub | G5 S4? | 35.121.00 | |
| *Artemisia nova* (Black sagebrush scrub) Alliance | Black sagebrush scrub | G4 S3 | *35.130.00 | |
| Pebble Plains | | G1 S1.1 | | *CTT47000CA |
| *Artemisia nova* | | | *35.130.01 | |
| *Artemisia nova - Ambrosia salsola* | | | *35.130.03 | |
| *Artemisia nova - Echinocereus engelmannii* | | | *35.130.02 | |
| Great Basin Mixed Scrub | | G4 S4 | | CTT35100CA |
| *Ephedra nevadensis* (Nevada joint fir scrub) Alliance | Nevada joint fir scrub | G4 S4 | 33.280.00 | |
| *Ephedra nevadensis* | | | 33.280.01 | |
| *Ephedra nevadensis - Atriplex confertifolia* | | | 33.280.02 | |

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| *Ephedra nevadensis - Ericameria cooperi* | | | 33.280.05 | | |
| *Ephedra nevadensis - Lycium andersonii* | | | 33.280.04 | | |
| *Ephedra nevadensis - Salazaria mexicana* | | | 33.280.03 | | |
| *Ephedra viridis* (Mormon tea scrub) Alliance | Mormon tea scrub | G4 S4 (some associations are of high priority for | 33.285.00 | | |
| *Ephedra viridis - Artemisia tridentata* | | | 33.285.01 | | |
| *Grayia spinosa* (Spiny hop sage scrub) Alliance | Spiny hop sage scrub | G5 S3 | *33.180.00 | | |
| *Grayia spinosa - Atriplex confertifolia* | | | *33.180.02 | | |
| *Grayia spinosa - Ephedra viridis* | | | *33.180.06 | | |
| *Grayia spinosa - Larrea tridentata* | | | *33.180.03 | | |
| *Grayia spinosa - Lycium andersonii* | | | *33.180.04 | | |
| *Grayia spinosa - Picrothamnus desertorum / Achnatherum hymenoides* | | | *33.180.07 | | |
| *Grayia spinosa / Eriogonum ovalifolium* | | | *33.180.05 | | |
| *Krascheninnikovia lanata* (Winterfat scrubland) Alliance | Winterfat scrubland | G4 S2 | *36.500.00 | | |
| *Krascheninnikovia lanata* | | | *36.500.01 | | |
| *Lycium andersonii* (Anderson's boxthorn scrub) Alliance | Anderson's boxthorn scrub | G4 S3 | *33.360.00 | | |
| *Lycium andersonii* | | | *33.360.02 | | |
| *Lycium andersonii - Simmondsia chinensis - Pleuraphis rigida* | | | *33.360.01 | | |
| *Cercocarpus intricatus* (Small leaf mountain mahogany scrub) Provisional Alliance | Small leaf mountain mahogany scrub | G4 S3? | *76.300.00 | | |
| *Cerocarpus intricatus* | | | *76.300.01 | | |
| *Cercocarpus ledifolius* (Curl leaf mountain mahogany scrub) Alliance | Curl leaf mountain mahogany scrub | G5 S4 | 76.200.00 | | |
| *Cercocarpus ledifolius* | | | 76.200.03 | | |
| *Cercocarpus ledifolius - Artemisia tridentata* | | | 76.200.01 | | |
| *Cercocarpus ledifolius / Symphoricarpos rotundifolia* | | | 76.200.02 | | |
| *Coleogyne ramosissima* (Black brush scrub) Alliance | Black brush scrub | G5 S4 (some associations are of high priority for | 33.020.00 | | |
| Blackbush Scrub | | G3 S3.2 | | *CTT34300CA | |
| *Coleogyne ramosissima* | | | *33.020.01 | | |
| *Coleogyne ramosissima - Atriplex confertifolia* | | | 33.020.02 | | |
| *Coleogyne ramosissima - Atriplex hymenelytra - Tetradymia axillaris* | | | 33.020.10 | | |
| *Coleogyne ramosissima - Ephedra nevadensis* | | | 33.020.03 | | |
| *Coleogyne ramosissima - Eriogonum fasciculatum* | | | 33.020.05 | | |
| *Coleogyne ramosissima - Eriogonum fasciculatum - Larrea tridentata* | | | 33.020.06 | | |
| *Coleogyne ramosissima - Grayia spinosa* | | | 33.020.11 | | |
| *Coleogyne ramosissima - Guiterrezia microcephala* | | | 33.020.12 | | |
| *Coleogyne ramosissima - Larrea tridentata - Ambrosia dumosa* | | | 33.020.07 | | |
| *Coleogyne ramosissima - Lycium andersonii* | | | 33.020.08 | | |
| *Coleogyne ramosissima - Salazaria mexicana* | | | 33.020.09 | | |
| *Nolina (bigelovii, parryi)* (Nolina scrub) Alliance | Nolina scrub | G3 S2 | *33.080.00 | | |
| *Nolina bigelovii* | | | *33.080.02 | | |
| *Nolina parryi* | | | *33.080.01 | | |
| *Purshia stansburiana* (Stansbury cliff rose scrub) Alliance | Stansbury cliff rose scrub | G3 S3 | *33.240.00 | | |
| *Purshia stansburiana* | | | *33.240.01 | | |
| *Purshia tridentata* (Bitter brush scrub) Alliance | Bitter brush scrub | G4 S3 | *35.200.00 | | |
| *Purshia tridentata - Artemisia tridentata - Symphoricarpos rotundifolia* | | | *35.200.03 | | |
| *Purshia tridentata - Artemisia tridentata - Tetradymia canescens* | | | *35.200.01 | | |
| *Purshia tridentata - Artemisia tridentata / Achnatherum hymenoides* | | | *35.200.02 | | |
| *Purshia tridentata / Achnatherum nelsonii* | | | *35.200.04 | | |
| *Purshia tridentata / Eriogonum umbellatum* | | | *35.200.05 | | |
| Great Basin Grassland | | G1 S1.1 | | *CTT43000CA | |
| *Achnatherum hymenoides* (Indian rice grass grassland) Alliance | Indian rice grass grassland | G4 S1 | *41.120.00 | | |
| *Achnatherum hymenoides - Leptodactylon pungens* | | | *41.120.01 | | |
| *Achnatherum hymenoides - Sphaeralcea ambigua* | | | *41.120.02 | | |
| *Pseudoroegneria spicata* (Bluebunch wheat grass grassland) Alliance | Bluebunch wheat grass grassland | G4 S2 | *41.040.00 | | |
| *Agropyron cristatum* (Crested wheatgrass rangelands) Semi-natural Stands | Crested wheatgrass rangelands | | 42.030.00 | | Invasive sp ranking: Not listed. |
| *Achnatherum speciosum* (Desert needlegrass grassland) Alliance | Desert needlegrass grassland | G4 S2 | *41.090.00 | | |
| *Achnatherum speciosum* | | | *41.090.01 | | |
| *Pleuraphis jamesii* (James' galleta shrub-steppe) Alliance | James' galleta shrub-steppe | G3 S2 | *41.610.00 | | |
| *Pleuraphis jamesii / Ephedra nevadensis* | | | *41.610.03 | | |
| *Pleuraphis jamesii / Eriogonum fasciculatum* | | | *41.610.01 | | |
| *Pleuraphis jamesii / Lycium andersonii* | | | *41.610.02 | | |
| *Kobresia myosuroides* (Pacific bog sedge meadows) Alliance | Pacific bog sedge meadows | G5 S1 | *91.115.00 | | |
| *Kobresia myosuroides - Thalictrum alpinum* | | | *91.115.01 | | |
| *Salix petrophila* (Alpine willow turf) Alliance | Alpine willow turf | G5 S3 | *61.116.00 | | |
| *Salix petrophila* | | | *61.116.01 | | |
| *Salix petrophila - Calamagrostis muiriana* | | | *61.116.03 | | |
| *Salix petrophila - Calamagrostis muriana - Vaccinium caespitosum - Antennaria media* | | | *61.116.02 | | |
| *Salix nivalis* (Snow willow mats) Provisional Alliance | Snow willow mats | G4 S1? | *91.127.00 | | |
| Klamath Cascade Fell Field | | G4 S4 | | CTT91110CA | |
| Sierra Nevada Fell Field | | G4 S4 | | CTT91120CA | |
| Southern California Fell Field | | G1 S1.2 | | *CTT91130CA | |
| White Mountains Fell Field | | G2 S2.2 | | *CTT91140CA | |

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|---|---|---|---|---|
| Wet Alpine Talus and Scree Slope | | G5 S4 | | CTT91210CA |
| Dry Alpine Talus and Scree Slope | | G5 S4 | | CTT91220CA |
| Alpine Dwarf Scrub | | G5 S4 | | CTT94000CA |
| Montane Dwarf Scrub | | G3 S3.2 | | *CTT38000CA |
| Dry Subalpine or Alpine Meadow | | G3 S3.2 | | *CTT45220CA |
| *Calamagrostis muiriana* (Shorthair reed grass meadows) Alliance | Shorthair reed grass meadows | G4 S4 | 45.141.00 | |
| *Calamagrostis muiriana - Oreostemma alpigenum* | | | 45.141.02 | |
| *Calamagrostis muiriana - Ptilagrostis kingii* | | | 45.141.03 | |
| *Calamagrostis muiriana - Trisetum spicatum* | | | 45.141.04 | |
| *Calamagrostis muriana - Juncus drummondii* | | | 45.141.01 | |
| *Carex breweri* (Brewer sedge mats) Alliance | Brewer sedge mats | G4 S3 | *45.150.00 | |
| *Carex breweri* | | | *45.150.01 | |
| *Carex breweri - Cistanthe umbellata* | | | *45.150.03 | |
| *Carex breweri - Poa wheeleri* | | | *45.150.02 | |
| *Carex filifolia* (Shorthair sedge turf) Alliance | Shorthair sedge turf | G4 S4 | 45.140.00 | |
| *Carex filifolia* | | | 45.140.06 | |
| *Carex filifolia - Calamagrostis muiriana* | | | 45.140.09 | |
| *Carex filifolia - Cistanthe monosperma* | | | 45.140.10 | |
| *Carex filifolia - Erigeron algidus* | | | 45.140.05 | |
| *Carex filifolia - Erigeron petiolaris* | | | 45.140.11 | |
| *Carex filifolia - Penstemon heterodoxus* | | | 45.140.08 | |
| *Carex filifolia - Saxifraga aprica* | | | 45.140.07 | |
| *Carex filifolia - Trisetum spicatum* | | | 45.140.01 | |
| *Festuca brachyphylla* (Alpine fescue fell-fields) Alliance | Alpine fescue fell-fields | G4? S3? | *91.170.00 | |
| *Festuca brachyphylla - Penstemon davidsonii* | | | *91.170.02 | |
| *Festuca brachyphylla - Eriogonum ovalifolium* | | | *91.170.01 | |
| *Kalmia microphylla* (Alpine laurel heath) Provisional Alliance | Alpine laurel heath | G4 S3? | *45.406.00 | |
| *Vaccinium cespitosum* (Dwarf bilberry meadows and mats) Alliance | Dwarf bilberry meadows and mats | G4? S3? | *45.405.00 | |
| *Vaccinium cespitosum - Calamagrostis muiriana* | | | *45.405.03 | |
| *Vaccinium cespitosum - Carex filifolia* | | | *45.405.04 | |
| *Vaccinium cespitosum - Carex nigricans* | | | *45.405.00 | |
| *Vaccinium cespitosum - Kalmia microphylla* | | | *45.405.02 | |
| *Carex helleri* (Heller's sedge fell-fields) Alliance | Heller's sedge fell-fields | G4 S2 | *45.145.00 | |
| *Carex helleri - Saxifraga tolmiei - Luzula divaricata* | | | *45.145.03 | |
| *Carex helleri - Arabis platysperma - Penstemon heterodoxus* | | | *45.145.06 | |
| *Carex helleri - Eriogonum incanum - Raillardella argentea* | | | *45.145.05 | |
| *Carex helleri - Poa suksdorfii* | | | *45.145.04 | |
| *Carex spectabilis* (Showy sedge sod) Alliance | Showy sedge sod | G4 S3 | *45.155.00 | |
| *Carex spectabilis - Senecio triangularis* | | | *45.155.02 | |
| *Carex spectabilis - Sibbaldia procumbens* | | | *45.155.01 | |
| *Cassiope mertensiana* (White mountain heather heath) Provisional Alliance | White mountain heather heath | G5 S3? | *91.126.00 | |
| *Saxifraga nidifica* (Pink saxifrage patches) Provisional Alliance | Pink saxifrage patches | G4? S3? | *91.124.00 | |
| *Polygonum minimum* | | | *91.124.03 | |
| *Rhodiola integrifolia - Selaginella watsonii* | | | *91.124.02 | |
| *Saxifraga tolmiei* (Patches of Tolmie's alpine saxifrage) Provisional Alliance | Patches of Tolmie's alpine saxifrage | G4 S3? | *91.125.00 | |
| *Calamagrostis purpurascens* (Fell-fields with purple reed grass) Alliance | Fell-fields with purple reed grass | G4? S4? | 41.211.00 | |
| *Calamagrostis purpurascens - Ericameria parryi var. monocephala - Linanthus pungens* | | | 41.211.02 | |
| *Calamagrostis purpurascens - Linanthus pungens* | | | 41.211.01 | |
| *Calamagrostis purpurascens / Ribes cereum* | | | 41.211.03 | |
| *Carex congdonii* (Congdon's sedge talus) Provisional Alliance | Congdon's sedge talus | G2 S2 | *45.160.00 | |
| *Arnica amplexicaulis - Carex congdonii* | | | *45.160.01 | |
| *Ericameria discoidea - Hulsea algida* (Fell-fields with California heath-goldenrod and Pacific alpine gold) Alliance | Fell-fields with California heath-goldenrod a | G3? S3? | *38.120.00 | |
| *Ericameria discoidea - Linanthus pungens* | | | *38.120.02 | |
| *Ericameria discoidea - Minuartia nuttallii* | | | *38.120.01 | |
| *Hulsea algida* | | | *38.120.04 | |
| *Hulsea algida - Ericameria discoidea - Phacelia hastata* | | | *38.120.05 | |
| *Hulsea algida - Muhlenbergia richardsonis - Achnatherum pinetorum* | | | *38.120.06 | |
| *Oxyria digyna* (Mountain sorrel patches) Provisional Alliance | Mountain sorrel patches | G4 S3? | *91.122.00 | |
| *Astragalus kentrophyta - Draba oligosperma* | | | *91.123.03 | |
| *Phlox covillei* (Coville's phlox fell-fields) Alliance | Coville's phlox fell-fields | G4 S3 | *91.123.00 | |
| *Draba oligosperma - Poa glauca ssp. Rupicola* | | | *91.123.04 | |
| *Festuca minutiflora - Penstemon davidsonii* | | | *91.120.36 | |
| *Ivesia muirii* | | | *91.120.06 | |
| *Phlox covillei - Elymus elymoides - Podistera nevadensis* | | | *91.123.01 | |
| *Phlox covillei - Elymus elymoides - Podistera nevadensis - Erigeron pygmaeus* | | | *91.123.02 | |
| *Phlox covillei - Eriogonum gracilipes* | | | *91.123.09 | |
| *Phlox covillei - Eriogonum incanum* | | | *91.123.05 | |
| *Phlox (covillei) - Ivesia shockleyi* | | | *91.123.07 | |
| *Phlox covillei - Linum lewisii* | | | *91.123.08 | |
| *Podistera nevadensis - Arenaria kingii* | | | *91.120.08 | |

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| *Podistera nevadensis - Erigeron pygmaeus* | | | *91.123.06 | | |
| *Phlox pulvinata* (Cushion phlox fell-fields) Alliance | Cushion phlox fell-fields | G4 S3 | *91.150.00 | | |
| *Phlox pulvinata - Anelsonia eurycarpa* | | | *91.150.02 | | |
| *Phlox pulvinata - Ericameria suffruticosa - Ipomopsis congesta* | | | *91.150.03 | | |
| *Phlox pulvinata - Festuca brachyphylla* | | | *91.150.05 | | |
| *Phlox pulvinata - Ivesia gordonii* | | | *91.150.06 | | |
| *Phlox pulvinata - Lupinus argenteus var. montigenus* | | | *91.150.04 | | |
| *Ruppia (cirrhosa, maritima)* (Ditch-grass or widgeon-grass mats) Alliance | Ditch-grass or widgeon-grass mats | G4? S2 | *52.202.00 | | |
| *Ruppia cirrhosa - algae* | | | *52.202.02 | | |
| *Stuckenia (pectinata) - Potamogeton spp.* (Pondweed mats) Alliance | Pondweed mats | G3G5 S3? | *52.107.00 | | |
| *Potomogeton spp.* | | | *52.107.02 | | |
| *Stuckenia pectinata* | | | *52.107.01 | | |
| *Hydrocotyle (ranunculoides, umbellata)* (Mats of floating pennywort) Alliance | Mats of floating pennywort | G4 S3? | *52.117.00 | | |
| *Hydrocotyle ranunculoides* | | | *52.117.01 | | |
| *Hydrocotyle ranunculoides - Schoenoplectus pungens* | | | *52.117.02 | | |
| *Isoetes (bolanderi, echinospora, howellii, nuttallii, occidentalis)* (Quillwort beds) Provisional Alliance | Quillwort beds | G3 S3? | *52.109.00 | | |
| *Nuphar lutea* (Yellow pond-lily mats) Provisional Alliance | Yellow pond-lily mats | G5 S3? | *52.110.00 | | |
| *Sparganium (angustifolium)* (Mats of bur-reed leaves) Alliance | Mats of bur-reed leaves | G4 S3? | *52.010.00 | | |
| *Sparganium angustifolium* | | | *52.010.01 | | |
| *Azolla (filiculoides, mexicana)* (Mosquito fern mats) Provisional Alliance | Mosquito fern mats | G4 S4 | 52.106.00 | | |
| *Lemna (minor) and Relatives* (Duckweed blooms) Provisional Alliance | Duckweed blooms | G5 S4? | 52.105.00 | | |
| *Ludwigia (hexapetala, peploides)* (Water primrose wetlands) Provisional Semi-natural Stands | Water primrose wetlands | | 52.118.00 | | Invasive sp ranking: Cal-IPC rank: High |
| *Sedum spathulifolium* (Coast Range stonecrop draperies) Provisional Alliance | Coast Range stonecrop draperies | G4? S4? | 43.400.00 | | |
| *Selaginella bigelovii* (Bushy spikemoss mats) Alliance | Bushy spikemoss mats | G4 S3 | *42.062.00 | | |
| *Selaginella bigelovii / Eriogonum fasciculatum* | | | *42.062.01 | | |
| Alpine Glacier | | G5 S2.3 | | CTT93200CA | |
| Alpine Snowbank Margin | | G5 S4 | | CTT91300CA | |
| Alpine Snowfield | | G5 S5 | | CTT93100CA | |
| Alkali Playa Community | | G4 S3.2 | | CTT46000CA | |
| Active Desert Dunes | | G4 S2.2 | | *CTT22100CA | |
| Stabilized and Partially Stabilized Desert Dunes | | G4 S3.2 | | *CTT22200CA | |
| Stabilized and Partially Stabilized Desert Sand Fields | | G4 S3.2 | | *CTT22300CA | |
| *Dicoria canescens - Abronia villosa* (Desert dunes) Alliance | Desert dunes | G3 S2 | *22.100.00 | | |
| *Dicoria canescens* | | | *22.100.01 | | |
| *Panicum urvilleanum* (Desert panic grass patches) Alliance | Desert panic grass patches | G3 S1 | *42.095.00 | | |
| *Panicum urvilleanum* | | | *42.095.01 | | |
| *Swallenia alexandrae* (Patches of Eureka Valley dune grass) Special Stands | Patches of Eureka Valley dune grass | G1 S1 | *41.600.00 | | |
| *Atriplex hymenelytra* (Desert holly scrub) Alliance | Desert holly scrub | G5 S4 | 36.330.00 | | |
| *Atriplex hymenelytra* | | | 36.330.01 | | |
| *Atriplex hymenelytra - Ambrosia dumosa* | | | 36.330.02 | | |
| *Atriplex hymenelytra - Encelia farinosa* | | | 36.330.06 | | |
| *Atriplex hymenelytra - Larrea tridentata - Ambrosia dumosa* | | | 36.330.03 | | |
| *Atriplex hymenelytra - Tidestromea oblongifolia* | | | 36.330.04 | | |
| *Atriplex hymenelytra / rock* | | | 36.330.05 | | |
| *Ephedra funerea* (Death Valley joint fir scrub) Provisional Alliance | Death Valley joint fir scrub | G3? S2? | *33.275.00 | | |

| Classification Level | Classification Level 2 | Initial Reference | Other Reference |
|---|---|---|---|
| Alliance | | Keeler-Wolf et al. 2003b | Evens and Kentner 2006, Klein et al. 2007 |
| Association | | Klein et al. 2007 | |
| Association | | Evens and Kentner 2006 | Griffin 1977, Griffin and Critchfield 1972, Halvorson and Clark 1989, Howard 1992 |
| Association | | Evens and Kentner 2006 | Griffin 1977, Griffin and Critchfield 1972, Halvorson and Clark 1989, Howard 1992 |
| Association | | Keeler-Wolf et al. 2003b | |
| Association | | Keeler-Wolf et al. 2003b | |
| Association | | Evens et al. 2004 | Klein et al. 2007, NatureServe 2007b |
| Alliance | | Keeler-Wolf and Evens 2006 | Barbour 1988, Bowler 1989, Esser 1993c, Holstein |
| Association | | Keeler-Wolf and Evens 2006 | Keeley 1990a, Mullally 1992, 1993, Quinn 1990, Stanford et al. 2000, |
| Association | | Keeler-Wolf and Evens 2006 | Keeley 1990 a, Mullally 1992, 1993, Quinn 1990, Stanford et al. 2000, |
| Association | | Keeler-Wolf and Evens 2006 | Keeley 1990a, Mullally 1992, 1993, Quinn 1990, Stanford et al. 2000, |
| Association | | Keeler-Wolf and Evens 2006 | Keeley 1990a, Mullally 1992, 1993, Quinn 1990, Stanford et al. 2000, |
| Association | | Keeler-Wolf and Evens 2006 | Keeley 1990a, Mullally 1992, 1993, Quinn 1990, Stanford et al. 2000, |
| Association | | Keeler-Wolf and Evens 2006 | Keeley 1990a, Mullally 1992, 1993, Quinn 1990, Stanford et al. 2000, |
| Special Stands | | Griffin and Critchfield 1972 | Bushakra et al. 1999, Junak 1987, Junak et al. 2007, Minnich 1980a, |
| Alliance | | Keeler-Wolf et al. 2003a | Evens and San. 2004, Keeler-Wolf and Evens 2006 |
| Association | | Cooper 1922 | Allen et al. 1989, 1992, Dagit 2002, Dunning et al. 2002, Keeler-Wolf and Evens 2006, Parker 1990b, 1994, Parker and |
| Association | | Allen et al. 1989 | Allen et al. 1991, Barbour 1988, Barry 1989a, 1989b, Boyd et al. 1995, Brown 1982b |
| Association | | NatureServe 2007b | |
| Association | | Allen et al. 1989 | Allen et al. 1991, Barbour 1988, Barry 1989a, |
| Association | | Allen et al. 1989 | Allen et al. 1991, Barbour 1988, Barry 1989a, |
| Association | | Keeler-Wolf et al. 2003a | Evens and Kentner 2006 |
| Association | | Allen et al. 1989 | Allen et al. 1991, Barbour 1988, Barry 1989a, 1989b, Boyd et al. 1995, Brown 1982b |
| Association | | Keeler-Wolf and Evens 2006 | |
| Association | | Keeler-Wolf et al. 1998b | |
| Association | | Klein and Evens□ | Koenig et al. 1994, 1996, 1999, Koenig and |
| Association | | Evens and San 2005 | Klein and Evens 2005, Koenig et al. 1994, 1996, 1999, Koenig and |
| Association | | Allen et al. 1989 | O'Neil and Egan 2004, Allen et al. 1991, Barbour 1988, Barry 1989a, |
| Association | | Evens and San 2005 | |
| Association | | Wainwright and Barbour 1984 | Campbell 1980, Cooper 1922, Dagit 2002, Dunning et al. 2002, Evens and San 2005, Wells 1962, Zuill 1967 |
| Association | | Keeler-Wolf and Evens 2006 | |
| Association | | Evens and San 2004 | Keeler-Wolf and Evens 2006, O'Neil and |
| Association | | Evens and San 2004 | |
| Association | | Keeler-Wolf and Evens 2006 | |
| Association | | Allen et al. 1989 | Allen et al.. 1991, Barbour 1988, Barry 1989a, |
| Association | | Keeler-Wolf and Evens 2006 | |
| Association | | Allen et al. 1989 | Allen et al. 1991, Barbour 1988, Barry 1989a, 1989b, Boyd et al. 1995, Brown 1982b, Keeler-Wolf and Evens 2006 |
| Association | | Allen et al. 1989 | Allen et al. 1991, Barbour 1988, Barry 1989a, 1989b, Boyd et al. 1995, Brown 1982b, Evens and San 2004 |
| Association | | Gordon and White 1994 | Griffin 1971, 1977, Griffin and |
| Association | | Keeler-Wolf and Evens 2006 | |
| Association | | Klein and Evens 2005 | Koenig et al. 1994, 1996, 1999, Koenig and |
| Association | | Finch and McCleery 1980 | Evens and San 2005, Faber et al. 1989, Ferren 1989a, Finch and |
| Association | | Hickson and Keeler-Wolf 2007 | |
| Provisional Association | | Keeler-Wolf et al. 1998b | |
| Association | | Allen et al. 1989 | Allen et al. 1991, Barbour 1988, Barry 1989a, 1989b, Boyd et al. 1995, Brown 1982b |
| Association | | Evens and San 2004 | |
| Association | | Allen et al. 1989 | Allen et al. 1991, Barbour 1988, Barry 1989a, 1989b, Boyd et al. 1995, Brown 1982b, Evens and Kentner 2006, Dunning et al. 2005, Faber et al. |
| Association | | Allen et al. 1989 | Allen et al. 1991, Barbour 1988, Barry 1989a, 1989b, Boyd et al. 1995, Brown 1982b, Keeler-Wolf and Evens 2006, Hickson and Keeler-Wolf 2007 |
| Association | | Allen et al. 1989 | Evens and San 2004, Allen et al. 1991, Barbour 1988, Barry 1989a, |
| Association | | Allen et al. 1989 | Allen et al. 1991, Barbour 1988, Barry 1989a, |
| Association | | Keeler-Wolf and Evens 2006 | |
| Association | | Allen et al. 1989 | Allen et al. 1991, Barbour 1988, Barry 1989a, 1989b, Boyd et al. 1995, Brown 1982b |
| Association | | Keeler-Wolf and Evens 2006 | |
| Association | | Keeler-Wolf 1990a | |
| Association | | Allen et al. 1989 | Allen et al. 1991, Barbour 1988, Barry 1989a, |
| Association | | Keeler-Wolf et al. 2003a | |
| Association | | Allen et al. 1989 | Allen et al. 1991, Barbour 1988, Barry 1989a, |
| Association | | Evens and San 2005 | Faber et al. 1989, Ferren 1989a, Finch and |
| Alliance | | Keeler-Wolf et al. 2003b | Klein and Evens 2005, Evens et al. 2006 |

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| Association | Lee 2004 | Mallory 1980, McDonald et al. 1983 |
| Association | Meier 1979 | Evens et al. 2006a, Klein and Evens 2005, Klein et al. 2007, Minnich 1976, 1980b, 1987, Myatt 1980, Paysen et al. 1980, Pavlik et al. 1991, |
| Association | Campbell 1980 | Cooper 1922, Evens and Kentner 2006, Evens et al. 2006b |
| Association | Keeler-Wolf et al. 2003b | |
| Association | Gordon and White 1994 | Keeler-Wolf 1988e, Keeler-Wolf et al. 2001, Taylor and Randall 1977, Tirmenstein 1989b, Thornburgh 1990b |
| Association | Klein and Evens 2006 | |
| Association | Griffin 1976a | Borchert 1987, Borchert and Hibberd 1984 |
| Association | Keeler-Wolf et al. 2003b | |
| Association | Keeler-Wolf et al. 2003b | |
| Association | Sawyer and Stillman 1977 | |
| Association | Klein et al. 2007 | |
| Association | Mallory 1980 | Klein et al. 2007, Lee 2004, McDonald et al. 1983 |
| Association | Klein et al. 2007 | |
| Association | Klein et al. 2007 | |
| Association | Keeler-Wolf et al. 2003b | Klein et al. 2007 |
| Association | Klein et al. 2007 | |
| Association | Taylor and Randal 1977 | |
| Association | Keeler-Wolf et al. 2003b | Lee 2004, Mallory 1980, McDonald et al. 1983 |
| Association | Keeler-Wolf et al. 2003b | Lee 2004, Mallory 1980, McDonald et al. 1983, Klein et al. 2007 |
| Association | Keeler-Wolf et al. 2003b | |
| Association | Lee 2004 | |
| Association | Sawyer and Stillman 1977 | Sawyer and Stillman 1978 |
| Association | Evens 2000 | |
| Association | Mallory 1980 | Lee 2004, Potter 2005, McDonald et al. 1983 |
| Alliance | Allen et al. 1989 | Evens et al. 2004 |
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| Association | Evens et al. 2004 | |
| Association | Evens et al. 2004 | Klein et al. 2007, Koenig and |
| Association | Allen et al. 1991 | Evens et al. 2004, Keeler-Wolf et al. |
| | | |
| Association | Allen et al. 1991 | Klein et al. 2007, Koenig and |
| Association | Allen et al. 1991 | Evens et al. 2004 |
| Association | Griffin 1971 | Evens et al. 2006, Gaman and Casey 2002, Gemmill |
| Association | Allen et al. 1991 | Allen-Diaz et al. 2007, Allen- |
| Association | Allen et al. 1991 | Klein et al. 2007, Koenig and |
| Association | Allen et al. 1991 | Klein et al. 2007, Koenig and Knops 1997, Koenig et al. 2002, Lewis and Burgy 1964, |
| Association | Allen et al. 1991 | Evens et al. 2006, Allen-Diaz et al. 2007, Allen- |
| Association | Keeler-Wolf et al. 2003b | Keeley 2002c |
| Association | Allen et al. 1991 | Allen-Diaz et al. 2007, Allen- |
| Association | Borchert vet al. 1993a | |
| Association | Evens et al. 2006 | Gaman and Casey 2002, Gemmill |
| Association | Newton 1987a | |
| Association | Borchert et al. 1993 | |
| Association | Klein et al. 2007 | Koenig and Knops 1997, Koenig et al. 2002, Lewis and Burgy 1964, |
| Association | Evens et al. 2004 | |
| Association | Evens et al. 2004 | |
| Association | Evens et al. 2004 | |
| Association | Evens et al. 2004 | |
| Association | Keeler-Wolf et al. 2003b | Keeley 2002c |
| Association | Allen et al. 1991 | Allen-Diaz et al. 2007, Allen-Diaz and Bartolome 1992, Evens, Keeler-Wolf, Klein, and Hickson 2005 |
| Association | Borchert et al. 1993a | Dagit 2002, DeLasaux and Pillsbury 1987 |
| Association | Borchert et al. 1993 | |
| Association | Borchert et al. 1993 | |
| Association | Allen et al. 1991 | Allen-Diaz et al. 2007, Allen- |
| Association | Evens et al. 2006 | Gaman and Casey 2002, Gemmill |
| Association | Borchert et al. 1993 | |
| Association | Evens et al. 2006 | Gaman and Casey 2002, Gemmill |
| Association | Borchert et al. 1993 | |
| Association | Borchert et al. 1993 | |
| Association | Borchert et al. 1993 | |
| Association | Allen et al. 1991 | Evens et al. 2004, Keeler-Wolf et al. |
| Association | Borchert et al. 1993 | |
| Association | NatureServe 2007b | |
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| Association | Klein et al. 2007 | |
| Association | Evens et al. 2006 | Gaman and Casey 2002, Gemmill |
| Association | Borchert et al. 1993 | |
| Association | Borchert et al. 1993 | |

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| Association | Borchert et al. 1993a | Dagit 2002, DeLasaux and Pillsbury 1987 |
| Association | Klein et al. 2007 | Koenig and Knops 1997, Koenig et al. 2002, Lewis and Burgy 1964, |
| Association | Evens et al. 2004 | |
| Association | Allen et al. 1991 | Keeler-Wolf et al. 2003b, Keeley 2002c, Allen-Diaz et al. 2007, Allen- |
| Alliance | Evens and San 2005 | Klein and Evens 2005, Barbour 1988, Beauchamp 1986, Bowler 1989, Boyd |
| Association | Evens and San 2005 | Gaman and Casey 2002, Griffin 1977, |
| Association | Evens and San 2005 | Gaman and Casey 2002, Griffin 1977, |
| Association | Klein and Evens 2005 | Evens and San 2005, Gaman and Casey 2002, Griffin 1977, |
| Association | Evens and San 2005 | Gaman and Casey 2002, Griffin 1977, |
| Association | Klein and Evens 2005 | Koenig and Knops 1997, Lathrop and |
| Alliance | Allen et al. 1991 | Evens and San 2005, Klein et al. 2007 |
| Association | Keeler-Wolf et al. 2003b | Kilgore 1981, Evens |
| Association | Keeler-Wolf 1986d | Keeler-Wolf 1990c |
| Association | Klein and Evens 2005 | |
| Association | Klein and Evens 2005 | |
| Association | Klein et al. 2007 | |
| Association | Keeler-Wolf et al. 2003b | Klein et al. 2007, Kilgore 1981, [9] Klein |
| Association | Klein et al. 2007 | |
| Association | cf. Lee 2004 | Klein et al. 2007, McDonald 1980a, McDonald 1990c, Minnich |
| Association | Wainwright and Barbour 1984 | Jimerson et al. 1996, Kauffman and Martin 1987, Klein et al. 2007, Stuart et al. 1992, |
| Association | Jimerson 1993 | |
| Association | Klein et al. 2007 | |
| Association | Allen et al. 1991 | Allen-Diaz and Holzman 1991, Barbour 1988, Barry 1989a, b, Cheatham and |
| Association | Allen et al. 1991 | Evens and San 2005, Gaman and Casey 2002, Garrison et al. |
| Association | Allen et al. 1991 | |
| Association | Allen et al. 1991 | Allen-Diaz and Holzman 1991, Barbour 1988, Barry 1989a, b, Cheatham and |
| Association | Allen et al. 1991 | |
| Association | Evens and San 2005 | Gaman and Casey 2002, Garrison et al. |
| Association | Keeler-Wolf et al. 2003b | Kilgore 1981 |
| Association | Allen et al. 1991 | Allen-Diaz and Holzman 1991, Barbour 1988, Barry 1989a, b, Cheatham and |
| Association | Paysen et al. 1980 | cf. Lee 2004, Klein et al. 2007, McDonald 1980a, McDonald 1990c, Minnich |
| Association | Allen et al. 1991 | Allen and Holzman 1991, Barbour 1988, Barry 1989a, b, Cheatham and |
| Association | Allen et al. 1991 | Allen-Diaz and Holzman |
| Association | Lee 2004 | |
| Association | Allen et al. 1991 | Allen-Diaz and Holzman 1991, Barbour 1988, Barry 1989a, b, Cheatham and |
| Association | Allen et al. 1991 | Allen and Holzman 1991, Barbour 1988, Barry 1989a, b, Cheatham and |
| Association | Allen et al. 1991 | Klein et al. 2007 |
| Association | Allen et al. 1991 | Allen-Diaz and Holzman 1991, Barbour 1988, Barry 1989a, b, Cheatham and Haller 1975 |
| Alliance | Allen et al. 1989 | Keeler-Wolf and Evens 2006, Hickson and Keeler-Wolf 2007 |
| Association | Hickson and Keeler-Wolf 2007 | |
| Association | Hickson and Keeler-Wolf 2007 | Klein et al. 2007 |
| Association | Hickson and Keeler-Wolf 2007 | |
| Association | Allen et al. 1991a | Evens, Keeler-Wolf, San, Kentner, and Schindel 2005 |
| Association | Allen et al. 1989 | Allen et al. 1991, Evens et al. 2004 |
| Association | Allen et bal. 1989 | Allen et al. 1991 |
| Association | Allen et al. 1991 | |
| Association | Klein et al 2007 | |
| Association | Keeler-Wolf and Evens 2005 | Hickson and Keeler-Wolf 2007 |
| Association | Vaghti 2003 | |
| Association | Allen et al. 1989 | Allen et al. 1991, Evens and Kentner 2006, Keeler-Wolf and Evens 2006 |
| Association | Klein et al 2007 | |
| Association | Klein et al. 2007 | |
| Association | Hickson and Keeler-Wolf 2007 | Klein et al. 2007 |
| Alliance | Klein and Evens 2006 | |
| Association | Klein and Evens 2005 | Nixon 2002 |
| Association | Klein and Evens 2005 | Nixon 2002 |
| Provisional Alliance | Dodd et al.2002 | Miller 2005, CNPS 2006, Heise 2007 |
| Alliance | Allen et al. 1989 | |
| Association | Allen et al. 1989 | Allen et al. 1991, Allen-Diaz et al. 2007, Allen-Diaz and Holzman 1991, Barbour 1988, Cooper |
| Association | Allen et al. 1989 | Allen et al. 1991, Allen-Diaz et al. 2007, Allen-Diaz and Holzman 1991, Barbour 1988, Cooper |
| Association | Allen et al. 1989 | Allen et al. 1991, Allen-Diaz et al. 2007, Allen-Diaz and Holzman 1991, Barbour 1988, Cooper |
| Association | Allen et al. 1991 | |

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| Association | Allen et al. 1989 | Allen et al. 1991, Allen-Diaz et al. 2007, Allen-Diaz and Holzman 1991, Barbour 1988, Cooper |
| Association | Allen et al. 1989 | Allen et al. 1991, Allen-Diaz et al. 2007, Allen-Diaz and Holzman 1991, Barbour 1988, Cooper |
| Association | Allen et al. 1989 | Allen et al. 1991, Allen-Diaz et al. 2007, Allen-Diaz and Holzman 1991, Barbour 1988, Cooper |
| Special Stands | Griffin and Critchfield 1972 | Clark et al. 1990, Junak et al. 1995, 2007, Kindsvater 2006, Landis 1997, |
| Alliance | Allen et al. 1989 | Evens et al. 2004 |
| Association | Klein et al. 2007 | |
| Association | Evens et al. 2004 | Lee 2004, Minnich 1976, |
| Association | Allen et al. 1991 | |
| Association | Klein et al. 2007 | |
| Association | Evens et al. 2004 | Klein et al. 2007, NatureServe 2007b |
| Association | Allen et al. 1991 | Klein et al. 2007, Allen-Diaz and Holzman |
| Association | Keeler-Wolf et al. 2003b | |
| Association | Klein and Evens 2006 | |
| Association | Keeler-Wolf et al. 2003b | Klein and Evens 2005 |
| Association | Klein et al. 2007 | |
| Association | Allen et al. 1991 | Keeler-Wolf et al. 2003b, Klein et al 2007, Allen-Diaz and Holzman |
| Association | Evens et al. 2004 | |
| Association | Klein et al. 2007 | |
| Association | Evens et al. 2004 | |
| Association | Klein et al. 2007 | |
| Association | Evens, San and Taylor 2004 | |
| Association | Klein et al. 2007 | |
| Association | Allen et al. 1991 | Keeler-Wolf et al. 2003b, Klein et al. |
| Association | Allen et al. 1991 | Allen-Diaz and Holzman |
| Association | Evens et al. 2004 | Evens and Kentner 2006, Griffin 1977, Hanes 1976, |
| Association | Lee et al. 2004 | Minnich 1976, Evens et al. 2004, Griffin 1977, Hanes 1976 |
| Association | Lee 2004 | |
| Alliance | Keeler-Wolf et al 2003a | Evens and Kentner 2006 |
| Association | Campbell 1980 | Evens and Kentner 2006, |
| Association | Evens and Kentner 2006 | |
| Association | Evens and Kentner 2006 | |
| Association | Evens and Kentner 2006 | Keeler- Wolf and Evens 2006, Klein et al. 2007, McBride |
| Association | Parker 1990 | Paysen et al. 1980 |
| Association | Keeler-Wolf and Evens 2006 | |
| Association | Evens and Kentner 2006 | |
| Association | Keeler-Wolf and Evens 2006 | |
| Association | Evens and Kentner 2006 | |
| Association | Evens and Kentner | |
| Association | Evens and San 2004 | Griffin and Critchfield 1972, |
| Association | Keeler-Wolf et al. 2003b | Evens and Kentner 2006 |
| Association | Evens and Kentner 2006 | |
| Association | Klein et al. 2007 | |
| Association | Keeler-Wolf and Evens 2006 | |
| Association | Evens and Kentner 2006 | Keeler-Wolf et al. 2003a, |
| Association | Allen-Diaz et al. 2001 | Barbour 1988, Barry 1989a, 1989b |
| Special Stands | Wolf and Wagener 1948 | Barbour 2007, Bartel et al. 2003, Griffin and Critchfield |
| Alliance | Wolf and Wagener 1948 | |
| Association | Cheng 2004 | Griffin and Critchfield 1972, Kruckeberg 1984, Murray 1988, Paysen et al. |
| Alliance | Wolf and Wagener 1948 | Armstrong 1978, Brown 1982e, Cheng 2004, Dunn |
| Special Stands | Vogl et al. 1977 | Barbour 2007, Esser 1994d, Holland 1986 |
| Alliance | Griffin and Stone 1967 | Alexander et al. 2007, Bartel et al. 2003, Barbour |
| Association | Klein et al. 2007 | Kruckeberg 1984, Paysen et al. 1980, Stuart |
| Special Stands | Wolf 1948 | Barbour 2007, Esser 1994f, Green 1929, Griffin and |
| Association | Keeler-Wolf 1990b | Sullivan 1993b, Twisselmann 1967, Vogl et al. 1977, |
| Alliance | Jenny et al. 1969 | |
| Association | Westman and Whittaker 1975 | |
| Association | Westman and Whittaker 1975 | |
| Association | Westman and Whittaker 1975 | |
| Alliance | Evens and Kentner 2006 | |
| Association | Evens and Kentner 2006 | Kruckeberg 1984, Mendocino |
| Association | Evens and Kentner 2006 | Kruckeberg 1984, Mendocino National Forest 1987, Paysen et al. 1980, Vogl et al. |

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| Association | Evens and Kentner 2006 | Kruckeberg 1984, Mendocino |
| Special Stands | Wolf and Wagener 1948 | Armstrong 1978, Barbour 2007, Earle 2005, Farjon |
| Alliance | Keeler-Wolf et al. 1998b | Thomas et al. 2004 |
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| Association | Keeler-Wolf et al. 2005 | |
| Association | | |
| Association | Keeler-Wolf et al. 1998b | Keeler-Wolf and Thomas 2000, Keeler-Wolf et al. 2005, San, and Hickson 2005 |
| Association | Keeler-Wolf and Thomas 2000 | Keeler-Wolf et al. 2005 |
| Association | | |
| Association | Klein and Evens 2005 | |
| Association | Evens et al. 2006 | |
| Association | Keeler-Wolf and Thomas 2000 | Keeler-Wolf et al. 2005 |
| Association | Keeler-Wolf et al. 2005 | |
| Association | Keeler-Wolf and Thomas 2000. 1998 | |
| Association | Klein and Evens 2005 | Klein et al. 2007, Meeuwig and Bassett 1983 |
| Association | Keeler-Wolf and Thomas 2000 | |
| Association | Keeler-Wolf and Thomas 2000 | Keeler-Wolf et al. 2005 |
| Association | NatureServe 2007 | |
| Alliance | Keeler-Wolf et al. 2003b | Klein and Evens 2005 |
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| Association | Lee 2004 | Minnich 1976, 2007, Paysen et al. 1980 |
| Association | Keeler-Wolf et al. 2003b | Keeley and Keeley 1978 |
| Association | Imper 1991a | |
| Association | Klein and Evens 2005 | Kruckeberg 1984 |
| Association | Imper 1991b | |
| Association | Keeler-Wolf and Moore 2001 | |
| Association | Lee 2004 | Minnich 1976, 2007, Paysen et al. 1980 |
| Association | Taylor and Teare 1979ba | Whittaker 1960, Vogl 1973, 1976, Vogl et al. 1977 |
| Alliance | Evens and San 2005 | Klein and Evens 2005, Evens et al. 2006, Barbour 1988, Borchert 1985 |
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| Association | Evens and San 2005 | |
| Association | Evens et al. 2006 | Hanes 1976 |
| Association | Evens and San 2005 | |
| Association | Evens and San 2005 | |
| Association | Evens□ | Evens et al. 2006, Hanes 1976, Klein |
| Association | Klein and Evens 2005 | |
| Association | Keeler-Wolf 1988e | Keeler-Wolf 1989g, Evens et al. 2006, Hanes 1976, |
| Association | Klein and Evens 2005 | Minnich 1976, 1980b, 1987, 2007, |
| Association | Borchert et al. 2004 | |
| Association | Klein and Evens 2005 | |
| Association | Evens and San 2005 | |
| Association | Evens and San 2005 | |
| Alliance | Keeler-Wolf et al. 2003a | Ades et al. 1992, Axelrod 1980b, Cope 1993e |
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| Association | Keeler-Wolf et al. 2003a | Evens and Kentner 2006, Griffin and Critchfield 1972, McMillan 1956, Metcalf |
| Association | CVIS 1995 | Evens and Kentner 2006, Griffin and Critchfield 1972 |
| Association | Westman and Whittaker 1975 | |
| Association | Westman and Whittaker 1975 | |
| Association | Westman and Whittaker 1975 | |
| Association | Evens and Kentner 2006 | Griffin and Critchfield 1972 |
| Association | Westman and Whittaker 1975 | cf. Westman 1975 |
| Alliance | Klein and Evens 2005 | Esser 1993d |
| Association | Klein and Evens 2005 | Lanner 1999, Minnich 1987, 2007, Minnich and Everett 2001, |
| Alliance | Sawyer and Keeler-Wolf 1995 | |
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| Association | Cylinder 1995 | Davis and Borchert 2007, Deghi et al. 1995, Griffin and Critchfield 1972, Jones and |
| Association | Cylinder 1995 | Davis and Borchert 2007, Deghi et al. 1995, Griffin and Critchfield 1972, Jones and |
| Association | Cylinder 1995 | Davis and Borchert 2007, Deghi et al. 1995, Griffin and Critchfield 1972, Jones and |
| Association | Cylinder 1995 | Davis and Borchert 2007, Deghi et al. 1995, Griffin and Critchfield 1972, Jones and |
| Alliance | Klein et al. 2007 | Anderson 2005, Barbour 1988, Barbour et al. 2007 |
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| Association | | |
| Association | Keeler-Wolf et al. 2003b | Lee 2004 |
| Association | Keeler-Wolf et al. 2003b | Klein et al. 2007, Klyver 1931, Kral 1993, Kruckeberg 1984 |
| Association | Keeler-Wolf et al. 2003b | |
| Association | Klein et al. 2007 | |
| Association | Klein et al. 2007 | |
| Association | Keeker-Wolf et al. 2003a | |

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| Association | Evens et al. 2004 | Klein et al. 2007 |
| Association | NatureServe 2007 | |
| Association | | |
| Association | Keeler-Wolf et al. 2003b | Klein et al. 2007, Klyver 1931, Kral 1993, Kruckeberg 1984 |
| Special Stands | Evens and San 2005 | Clark et al. 1990, Esser 1993dd, Griffin and Critchfield |
| Association | Evens and San 2005 | |
| Alliance | Evens and Kentner 2006 | Barbour 1988, Cooper 1922 |
| Association | Evens and Kentner 2006 | McDonald and Tappeiner 1990, McMurray |
| Association | Evens and Kentner 2006 | |
| Association | Evens and Kentner 2006 | |
| Alliance | Keeler-Wolf et al. 2001 | |
| Association | Keeler-Wolf et al. 2003a | Evens and Kentner 2006, McMurray 1989b. |
| Association | Evens and Kentner 2006 | |
| Alliance | Jimerson 1996 | Evens and Kentner 2006, Keeler-Wolf et al.2003a |
| Association | Jimerson et al. 1996 | |
| Association | Jimerson et al. 1996 | |
| Association | Keeler-Wolf et al. 2003a | Evens and Kentner 2006 |
| Association | Jimerson et al. 1996 | |
| Association | Jimerson et al. 1996 | |
| Association | Jimerson et al. 1996 | |
| Association | Jimerson et al. 1996 | |
| Association | Lee 2004 | McDonald and Tappeiner 1990, 2002, McDonald et al. 1983, Paysen |
| Association | Griffin 1976a | Borchert 1987, Cooper 1922, Harrington et al. 1984, 1991, 1992, 1994, Lee 2004, McDonald and Tappeiner 1990, 2002, McDonald et al. 1983, |
| Association | Jimerson et al. 1996 | |
| Association | Jimerson et al. 1996 | |
| Association | Fiedler and Leidy 1987 | Gaman and Casey 2002, Evens and Kentner 2006, Jimerson et al. 1996 |
| Association | Jimerson et al. 1996 | |
| Association | Sawyer 1981a | |
| Association | Jimerson et al. 1996 | |
| Association | Jimerson et al. 1996 | |
| Association | Jimerson et al. 1996 | |
| Association | Jimerson et al. 1996 | |
| Association | Jimerson et al. 1996 | |
| Alliance | Bingham 1999 | Evens and Kentner 2006, NVCS |
| Association | Lee 2004 | McDonald et al. 1983, McDonald and Tappeiner |
| Association | cf. Jimerson et al. 1996 | |
| Association | cf. Jimerson et al. 1996 | |
| Association | cf. Jimerson et al. 1996 | |
| Association | cf. Jimerson et al. 1996 | |
| Association | cf. Jimerson et al. 1996 | |
| Association | cf. Jimerson et al. 1996` | |
| Association | cf. Jimerson et al. 1996 | |
| Association | cf. Jimerson et al. 1996 | |
| Association | cf. Jimerson et al. 1996 | |
| Association | cf. Jimerson et al. 1996 | |
| Association | cf. Jimerson et al. 1996 | |
| Association | cf. Jimerson et al. 1996 | |
| Association | cf. Jimerson et al. 1996 | |
| Association | cf. Jimerson et al. 1996 | |
| Association | Mize 1973 | Sawyer 1980, 2006, 2007, Sawyer and Thornburgh 1977 |
| Association | cf. Jimerson et al. 1996 | |
| Association | cf. Jimerson et al. 1996 | |
| Association | cf. Jimerson et al. 1996 | |
| Association | cf. Jimerson et al. 1996 | |
| Association | cf. Jimerson et al. 1996 | |
| Association | Jimerson 1993 | |
| Association | cf. Jimerson et al. 1996 | |
| Association | cf. Jimerson et al. 1996 | |
| Association | cf. Fites 1993 | Franklin et al. 1981 |
| Association | Jimerson 1999 | |
| Association | cf. Jimerson et al. 1996 | |
| Association | Mize 1973 | Sawyer 1980, 2006, 2007, Sawyer and Thornburgh 1977 |
| Association | Keeler-Wolf 1985c | Keeler-Wolf 1987d, 1989a |
| Association | cf. Fites 1993 | Franklin et al. 1981 |
| Association | cf. Fites 1993 | Franklin 1981, cf. Jimerson et al. 1996 |
| Association | cf. Jimerson et al. 1996 | |
| Association | cf. Jimerson et al. 1996 | Thornburgh 1987 |

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| Association | Jimerson et al. 1996 | |
| Association | cf. Jimerson et al. 1996 | |
| Association | Mize 1973 | Sawyer 1980, 2006, 2007, Sawyer and Thornburgh 1977 |
| Association | Thornburgh 1987 | cf. Jimerson et al. 1996, Uchytil 1991d, Williamson |
| Association | Simpson 1980 | Thornburgh 1982, cf. Jimerson et al. 1996 |
| Association | Simpson 1980 | Thornburgh 1982, cf. Jimerson et al. 1996 |
| Association | cf. Jimerson et al. 1996 | |
| Alliance | NatureServe 2007a | Evens and Kentner 2006, Hastings et al. 1997, Clark 1937, |
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| Association | Jimerson 1993 | McCreary 1990, Muick and Bartolome 1988a, Pavlik |
| Association | Jimerson 1993 | Jimerson and Carothers 2002 |
| Association | Jimerson 1993 | Jimerson and Carothers 2002 |
| Association | Lee 2004 | McCreary 1990, Muick and Bartolome 1988a, Pavlik |
| Association | Jimerson 1993 | Jimerson and Carothers 2002 |
| Association | Taylor and Teare 1979a | |
| Association | Sugihara et al. 1987 | Sweitzer and Van Vuren 2002 |
| Association | Sugihara et al. 1987 | Sweitzer and Van Vuren 2002 |
| Association | Sugihara et al. 1987 | Sweitzer and Van Vuren 2002 |
| Association | Stewman 2001 | |
| Association | Sugihara et al. 1987 | Sweitzer and Van Vuren 2002 |
| Association | Sugihara et al. 1987 | Sweitzer and Van Vuren 2002 |
| Association | Sugihara et al. 1987 | Sweitzer and Van Vuren 2002 |
| Association | Leitner and Leitner 1988 | Jimerson 1993, Jimerson and Carothers 2002 |
| Alliance | Sawyer, Keeler-Wolf and Evens 2008 | |
| Association | cf. Fites 1993 | Fites-Kaufman et al. 2007, Franklin 1988, Gordon 1980b, Griffin and |
| Association | Jimerson 1993 | |
| Association | Keeler-Wolf et al. 2003b | Laacke 1990a, Laacke and Fiske 1983a |
| Association | cf. Fites 1993 | Fites-Kaufman et al. 2007, Franklin 1988, Gordon 1980b, Griffin and |
| Association | Jimerson 1993 | |
| Association | Taylor and Teare 1979b | |
| Association | cf. Fites 1993 | Fites-Kaufman et al. 2007, Franklin 1988, Gordon 1980b, Griffin and |
| Association | Jimerson 1993 | |
| Association | cf. Fites 1993 | Fites-Kaufman et al 2007, Franklin 1988, Gordon 1980b, Griffin and |
| Association | Jimerson 1993 | |
| Association | Sawyer 1981a | Sawyer 2006, 2007, Stone and Sumida 1983 |
| Association | Jimerson 1993 | Sawyer |
| Association | Jimerson 1993 | |
| Association | Jimerson 1993 | |
| Association | Jimmerson 1993 | |
| Association | Jimerson 1993 | cf. Fites 1993, Fites-Kaufman et al. |
| Association | Jimerson 1993 | |
| Association | Jimerson 1993 | |
| Association | Jimerson 1993 | |
| Association | Jimerson 1993 | |
| Association | Stuart et al. 1992 | |
| Association | Jimerson 1993 | |
| Association | cf. Fites 1993 | Fites-Kaufman et al 2007, Franklin 1988, Gordon 1980b, Griffin and |
| Association | Jimerson 1993 | |
| Alliance | Jimerson et al. 1996 | NatureServe 2007 |
| Association | Klein et al. 2007 | Minore and Zasada 1990, Sawyer 2006, Skinner |
| Association | Fites 1993 | Fonda 1974, Franklin 1988, Franklin and Dyrness 1973, Fried et al. 1988, |
| Association | Fites 1993 | Chambers 2003, Dyrness 1973, Fonda 1974, Franklin 1988, Franklin and Dyrness 1973, Fried et al. 1988, |
| Association | Klein et al. 2007 | Minore and Zasada 1990, Sawyer 2006, Skinner |
| Association | Jimerson et al. 1996 | |
| Association | Jimerson et al. 1996 | |
| Alliance | Keeler-Wolf et al. 2003a | Evens and Kentner 2006 |
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| Association | Jimerson 1993 | |
| Association | Jimerson 1993 | |
| Association | Stuart et al. 1986 | |
| Association | Taylor 1982 | Uchytil 1989b |
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| Association | Keeler-Wolf et al. 2003a | |
| Alliance | Jimerson et al. 1996 | Barbour 1988, Bolsinger and Jaramillo 1990, Evens and Kentner 2006 |
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| Association | Evens and Kentner 2006 | Stuart et al. 1992, 1996 |
| Association | Jimerson et al. 1995 | Evens and Kentner 2006 |
| Association | Jimerson et al. 1995 | |
| Association | Jimerson et al. 1995 | |
| Association | Jimerson et al 1995 | |

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| Association | Jimerson et al. 1995 | |
| Association | Jimerson et al 1995 | |
| Association | Keeler-Wolf et al. 2003b | Evens and Kentner 2006, Jimerson et al. 1995 |
| Association | Taylor and Teare 1979a | Uchytil 1991d, Jimerson et al. 1995, Keeler-Wolf et al. 2003b, Evens and Kentner 2006 |
| Association | Lee 2004 | McKee 1990, Paysen et al. 1980, Rundel et al. |
| Association | Lee 2004 | McKee 1990, Paysen et al. 1980, Rundel et al. |
| Association | Jimerson et al. 1995 | |
| Association | cf. Fites 1993 | Fites-Kaufman et al. 2007, Franklin 1988, Franklin et al. 1981 |
| Association | Sawyer and Stillmann 1977 | |
| Association | Jimerson et al. 1995 | |
| Association | Stuart et al. 1992 | |
| Association | Stuart et al. 1992 | Jimerson et al. 1995, Stuart et al. 1996 |
| Association | Wainwright and Barbour 1984 | Williamson 1980, Williamson and Twombly 1983, Zuckerman 1990 |
| Association | Keeler-Wolf et al. 2003a | |
| Association | Jimerson et al. 1995 | |
| Association | Jimerson et al. 1995 | Keeler-Wolf et al. 2003a |
| Association | Jimerson et al. 1995 | Jimerson et al. 1996, Evens and Kentner 2006 |
| Association | Stuart et al 1992 | Jimerson 1993 |
| Association | Keeler-Wolf 1985c | Keeler-Wolf 1987b, 1988e, 1989a |
| Association | Laidlaw-Holmes 1981 | Sawyer and Stillman 1977, Sawyer and Thornburgh 1977 |
| Association | Sawyer and Stillman 1977 | Sawyer and Thornburgh 1977 |
| Association | Keeler-Wolf 1989a | |
| Association | Sawyer and Stillman 1977 | Sawyer and Thornburgh 1977 |
| Association | Simpson 1980 | Jimerson et al. 1996 |
| Association | Fites 1993 | |
| Association | Simpson 1980 | |
| Association | Sawyer and Stillman 1977 | Sawyer and Thornburgh 1977 |
| Association | cf. Fites 1993 | |
| Association | Taylor 1975a, 1975b | |
| Association | Sawyer et al. 1978 | Jimerson et al. 1995, Jimerson 1993 |
| Association | Jimerson et al. 1995 | Jimerson et al. 1996 |
| Association | Simpson 1980 | Jimerson et al. 1995, 1996 |
| Association | Simpson 1980 | |
| Association | Simpson 1980 | |
| Alliance | Bingham 1999 | Barbour 1988, Barbour et al. 2007 |
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| Association | cf. Fites 1993 | Simpson 1980, Fites-Kaufman et al. 2007, Franklin 1988, Griffin and Critchfield 1972 |
| Association | cf. Fites 1993 | Fites-Kaufman et al. 2007, Franklin 1988, Griffin and Critchfield 1972 |
| Association | cf. Fites 1993 | Fites-Kaufman et al. 2007, Franklin 1988, Griffin and Critchfield 1972 |
| Association | Smith 1994 | |
| Association | Taylor and Teare 1979b | |
| Association | Stuart et al. 1992 | Jimerson 1993, Keeler-Wolf et al. 2003b, Oliver and Ryker 1990, Rundel et al. |
| Association | Smith 1994 | |
| Alliance | Stuart et al. 1992 | cf. Jimerson et al. 1995 |
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| Association | Stuart et al. 1992 | Stuart et al. 1996 |
| Association | Stuart et al. 1992 | Stuart et al. 1996 |
| Association | Stuart et al. 1992 | |
| Association | cf. Jimerson et al. 1995 | Kruckeberg 1984, Powers and Oliver 1990 |
| Association | Jimerson 1993 | |
| Association | cf. Jimerson et al. 1995□ | |
| Association | Jimerson 1993 | |
| Alliance | CNDDB 2003 | Axelrod 1976, Barbour 1988, Paysen et al. 1980, Sawyer et al. 1977, Sullivan 1993a |
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| Association | Talley 1974 | |
| Association | Talley 1974 | |
| Alliance | Keeler-Wolf et al. 2003b | Barbour 1988, Barbour and Minnich 2000, Fites-Kaufman et al. 2007, Franklin 1988, Gordon 1980b, |
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| Association | Klein and Evens 2006 | |
| Association | Evens and San 2005 | |
| Association | Jimerson 1993 | |
| Association | Jimerson 1993 | |
| Association | Jimerson 1993 | |
| Association | Jimerson 1993 | |
| Association | Jimerson 1993 | |
| Association | Taylor and Teare 1979b | Thorne et al. 2007, Vasek 1985 |
| Association | Imper 1988a | |
| Association | Jimerson 1993 | |
| Association | Imper 1988a | |

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| Association | Jimerson 1993 | |
| Association | Jimerson 1993 | |
| Association | Sawyer and Thornburgh 1977b | Imper 1988a, Jimerson 1993, Stone and Sumida1983, Sugihara et al. 2007, Taylor and Teare 1979b, Thorne et al. 2007, |
| Association | Taylor and Randall 1977 | |
| Association | Sawyer and Thornburgh 1977 | Stone and Sumida1983 |
| Association | Taylor and Randall 1977 | |
| Association | Waddell 1982 | Zouhar 2001a |
| Association | Sawyer and Thornburgh 1977 | |
| Association | Sawyer and Thornburgh 1977 | |
| Alliance | Keeler-Wolf and Moore 2001 | |
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| Association | Keeler-Wolf et al. 2003b | |
| Association | Klein and Evens 2005 | |
| Association | Keeler-Wolf et al. 2003b | cf. Fites 1993, Fites-Kaufman et al. 2007, Franklin 1988, Gordon 1980b, Habeck 1992c, |
| Association | Keeler-Wolf et al. 2003b | |
| Association | cf. Fites 1993 | Keeler-Wolf et al. 2003b, Fites-Kaufman et al. 2007, Franklin 1988, Gordon 1980b, Habeck 1992c, |
| Association | Keeler-Wolf et al. 2003b | |
| Association | Keeler-Wolf et al. 2003b | |
| Association | Lee 2004 | Sawyer 2007, Stone and Sumida 1983, Zouhar 2001a |
| Association | cf. Fites 1993 | |
| Association | Keeler-Wolf et al. 2003b | |
| Association | Fites 1993 | |
| Association | Lee 2004 | Sawyer 2007, Stone and Sumida 1983, Zouhar 2001a |
| Association | Lee 2004 | Sawyer 2007, Stone and Sumida 1983, Zouhar 2001a |
| Alliance | Parker 1982 | Parker 1984 |
| Association | Potter 1998 | Keeler-Wolf et al. 2003b, Laacke 1990a, b, Laacke and Fiske 1983a, |
| Association | Potter 1998 | Keeler-Wolf et al. 2003b, Laacke 1990a, b, Laacke and Fiske 1983a, |
| Association | Jimerson 1993 | |
| Association | Jimerson 1993 | |
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| Association | Jimerson 1993 | |
| Association | Jimerson 1993 | |
| Association | Potter 1998 | Keeler-Wolf et al. 2003b, Laacke 1990a, b, Laacke and Fiske 1983a, |
| Association | Jimerson 1993 | |
| Association | Jimerson 1993 | |
| Association | Jimerson 1993 | |
| Association | Jimerson 1993 | |
| Association | Jimerson 1993 | |
| Association | Jimerson 1993 | |
| Alliance | Keeler-Wolf et al. 2003b | |
| Association | Muldavin 1982 | Powers and Oliver 1990 |
| Association | Keeler-Wolf et al. 2003b | Potter 2005, Klein et al. 2007, Kruckeberg |
| Association | Klein and Evens 2005 | Evens and San 2005, Griffin and Critchfield 1972, |
| Association | Muldavin 1982 | Powers and Oliver 1990 |
| Alliance | NatureServe 2007a | |
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| Alliance | Potter 1994 | |
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| Association | Potter 1994 | |
| Association | Keeler-Wolf et al. 2003b | Klein and Evens 2005 |
| Association | Jimerson et al. 1995 | |
| Association | Jimerson et al. 1995 | |
| Association | Keeler-Wolf et al. 2003b | |
| Association | Potter 1994 | Potter 1998, Keeler-Wolf et al. 2003b |
| Association | Jimerson et al. 1995 | |
| Association | Jimerson et al. 1995 | |
| Association | Jimerson et al. 1995 | |
| Association | Jimerson et al. 1995 | |
| Association | Keeler-Wolf et al. 2003b | |
| Association | Smith 1994 | Sugihara et al. 2006 |
| Association | Smith 1994 | Sugihara et al. 2006 |
| Association | Smith 1994 | |

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| Association | Smith 1994 | Sugihara et al. 2006 |
| Association | Jimerson 1993 | |
| Association | Keeler-Wolf et al. 2003b | |
| Association | Klein and Evens 2005 | Kruckeberg 1984, Minnich 1987, 2007, Keeler-Wolf et al. 1998b |
| Association | Smith 1994 | Sugihara et al. 2006 |
| Association | Smith 1994 | Sugihara et al. 2006 |
| Association | Waddell 1982 | Zinke 1977, Zobel 1952 |
| Association | Potter 1998 | Keeler-Wolf et al. 2003b |
| Association | Potter 1998 | |
| Association | Klein and Evens 2005 | Kruckeberg 1984, Minnich 1987, 2007 |
| Association | Smith 1994 | Sugihara et al. 2006 |
| Association | Taylor and Teare 1979b | Thorne et al. 2007, Vasek and Thorne |
| Association | Potter 1998 | Keeler-Wolf et al. 2003b |
| Association | Potter 1994 | |
| Association | Smith 1994 | Keeler-Wolf et al. 2003b, Sugihara et al. 2006 |
| Association | Talley 1978 | Keeler- Wolf et al. 2003b |
| Association | Taylor and Teare 1979 | Thorne et al. 2007, Vasek and Thorne |
| Association | Duebendorfer 1987 | Jimerson et al. 1995, Griffin and Critchfield 1972, Habeck 1992b, Jenkinson 1980 |
| Association | Reigel et al. 1990 | Rundel et al. 1977 |
| Association | Taylor 1980 | Keeler- Wolf et al. 2003b |
| Association | Smith 1994 | |
| Association | Smith 1994 | |
| Association | Smith 1994 | |
| Association | Klein and Evens 2005 | Kruckeberg 1984, Minnich 1987, 2007 |
| Association | Jimerson et al.1995 | |
| Association | Potter 1994 | Potter 1998, Keeler-Wolf et al. 2003b |
| Association | Jimerson et al. 1995 | |
| Association | Klein and Evens 2005 | Kruckeberg 1984, Minnich 1987, 2007 |
| Association | Smith 1994 | |
| Alliance | Jimerson et al. 1995 | |
| Association | Jimerson, et al. 1995 | Kruckeberg 1984, Sawyer 2006, 2007, Sawyer and Thornburgh 1977, van Wagtendonk and Fites-Kaufman 2007 |
| Association | Jimerson, et al. 1995 | Kruckeberg 1984, Sawyer 2006, 2007, Sawyer and Thornburgh 1977, van Wagtendonk and Fites-Kaufman 2007 |
| Association | Jimerson, et al. 1995 | Kruckeberg 1984, Sawyer 2006, 2007, Sawyer and Thornburgh 1977, van Wagtendonk and Fites-Kaufman 2007 |
| Association | Jimerson, et al. 1995 | Kruckeberg 1984, Sawyer 2006, 2007, Sawyer and Thornburgh 1977, van Wagtendonk and Fites-Kaufman 2007 |
| Alliance | Keeler-Wolf et al. 2003b | Klein et al. 2007, Barbour 1988, Barbour et al. 2007, Barrett et al. 1980, |
| Association | Lee 2004 | McDonald 1980b |
| Association | Potter 2005 | |
| Association | Potter 1995 | |
| Association | Lee 2004 | McDonald 1980b |
| Association | Smith 1994 | Solinas et al. 1985, Sugihura et al. 2006, Talley and Griffin 1980 |
| Association | Smith 1994 | Solinas et al. 1985, Sugihura et al. 2006, Talley and Griffin 1980 |
| Association | Smith 1994 | Solinas et al. 1985, Sugihura et al. 2006, Talley and Griffin 1980 |
| Association | Smith 1994 | Solinas et al. 1985, Sugihura et al. 2006, Talley and Griffin 1980 |
| Association | Smith 1994 | Solinas et al. 1985, Sugihura et al. 2006, Talley and Griffin 1980 |
| Association | Smith 1994 | Solinas et al. 1985, Sugihura et al. 2006, Talley and Griffin 1980 |
| Association | Smith 1994 | Solinas et al. 1985, Sugihura et al. 2006, Talley and Griffin 1980 |
| Association | Smith 1994 | Solinas et al. 1985, Sugihura et al. 2006, Talley and Griffin 1980 |
| Association | Smith 1994 | Solinas et al. 1985, Sugihura et al. 2006, Talley and Griffin 1980 |
| Association | Lee 2004 | McDonald 1980b |
| Association | Lee 2004 | McDonald 1980b |
| Association | Smith 1994 | Solinas et al. 1985, Sugihura et al. 2006, Talley and Griffin 1980 |
| Association | Smith 1994 | Solinas et al. 1985, Sugihura et al. 2006, Talley and Griffin 1980 |
| Association | Smith 1994 | Solinas et al. 1985, Sugihura et al. 2006, Talley and Griffin 1980 |
| Association | Smith 1994 | Solinas et al. 1985, Sugihura et al. 2006, Talley and Griffin 1980 |
| Association | Fites 1993 | Griffin 1985, Griffin and Critchfield 1972, Habeck 1992d |
| Association | Klein et al. 2007 | |
| Association | Keeler-Wolf 1984a | |
| Association | Smith 1994 | Solinas et al. 1985, Sugihura et al. 2006, Talley and Griffin 1980 |
| Association | Keeler-Wolf 1984a | |
| Association | Simpson 1980 | |
| Association | Sawyer and Thornburgh 1988 | |
| Association | Smith 1994 | Solinas et al. 1985, Sugihura et al. 2006, Talley and Griffin 1980 |
| Association | Smith 1994 | Solinas et al. 1985, Sugihura et al. 2006, Talley and Griffin 1980 |
| Association | Smith 1994 | Solinas et al. 1985, Sugihura et al. 2006, Talley and Griffin 1980 |
| Association | Taylor and Randall 1977 | Fites 1993, Thorne 1977, 1982, Griffin 1985, Griffin and Critchfield 1972, Habeck 1992d |
| Association | Keeler-Wolf 1986c | Keeler-Wolf 1988d |

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| Association | Lee 2004 | |
| Association | Keeler-Wolf 1984a | Vora 1988, Fites 1993, Smith 1994 |
| Association | Smith 1994 | |
| Association | Smith 1994 | |
| Association | Smith 1994 | Solinas et al. 1985, Sugihura et al. 2006, Talley and Griffin 1980 |
| Association | Smith 1994 | |
| Association | Smith 1994 | |
| Association | Smith 1994 | Solinas et al. 1985, Sugihura et al. 2006, Talley and Griffin 1980 |
| Association | Fites 1993 | Griffin 1985, Griffin and Critchfield 19ion72, Habeck 1992d |
| Association | Smith 1994 | |
| Association | Vora 1988 | |
| Association | Klein et al. 2007 | |
| Alliance | Keeler-Wolf et al. 2003b | Barbour 1988, Barbour et al. 2007 |
| Association | Keeler-Wolf et al. 2003b | Kinloch and Scheuner 1990, Laacke 1990b, Laacke |
| Association | Fites 1993, re-named Keeler-Wolf and Moore 2001 | |
| Association | cf. Fites 1993 | |
| Association | cf. Fites 1993 | |
| Association | Sawyer and Thornburgh 1977 | |
| Association | cf. Fites 1993 | |
| Association | Keeler-Wolf et al. 2003b | Kinloch and Scheuner 1990, Laacke 1990b, Laacke |
| Association | Sawyer and Thornburgh 1977 | |
| Association | Smith 1994 | |
| Association | Smith 1994 | |
| Association | cf. Fites 1993 | Habeck 1992a, 1992d, Keeler-Wolf et al. 2003b, |
| Association | cf. Fites 1993 | Habeck 1992a, 1992d |
| Alliance | Smith 1994 | Critchfield 1984, Critchfield and Allenbaugh 1965, |
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| Association | Rundel et al. 1977 | Reigel et al. 1990, Sawyer 2004 |
| Association | Smith 1994 | Stuart and Sawyer 2001, Wells 1964 |
| Alliance | Evens and San 2005 | Barbour 1988, Barry 1989a, 1989b, Bolton and Vogl |
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| Association | Evens and San 2005 | Gause 1966, Griffin and Critchfield 1972, Howard 1992h |
| Association | Evens and San 2005 | Klein and Evens 2005, Gause 1966, Griffin and Critchfield 1972, Howard 1992h, McDonald 1990a, McDonald and Littrell 1976, Minnich 1976, |
| Alliance | Keeler-Wolf et al. 2003a | |
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| Association | Keeler-Wolf et al. 2003a | Kilgore and Taylor 1979, Nichols 1989, Rundel 1971, 1972a, 1972b, Rundel et al. 1977, van |
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| Alliance | Alexander et al. 1990 | Cheng 2004 |
| Association | De Jager 1991 | Griffin and Critchfield 1972, Sawyer 1987, 2006, |
| Alliance | NatureServe 2007a | Alexander and Shepperd 1990, De Jager 1991, Griffin |
| Alliance | Keeler-Wolf et al. 2003b | |
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| Association | Potter 1994 | Talley 1977, Thorne 1976, 1977, Griffin and Critchfield 1972, Perala 1990, Shiflet 1994 |
| Association | Keeler-Wolf et al. 2003b | |
| Association | Keeler-Wolf et al. 2003b | |
| Association | Keeler-Wolf et al. 2003b | |
| Association | Manning and Padgett 1995 | |
| Association | S. Smith 1998 | |
| Association | S. Smith 1998 | |
| Association | Potter 1994 | Keeler-Wolf et al. 2003b |
| Association | Keeler-Wolf et al. 2003b | |
| Association | S. Smith 1998 | Keeler-Wolf et al. 2003b |
| Association | S. Smith 1998 | |
| Association | Keeler-Wolf et al. 2003b | |
| Association | S. Smith 1998 | |
| Association | S. Smith 1998 | |
| Association | Reigel et al. 1990 | |
| Association | Potter 1994 | |
| Association | Reigel et al. 1990 | S. Smith 1998, Potter 2005, Keeler-Wolf et al. 2003b, Potter 2005 |
| Alliance | Keeler-Wolf et al. 2003b | Arno 1980, 1986, Arno and Hoff 1990, Barbour 1988, |
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| Association | Keeler-Wolf et al. 2003b | Kendall 1995 |
| Association | Reigel et al. 1990 | Riegel et al. 2007, Rundel et al. 1977, Sawyer 2006, 2007 |
| Association | Reigel et al. 1990 | Riegel et al. 2007, Rundel et al. 1977, Sawyer 2006, 2007 |
| Association | Keeler-Wolf et al. 2003b | Kendall 1995 |
| Association | Keeler-Wolf et al. 2003b | Kendall 1995, Taylor 1984, Weaver 2001 |
| Association | Sawyer and Thornburgh 1977 | |
| Association | Taylor 1984 | Weaver 1991, Keeler-Wolf et al. 2003b, Kendall 1995 |
| Association | Reigel et al. 1990 | Riegel et al. 2007, Rundel et al. 1977, Sawyer 2006, 2007 |

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| Association | Taylor 1984 | Weaver 1991 |
| Alliance | NatureServe 2007a | |
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| Association | Ball 1976 | Eckert and Sawyer 2002, Barbour 1988, Eckert 2006, Eckert and |
| Association | Eckert and Sawyer 2002 | Griffin and Critchfield 1972, Howard 2004a, Mastroguiseppe |
| Association | Eckert and Sawyer 2002 | Griffin and Critchfield 1972, Howard 2004a, Mastroguiseppe |
| Association | Ball 1976 | Barbour 1988, Eckert 2006, Eckert and Eckert 2007 |
| Association | Eckert and Sawyer 2002 | Griffin and Critchfield 1972, Howard 2004a, Mastroguiseppe |
| Association | Whipple and Cope 1979 | |
| Association | Haultain, pers. comm. | |
| Alliance | Keeler-Wolf et al. 2003b | Thomas et al. 2004, Klein and Evens 2005 |
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| Association | Klein and Evens□ | Paysen et al. 1980, Sawyer and Keeler-Wolf |
| Association | Griffin and Critchfield 1972 | Ball 1976, Barney 1980, Hanes 1976, Johnson 2001 |
| Association | Taylor 1979 | Thomas et al. |
| Alliance | Thomas et al. 2004 | |
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| Association | Taylor 1979 | Thorne 1976, Thorne et al. 2007, Vasek and |
| Association | Taylor 1979 | Thorne 1976, Thorne et al. 2007, Vasek and |
| Alliance | NatureServe 2007 | Boyd 1980a, Foiles et al. 1990, Franklin 1980a, 1988, |
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| Alliance | Jimerson et al. 1995 | |
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| Association | Jimerson 1999 (1994) | |
| Association | Jimerson 1999 (1994) | |
| Association | Jimerson 1999 (1994) | Jules et al. 2002, Kruckeberg 1984, Sawyer 2006, 2007 |
| Association | Jimerson et al. 1995 | |
| Association | Jimerson et al. 1995 | |
| Association | Jimerson et al. 1995 | |
| Association | Jimerson et al. 1995 | |
| Association | Jimerson 1999 (1994) | |
| Association | Jimerson 1999 (1994) | |
| Provisional Association | Jimerson 1994 (1999 suppl) | |
| Association | Jimerson 1994 | |
| Association | Jimerson et al. 1995 | |
| Association | Jimerson et al. 1995 | |
| Association | | |
| Provisional Association | Jimerson 1999 (1994) | |
| Association | Jimerson et al. 1995 | |
| Association | Jimerson 1994 | |
| Association | Jimerson 1999 (1994) | |
| Association | Jimerson 1999 (1994) | |
| Association | Simpson 1980 | |
| Association | Jimerson 1999 (1994) | |
| Association | Jimerson 1999 (1994) | |
| Association | Jimerson 1999 (1994) | |
| Association | Jimerson 1999 (1994) | |
| Association | Jimerson 1994 (1999 suppl) | |
| Association | Jimerson et al. 1995 | |
| Association | Jimerson 1999 (1994) | |
| Association | Jimerson 1999 (1994) | |
| Association | Jimerson 1999 (1994) | |
| Association | Jimerson et al. 1995 | |
| Association | | |
| Association | Jimerson et al. 1995 | |
| Association | Jimerson et al. 1995 | Simpson 1980, Stein 1980b, Uchytil 1990d, Zobel |
| Association | | |
| Alliance | | |
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| Association | Westman and Whittaker 1975 | Zinke 1977 |
| Association | Imper and Sawyer 1987 | Minore 1980, Sawyer 2007 |
| Association | Imper and Sawyer 1987 | Minore 1980, Sawyer 2007 |
| Association | Imper and Sawyer 1987 | Minore 1980, Sawyer 2007 |
| Alliance | Barry 1989a | Barry 1989b, Barbour 2007, Cheatham and Haller 1975, Cope 1993b |
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| Association | cf. Green 1999 | Griffin |
| Association | Green 1999 | |
| Alliance | Keeler-Wolf et al. 2003b | Evens and Kentner 2006 |

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| Association | Borchert et al. 1988 | |
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| Association | Borchert et al. 1988 | |
| Association | Mahoney 1999 | |
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| Association | | |
| Association | Evens and Kentner 2006 | Franklin 1988, Griffin and Critchfield 1972, Griffith 1992d |
| Association | Borchert et al. 1988 | |
| Association | Keeler-Wolf et al. 2003a | Evens and Kentner 2006, Franklin 1988, Griffin and Critchfield 1972, Griffith 1992d |
| Association | Jimerson 1999 | |
| Association | Keeler-Wolf et al. 2003a | Evens and Kentner 2006, Franklin 1988, Griffin |
| Association | Matthews 1986a | Matthews 1986b, Noss 2000, |
| Association | Matthews 1986a | Matthews 1986b, Noss 2000, |
| Association | Lenihan 1990 | |
| Association | Matthews 1986a | Matthews 1986b, Noss 2000, |
| Association | Lenihan 1990 | |
| Association | Mahoney 1999 | |
| Association | Lenihan 1990 | |
| Association | Evens and Kentner 2006 | Franklin 1988, Griffin and Critchfield 1972, Griffith 1992d, |
| Association | Borchert et al. 1988 | |
| Association | Lenihan 1990 | |
| Association | Lenihan 1990 | |
| Association | Lenihan 1990 | |
| Association | Borchert et al. 1988 | |
| Association | Matthews 1986a | Matthews 1986b, Noss 2000, |
| Association | Lenihan 1990 | Taylor 1982, Veirs 1982, Zinke 1977 |
| Association | Lenihan 1990 | |
| Association | Borchert et al. 1988 | |
| Alliance | NatureServe 2007a | Franklin 1988, Franklin and Dyrness 1973, Franklin et |
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| Association | Keeler-Wolf 1987f | Olson et al. 1990, Packee 1990, Roy 1980, Sawyer 2007, |
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| Alliance | NatureServe 2007a | Cope 1992a |
| Association | Hunt 1976 | Langer 1988, Lanner 1999, Parker 1988, Sawyer 2006, 2007, Skinner et al. 2006, NatureServe 2007a |
| Alliance | Potter 1998 | |
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| Association | Potter 1994 | |
| Association | Potter 1998 | Keeler-Wolf et al. 2003b, Laacke 1990b, Laacke and Fiske 1983a, |
| Association | Jimerson 1993 | Sawyer and Thornburgh 1977, Waddell 1982 |
| Association | Jimerson 1993 | |
| Association | Potter 2005 | Rundel et al. 1977, Sawyer 2006, 2007 |
| Association | Potter 1994 | Potter 1998 |
| Association | Potter 1998 | Potter 2005, Rundel et al. 1977, Sawyer 2006, 2007, Keeler-Wolf et al. 2003b |
| Association | Keeler-Wolf et al. 2003b | |
| Association | Jimerson 1993 | |
| Association | Imper 1988a | Keeler-Wolf et al. 2003b |
| Association | Imperc 1988b | Simpson 1980, Sugihara et al. 2007, Taylor and Halpern 1991 |
| Association | Sawyer and Thornburgh 1977 | Imper 1988b |
| Association | Sawyer and Thornburgh 1977 | |
| Association | Sawyer and Thornburgh 1977 | |
| Association | Waddell 1982 | |
| Association | Jimerson 1993 | Sawyer and Thornburgh 1977, Waddell 2982 |
| Association | Imper 1988b | |
| Association | Potter 1994 | |
| Association | Potter 1994 | Potter 1998 |
| Association | Potter 1994 | Potter 1998 |
| Association | Sawyer an Thornburgh 1977 | Jimerson 1993, Waddell 1982 |
| Association | Imper 1988a | Jimerson 1993, Simpson 1980, Sugihara et al. |
| Association | Jimerson 1993 | |
| Association | Sawyer and Thornburgh 1977 | |
| Association | Jimerson 1993 | |
| Association | Imper 1988a | |
| Association | Potter 1994 | Potter 1998 |
| Alliance | Sawyer and Thornburgh 1977 | Antos and Zobel 1984, Franklin 1988, Griffith 1992a, |
| Alliance | Potter 1994 | Keeler-Wolf et al 2003b |
| | | |
| Association | Potter 1994 | Keeler-Wolf et al. 2003b, Keeley 1981, Klein and Evens |
| Association | Keeler-Wolf et al. 2003b | |
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| Association | Keeler-Wolf et al. 2003b | Keeley 1981 |

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| Association | Potter 1994 | Keeler-Wolf et al 20034b, Potter 2005 |
| Association | Keeler-Wolf et al. 2003b | Keeley 1981 |
| Association | Taylor 1984 | Keeler-Wolf et al. 2003b |
| Association | Potter 2005 | |
| Association | Taylor 1980 | |
| Association | Potter 1994 | |
| Association | Keeler-Wolf et al. 2003b | Keeley 1981, Taylor 1984 |
| Association | Taylor 1984 | Keeler-Wolf et al. 2003b, Potter 2005 |
| Association | Potter 2005 | |
| Association | Taylor 1984 | |
| Association | Potter 2005 | |
| Association | Keeler-Wolf et al. 2003b | Keeley 1981 |
| Association | Potter 2005 | |
| Alliance | Keeler-Wolf et al. 2003b | Barry 1989a,1989b, Boyd 1980b, Cheatham and |
| Association | Duebendorfer 1987 | Fites-Kaufman et al. 2007, Graham 1990, Griffin and Critchfield 1972, Griffith 1992c, Jimerson et al. 1995, Keeler-Wolf 1986e |
| Association | Keeler-Wolf et al. 2003b | Kruckeberg 1984, Sawyer 2006, 2007 |
| Association | Jimerson et al. 1995 | |
| Association | Keeler-Wolf et al. 2003b | Kruckeberg 1984, Sawyer 2006, 2007 |
| Association | Whipple and Cope 1979 | |
| Association | Sawyer and Thornburgh 1977 | |
| Association | Simpson 1980 | van Wagtendonk and Fites-Kaufman 2007 |
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| Alliance | NatureServe 2007a□ | Keeler-Wolf et al. 2003b |
| Association | Potter 1998 | Keeler-Wolf et al. 2003b, Means 1990 |
| Association | Keeler-Wolf et al. 2003b | Means 1990 |
| Association | Parker 1988 | Keeler-Wolf et al. 2003b, Means 1990 |
| Association | Keeler-Wolf et al. 2003b | |
| Association | Taylor 1984 | Tesky 1992f |
| Association | Imper 1988a | |
| Association | Imper 1988a | Sawyer and Thornburgh 1977 |
| Association | Sawyer and Thornburgh 1977 | |
| Association | Jimerson 1993 | |
| Association | Sawyer and Thornburgh 1977 | |
| Association | Parker 1988 | |
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| Alliance | Keeler-Wolf et al. 2003b | Adams 1975, Barbour 1988, Dealy 1990, Dealy et al. |
| Association | Potter 1998 | Keeler-Wolf et al. 2003b, R. Martin 1980, Minnich |
| Association | Keeler-Wolf et al. 2003b | R. Martin 1980, Minnich 2007, Minnich and Everett 2001 |
| Association | Potter 1998 | Keeler-Wolf et al. 2003b, R. Martin 1980, Minnich |
| Association | Potter 1998 | Keeler-Wolf et al. 2003b, R. Martin 1980, Minnich |
| Association | Potter 1998 | Keeler-Wolf et al. 2003b, R. Martin 1980, Minnich |
| Alliance | Thomas et al. 2004 | |
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| Association | Keeler-Wolf and Thomas 2000 | Meeuwig and Bassett 1983, Reid et al. |
| Association | Keeler-Wolf and Thomas 2000 | Meeuwig and Bassett 1983, Reid et al. |
| Association | Keeler-Wolf and Thomas 2000 | Meeuwig and Bassett 1983, Reid et al. |
| Association | Keeler-Wolf and Thomas 2000 | Meeuwig and Bassett 1983, Reid et al. |
| Association | Keeler-Wolf and Thomas 2000 | Meeuwig and Bassett 1983, Reid et al. |
| Association | Keeler-Wolf and Thomas 2000 | Meeuwig and Bassett 1983, Reid et al. |
| Association | Keeler-Wolf and Thomas 2000 | Meeuwig and Bassett 1983, Reid et al. |
| Association | Keeler-Wolf and Thomas 2000 | Meeuwig and Bassett 1983, Reid et al. |
| Association | Keeler-Wolf and Thomas 2000 | Meeuwig and Bassett 1983, Reid et al. |
| Association | Keeler-Wolf and Thomas 2000 | Meeuwig and Bassett 1983, Reid et al. |
| Association | Keeler-Wolf and Thomas 2000 | Meeuwig and Bassett 1983, Reid et al. |
| Special Stands | Griffin and Critchfield 1972 | Anderson 2002b, Bailey 1987, des Lauriers and Ikeda |
| Alliance | Keeler-Wolf et al. 1998b | Thomas et al. 2004 |
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| Association | Keeler-Wolf et al. 2005 | |
| Association | Keeler-Wolf and Thomas 2000 | Keeler-Wolf et al. 2005 |
| Association | Keeler-Wolf and Thomas 2000 | |
| Association | Keeler-Wolf and Thomas 2000 | |
| Association | Keeler-Wolf and Thomas 2000 | Meeuwig and Bassett 1983, Meeuwig et al. 1990, |
| Provisional Association | Keeler-Wolf et al. 2003b | |
| Association | Keeler-Wolf et al. 2003b | |
| Association | Keeler-Wolf and Thomas 2000 | Meeuwig and Bassett 1983, Meeuwig et al. 1990, |
| Association | Evens 2000 | Griffin and Critchfield 1972 |

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| Association | Keeler-Wolf and Thomas 2000 | |
| Association | Keeler-Wolf and Thomas 2000 | |
| Association | Keeler-Wolf et al. 2003b | |
| Association | Keeler-Wolf and Thomas 2000 | |
| Association | Keeler-Wolf et al. 2003b | |
| Association | Keeler-Wolf et al. 2003b | |
| Association | Keeler-Wolf and Thomas 2000 | |
| Alliance | NatureServe 2007a | Hickson et al. 2007 |
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| Association | Keeler-Wolf and Thomas 2000 | |
| Association | cf. Vasek 1966 | Thorne et al. 2007, Tirmenstein 1999g, Vasek and Thorne 1977, Volland 1982 |
| Association | Hickson et al. 2007 | Hickson et al. 2008, R. Martin 1980, Paysen et al. 1980, Riegel et al. 2006, Sawyer 2006, Thorne 1982, |
| Association | Hickson et al. 2007 | Hickson et al. 2008, R. Martin 1980, Paysen et al. 1980, Riegel et al. 2006, Sawyer 2006, Thorne 1982, |
| Semi-natural Stands | cf. Evens and San 2005 | Klein and Evens 2005, Keeler-Wolf and Evens 2006, Bean and Russo 2005, Boyd 1985a, 2000, Bulman |
| Semi-natural Stands | cf. Keeler-Wolf and Evens 2006 | DiTomaso and Healey 2007, (Stillwater Sciences and URS 2007 |
| Association | Stillwater Sciences and URS 2007 | Wagner et al. 1999 |
| Association | Keeler-Wolf and Evens 2006 | |
| Association | Stillwater Sciences and URS 2007 | |
| | | |
| Alliance | S. Smith 1998 | Crane 1989a, Potter 2003 |
| Association | S. Smith 1998 | |
| Association | Hickson and Keeler-Wolf 2007 | |
| Association | Hickson and Keeler-Wolf 2007 | |
| Association | Potter 2005 | |
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| Alliance | NatureServe 2007a | Uchytil 19889f |
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| Association | Holstein 1984 | Harris 1988, Manning and Padgett 1995, Uchytil 1989f |
| Provisional Alliance | S. Smith 1998 | |
| Alliance | Manning and Padgett 1995 | |
| Association | Manning and Padgett 2005 | |
| Association | Manning and Padgett 2005 | |
| Association | Manning and Padgett 2005 | |
| Association | Manning and Padgett 2005 | |
| Provisional Alliance | Kagan et al. 2000 | Anderson 2001a, Nesom 2000. |
| Alliance | Brayshaw 1976 | Hansen et al. 1988 |
| Association | Potter 2005 | Reid et al. 1999 |
| Association | S. Smith 1998 | Uchytil 1989b |
| Association | Manning and Padgett 1995 | |
| Provisional Alliance | | |
| Provisional Alliance | S. Smith 1998 | Furlow 1997 |
| Alliance | Anderson 2001d | Keeler-Wolf et al. 2003b |
| Association | Burke 1982 | Johnston 1987 |
| Association | Keeler-Wolf et al. 2003b | |
| Association | Taylor 1984 | Youngblood et al. 1985 |
| Association | Major and Taylor 1977 | Sawyer and Keeler-Wolf 2007 |
| Association | S. Smith 1998 | |
| Alliance | S. Smith 1998 | Tesky 1992d |
| Association | S. Smith 1998 | Tesky 1992d |
| Alliance | Keeler-Wolf and Moore 2001 | |
| Association | Keeler-Wolf and Moore 2001 | |
| Association | Manning and Padgett 1995 | |
| Association | Potter 2005 | Keeler-Wolf et al. 2003b |
| Association | Major and Taylor 1977 | |
| Alliance | S. Smith 1998 | |
| Association | S. Smith 1998 | Uchytil 1991e, Weixelman et al. 1999 |
| Association | Manning and Padgett 1995 | Potter 2005, Smith 1998, Uchytil 1991e, Weixelman et al. 1999 |
| Alliance | Potter 2005 | |
| Association | Nachlinger 1992 | |
| Association | Potter 2005 | |
| Association | Taylor and Teare 1979a | |
| Association | Potter 2005 | |
| Alliance | Keeler-Wolf and Moore 2001 | Potter 2005 |
| Provisional Association | Keeler-Wolf and Moore 2001 | |
| Association | Potter 2005 | |
| Association | Manning and Padgett 1995 | S. Smith 1998, Uchytil 1989h, Weixelman et al. 1999, Zasada 1986 |
| Association | Manning and Padgett 1995 | S. Smith 1998, Uchytil 1989h, Weixelman et al. 1999, Zasada 1986, Uchytil 1989h, Weixelman et al. |
| Association | Vaghti 2003 | |
| Alliance | Taylor 1984 | Manning and Padgett 1995, Cheng 2004, Klikoff 1965 |

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| Association | Taylor 1984 | Keeler-Wolf et al. 2003b, Major and Taylor 1977 |
| Association | Taylor 1984 | Keeler-Wolf et al. 2003b, Major and Taylor 1977 |
| Association | Taylor 1984 | Keeler-Wolf et al.2003b, Major and Taylor 1977, Potter 2005, Sawyer and Keeler-Wolf |
| Association | Manning and Padgett 1995 | |
| Provisional Alliance | Keeler-Wolf et al. 2003b | Keeler-Wolf and Keeler-Wolf 1981, Keeler-Wolf et al. 2003b, Nachlinger 1992, Potter 2005, Taylor 1984, |
| Provisional Association | Keeler-Wolf et al. 2003b | |
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| Alliance | Keeler-Wolf et al. 2001 | |
| Association | Keeler-Wolf et al. 2001 | |
| Alliance | Cheatham and Haller 1975 | us 1997, Barry 1989a, 1989b, Brayshaw 1976 |
| Association | Duebendorfer 1989 | Hitchcock et al. 1961 |
| Association | Imper et al. 1987 | Paysen et al. 1980, 1982, Pickart and Barbour 2007, Reed 1993a, Thorne 1976, Wiedemann 1966, 1984 |
| Provisional Alliance | Brayshaw 1976 | Paysen et al. 1980, Shanfield 1984 |
| Alliance | Keeler-Wolf et al. 2003b | Potter 2005, Klein et al. 2007 |
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| Association | Klein and Evens 2006 | |
| Association | Stuart et al. 1992 | |
| Association | Potter 2005 | |
| Association | Klein and Evens 2005 | Keeler-Wolf and Evens 2006, Evens, Keeler-Wolf, San, Kentner, and Schindel 2005 |
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| Association | Evens and San 2005 | Faber et al. 1989 |
| Association | Potter 2005 | Klein et al. 2007 |
| Association | Keeler-Wolf et al. 2003b | |
| Association | cf. Potter 2005 | |
| Association | cf. Fites 1993 | Griffin and Critchfield 1972, Hanes 1976 |
| Association | Stuart et al. 1992 | |
| Association | Klein et al. 2007 | |
| Association | Potter 2005 | Klein et al. 2007 |
| Association | Jimerson 1993 | Keeler-Wolf 1990d |
| Association | S. White 1994a | |
| Association | Lee 2004 | McBride 1994, Minnich 1976, Paysen et al. 1980 |
| Association | Potter 2005 | Klein et al. 2007 |
| Association | Taylor and Teare 1979b | Hickson and Keeler-Wolf 2007, Holstein 1984, Uchytil 1989b, Vogl 1976 |
| Association | Taylor and Teare 1979a | Uchytil 1989b, Vogl 1976 |
| Association | Taylor 1975a, b | Potter 2003, Chambers 2003, Potter 2005, Hickson and Keeler-Wolf 2007, Klein et al. 2007, Taylor and Randall 1977 |
| Association | Taylor and Teare 1979a | |
| Association | Chambers 2003 | |
| Association | Minnich 1976 | Paysen et al. 1980, Lee 2004, McBride 1994 |
| Association | Borchert et al. 2000 | Bowler 1989, Boyd et al. 1995, Capelli and Stanley 1984 |
| Association | Lee 2004 | McBride 1994, Minnich 1976, Paysen et al. 1980 |
| Association | Potter 2005 | |
| Association | Potter 2005 | Klein et al. 2007, Hickson and Keeler-Wolf 2007 |
| Alliance | Keeler-Wolf and Vaghti 2000 | |
| Association | Keeler-Wolf and Vaghti 2000 | Hickson and Keeler-Wolf 2007 |
| Association | Potter 2005 | Klein et al. 2007, Owston 1990 |
| Association | S. Smith 1998 | Vaghti and Greco 2007 |
| Association | Potter 2005 | |
| Alliance | Potter 2005 | |
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| Association | cf. Manning and Padgett 1995 | Keeler-Wolf et al. 2003b |
| Association | Keeler-Wolf et al. 2003b | |
| Association | Stillwater Sciences and URS 2007 | Stillwater Sciences 2007a, Roberts 1984, Roberts et al. 1980, Sawyer 2006, 2007, Steinberg |
| Association | Stillwater Sciences and URS 2007 | Stillwater Sciences 2007a, Roberts 1984, |
| Association | Stillwater Sciences and URS 2007 | Stillwater Sciences 2007a, Roberts 1984, |
| Association | Stillwater Sciences and URS 2007 | Stillwater Sciences 2007a, Roberts 1984, |
| Association | S. Smith 1998 | |
| Provisional Association | Keeler-Wolf et al. 2003b | |
| Association | S. Smith 1998 | |
| Association | cf. Manning and Padgett 1995 | McBride 1994 |
| Alliance | Keeler-Wolf et al. 2003a | Hickson and Keeler-Wolf 2007, Potter 2005 |
| Association | S. Smith 1998 | Uchytil 1989f |
| Association | Keeler-Wolf et al. 2003a | |
| Association | Hickson and Keeler-Wolf 2007 | Holstein 1984 |
| Association | Potter 2005 | |
| Association | S. Smith 1998 | Uchytil 1989f |

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| Alliance | Stillwater Sciences 2001 | Hickson and Keeler-Wolf 2007, Hosner 1960 |
| Association | Maeglin and Ohmann 1973 | Hickson and Keeler-Wolf 2007, Overton 1990, Rosario |
| Special Stands | Hickson and Keeler-Wolf 2007 | Aradhya et al. 2005, Griffin and Critchfield 1972, |
| | | |
| Alliance | Keeler-Wolf et al. 1997 | Barry 1989a, 1989b |
| Association | Stillwater Sciences and URS 2007 | Sullivan1994, Thompson 1961, Thorne |
| Association | Evens and San 2005 | Faber et al. 1989, Griffin and |
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| Association | Klein and Evens 2005 | Minnich 1995 |
| Association | Keeler-Wolf et al. 1997 | Keeler-Wolf and Evens 2006, Stillwater Sciences and URS 2007, Sullivan1994, |
| Association | Evens and San 2004 | |
| Association | Keeler-Wolf and Evens 2006 | |
| Association | Keeler-Wolf and Evens 2006 | |
| Association | White 1994a | Stillwater Sciences and URD 2007 |
| Association | Klein and Evens 2006 | |
| Association | Bendix 1994 | Boyd et al. 1995, Bowler 1989 |
| Association | Campbell 1980 | Capelli and Stanley 1984, Cheatham and Haller 1975, Evens and San 2005, Keeler-Wolf and Evens 2006, Stillwater Sciences and |
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| Association | Keeler-Wolf et al. 1997 | Evens and San 2005 |
| Association | Keeler-Wolf et al. 1997 | |
| Association | Keeler-Wolf et al. 1997 | |
| Association | Potter 2005 | |
| Alliance | Keeler-Wolf et al. 1998b | Thomas et al. 2004, Potter 2005, Evens and San |
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| Association | Vaghti 2003 | |
| Association | Stillwater Sciences and URS 2007 | |
| Association | Keeler-Wolf et al. 1998b | Evens ans San 2005 |
| Association | Stillwater Sciences and URS 2007 | |
| Association | Stillwater Sciences and URS 2007 | |
| Association | Evens and San 2005 | |
| Association | Evens and San 2005 | Klein et al. 2007, Klein and Evens 2005, Potter 2005, Sands 1980, Shiflet 1994, Stillwater |
| Association | Klein and Evens 2005 | |
| Association | Klein and Evens 2005 | |
| Association | Stillwater Sciences and URS 2007 | |
| Association | Spolsky 1979 | |
| Association | Stillwater Sciences and URS 2007 | |
| Association | Vaghti 2003 | |
| Association | Vaghti 2003 | |
| Association | Vaghti 2003 | |
| Association | Evens and San 2005 | Klein and Evens 2005, Faber et al 1989, Griffin and Critchfield 1972, Holstein 1984, MacMahon 1988, McBride 1994, |
| Association | Vaghti 2003 | |
| Association | Vaghti 2003 | |
| Association | Keeler-Wolf and Thomas 2000 | |
| Association | Vaghti 2003 | Klein et al. 2007 |
| Alliance | Evens and San 2005 | Klein and Evens 2005, Hickson and Keeler-Wolf |
| Association | Reed 1993a | Keeler-Wolf et al. 2005, Klein et al. 2007, Klein and Evens 2005, Stromberg 2001, Vaghti and Greco 2007. |
| Association | Hickson and Keeler-Wolf 2007 | |
| Association | Hickson and Keeler-Wolf 2007 | |
| Association | Evens and San 2005 | Faber et al. 1989, |
| Association | Klein and Evens 2005 | Reed 1993a, Stromberg 2001, Vaghti and Greco 2007 |
| Association | Evens and San 2005 | Faber et al. 1989, Holstein 1984, Klein and Evens 2005, Reed |
| Association | Evens and San 2005 | Faber et al. 1989, Holstein 1984, Klein and Evens 2005, Reed |
| Association | Hickson and Keeler-Wolf 2007 | |
| Alliance | Potter 2005 | Evens and San 2005, Klein and Evens |
| Association | Potter 2005 | Klein et al. 2007, Read and Sprackling 1980, Vogl 1976 |
| Association | Evens and Kentner 2006 | |
| Association | Keeler-Wolf and Vaghti 2000 | Klein et al. 2007 |
| Association | Keeler-Wolf and Evens 2006 | NatureServe 2007b |
| Association | Keeler-Wolf and Evens 2006 | |
| Association | Capelli and Stanley 1984 | Bendix 1994, Bowler 1989 |
| Association | Klein and Evens 2006 | Evens and San 2005 |
| Alliance | Keeler-Wolf et al. 1998b | Anderson and Roderick 2005, Burk 1977, Cornett |
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| Association | Keeler-Wolf et al. 1998b | possibly Spolsky 1979 |

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| Association | Keeler-Wolf□ | MacMahon 1988, McClenaghan and |
| Provisional Alliance | Keeler-Wolf et al. 1998b | Klein and Evens 2005, Hickman 1993 |
| Alliance | Evens and San 2005 | Shanfield 1984 |
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| Association | Keeler-Wolf et al. 1998b | Keeler-Wolf and Evens 2006, NatureServe 2007b, Potter 2005 |
| Association | Stillwater Sciences and URS 2007 | |
| Association | Evens, Keeler-Wolf, Klein and Hickson 2005 | |
| Association | Stillwater Sciences and URS 2007 | |
| Association | Klein and Evens 2005 | Boyd et al.1995 |
| Association | Stillwater Sciences and URS 2007 | |
| Association | Potter 2005 | |
| Alliance | Evens 2000 | Beatley 1976, Keeler-Wolf et al. 2005 |
| Association | Keeler-Wolf and Thomas 2000 | Evens 2000, Keeler-Wolf 2007b |
| Association | Keeler-Wolf and Thomas 2000 | Evens 2000, Keeler_Wolf 2007b |
| Association | Keeler-Wolf and Thomas 2000 | Evens 2000, Keeler-Wolf 2007b, Shanfield 1984, Thomas et al. 2004, |
| Alliance | Cheatham and Haller 1975 | Barry 1989a, 1989b, Holstein 1984, Holland 1986 |
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| Association | Thorne 1976 | Klein et al. 2007, Snyder 1991 |
| Alliance | Keeler-Wolf and Thomas 2000 | Klein and Evens 2005, McMinn 1953, Reid et al. 1999, USDA-NRCS 2005b |
| Provisional Association | Keeler-Wolf and Thomas 2000 | |
| Association | Klein and Evens 2006 | McMinn 1953, Reid et al. 1999, USDA-NRCS 2005b |
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| Provisional Alliance | Kagan et al. 2004 | Sawyer 2006, Evens and Kentner 2006 |
| Alliance | Keeler-Wolf and Vaghti 2000 | Evens and San 2005, Keeler-Wolf and Evens |
| Association | Keeler-Wolf and Vaghti 2000 | Evens and San 2005, Keeler-Wolf and Evens 2006, NatureServe |
| Association | Keeler-Wolf and Vaghti 2000 | |
| Association | Keeler-Wolf and Vaghti 2000 | |
| Alliance | Evens et al. 2006 | |
| Association | Evens et al. 2006 | |
| Alliance | Evens 2000 | Keeler-Wolf and Vaghti 2000, Vaghti 2003, Thomas et al. 2004 |
| Association | Vaghti 2003 | Klein et al. 2007, NatureServe 2007b, Paysen et al. 1980, Reid |
| Association | Hickson and Keeler-Wolf 2007 | Holland 1986, Holstein 1984 |
| Association | Vaghti 2003 | |
| Association | Klein et al. 2007 | |
| Association | Vaghti 2003 | |
| Association | Keeler-Wolf and Thomas 2000 | Evens 2000 |
| Association | Keeler-Wolf et al. 2003b | |
| Association | Keeler-Wolf et al. 2003a | Evens and San 2005, Klein and Evens 2005, Potter 2005 |
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| Association | Keeler-Wolf et al. 1998b | Hickson and Keeler-Wolf 2007, Holstein 1984 |
| Association | Keeler-Wolf et al. 2003a | |
| Association | Potter 2005 | Zedler and Scheid 1988 |
| Association | Zedler and Scheid 1988 | Evens and Kentner 2006 |
| Association | Keeler-Wolf and Evens 2006 | Bendix 1994, Bowler 1989, Capelli and Stanley 1984, Evens and San 2005, NatureServe 2007b, Paysen |
| Association | Keeler-Wolf and Evens 2006 | |
| Association | Capelli and Stanley 1984 | Bendix 1994, Bowler 1989 |
| Association | Keeler-Wolf et al. 2003a | Klein et al. 2007, Manning and Padgett 1995, Minnich 1976 |
| Alliance | Evens and San 2005 | Keeler-Wolf and Evens 2006 |
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| Association | Evens and San 2005 | Holland 1986 |
| Association | Keeler-Wolf and Evens 2006 | |
| Association | Keeler-Wolf and Evens 2006 | |
| Semi-natural Stands | Evens and San 2005 | DiTomaso and Healy 2007, T. Dudley 2000, Horton 1949, Hoshovsky 1996, Keeler-Wolf and Evens 2006, Klein and Evens |
| Stand Type | Evens and San 2005 | Horton 1949, Hoshovsky 1996, |
| Stand Type | cf. Vaghti 2003 | |
| Semi-natural Stands | Paysen et al. 1980 | Brooks and Minnich 2006, Carpenter 2005, DiTomaso |

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| Alliance | Keeler-Wolf et al. 2003 | |

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| Association | | Christensen and Muller 1975 | Borchert et al. 2004, Davis et al. 1988, Evens and San 2006, Evens et al. 2004, 2006, Keeler-Wolf et al. 2003b, Klein and Evens 2005, Klein et al. |
| Association | | Gordon and White 1994 | Hanes 1965, 71,74,76,77, 94, Hanes and Jones 1967, Horton 1960, 1980, Horton and Kraebel 1955, Keeler-Wolf 1990b |
| Association | | Evens, San and Taylor 2004 | Klein et al. 2007, McMurray 1990a, Mills 1983, Minnich 1976, Moreno and Oechel 1991, |
| Association | | NatureServe 2007b | Reid et al. 1999, Schmida and Whittaker 1981, Shiflet 1994, Vogl and Schorr 1972, Stohlgren et al. 1984, Vogl 1976, Zammit and Zedler 1988 |
| Association | | Klein et al. 2007 | McMurray 1990a, Patric and Hanes 1964 |
| Association | | Gordon and White 1994 | Hanes 1965, 71,74,76,77, 94, Hanes and Jones 1967, Horton 1960, 1980, Horton and Kraebel 1955, Keeler-Wolf 1990b |
| Association | | Gordon and White 1994 | Hanes 1965, 71,74,76,77, 94, Hanes and Jones 1967, Horton 1960, 1980, Horton and Kraebel 1955, Keeler-Wolf 1990b |
| Association | | Gordon and White 1994 | Hanes 1965, 71,74,76,77, 94, Hanes and Jones 1967, Horton 1960, 1980, Horton and Kraebel 1955, Keeler-Wolf 1990b |
| Association | | Gordon and White 1994 | Hanes 1965, 71,74,76,77, 94, Hanes and Jones 1967, Horton 1960, 1980, Horton and Kraebel 1955, Keeler-Wolf 1990b |
| Association | | Evens and Kentner 2006 | Keeler-Wolf et al. 2003a |
| Association | | Klein and Evens 2005~ | |
| Association | | Keeler-Wolf et al. 2003a | Hanes 1965, 71,74,76,77, 94, Hanes and Jones 1967, Horton 1960, 1980, Horton and Kraebel 1955, Keeler-Wolf 1990b |
| Association | | Klein and Evens 2005 | Klein et al. 2007, McMurray 1990a, Mills 1983, Minnich 1976, Moreno and Oechel 1991, |
| Association | | Klein and Evens 2005 | Keeler-Wolf and Evens 2006, Keeley |
| Association | | Gordon and White 1994 | Klein and Evens 2005, many others, see MCVII |
| Association | | Gordon and White 1994 | Hanes 1965, 71,74,76,77, 94, Hanes and Jones 1967, Horton 1960, 1980, Horton and Kraebel 1955, Keeler-Wolf 1990b |
| Association | | Evens and San 2006 | |
| Association | | Klein and Evens 2005 | Keeler-Wolf and Evens 2006, Keeley |
| Association | | Keeler-Wolf and Evens 2006 | Keeley 1987b, 1991, 1992a, 1993a, Keeley and Keeley 1988, |
| Association | | Evens and Kentner 2006 | Klein et al. 2007, McMurray 1990a, Mills 1983, Minnich 1976, Moreno and Oechel 1991, |
| Association | | Evens et al. 2004 | |
| Association | | Evens et al. 2004 | |
| Association | | NatureServe 2007b | Reid et al. 1999, Schmida and Whittaker 1981, Shiflet 1994, |
| Association | Disturbance | Klein and Evens 2006 | Evens and San 2006 |
| Association | | Evens et al. 2006 | |
| Alliance | | Gordon and White 1994 | Klein and Evens 2005 |
| Association | | Gordon and White 1994 | Gray 1982, Hanes 1977, 1981, 1994, Horton 1960, Keeley 1993a, 2000, Keeley and Keeley 1988 |
| Association | | Evens and San 2005 | Klein and Evens 2005, McMurray 1990a, Montalvo |
| Association | | Keeler-Wolf and Evens 2006 | Keeley 1987b, 1991, 1992a, 1993a, Keeley and Keeley 1988, Keeley and Soderstrom 1986 |
| Alliance | | Gordon and White 1994 | Borchert et al. 2004, |
| Association | | Klein and Evens 2005 | McMurray 1990a, Montalvo and McMillan 2002b, Schmida and Whittaker |
| Association | | Klein and Evens 2005 | McMurray 1990a, Montalvo and McMillan 2002b, Schmida and Whittaker |
| Association | | Keeler-Wolf and Evens 2006 | |
| Association | | Keeler-Wolf and Evens 2006 | |
| Association | | Gordon and White 1994 | Keeler-Wolf and Evens 2006, Hogan and Sawyer 1996, Gray 1983, Hanes 1977, 1981, 1994, Horton 1960, and others, see MCVII |
| Association | | Hogan and Sawyer 1996 | Horton 1960 |
| Alliance | | Gordon and White 1994 | Evens and San 2005, Klein and Evens |
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| Association | | Gordon and White 1994 | |
| Association | | Gordon and White 1994 | Klein and Evens 2005, Rivas-Martinez 1997, Vogl and Schorr 1972 |
| Association | | Evens and San 2005 | |
| Association | | Gordon and White 1994 | Hanes 1977, 1981, 1994, Hogan et al. 1996, Horton |
| Association | | Evens and San 2005 | |
| Association | | Evens and San 2005 | |
| Association | | Evens and San 2005 | |
| Association | | Klein and Evens 2005 | |
| Association | | Evens and San 2005 | |
| Association | | Evens and San 2005 | Klein and Evens 2005, Rivas-Martinez 1997, Vogl and Schorr |
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| Alliance | | Keeler-Wolf and Evens 2006 | Keeler-Wolf et al. 2005 |
| Association | | Gordon and White 1994 | Halvorson and Clark 1989, Hanes 1977, 1981, 1994, |
| Association | | Evens and San 2005 | Gordon and White 1994 |
| Association | | Gordon and White 1994 | Halvorson and Clark 1989, Hanes 1977, 1981, 1994, |
| Association | | Gordon and White 1994 | |
| Association | | Gordon and White 1994 | Halvorson and Clark 1989, Hanes 1977, 1981, 1994, Hanes and Jones 1967, Hellmers et al. 1955, Howard |
| Association | | Gordon and White 1994 | Halvorson and Clark 1989, Hanes 1977, 1981, 1994, Hanes and Jones 1967, Hellmers et al. 1955, Howard |
| Association | | Evens and San 2004 | Klein and Evens 2005, McMurray 1990a, Miller 1982, Mills |
| Association | | Gordon and White 1994 | Halvorson and Clark 1989, Hanes 1977, 1981, 1994, Hanes and Jones 1967, Hellmers et al. 1955, Howard |
| Association | | Gordon and White 1994 | Evens and San 2004, Halvorson and Clark 1989, Hanes 1977, 1981, 1994, |
| Association | | Klein and Evens 2005 | |
| Association | | Borchert et al. 2004 | Evens et al. 2006 |
| Association | | Borchert et al. 2004 | Evens et al. 2006 |
| Association | | Evens and San 2004 | |
| Association | | Keeler-Wolf et al. 1998b | |
| Association | | Evens et al. 2006 | |
| Association | | Evens and San 2004 | |
| Provisional Alliance | | Markos et al. 1998 | Van Dyke et al. 2001, CDFG 2004 |
| Provisional Alliance | | Bowerman 1944 | Ertter and Bowerman 2002 |
| Alliance | | Keeler-Wolf et al. 2003b | Klein et al. 2007, Amaranthus et al. 1990, Ball et al. 1983, Barry 1989a, 1989b, Buchanan et al. 1966 |
| Association | | Keeler-Wolf et al. 2003b | Klein et al. 2007, Keeley and Keeley 1988 |

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| Association | Lee 2004 | Minore et al 1988, Pase 1982a, Patric and Hanes 1964, Paysen et al. 1980, Thorne 1976 |
| Association | Klein et al. 2007 | |
| Provisional Association | Klein et al. 2007 | |
| Association | CNPS 2005 | Thorne et al 2004, Detling 1961, Gottlieb 1968, Green 1977, Hanes 1977, 1981, |
| Association | Lee 2004 | Minore et al 1988, Pase 1982a, Patric and Hanes 1964, Paysen et al. 1980, Thorne 1976 |
| Association | Klein et al. 2007 | |
| Alliance | Gordon and White 1994 | Barry 1989a, 1989b, Borchert et al. 2004, Hanes 1971, 1977, 1981, Keeley 1987, 1992a, Montygierd-Loba and Keeley 1987, Keeley and Keeley |
| Association | Gordon and White 1994 | Borchert et al. 2004, Evens and San 2005, Keeler-Wolf and Evens 2006 |
| Association | Gordon and White 1994 | Hanes 1971, 1977, 1981, 1994, Horton 1960, Horton and |
| Association | Klein and Evens 2005 | McMurray 1990a, Mills 1983, Minnich |
| Association | Gordon and White 1994 | Keeler-Wolf and Evens 2006, Klein and |
| Association | Keeler-Wolf and Evens 2006 | Keeley 1987c, 1991, 1992a, 1993, Keeley and Keeley |
| Association | Klein and Evens 2005 | McMurray 1990a, Mills 1983, Minnich 1976, Montygierd-Loba and Keeley 1987, Moreno and Oechel 1991, 1992, 1993, Pase 1982a, Patric and |
| Association | Klein and Evens 2005 | McMurray 1990a, Mills 1983, Minnich 1976, Montygierd-Loba and Keeley 1987, Moreno and Oechel 1991, 1992, 1993, Pase 1982a, Patric and |
| Association | Keeler-Wolf and Evens 2006 | Keeley 1987c, 1991, 1992a, 1993, Keeley and Keeley |
| Alliance | Keeler-Wolf et al. 2003a | Barry 1989a, 1989b, Gordon and White 1994, Borchert et al. 2004 |
| Association | Stuart et al. 1996 | Borchert et al. 2004, Evens et al. 2004, NatureServe 2007b, Noble and Slatyer 1977, |
| Association | Keeley and Keeley 1988 | Gordon and White 1994, Keeler-Wolf and Evens 2006 |
| Association | Keeler-Wolf and Evens 2006 | Keeley and Keeley 1988 |
| Provisional Association | Klein et al. 2007 | |
| Association | Stuart et al. 1996 | |
| Association | Stuart et al. 1992 | |
| Association | Taylor and Teare 1979a | Thorne 1976 |
| Association | Stuart et al. 1996 | |
| Association | Evens, San and Taylor 2004 | Klein et al. 2007 |
| Alliance | Barry 1989a | Barry 1989b |
| Association | Borchert et al. 1993b | Borchert et al. 2004, Cheatham and Haller 1975, Keeler-Wolf and Evens 2006, Keeley 1975, 1987a, 2007, Keeley |
| Association | Keeler-Wolf and Evens 2006 | |
| Association | Keeler-Wolf and Evens 2006 | Keeley 1975, 1987a, 2007, Keeley and Keeley 1988, Montygierd-Loyba and Keeley |
| Association | Borchert et al. 1993b | Keeler-Wolf and Evens 2006, Keeley 1975, 1987a, 2007, Keeley and Keeley 1988, Montygierd-Loyba and Keeley |
| Association | Keeler-Wolf and Evens 2006 | Keeley 1975, 1987a, 2007, Keeley and Keeley 1988, Montygierd-Loyba and Keeley |
| Association | Cheatham and Haller 1975 | Borchert et al. 2004 |
| Association | Borchert et al. 2004 | Cheatham and Haller 1975 |
| Association | Keeler-Wolf and Evens 2006 | |
| Alliance | | |
| Association | Evens et al. 2004 | Howard 1992e, Klein et al. 2007 |
| Provisional Alliance | Klein and Evens 2005 | |
| Alliance | Keeler-Wolf et al. 2003a | |
| Provisional Alliance | Evens and Kentner 2006 | Howell 1970, Johnson 1995 |
| Provisional Association | Evens and Kentner 2006 | |
| Association | Keeler-Wolf et al. 2003a | Keeley and Keeley 1988, Pase 1982a, Sawyer and Evens 2007 |
| Association | Sawyer and Evens 2007 | |
| Association | Bainbridge 2007 | Davis and Hickson 1988, Griffin 1978, Sawyer and Evens 2007 |
| Alliance | Borchert et al. 2004 | |
| Association | Borchert et al. 2004 | |
| Provisional Alliance | Griffin 1978 | Van Dyke et al. 2001 |
| Alliance | Odion and Tyler 2002 | |
| Alliance | Gankin and Major 1964 | Holzman and Meyer 2004, Singer 1978, Swiecki and Bernhardt 2003, Swiecki et al. 2005 |
| Association | Wood and Parker 1998 | Woodward 2003 |
| Alliance | Keeler-Wolf 2003a | Evens and Kentner 2006 |
| Alliance | Van Dyke et al. 2001 | Griffin 1978 |
| Association | Van Dyke et al. 2001 | Griffin 1978 |
| Provisional Alliance | Griffin 1978 | Van Dyke et al. 2001 |
| Association | Keeler-Wolf et al. 2003a | Evens and Kentner 2006 |
| Association | Evens and Kentner 2006 | |
| Provisional Alliance | Davis et al. 1988 | Hickson 1988, Meyer 2004, Odion et al. 2002, Tyler et al. 2000 |
| Provisional Alliance | Thomas 1961 | McGraw 2004a |
| Provisional Alliance | Best et al. 1996 | Thorne et al. 2004 |
| Alliance | Borchert et al. 2004 | |
| Association | Borchert et al. 2004 | |
| Provisional Alliance | Evens and San 2005 | Keeley and Davis 2007, Taylor 2004 |
| Alliance | Brown et al. 1980 | Keeler-Wolf and Evens 2006 |
| Association | Keeler-Wolf and Evens 2006 | Keeley and Keeley 1988 |

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| Association | Keeler-Wolf and Evens 2006 | Keeley and Keeley 1988 |
| Association | Evens and San 2005 | Howard 1992f, Keeler-Wolf and Evens 2006, Keeley and Keeley 1988, Klein and Evens 2005, Minnich 1982, Pratt et al. 2005, Saruwatari and |
| Association | Klein and Evens 2005 | Minnich 1982, Pratt et al. 2005, Saruwatari and Davis 1989, Westman 1981a, 1981b |
| Association | Evens and San 2005 | Howard 1992f, Keeler-Wolf and Evens 2006, Keeley and Keeley 1988, Klein and Evens 2005, Minnich 1982, Pratt et al. 2005, Saruwatari and |
| Association | Keeler-Wolf and Evens 2006 | Keeley and Keeley 1988 |
| Association | Keeler-Wolf and Evens 2006 | |
| Association | Klein and Evens 2005 | Minnich 1982, Pratt et al. 2005, Saruwatari and Davis 1989, Westman 1981a, 1981b |
| Alliance | Landis 1997 | Carroll et al. 1987, Coblentz 1980, Dunkle 1950, Junak |
| Association | Landis 1997 | Laughrin et al. 1994, Minnich 1980a, Muller 1967, |
| Alliance | Keelrr-Wolf and Evens 2006 | |
| Association | Lloret and Zedler 1991 | Keeler-Wolf and Evens 2006, Taylor 2004 |
| Association | Evens and San 2005 | |
| Association | Keeler-Wolf and Evens 2006 | Keeler-Wolf and Evens 2006 |
| Association | Keeler-Wolf and Evens 2006 | |
| Association | Evens and San 2005 | |
| Alliance | Borchert et al. 2004 | Keeler-Wolf and Evens 2006 |
| Association | Keeler-Wolf and Evens 2006 | Borchert et al. 2004, Keeler-Wolf and Evens 2006, Keeley 1992b, Malanson and |
| Association | Keeler-Wolf and Evens 2006 | Keeley 1992b, Malanson and O'Leary 1985, Paysen et al. 1980, Shiflet 1994, |
| Alliance | Keeler-Wolf et al. 1998b | |
| Association | Gordon and White 1994 | Keeler-Wolf and Evens 2006 |
| Association | Evens and San 2004 | |
| Association | Keeler-Wolf et al. 1998b | |
| Association | Klein et al. 2007 | Keeley and Keeley 1988, Keeley 1992a, 1992b |
| Association | Keeler-Wolf et al. 2003b | |
| Association | Evens et al. 2006 | |
| Association | Keeler-Wolf and Evens 2006 | |
| Association | Gordon and White 1994 | Evens et al. 2006, Klein and Evens 2005, O'Leary 1990 |
| Association | Klein and Evens 2005 | O'Leary 1990 |
| Association | Gordon and White 1994 | |
| Association | Evens and San 2006 | Evens, Keeler-Wolf, Klein and Hickson 2005 |
| Association | Keeler-Wolf and Evens 2006 | |
| Association | Cheatham and Haller 1975 | Borchert et al. 2004 |
| Association | Klein and Evens 2005 | O'Leary 1990 |
| Association | Gordon and White 1994 | Keeler-Wolf et al. 2003b, Keeler-Wolf and Evens 2006, Klein et al. 2007, Keeley and Keeley 1988, Keeley 1992a, 1992b, Klein and Evens 2005, |
| Association | Taylor and Teare 1979b | Uchytil 1991b |
| Association | Evens and San 2005 | |
| Alliance | Klein and Evens 2006 | Anonymous 1974 |
| Association | Klein and Evens 2006 | |
| Association | Keeler-Wolf and Evens 2006 | |
| Association | Klein and Evens 2005 | |
| Association | Klein et al. 2007 | |
| Alliance | Smith 1998 (Draft) | |

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| Association | Borchert et al. 2004 | Conrad 1987, Evens and San 2004, NatureServe 2007b, Patric and Hanes 1964, Paysen et al. 1980, TNC 2007 |
| Association | NatureServe 2007b | Patric and Hanes 1964, Paysen et al. 1980, TNC 2007 |
| Association | NatureServe 2007b | Patric and Hanes 1964, Paysen et al. 1980, TNC 2007 |
| Association | Borchert et al. 2004 | Evens and San 2005, Griffin and Critchfield 1972, Klein and Evens 2005, |
| Provisional Association | Evens and San 2004 | |
| Association | Keeler-Wolf et al. 2003a | Keeley 1991, 1992b, Keeley et al. 1986 |
| Association | Junak et al. 2007 | |
| Alliance | Gordon and White 1994 | |

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| Association | Gordon and White 1994 | Borchert et al. 2004, Callaway and Walker 1997, Evens and San 2005, Keeler- |
| Association | Gordon and White 1994 | |
| Association | Gordon and White 1994 | Keeler-Wolf and Evens 2006 |
| Association | Gordon and White 1994 | Hanes 1971, 1977, 1981, Horton 1960 |
| Association | Gordon and White 1994 | Hanes 1971, 1977, 1981, Horton 1960 |
| Association | Gordon and White 1994 | |
| Association | Keeler-Wolf and Evens 2006 | Keeley 1992a, b, 1998, Keeley |
| Association | Gordon and White 1994 | Hanes 1971, 1977, 1981, Horton 1960 |
| Association | Gordon and White 1994 | Keeler-Wolf et al. 1998b |
| Association | Klein andMinnich and Howard 1984 | Klein and Evens 2005, Klein et al. 2007 |
| Association | Gordon and White 1994 | Hanes 1971, 1977, 1981, Horton 1960 |
| Association | Klein and Evens 2005 | Minnich and Howard 1984 |
| Provisional Association | Newton 1987a | Tirmenstein 1989c, S. White 1994b |
| Alliance | Gordon and White 1994 | |
| Association | Borchert et al.2004 | Evens and San 2005, Keeler-Wolf and |
| Association | Gordon and White 1994 | Evens and San 2005 |
| Association | Gordon and White 1994 | Klein and Evens 2005, McMurray 1990a, Pase 1982a, Tirmenstein 1989h, T. White |

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| Association | Gordon and White 1994 | |
| Special Stands | Best et al. 1976 | |
| Alliance | Keeler-Wolf et al. 2003a | Evens and Kentner 2006 |
| Association | Evens and Kentner 2006 | Keeler-Wolf et al. 2003a |
| Association | Evens and Kentner 2006 | |
| Alliance | Evens and Kentner 2006 | Keeler-Wolf et al. 2003a |
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| Association | Klein et al. 2007 | Kruckeberg 1951, 1984, 2006, Nixon 2002 |
| Association | Evens et al. 2006 | |
| Association | Klein et al. 2007 | |
| Association | Keeler-Wolf et al. 2003a | Evens and Kentner 2006, Keeley and Keeley 1988 |
| Provisional Association | Evens and San 2004 | Hanes 1977, 1981, Harrison 1997, 1999 |
| Provisional Association | Evens and San 2004 | Evens et al. 2006, Hanes 1977, 1981, Harrison 1997, 1999 |
| Association | Evens et al. 2006 | |
| Association | Evens, Keeler-Wolf, Klein and Hickson 2005 | |
| Association | Evens, Keeler-Wolf, Klein and Hickson 2005 | |
| Provisional Association | Evens and San 2004 | Hanes 1977, 1981, Harrison 1997, 1999 |
| Provisional Association | Evens and San 2004 | Hanes 1977, 1981, Harrison 1997, 1999 |
| Association | Evens and Kentner 2006 | |
| Association | Evens et al. 2006 | |
| Alliance | Gordon and White 1994 | Borchert et al. 2004, Klein and Evens 2005, Keeler-Wolf and Evens 2006 |
| Association | Gordon and White 1994 | Borchert et al. 2004, Evens et al. 2006, 1994, Gray 1983a, Hanes 1977, 1981, 1994, |
| Association | Keeley and Zedler 1998 | Evens and Kentner 2006, Evens and San 2005, Keeler-Wolf |
| Association | Gordon and White 1994 | Gray 1983a, Hanes 1977, 1981, 1994, Horton 1960, Horton and Kraebel 1955, Howard 1992b, Klein and Evens 2005, McMurray 1990a, Mills |
| Association | Gordon and White 1994 | Gray 1983a, Hanes 1977, 1981, 1994, Horton 1960, Horton and Kraebel 1955, Howard 1992b, Klein and Evens 2005, McMurray 1990a, Mills |
| Association | Gordon and White 1994 | Gray 1983a, Hanes 1977, 1981, 1994, Horton 1960, Horton and Kraebel 1955, Howard 1992b |
| Association | Gordon and White 1994 | Gray 1983a, Hanes 1977, 1981, 1994, Horton 1960, Horton and Kraebel 1955, Howard 1992b, Klein and Evens 2005, McMurray 1990a, Mills |
| Association | Gordon and White 1994 | Gray 1983a, Hanes 1977, 1981, 1994, Horton 1960, Horton and Kraebel 1955, Howard 1992b, |
| Association | Evens and San 2005 | |
| Association | Keeler-Wolf et al. 2001 | |
| Association | Gordon and White 1994 | Gray 1983a, Hanes 1977, 1981, 1994, Horton 1960, Horton and Kraebel 1955, Howard 1992b, Klein and Evens 2005, McMurray 1990a, Mills |
| Association | Gordon and White 1994 | |
| Association | Klein and Evens 2005 | McMurray 1990a, Mills 1983, Moreno and Oechel 1991, 1992, 1993 |
| Association | Keeler-Wolf et al. 1998b | |
| Association | Keeler-Wolf et al. 2003a | Evens and Kentner 2006 |
| Association | Keeler-Wolf et al. 1998b | |
| Alliance | Keeler-Wolf et al. 1998b | |
| Association | Keeler-Wolf 1986a, c | Keeler-Wolf et al. 1998b, Evens and San 2005 |
| Association | Keeler-Wolf et al. 1998b | |
| Alliance | Barry 1989a | Barry 1989b |
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| Association | Gordon and White 1994 | Evens and San 2005, Evens et al. 2006, Hanes 1977, |
| Association | Keeler-Wolf et al. 2003b | Keeley and Keeley 1998 |
| Alliance | Barry 1989a | Barry 1989b, Borchert et al. 2004, Evens and San 2005, |
| Association | Gordon and White 1994 | Borchert et al. 2004, Keeler-Wolf and Evens 2006 (SAMO), Keeley |
| Association | Keeler-Wolf and Evens 2006 | Klein and Evens 2005, Pase |
| Association | Evens and San 2005 | |
| Association | Keeler-Wolf and Evens 2006 | Keeley and Keeley 1988 |
| Association | Klein and Evens 2005 | Klein and Evens 2005, Pase 1982a, Paysen et al. 1980, Shiflet 1994, Thorne 1976, |
| Association | Klein and Evens 2005 | Pase |
| Association | Keeler-Wolf and Evens 2006 | Keeley and Keeley 1988 |
| Association | Keeler-Wolf and Evens 2006 | Keeley and Keeley 1988 |
| Alliance | Gordon and White 1994 | Griffin 1977, Hanes 1977, 1981, Horton 1960, Keeley and Keeley 1988, Minnich |
| Association | Gordon and White 1994 | Griffin 1977, Hanes 1977, 1981, Horton 1960, Keeley and Keeley 1988, Minnich |
| Alliance | Keeler-Wolf and Evens 2006 | |
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| Association | Borchert et al. 2004 | |
| Association | Gordon and White 1994 | Borchert et al. 2004, Evens and Kentner, Griffin 1977, Hanes 1977, 1981, Horton 1960, Keeler-Wolf |
| Association | Evens and Kentner 2006 | |
| Association | Gordon and White 1994 | Klein and Evens 2005, Kentner 2006, Griffin 1977, Hanes 1977, 1981, Horton 1960, Keeley and Keeley |
| Association | Gordon and White 1994 | Griffin 1977, |
| Association | Klein and Evens 2005 | Minnich 1976, Tirmenstein 1989d, White 1991 |
| Association | Klein and Evens 2005 | Minnich 1976, Tirmenstein 1989d, White 1991 |
| Association | Klein and Evens 2005 | Minnich 1976, Tirmenstein 1989d, White 1991 |
| Association | White and Sawyer 1995 | klein and Evens 2005 |
| Association | Klein and Evens 2005 | Minnich 1976, Tirmenstein 1989d, White 1991 |
| Association | Gordon and White 1994 | Klein and Evens 2005, Griffin 1977, Hanes 1977, 1981, Horton 1960, Minnich 1976, |

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| Alliance | Kirkpatrick and Hutchinson 1977 | |
| Association | Kirkpatrick and Hutchinson 1977 | |
| Association | Keeler-Wolf and Evens 2006 | Keeley and Keeley 1988 |
| Association | Kirkpatrick and Hutchinson 1977 | |
| Association | Evens and San 2004 | |
| Association | Keeler-Wolf and Evens 2006 | Evens and Kentner 2006; Klein and Evens 2005 |
| Association | Keeler-Wolf and Evens 2006 | |
| Association | Gordon and White 1994 | Gray 1982, 1983, Halligan 1973, Jones and |
| Association | Evens et al. 2006 | |
| Association | DeSimone and Burk 1992 | DeSimone and Zedler |
| Association | Evens and San 2005 | Klein and Evens 2005, Malanson and O'Leary 1995, Malanson 1984, Malanson and Westman 1991, Montalvo 2002a, Mooney 1977 |
| Association | Gordon and White 1994 | Gray 1982, 1983, Halligan 1973, Jones and |
| Association | Klein and Evens 2006 | |
| Association | Evens and San 2004 | |
| Association | Keeler-Wolf and Evens 2006 | |
| Alliance | Gordon and White 1994 | |
| Association | Evens and San 2005 | Keeler-Wolf and Evens 2006, Klein and Evens 2005, NatureServe 2007b, |
| Association | Evens et al. 2006 | |
| Association | Evens and San 2005 | Klein and Evens 2005, Malanson |
| Association | Gordon and White 1994 | |
| Association | DeSimone and Burk 1992 | Gordon and White 1994, Kirkpatrick and |
| Association | Keeler-Wolf and Evens 2006 | |
| Association | Keeler-Wolf and Evens 2006 | |
| Alliance | Gordon and White 1994 | Axelrod 1978, Barbour 1994, Barry 1989a, 1989b |
| Association | DeSimone and Burk 1992 | Gordon and White 1994, Jones and Stokes Associates |
| Association | Evens and San 2005 | |
| Alliance | Keeler-Wolf and Evens 2006 | |
| Association | Keeler-Wolf and Evens 2006 | NatureServe 2007, Montalvo and |
| Alliance | Evens and San 2005 | Axelrod 1978, Barbour 1994b, DeSimone and Burk |
| Association | Malanson 1984 | Keeler-Wolf and Evens 2006, Keeley and Keeley 1984, 1988, Malanson and O'Leary 1982, Mooney 1977, O'Leary 1990, Rundel 2007, |
| Association | Kirkpatrick and Hutchinson 1977 | Evens and San 2005, Keeler-Wolf and Evens 2006, Keeley and Keeley 1984, 1988, Klein and Evens 2005 |
| Association | Evens and San 2005 | |
| Association | Keeler-Wolf and Evens 2006 | Keeley and Keeley 1984, 1988 |
| Association | Keeler-Wolf and Evens 2006 | Keeley and Keeley 1984, 1988 |
| Association | Keeler-Wolf and Evens 2006 | Keeley and Keeley 1984, 1988 |
| Alliance | Keeler-Wolf and Evens 2006 | |
| Association | Keeler-Wolf and Evens 2006 | |
| Alliance | Keeler-Wolf and Evens 2006 | |
| Alliance | Cole 1967 | Axelrod 1978, Barbour 1994a, 1994b |
| Association | Gordon and White 1994 | Evens et al. 2006, Keeler-Wolf and Evens 2006, Klein and Evens |
| Association | Gordon and White 1994 | |
| Association | Keeler-Wolf et al. 1998b | |
| Association | Gordon and White 1994 | |
| Association | Klein and Evens 2005 | Kummerow et al. 1977, Malanson 1984, Minnich |
| Association | Klein and Evens 2006 | Kummerow et al. 1977, Malanson 1984, Minnich |
| Association | Klein and Evens 2005 | Kummerow et al. 1977, Malanson 1984, Minnich |
| Association | Klein and Evens 2006 | Kummerow et al. 1977, Malanson 1984, Minnich and Dezzani 1998, Miriti et al. 1998, Montalvo 2002b, Montalvo et al. 2002, Mooney 1977, Moran |
| Association | Keeler-Wolf and Evens 2006 | |
| Association | Evens and San 2005 | Evens et al. 2006, NatureServe 2007b, O'Leary 1990, Pase and Brown 1982, Paysen et al. 1980, Vasek and Barbour |
| Association | Keeler-Wolf and Thomas 2000 | Keeley 1998, Keeley and Keeley 1988 |
| Association | Kirkpatrick and Hutchinson 1977 | DeSimone and Burk 1992, Gordon and White 1994 |
| Association | Keeler-Wolf and Evens 2006 | |
| Association | Kirkpatrick and Hutchinson 1977 | |
| Association | Klein and Evens 2005 | Kummerow et al. 1977, Malanson 1984, Minnich |
| Association | Evens et al. 2006 | |
| Association | Evens et al. 2006 | |
| Association | Evens et al. 2006 | |
| Alliance | Gordon and White 1994 | Axelrod 1978, Barbour 1994, Barry 1989a, 1989b, Boyd et al. 1995, DeSimone and Burk 1992 |
| Association | Gordon and White 1994 | Evens and San 2005, Jones and Stokes Associates 1993, Keeler-Wolf and Evens 2006, Keeley 1998, Keeley and Keeley 1988, Kirkpatrick and |
| Provisional Alliance | Johnson and Rodriguez 2001 | Junak et al. 2007, Philbrick 1972, Thorne 1967 |
| Alliance | Keeler-Wolf et al. 1998b | |
| Association | Evens et al. 2006 | |
| Association | Evens et al. 2006 | |
| Association | Evens and San 2005 | Moran 2004a, 2004b, Keeler-Wolf et al. 1998b |
| Alliance | Klein and Evens 2006 | Evens and San 2005 |
| Association | Klein and Evens 2005 | Minnich and Bahre 1995, Peinado et al. 1995, Weaver 1998 |

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| Association | Cione et al. 2002 | Evens and San 2005, Gordon and White 1994, Klein and Evens 2005, Minnich |
| Association | Klein and Evens 2005 | Minnich and Bahre 1995, Peinado et al. 1995, Weaver 1998. |
| Association | Cione et al. 2002 | Evens and San 2005, Klein and Evens 2005, Minnich and Bahre 1995, Peinado et al. 1995, Weaver 1998 |
| Alliance | Evens and San 2005 | Klein and Evens 2005 |
| Association | DeSimone and Burk 1992 | Evens and San 2005 |
| Association | Klein and Evens 2005 | |
| Association | Evens and San 2005 | |
| Alliance | Borchert et al. 2004 | |
| Association | Keeler-Wolf and Evens 2006 | Borchert et al. 2004, Jones and Stokes |
| Association | Kirkpatrick and Hutchinson 1977 | Borchert et al. 2004, Jones and Stokes 1993, Keeler-Wolf and Evens 2006, Keeley 1988, |
| Association | Keeler-Wolf and Evens 2006 | Keeley 1988, Keeley and Keeley 1988 |
| Association | Keeler-Wolf and Evens 2006 | |
| Association | Kirkpatrick and Hutchinson 1977 | |
| Alliance | Borchert et al. 2004 | Evens and San 2005 |
| Association | Malanson 1984 | Evens and San 2004, Evens and San 2005, Gill and Hanlon 1998, Haidinger and Keeley 1993, Jones |
| Association | Malanson 1984 | |
| Association | Keeler-Wolf and Evens 2006 | |
| Association | Kirkpatrick and Hutchinson 1977 | NatureServe 2007b, O'Leary 1990, 1995, Pase and Brown 1982, |
| Association | Evens et al. 2006 | |
| Association | Klein and Evens 2005 | |
| Association | Kirkpatrick and Hutchinson 1977 | Keeler-Wolf and Evens 2006, Keeley and Fotheringham 1998, Keeley and Keeley |
| Association | Mooney 1977 | Montalvo and McMillan 2002b |
| Association | Keeler-Wolf and Evens 2006 | Keeley and Fotheringham 1998, Keeley and Keeley |
| Alliance | Evens and San 2005 | Berg 1966, Bullock 1989, Keeler-Wolf and Evens 2006 |
| Association | Evens and San 2005 | Keeler-Wolf and Evens 2006 |
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| Provisional Alliance | Twisselmann 1967 | Keeler-Wolf 2007b |
| Provisional Alliance | Klein and Evens 2005. | |
| Provisional Alliance | Evens et al. 2006 | Bonneau 2000, James et al. 1988, McDaniel et al. 1997. |
| Provisional Association | Evens et al. 2006 | |
| Alliance | Keeler-Wolf and Evens 2006 | |
| Association | Keeler-Wolf and Evens 2006 | Keeley and Keeley 1984 |
| Association | Keeler-Wolf and Evens 2006 | Keeley and Keeley 1984 |
| Alliance | Evens and San 2005 | |
| Association | Junak et al. 2007 | |
| Association | Johnson and Rodriguez 2001 | Junak et al. 2007 |
| Association | Johnson and Rodriguez 2001 | Junak et al. 2007 |
| Alliance | Evens and San 2005 | |
| Association | Keeler-Wolf and Evens 2006 | Montalvo 2003, NatureServe 2007b, Stillwater |
| Alliance | Keeler-Wolf et al. 2003b | Evens et al. 2006 |
| Association | Keeler-Wolf et al. 2003b | |
| Association | NatureServe 2007b | |
| Association | Junak et al. 2007 | |
| Alliance | Keeler-Wolf and Evens 2006 | Bond and Midgley 2001 |
| Association | Keeler-Wolf and Evens 2006 | Lloret et al. 2005 |
| Association | Keeler-Wolf and Evens 2006 | Lloret et al. 2005 |
| Association | Keeler-Wolf and Evens 2006 | Lloret et al. 2005 |
| Association | Keeler-Wolf and Evens 2006 | Lloret et al. 2005 |
| Association | Keeler-Wolf and Evens 2006 | Lloret et al. 2005 |
| Association | Keeler-Wolf and Evens 2006 | Lloret et al. 2005 |
| Semi-natural Stands | Alvarez 2000 | DiTomaso and Healy 2007 |
| Semi-natural Stands | Hoshovsky 2000b | Evens and Kentner 2006, Hoshovsky 2005b |
| Semi-natural Stands | Nilsen 2000 | Keeler-Wolf and Evens 2006, Zouhar 2005a, 2005b, 2005d |
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| Provisional Alliance | | |
| Alliance | Klein and Evens 2005 | |
| Association | Klein and Evens 2005 | |
| Association | NatureServe 2007b | Pavlik 1995, Pavlik et al. 1993, Schiffman |
| Alliance | Groen 2005 | |
| Association | NatureServe 2007b | Shultz 2006 |
| Association | NatureServe 2007b | Shultz 2006 |
| Alliance | Cook 1965 | Bartolome et al. 2007, Clark and Charest 1992, Leger 20o4, NatureServe 2007 |
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| Association | Robinson et al. 1995 | NatureServe 2007b, Schiffman 2007, Wills 2006 |
| Alliance | Evens et al. 2004 | Klein et al. 2007 |
| Provisional Association | Taylor et al. 1992 | Weiss 1999 |
| Provisional Association | Klein and Evens 2006 | |
| Association | Junak et al. 2007 | |
| Association | McCarten 1991 | Evens and San 2004, Klein and Evens 2006, Rodriguez-Rojo et al. 2001a,b, Weiss 1999 |

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| Association | Barbour et al. 2007 | Grewell et al. 2007 |
| Association | Evens and San 2004 | McCarten 1991 |
| Association | Klein et al. 2007 | |
| Association | Klein et al. 2007 | |
| Association | Klein et al. 2007 | |
| Association | Klein et al. 2007 | |
| Association | Evens and San 2004 | Klein et al. 2007 |
| Association | Hobbs and Mooney 1991 | Evens and San 2004, Evens et al. 2006, Howard 2006 |
| Association | Evens and San 2004 | Evens and Kentner 2006, Klein et al. 2007 |
| Association | Klein et al. 2007 | |
| Association | Evens, San and Taylor 2004 | Klein et al. 2007 |
| Association | Evens and San 2004 | Klein et al. 2007 |
| Provisional Alliance | S. Smith 1998 | Buck 2007, Klein et al. 2007 |
| Alliance | Bartolome et al. 2007a | |
| Association | cf. Evens et al. 2004 | Klein et al. 2007, Schiffman 2007, York 1997 |
| Alliance | Keeler-Wolf and Evens 2006 | Keeley 2002b |
| Association | Keeler-Wolf and Evens 2006 | Keeley 2002b |
| Provisional Alliance | Evens and San 2004 | Fiedler and Leidy 1987, Kruckeberg 1984 |
| Provisional Association | Evens and San 2004 | Fiedler and Leidy 1987, Kruckeberg 1984 |
| Provisional Alliance | Stoddart et al. 1975 | Bartolome et al. 2007a, Dyer 2005b, Hamilton et al. 2002, Heady 1977, Keeley 1993a, Magney 1992, |
| Provisional Alliance | Stoddart et al. 1975 | Heady 1977, Keeley 1993a, 2002b, Keeler-Wolf and Evens 2006, Magney 1992, Paysen et al. 1980 |
| Alliance | Evens and San 2005 | Klein and Evens 2005, Keeler-Wolf and Evens 2006, Klein et al. 2007 |
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| Association | Burcham 1957 | Evens and Kentner 2006, Barry 1972, Bartolome 1981, Bartolome et al. 2007a, |
| Association | Stoddart et al. 1975 | Parker 1990b, Paysen et al. 1980, Steinberg 2002c, Stephenson and Calcarone 1999 |
| Association | Junak et al. 2007 | Keeler-Wolf and Evens 2006 |
| Association | Junak et al. 2007 | |
| Association | Evens and San 2005 | Klein and Evens 2005, Latting 1976, Magney 1992 |
| Association | Klein et al. 2007 | |
| Association | Fiedler and Leidy 1987 | Evens and Kentner 2006 |
| Association | Evens and San 2004 | |
| Association | Evens and San 2004 | |
| Association | Evens and Kentner 2006 | |
| Association | White 1966b | Stuart et al. 1993, Turner and Brown 1982, White 1967 |
| Association | Keeler-Wolf et al. 2003a | Keeley 1990b, 1993a, 1993b |
| Association | Keeler-Wolf and Evens 2006 | |
| Provisional Semi-natural Stands | DiTomaso et al. 2001 | Cal-IPC 2006, CDFA 2003, Davy 2007, Drenovsky and Batten 2007 |
| Provisional Association | Evens and San 2004 | |
| Semi-natural Stands | Keeler-Wolf and Evens 2006 | |
| Semi-natural Stands | Parsons and Stohlgren 1989 | Stromberg et al. 2007, Wills 2006. |
| Semi-natural Stands | Evens and San 2004 | |
| Semi-natural Stands | Klein et al. 2007 | |
| Semi-natural Stands | Keeler-Wolf and Evens 2006 | |
| Semi-natural Stands | DiTomaso and Healy 2007 | |
| Semi-natural Stands | Keeler Wolf and Evens 2006 | Keeler-Wolf and Vaghti 2000, Sanders and Minnich 2000 |
| Semi-natural Stands | Keeler Wolf and Evens 2006, | |
| Semi-natural Stands | Evens and Hartman 2007 | |
| Semi-natural Stands | Keeler-Wolf and Vaghti 2000 | Sanders and Minnich 2000 |
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| Semi-natural Stands | | |
| Semi-natural Stands | Keeler-Wolf et al. 2003a | Keeley 2006 |
| Semi-natural Stands | Keeler-Wolf and Evens 2006 | Solomeshch and Barbour 2006, Klein et al. 2007 |
| Semi-natural Stands | Keeler-Wolf and Evens 2006 | |
| Semi-natural Stands | Klein and Evens 2006 | |
| Semi-natural Stands | Jimerson et al. 2000 | |
| Semi-natural Stands | Evens and San 2004 | |
| Semi-natural Stands | Jimerson et al. 2000 | |
| Semi-natural Stands | Jimerson et al. 2000 | |
| Semi-natural Stands | Jimerson et al. 2000 | |
| Semi-natural Stands | Klein et al. 2007 | |
| Semi-natural Stands | Evens et al. 2004 | |
| Semi-natural Stands | Evens et al. 2004 | |
| Semi-natural Stands | Klein et al. 2007 | |
| Semi-natural Stands | Jimerson et al. 2000 | |
| Semi-natural Stands | Evens et al. 2004 | Klein et al. 2007 |
| Semi-natural Stands | Jimerson et al. 2000 | |
| Semi-natural Stands | Kopecko and Lathrop 1975 | |
| Semi-natural Stands | Evens et al. 2004 | Klein et al. 2007 |
| Semi-natural Stands | Keeler-Wolf et al. 1998b | |
| Semi-natural Stands | Evens and San 2005 | Klein and Evens 2005 |

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| Semi-natural Stands | Brown and Minnich 1986 | Brooks 2000a, b, Brooks and Pyke 2001 |
| Semi-natural Stands | Keeler-Wolf et al. 1998b | |
| Semi-natural Stands | DiTomaso and Gerlach 2000 | DiTomaso and Healy 2007 |
| Semi-natural Stands | Keeler-Wolf and Evens 2006 | |
| Semi-natural Stands | Klein et al. 2007 | |
| Semi-natural Stands | Evens et al. 2004 | |
| Provisional Semi-natural Stands | CDFA 2006 | Cal-IPC 2006, Keil and Ochsmann 2006, DiTomaso and Healy 2007 |
| Semi-natural Stands | Drewitz 2000 | Bean and Russo 2001, DiTomaso and Healy 2007, |
| Semi-natural Stands | Keeler-Wolf and Vaghti 2000 | Klinger 2000 |
| Semi-natural Stands | Keeler-Wolf and Evens 2006 | |
| Semi-natural Stands | Keeler-Wolf and Vaghti 2000 | NatureServe 2007 |
| Semi-natural Stands | Jimerson et al. 2000 | |
| Semi-natural Stands | Jimerson et al. 2000 | |
| Semi-natural Stands | Jimerson et al. 2000 | |
| Semi-natural Stands | Jimerson et al. 2000 | |
| Semi-natural Stands | Jimerson et al. 2000 | |
| Semi-natural Stands | Jimerson et al. 2000 | |
| Semi-natural Stands | Jimerson et al. 2000 | |
| Semi-natural Stands | Keeler-Wolf and Vaghti 2000 | Pickart 2006, Klein et al. 2007, Carey 1995c |
| Semi-natural Stands | Keeler-Wolf and Evens 2006 | |
| Semi-natural Stands | O'Neil and Egan 2004 | Keeler-Wolf and Evens 2006 |
| Semi-natural Stands | Klein et al. 2007 | |
| Semi-natural Stands | Hickson and Keeler-Wolf 2007 | |
| Semi-natural Stands | Pickart 2006 | Sullivan 1992 |
| Semi-natural Stands | Evens and San 2004 | |
| Semi-natural Stands | Evens et al. 2004 | |
| Semi-natural Stands | Keeler-Wolf and Vaghti 2000 | |
| Semi-natural Stands | O'Neil and Egan 2004 | |
| Semi-natural Stands | Pickart 2006 | cf. Keeler-Wolf and Vaghti 2000 |
| Provisional Semi-natural Stands | Klein et al. 2007 | |
| Semi-natural Stands | Keeler-Wolf and Evens 2006 | Benton 1998 , DiTomaso and Healy 2007 |
| Stand Type | Lovich 2000 | Keeler-Wolf and Evens 2006 |
| Provisional Alliance | Padgett and Manning 1988 | S. Smith 1998, Manning 1998 |
| Provisional Alliance | Manning and Padgett 1995 | Stevens 2000b, Weixelman et al. 1999 |
| Provisional Alliance | Ratliff 1985 | S. Smith 1998 |
| Provisional Alliance | Franklin and Dyrness 1988 | Franklin and Dyrness 1988, Sawyer and Keeler-Wolf 2007 |
| Alliance | Keeler-Wolf et al. 2003b | |
| Association | Manning and Padgett 1995 | S. Smith 1998, Weixelman et al. 1999 |
| Association | Potter 2005 | |
| Association | Nachlinger 1985 | |
| Association | Taylor 1984 | Keeler-Wolf et al. 2003b |
| Provisional Alliance | Benedict 1983 | Cheng 2004 |
| Provisional Association | Benedict 1983 | |
| Provisional Alliance | Smith 1998 | Cheng 2004 |
| Alliance | Potter 2005 | |
| Association | S. Smith 1998 | |
| Association | Potter 2005 | |
| Association | Cooper and Wolf 2006 | |
| Provisional Alliance | Smith 1998 | Keeler-Wolf and Moore 2001, Potter 2003 |
| Association | Cooper and Wolf 2006 | cf. S. Smith 1998 |
| Provisional Alliance | Murray 2000 | Christy 2004, Cooper and Wolf 2006 |
| Provisional Alliance | Manning and Padgett 1995 | S. Smith 1998, Johnston 1987 |
| Alliance | Mason 1957 | |
| Association | Beguin and Major 1975 | Burke 1987, Cooper and Wolf 2006, Keeler-Wolf et al. 2003b, Manning and Padgett 1995, Ogle2005b, Paysen et al. 1980, Potter 2005, Ratliff |
| Association | Halpern 1986 | Hermann 1970 |
| Alliance | S. Smith 1998 | Potter 2005 |
| Association | Nachlinger 1985 | Cooper and Wolf 2006, Manning and Padgett 1995, Potter 2005, S. Smith |
| Association | Beguin and Major 1975 | Burke 1987, Cooper and Wolf 2006 |
| Association | Burke 1987 | |
| Association | Cooper and Wolf 2006 | |
| Association | Cooper and Wolf 2006 | |
| Provisional Alliance | Jackson and Bliss 1982 | Nachlinger 1985, Cheng 2004 |
| Alliance | Potter 2005 | |
| Association | Major and Taylor 1977 | |
| Association | Major and Taylor 1977 | |
| Association | Taylor 1984 | |
| Association | Potter 2005 | |
| Association | Taylor 1984 | |
| Association | Major and Taylor 1977 | |
| Alliance | S. Smith 1998 | Potter 2005, Keeler-Wolf et al. 2003a |

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| Association | Manning and Padgett 1995 | S. Smith 1998 |
| Association | Heady et al. 1977 | |
| Association | Keeler-Wolf et al. 2003b | |
| Association | Benedict 1983 | Ford and Hayes 2007 |
| Association | Allen-Diaz 1991 | Manning and Padgett 1995 |
| Association | Keeler-Wolf et al. 2003a | |
| Association | Keeler-Wolf et al. 2003a | |
| Association | Hickson and Keeler-Wolf 2007 | |
| Association | Potter 2005 | |
| Association | Benedict 1983 | Ford and Hayes 2007 |
| Association | Benedict 1983 | Ford and Hayes 2007 |
| Association | Taylor 1984 | Walsh 1995a |
| Association | Ratliff 1982 | Ratliff 1985, Sawyer and Keeler-Wolf 2007 |
| Association | Pickart 2006 | |
| Association | S. Smith 1998 | Potter 2005, Cooper and Wolf 2006 |
| Association | S. Smith 1998 | Potter 2005, Cooper and Wolf 2006 |
| Association | Keeler-Wolf et al. 2003b | |
| Association | Beguin and Major 1975 | |
| Provisional Alliance | Hartnett and Bazzaz 1983 | Coladanato 1993, Goldberg 1987, 1988, Hartnett and Bazzaz 1985a–c, Keeler-Wolf et al. 2003b, Potter 2005 |
| Provisional Alliance | Ratliff 1982 | Ratliff 1985, S. Smith 1998, Weixelman et al. 1999 |
| Provisional Alliance | Evens and San 2005 | |
| Alliance | Keeler-Wolf et al. 2003b | |
| Provisional Association | Keeler-Wolf et al. 2003b | |
| Association | Keeler-Wolf et al. 2003b | |
| Association | Keeler-Wolf et al. 2003b | |
| Association | Keeler-Wolf et al. 2003b | |
| Provisional Alliance | Evens and San 2004 | Evens et al. 2005 |
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| Alliance | Evens and Kentner 2006 | |
| Association | Paysen et al. 1980 | Jimerson 1993, Kruckeberg 1984, Sawyer 2006, Tisdale 1994d, Zouhar 2000b |
| Association | Evens and Kentner 2006 | |
| Association | Evens and Kentner 2006 | |
| Alliance | Heady 1977 | Anderson 2002a, Barry 1989a, b, CNDDB 2008, Paysen et al. 1980, 1982, Young et al. 2007 |
| Alliance | Hickson et al. 2007 | Heady 1977, Howard 1997b, Manning and Padgett 1995, Weixelman et al. |
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| Association | Howard 1997b | Hickson et al. 2007 |
| Association | Weixelman et al. 1999 | |
| Association | Manning and Padgett 1995 | |
| Semi-natural Stands | Pickart 2006 | |
| Semi-natural Stands | S. Smith 1998 | |
| Association | Pickart 2006 | |
| Association | Pickart 2006 | |
| Stand Type | Pitcher and Russo 1988a | Pitcher and Russo 1988b, Pickart 2006 |
| Stand Type | Keeler-Wolf et al. 2003a | |
| Semi-natural Stands | Pickart 2006 | Keeler-Wolf et al. 2003, Ford and Hayes 2007 |
| Semi-natural Stands | Keeler-Wolf and Vaghti 2000 | Evens and San 2004, Jimerson et al. 2000, Harrington and Lanini 2000 |
| Stand Type | Keeler-Wolf and Vaghti 2000 | |
| Provisional Association | Harrington and Lanini 2000 | Evens and San 2004 |
| Stand Type | Jimerson, et al. 2000 | |
| Semi-natural Stands | S. Smith 1998 | Potter 2005, NatureServe 2007a |
| Stand Type | | |
| Stand Type | Allen-Diaz 1991 | DiTomaso and Healy 2007 |
| Stand Type | Stuart et al. 1993 | Uchytil 1993 |
| Stand Type | Allen-Diaz 1991 | DiTomaso and Healy 2007, Potter 2005 |
| Stand Type | Weixelman et al. 1999 | Wennerberg 2004a |
| Stand Type | Weixelman et al. 1999 | Wennerberg 2004a |
| Semi-natural Stands | Beatley 1966 | Carpenter and Murray 2005, DiTomaso and Healy 2007 |
| Semi-natural Stands | Stuart et al. 1993 | Evens and San 2005 |
| Semi-natural Stands | White 1994a | Young and Evans 1995, Zouhar 2003, Keeler-Wolf et al. 1998, Mack 1981, 1986 |
| Alliance | Keeler-Wolf and Moore 2001 | Potter 2003 |
| Association | Keeler-Wolf and Moore 2001 | |
| Association | Cooper and Wolf 2006 | |
| Association | Benedict 1983 | |
| Association | Halpern 1986 | |
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| Alliance | Stillman 1980 | Imper 1988a; Keeler-Wolf and Keeler-Wolf 1974, 1981; Cheng 2004, Potter 2005 |
| Association | Potter 1998 | |
| Association | Imper 1988a, see Cheng 2004 | |
| Association | Stillman 1980 | |
| Association | Potter 2005 | |

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| Alliance | Chappell et al. 1997 | Cheng 2004, Keeler-Wolf et al. 2003b, Tirmenstein 1999d |
| Provisional Association | Keeler-Wolf et al. 2003b | |
| Provisional Association | Keeler-Wolf et al. 2003b | |
| Alliance | Evens and Kentner 2006 | S. Smith 1998, Klein et al. 2007 |
| Association | Manning and Padgett 1995 | S. Smith 1998 |
| Association | Potter 2005 | Patterson and Cooper 2007 |
| Association | Evens et al. 2004 | Ford and Hayes 2007 |
| Association | Stillman 1980 | Sawyer and Keeler-Wolf 2007 |
| Provisional Alliance | Major and Taylor 1977 | Benedict 1983, Ratliff 1985, S. Smith 1998 |
| Provisional Alliance | Benedict 1983 | Major and Taylor 1977, Ratliff 1985, Sawyer and Keeler-Wolf 2007. |
| Provisional Association | Major and Taylor 1977 | |
| Alliance | Keeler-Wolf et al. 2003b | Potter 2005 |
| Association | Keeler-Wolf et al. 2003b | |
| Association | Potter 2005 | Sawyer and Keeler-Wolf 2007 |
| Association | Taylor 1984 | |
| Alliance | Barry 1989a | Allen et al. 1991, Archer 2000, Barry 1989b |
| Association | Sawyer and Thornburgh 1997 | |
| Association | Taylor and Teare 1979a | |
| Association | Keeler-Wolf et al. 2003a | Morgan and Neuenschwander 1988 |
| Association | Burke 1982 | |
| Association | Burke 1982 | |
| Association | Keeler-Wolf et al.2003a | Morgan and Neuenschwander 1988 |
| Alliance | Keeler-Wolf et al. 2003b | |
| Association | Taylor 1984 | Keeler-Wolf et al. 2003b, Sawyer and Keeler-Wolf |
| Alliance | Keeler-Wolf et al. 2003b | |
| Association | Keeler-Wolf et al. 2003b | Sawyer and Keeler-Wolf 2007, Taylor 1984 |
| Association | Keeler-Wolf et al. 2003b | Sawyer and Ikeeler-Wolf 2007 |
| Association | Taylor 1984 | Keeler-Wolf et al. 2003b, Sawyer and Keeler-Wolf |
| Alliance | Cheng 2004 | Keeler-Wolf et al. 2003b |
| Association | Pemble 1970 | |
| Association | Taylor 1984 | Keeler-Wolf et al. 2003b |
| Association | Potter 2005 | |
| Alliance | Adams 1962 | Barry 1989a, 1989b, Cronemiller 1959, Keeler-Wolf et al. 2003a, Klein et al. |
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| Association | Gordon and White 1994 | Griffin 1982, Howard |
| Association | Keeler-Wolf et al. 2003b | |
| Association | Klein et al. 2007 | Paysen et al. 1980, Shiflet 1994 |
| Association | Stuart et al. 1993 | |
| Association | Stuart et al. 1993 | |
| Provisional Alliance | Keeler-Wolf et al. 2003a | Esser 1995a |
| Alliance | Keeler-Wolf et al. 2003b | Lee 2004 |
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| Provisional Association | Klein et al. 2007 | |
| Association | Jimmerson 1993 | |
| Association | Sawyer 1981a | |
| Association | Nixon and Muller 1997 | Lee 2004 |
| Alliance | Keeler-Wolf and Moore 2001 | |
| Association | Manning and Padgett 1995 | |
| Association | S. Smith 1998 | |
| Association | McArthur 1994 | Manning and Padgett 1995, S. Smith 1998 |
| Association | Kovalchik 1987 | Keeler-Wolf et al. 2003b, Weixelman et al. 1999 |
| Association | Manning and Padgett 1995 | McArthur 1994, Weixelman et al. 1999 |
| Association | Weixelman et al. 1999 | Young et al. 1977, 2007 |
| Association | S. Smith 1998 | |
| Provisional Alliance | Keeler-Wolf et al. 1998 | Nesom 2003, Evens and San 2005 |
| Provisional Alliance | Evens and San 2005 | Johnson 2000c, NatureServe 2007a, Welch 2002 |
| Provisional Alliance | Marshall 1975b | Klein and Evens 2006 |
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| Alliance | Hektner and Foin 1977 | |
| Association | Hektner and Foin 1977 | |
| Association | Keeler-Wolf et al. 2003b | |
| Association | Keeler-Wolf et al. 2003b | |
| Provisional Alliance | S. Smith 1998 | Keeler-Wolf et al. 2003a |
| Association | S. Smith 1998 | |
| Association | Keeler-Wolf et al. 2003b | Ford and Hayes 2007, Hektner et al. 1983, Heady et al. 1977, Johannessen |
| Association | Grenier 1989 | |
| Association | Stuart et al. 1992 | |
| Association | Helms and Ratliff 1987 | |
| Alliance | Keeler-Wolf et al. 2003a | |
| Association | Walsh 1995b | Keeler-Wolf et al. 2003a, Michaels 2004 |

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| Association | Keeler-Wolf et al. 2003a | Zimmerman 1991b |
| Alliance | Keeler-Wolf et al. 2003a | Anderson 2005, Haeussler and Coates 1986 |
| Alliance | | |
| Association | Belsher 1999 | |
| Association | Belsher 1999 | |
| Association | Belsher 1999 | |
| Association | Belsher 1999 | Keeler-Wolf et al. 2003a, Sawyer and Keeler-Wolf 1995 |
| Association | Heady et al. 1977 | Duebendorfer 1989 |
| Alliance | Keeler-Wolf et al. 2001 | |
| Association | Keeler-Wolf and Evens 2006 | |
| Association | Keeler-Wolf et al. 2003a | |
| Association | Keeler-Wolf and Evens 2006 | |
| Association | Potter 2005 | |
| Association | Evens et al. 2004 | |
| Association | Evens et al. 2004 | |
| Association | Klein et al. 2007 | |
| Association | Evens and San 2005 | Howard 1994 |
| Semi-natural Stands | Keeler-Wolf and Vaghti 2000 | |
| Stand Type | Keeler-Wolf and Vaghti 2000 | Hickson and Keeler-Wolf 2007, Hoshovsky 2000, Klein et al. 2007 |
| Stand Type | Potter 2005 | Tirmenstein 1989e. |
| Alliance | Gordon and White 1994 | Borchert et al. 2004, Keeler-Wolf and Evens 2006 |
| Association | Gordon and White 1994 | Borchert et al. 2004, Keeler-Wolf and Evens 2006, Hanes 1965, 1977, 1981, Howard 1993, Keeley and Keeley 1988, |
| Association | Klein and Evens 2005 | McMurray 1990a, Marion 1943, Vogl 1976 |
| Association | Gordon and White 1994 | Hanes 1965, 1977, 1981, Howard 1993, Klein and Evens 2005, McMurray 1990a, Marion |
| Association | Keeler-Wolf and Evens 2006 | Keeley and Keeley 1988 |
| Association | Gordon and White 1994 | Klein and Evens 2005, McMurray 1990a, Marion |
| Association | Gordon and White 1994 | Hanes 1965, 1977, 1981, Howard 1993 |
| Association | Klein and Evens 2005 | McMurray 1990a, Marion |
| Association | Klein and Evens 2005 | |
| Association | Klein and Evens 2005 | |
| Association | Klein and Evens 2005 | Borchert et al. 2004 |
| Association | Gordon and White 1994 | Hanes 1965, 1977, 1981, Howard 1993 |
| Association | Klein and Evens 2005 | McMurray 1990a, Marion 1943, Vogl 1976 |
| Association | Klein and Evens 2005 | McMurray 1990a, Marion 1943, Vogl 1976 |
| Alliance | Gordon and White 1994 | Keeler-Wolf et al. 1998b, Klein and Evens 2005 |
| Association | Klein and Evens 2005 | Nixon 2002, Nixon and Muller 1997, Nixon and Steele 1981 |
| Association | Klein and Evens 2005 | Nixon 2002, Nixon and Muller 1997, Nixon and Steele 1981 |
| Association | Keeler-Wolf et al. 1998b | Keeler-Wolf et al.  2005, Klein and Evens 2005, Nixon 2002, Nixon and Muller 1997, |
| Association | Gordon and White 1994 | Evens and San 2005, Keeler-Wolf et al. 1998b, 2005 |
| Association | Keeler-Wolf et al. 1998b | Keeler-Wolf et al.  2005, Klein and Evens 2005, Nixon 2002, Nixon and Muller 1997, |
| Association | Keeler-Wolf et al. 2005 | |
| Alliance | Borchert et al. 2004 | |
| Association | Gordon and White 1994 | Borchert et al. 2004, Nixon and Muller 1997 |
| Association | Evens et al. 2006 | |
| Association | Evens et al. 2006 | |
| Association | Evens et al. 2006 | |
| Association | Evens et al. 2006 | |
| Alliance | Gordon and White 1994 | Evens and San 2005, Bissing 1992, Bullock and Chamela 1991, |
| Association | Gordon and White 1994 | Conard et al. 1985, Hanes 1976, 1977, 1981, Horton 1960, Keeler-Wolf et al. 1998b, Keeley 1993c, Keeley and Keeley 1988 |
| Association | Evens and San 2005 | Gordon and White 1994, Conardet al. 1985, Keeler-Wolf et al. 1998b, Keeley 1993c, Keeley and |
| Alliance | Evens 2000 | Nixon 2002, Reid et al. 1999, Tirmenstein 1999h, Thomas et al. 2004 |
| Association | Keeler-Wolf and Thomas 2000 | Evens 2000, Nixon 2002, Reid et al. 1999, |
| Association | Keeler-Wolf and Thomas 2000 | Evens 2000, Nixon 2002, Reid et al. 1999, Tirmenstein 1999h, Thomas et al. 2004 |
| Alliance | Keeler-Wolf et al. 1998 | |
| Association | Keeler-Wolf and Evens 2006 | |
| Association | Keeler-Wolf and Evens□ | |
| Association | Evens and San 2005 | Klein and Evens 2005 |
| Alliance | Barry 1989a□ | Barry 1989b, Bolsinger 1989, Dyer and O'BeckKeeler-Wolf et al. 2003b |
| Association | Keeler-Wolf et al. 2003b | Minnich 1999, Oakley et al. 2003, Paysen et al. 1980, Reeves 2006, |
| Alliance | Howard 1992d | |
| Association | Keeler-Wolf and Moore 2001 | Keeler-Wolf et al. 2003b, Pase |
| Alliance | Lee 2004 | |
| Association | Lee 2004 | McMurray 1989c. Manos, P.S., Cannon, C.H., and S. Oh. 2008. Phylogenetic relationships and |
| Association | Lee 2004 | McMurray 1989c. Manos, P.S., Cannon, C.H., and S. Oh. 2008. Phylogenetic relationships and |

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| Alliance | Sawyer et al. 1978b | Muth 1976, 1980, Nixon 2002, Nixon and Muller 1997 |
| Provisional Association | Sawyer et al. 1978b | |
| Alliance | Keeler-Wolf et al. 2003b | |
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| Association | Keeler-Wolf and Moore 2001 | Keeler-Wolf et al. 2003b, Riser |
| Association | Keeler-Wolf and Moore 2001 | Keeler-Wolf et al. 2003b, Riser |
| Association | Keeler-Wolf and Moore 2001 | Keeler-Wolf et al. 2003b, Riser |
| Alliance | Keeler-Wolf et al. 2003b | Barbour 1988 |
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| Association | Keeler-Wolf and Moore 2001 | Keeley 1988, Reid et al. 1999, Riser and Fry 1994, |
| Association | Sawyer and Thornburgh 1977 | Solinas et al. 1985, Tinnin and Kirkpatrick 1985, Zimmerman 1991a |
| Alliance | Hanes 1977 | Anderson 2001b, Bolsinger 1989, Conard and Radosevich |
| | | |
| Association | Keeler-Wolf et al. 2003b | Riser and Fry 1994, Solinas et al.1985, Winward 1994. |
| Association | Keeler-Wolf et al. 2003b | Riser and Fry 1994, Solinas et al.1985, Winward 1994 |

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| Alliance | Sawyer and Keeler-Wolf 1995 | |
| Association | Casavecchia and Biondi 2001 | |
| Association | Casavecchia and Biondi 2001 | |
| Association | Kaye 2003 | Junak et al. 2007 |
| Association | Johnson and Rodriguez 2001 | Junak et al. 2007, Kaye 2003 |
| Association | Holton and Johnson 1979 | |
| Association | Johnson and Rodriguez 2001 | Junak et al. 2007, Kaye 2003 |
| Association | Bluestone 1981 | |
| Association | Keeler-Wolf et al. 2001 | MacDonald and Barbour 1974 |
| Association | McBride and Stone 1976 | |
| Association | Duebendorfer 1989 | |
| Association | Casavecchia and Biondi 2001 | |
| Association | Parker 1974 | Johnson 1977 |
| Provisional Semi-natural Stands | Williams and Potter 1972 | |
| Association | Wiedemann 1984 | Pickart and Barbour 2007, Pickart and Sawyer 1998, |
| Provisional Alliance | McBride and Stone 1976 | Pickart and Barbour 2007, Stromberg et al. 2002 |
| Alliance | Pickart and Barbour 2007 | Barbour and Johnson 1977 |
| Association | Johnson 1963 | LaBlanca 1993, Parker 1974, Pickart and Barbour 2007, Pickart and Sawyer 1998, Wiedemann 1984 |
| Association | LaBanca 1993 | |
| Association | Bluestone 1981 | Kaye 2003, Kumler 1969 |
| Alliance | Borchert et al. 2004 | Evens and Kentner 2006 |
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| Association | DaSilva and Bartolome 1984 | Borchert et al. 2004, Keeler-Wolf and Evens 2006 |
| Association | Parker 1974 in Barbour and Johnson 1977 modified by | cf. Belsher 1999, Keeler-Wolf et al. 2003a, Parker 1974, Paysen et al. 1980, |
| Association | Heady et al. 1977 | Keeler-Wolf and Evens 2006 |
| Provisional Association | Evens and San 2004 | |
| Association | Keeler-Wolf et al. 2003a | Evens and Kentner 2006 |
| Association | Keeler-Wolf et al. 2003a | Evens and Kentner 2006 |
| Association | Keeler-Wolf et al. 2003a | |
| Association | Keeler-Wolf et al. 2003a | |
| Association | Keeler-Wolf et al. 2003a | |
| Association | O'Neil and Egan 2004 | |
| Association | Keeler-Wolf et al. 2003a | |
| Association | Keeler-Wolf et al. 2003a | |
| Association | DaSilva and Bartolome 1984 | Borchert et al. 2004 |
| Association | Keeler-Wolf et al. 2003a | cf. Belsher 1999, Evens and Kentner 2006, O'Neil and |
| Association | Parker 1974 in Barbour and Johnson 1977 | Paysen et al. 1980, Pickart and Sawyer 1998, Reid et al. 1999, Ross 2002a, |
| Association | Keeler-Wolf and Evens 2006 | |
| Association | Keeler-Wolf et al. 2003a | |
| Association | Keeler-Wolf et al. 2003a | |
| Association | Elliot and Wehausen 1974 | |
| Association | Keeler-Wolf et al. 2003a | |
| Association | Baxter 1992 | cf. Belsher 1999, Keeler-Wolf et al. 2003a |

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| Association | Fiedler and Leidy 1987 | |
| Association | Keeler-Wolf et al. 2003a | Evens and Kentner 2006 |
| Association | Evens and Kentner 2006 | |
| Association | Grams et al. 1977 | Heady et al. 1977, Hobbs and Mooney 1986, Jones and Stokes Associates 1993, Keeler-Wolf et al. 2003a |
| Association | Parker 1974 in Barbour and Johnson 1977 | LaBanca 1993, McBride 1974, McBride and |
| Association | cf. Belsher 1999 | |
| Alliance | Keeler-Wolf et al. 2003a | Evens et al. 2006 |
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| Association | Keeler-Wolf et al. 2003a | |
| Association | Evens and Kentner 2006 | |
| Association | Keeleer-Wolf et al. 2003a | Everns and Kentner 2006 |
| Alliance | Keeler-Wolf et al. 2003a | |
| Association | Klein et al. 2007 | |
| Association | Evens and San 2005 | Klein and Evens 2005, McMurray 1990b |
| Association | Evens and San 2004 | |
| Association | Keeler-Wolf et al. 2003a | |
| Provisional Alliance | Keeler-Wolf et al. 2003a | D. Shirokauer pers. comm. 2003 |
| | | |
| Alliance | Barbour and Johnson 1977c | Barbour 1994, Davidson and Barbour 1977 |
| Association | Holton and Johnson 1979 | Junak et al. 2007 |
| Association | Holton and Johnson 1979 | Junak et al. 2007 |
| Association | Hektner and Foin 1977 | |
| Association | Duebendorfer 1989 | |
| Association | Parker 1974 | Pickart 2000, Pickart and Barbour 2007, Pickart and Sawyer 1998, Ross 2002b, Rudgers and Maron 2003 |
| Association | Bluestone 1981 | Breckon 1974 |
| Alliance | Barbour 1970 | Barbour and Johnson 1977c, Barbour |
| Association | Holton and Johnson 1979 | Jones 1984 |
| Association | Holton and Johnson 1979 | Jones 1984, Keeler-Wolf et al. 2003a, Pickart and Barbour 2007, Russell 1983 |
| Alliance | Keeler-Wolf and Evens 2006 | Qinfeng Guo and Rundel 1998 |
| Association | Keeler-Wolf and Evens 2006 | Qinfeng Guo and Rundel 1998 |
| Semi-natural Stands | Barbour 1970 | Apteckar 2000, Barbour 1970, Barbour and Johnson |
| Semi-natural Stands | Duebendorfer 1989 | LaBanca 1993 |
| Semi-natural Stands | Keeler-Wolf et al. 2003a | |
| Semi-natural Stands | Parker 1974 | LaBanca 1993 |
| Semi-natural Stands | Casavecchia and Biondi 2001 | |
| Provisional Semi-natural Stands | Barbour and Rodman 1970 | Barbour 1972, Boyd 1988, Boyd and Barbour 1993, Pickart and Barbour 2007, |
| Semi-natural Stands | D'Antonio 1993 | Albert 2000, Albert and Antonio 2000, Bossard et al. 2000, D'Antonio 1993, DiTomaso and Healey |
| | | |
| Alliance | Beguin and Major 1975 | |
| Association | Padgett et al. 1989 | Cooper and Wolf 2006, Hansen et al. 1995 |
| Association | Beguin and Major 1975 | |
| Association | Padgett et al. 1989 | Cooper and Wolf 2006, Hansen et al. 1995 |
| Provisional Alliance | Christy 2004 | |
| Provisional Association | Cooper and Wolf 2006 | |
| | | |
| Alliance | Cheatham and Haller 1975 | Barry 1989a, 1989b, Bittman 1985, Cheatham 1976, Crane 1990, Fowlie 1982, Gore 1983 |
| Association | Jimerson et al. 1995 | Kagan et al. 2004, Keeler-Wolf 1986e, 1990e, Knight et al. 1970, |
| Alliance | Holland 1986 | Christy 2004, Imper and Sawyer 1992, Wallace 1992 |
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| Association | Holland 1986 | Imper and Sawyer 1992, Wallace 1992 |
| Association | Cooper and Wolf 2006 | Gucker 2006c |
| Alliance | Cooper and Wolf 2006 | |
| Association | Cooper and Wolf 2006 | |
| Association | Cooper and Wolf 2006 | |
| Association | Cooper and Wolf 2006 | |
| Alliance | Keeler-Wolf et al. 2003b | |
| Association | Keeler-Wolf et al. 2003b | Matthews 1992b |
| Association | Cooper and Wolf 2006 | |
| Association | Cooper and Wolf 2006 | |
| Association | Potter 2005 | |
| | | |
| Alliance | Keeler-Wolf and Vaghti 2000 | |
| Association | Uchytil 1992a | Hickson and Keeler-Wolf 2007, Keeler-Wolf |
| Association | Uchytil 1992a | Hickson and Keeler-Wolf 2007, Keeler-Wolf |
| Alliance | Holland 1986 | Hickson and Keeler-Wolf 2007 |
| Association | Hickson and Keeler-Wolf 2007 | Klein et al. 2007 |
| Association | Keeler-Wolf and Vaghti 2000 | |

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| Association | Hickson and Keeler-Wolf 2007 | |
| Association | Odion et al. 1992a | |
| Association | Hickson and Keeler-Wolf 2007 | |
| Association | Hickson and Keeler-Wolf 2007 | |
| Association | Hickson and Keeler-Wolf 2007 | |
| Alliance | Atwater et al. 1979 | |
| Association | Keeler-Wolf and Vaghti 2000 | Reid et al. 1999, Vaghti and Greco 2007, Purer 1942 |
| Association | Keeler-Wolf and Vaghti 2000 | Keeler-Wolf and Vaghti 2000, Reid et al. 1999, Vaghti and |
| Association | Hickson and Keeler-Wolf 2007 | |
| Association | Keeler-Wolf and Vaghti 2000 | Keeler-Wolf and Evensb 2006, Purer 1942, Reid et al. 1999, |
| Association | Keeler-Wolf and Vaghti 2000 | Reid et al. 1999, Vaghti and Greco 2007, Purer 1942 |
| Association | Keeler-Wolf et al. 2003a | |
| Alliance | Keeler-Wolf and Vaghti 2000 | Evens and San 2005, Evens and Kentner 2006, Pickart 2006, |
| Association | Evens and Kentner 2006 | Keeler-Wolf and Vaghti 2000 |
| Association | Hickson and Keeler-Wolf 2007 | |
| Association | Keeler-Wolf and Vaghti 2000 | |
| Association | Keeler-Wolf and Vaghti 2000 | |
| Association | Keeler-Wolf and Vaghti 2000 | |
| Association | Keeler-Wolf and Vaghti 2000 | |
| Association | Keeler-Wolf and Vaghti 2000 | |
| Association | Junak et al. 2007 | |
| Association | Keeler-Wolf et al. 2001 | Evens and Kentner 2006, Evens and San 2005, Ferren 1989a, Ferren |
| Association | Keeler-Wolf and Vaghti 2000 | |
| Alliance | Pickart 2006 | Grewell et al. 2007, Kagan et al. 2004 |
| Association | Pickart 2006 | |
| Association | Pickart 2006 | |
| Association | Pickart 2006 | |
| Association | Pickart 2006 | |
| Alliance | Keeler-Wolf et al. 2003b | |
| Association | Newton 1989 | Pickart 2006 |
| Association | Duebendorfer 1989 | |
| Association | Keeler-Wolf et al. 2003 | |
| Alliance | Evens and San 2005 | Keeler-Wolf et al. 2003a, Evens and Kentner 2006, Klein et al. 2007 |
| Association | Keeler-Wolf et al. 2003a | Evens and Kentner 2006, Evens and San 2005, Klein et al. 2007, Moran 2004a, b |
| Alliance | Pickart 2006 | |
| Association | Stevens 2000a | Pickart 2006 |
| Association | Casavecchia and Biondi 2001 | |
| Provisional Alliance | Stuart et al. 1996 | Keeler-Wolf et al. 2003b |
| Alliance | Pickart 2006 | |
| Association | Pickart 2006 | Kagan et al. 2004 |
| Alliance | Keeler-Wolf et al. 2003a | Potter 2005 |
| Association | S. Smith 1998 | Cooper and Wolf 2006, Keeler-Wolf et al. 2003a, Kagan et al. 2004, Pickart 2006 |
| Association | Halpern 1985 | |
| Association | Potter 2005 | |

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| Provisional Alliance | Smith 1998 (Draft) | |
| Alliance | Barbour et al. 2007 | |
| Association | Barbour et al. 2007 | Klein et al. 2007, Platenkamp 1998 |
| Association | S. Smith 1998 | |
| Association | Barbour et al. 2007 | Klein et al. 2007, Platenkamp 1998 |
| Association | Taylor et al. 1992 | |
| Provisional Association | Klein et al. 2007 | Schlising and Sanders 1982 |
| Association | Barbour et al. 2003 | Barbour et al. 2007, Klein et al. 2007,Platenkamp 1998 |
| Association | Barbour et al. 2007 | Klein et al. 2007, Platenkamp 1998 |
| Association | Barbour et al. 2007 | |
| Alliance | Klein and Evens 2006 | |
| Association | Potter 2005 | Pickart 2006, Klein et al. 2007 |
| Provisional Association | | |
| Provisional Association | Kepecko and Lathrop 1975 | |
| Association | Klein and Evens 2005 | |

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| Association | Barbour et al. 2003 | |
| Provisional Association | | |
| Provisional Association | Evens, San and Taylor 2004 | |
| Alliance | S. Smith 1998 | |
| Association | Potter 2005 | Klein et al. 2007 |
| Association | cf. S. Smith 1998 | |
| Association | cf. S. Smith 1998 | |
| Alliance | Barbour et al. 2007 | |
| Association | Barbour et al. 2007 | |
| Provisional Alliance | Keeler-Wolf and Vaghti 2000 | Keeler-Wolf et al. 2003a, Hickson and Keeler-Wolf 2007 |
| Alliance | Klein and Evens 2005 | |
| Association | Barbour et al. 2007 | |
| Association | Klein and Evens 2005 | |
| Alliance | Baldwin 2000 | Klein and Evens 2005 |
| Association | Klein and Evens 2005 | |
| Association | Klein and Evens 2005 | |
| Alliance | Barbour et al. 2008 | Barbour et al. 2007, Barbour et al. 2003, Keeler-Wolf et al. 1998a, Holland 1976, Sawyer and Keeler- |
| Provisional Association | Taylor 1992 | |
| Association | Barbour et al. 2008 | Barbour et al. 2007, Barbour et al. 2003, Holland 1976, Keeler-Wolf et al. 1998a, Sawyer and Keeler- |
| Association | Barbour et al. 2008 | Barbour et al. 2007, Barbour et al. 2003, Holland |
| Association | Barbour et al. 2008 | Barbour et al. 2007, Barbour et al. 2003, Holland |
| Association | Barbour et al. 2008 | Barbour et al. 2007, Barbour et al. 2003, Holland |
| Association | Barbour et al. 2008 | Barbour et al. 2007, Barbour et al. 2003, Holland |
| Association | Barbour et al. 2008 | Barbour et al. 2007, Barbour et al. 2003, Holland |
| Association | Barbour et al. 2008 | Barbour et al. 2007, Barbour et al. 2003, Holland |
| Association | Barbour et al. 2008 | Barbour et al. 2007, Barbour et al. 2003, Holland |
| Alliance | Barbour et al. 2007 | |
| Association | Barbour et al. 2008 | Barbour et al. 2007, Barbour et al. 2003, Holland |
| Association | Barbour et al. 2005 | Barbour et al. 2007, Barbour et al. 2003, Platenkamp 1998 |
| Association | Barbour et al. 2005 | Barbour et al. 2007, Barbour et al. 2003, Platenkamp 1998 |
| Association | Barbour et al. 2005 | Barbour et al. 2007, Barbour et al. 2003, Platenkamp 1998 |
| Association | Barbour et al. 2005 | Barbour et al. 2007, Barbour et al. 2003, Platenkamp 1998 |
| Association | Barbour et al. 2005 | Barbour et al. 2007, Barbour et al. 2003, Platenkamp 1998 |
| Association | Barbour et al. 2005 | Barbour et al. 2007, Barbour et al. 2003, Platenkamp 1998 |
| Alliance | Barbour et al. 2007 | |
| Association | Barbour et al. 2007 | Klein et al. 2007, Barbour et al. 2003, 2005, |
| Association | Sawyer and Keeler-Wolf 1995 | Klein et al. 2007 |
| Association | Sawyer and Keeler-Wolf 1995 | Klein et al. 2007 |
| Association | Barbour et al. 2003 | Barbour et al. 2007, 2005, Holland 1976, Keeler-Wolf et al. 1998a, |
| Alliance | Keeler-Wolf et al. 1998a | Barbour et al. 2007, Barbour et al. 2003, 2005, Holland 1976, Sawyer and Keeler-Wolf 1995 |
| Association | Keeler-Wolf et al. 1998a | Barbour et al. 2007, Barbour et al. 2003, 2005, Holland 1976, , Sawyer and Keeler-Wolf 1995 |
| Alliance | Klein et al. 2007 | Barbour et al. 2007, Evens and Kentner 2006. |
| Association | Evens and Kentner 2006 | Barbour et al. 2007 |
| Association | Klein et al. 2007 | |
| Association | Klein et al. 2007 | |
| Association | Klein et al. 2007 | |
| Association | Klein et al. 2007 | |

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| Alliance | Potter 2005 | |
| Association | S. Smith 1998 | |
| Alliance | Christy 2004 | Anderson 2005, Boyd 1999 |
| Association | Cooper and Wolf 2006 | Kuhnlein and Turner 1991, Stevens |
| Alliance | Potter 2005 | |
| Association | S. Smith 1998 | Keeler-Wolf et al. 2003b, |
| Association | Potter 2005 | |
| Provisional Alliance | Evens and Kentner 2006 | |
| Provisional Association | Evens and Kentner 2006 | |
| Provisional Association | Evens and Kentner 2006 | |
| Association | Cooper and Wolf 2006 | Hauser 2006a |
| Association | Cooper and Wolf 2006 | Hauser 2006a |
| Provisional Alliance | Taylor 1984 | Christy 2004, Sawyer and Keeler-Wolf 2007 |
| Alliance | Mason 1957 | Major and Taylor 1977 |
| Association | Major and Taylor 1977 | Mason 1957,Manning and Padgett 1995, Ratliff 1985, |
| Association | Potter 2005 | |
| Association | Keeler-Wolf and Moore 2001 | |
| Association | Taylor 1984 | Keeler-Wolf et al. 2003b |
| Association | Nachlinger 1985 | |

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| Association | Taylor 1984 | Keeler-Wolf et al. 2003b |
| Association | Hermann 1970 | Cooper and Wolf 2006 |
| Association | Potter 2005 | |
| Alliance | Beguin and Major 1975 | Allen-Diaz 1994, Barry 1989a, 1989b,Benedict 1983, Cheatham and Haller 1975, Cooper and Wolf 2006, Cope 1992b, Halpern 1986, Hermann |
| Association | Taylor 1984 | Halpern 1986, Potter 2003 |
| Association | Benedict 1983 | Cheatham and Haller 1975, Cheng 2004 |
| Association | Beguin and Major 1975 | Shiflet 1994, Cooper and Wolf 2006, Cope 1992b, Potter 2005, S. Smith 1998 |
| Alliance | Benedict 1983 | Potter 2005, Keeler-Wolf et al. 2003b |
| Association | Manning and Padgett 1985 | S. Smith 1998 |
| Association | Benedict 1983 | Potter 2005 |
| Association | Cooper and Wolf 2006 | |
| Association | Cooper and Wolf 2006 | |
| Association | Cooper and Wolf 2006 | |
| Association | Cooper and Wolf 2006 | |
| Alliance | S. Smith 1998 | Keeler-Wolf et al. 2003b |
| Association | Keeler-Wolf et al. 2003b | |
| Association | Halpern 1986 | |
| Association | Halpern 1986 | |
| Association | S. Smith 1998. | |
| Provisional Alliance | Smith 1998 | Darris 2006 |
| Alliance | Halpern 1986 | Potter 1005, Cooper and Wolf 2006 |
| Association | Potter 2005 | |
| Association | Halpern 1986 | |
| Association | Halpern 1986 | |
| Association | Cooper and Wolf 2006 | |
| Association | Cooper and Wolf 2006 | |
| Alliance | Keeler-Wolf et al. 2003b | Potter 2005 |
| Association | Halpern 1986 | Potter 2005 |
| Association | Potter 2005 | |
| Association | Manning and Padgett 1995 | |
| Alliance | Beguin and Major 1975 | Keeler-Wolf et al. 2003b |
| Association | Beguin and Major 1975 | Cheng 2004, S. Smith 1998 |
| Association | Taylor 1984 | |
| Alliance | Evens and Kentner 2006 | Hickson and Keeler-Wolf 2007, Klein et al. 2007 |
| Association | Evens and Kentner 2006 | Hickson and Keeler-Wolf 2007, Klein et al. 2007, Stevens 1999, 2000c, 2003, |
| Alliance | Potter 2005 | Evens San and Taylor 2004 |
| Association | S. Smith 1998 | Evens et al. 2004, Klein et al. 2007, Potter 2005, |
| Provisional Alliance | Evens et al. 2004 | Alexander et al. 2006, Evens and Kentner 2006, Klein |
| Alliance | Keeler-Wolf and Vaghti 2000 | |
| Association | Evens and San 2004 | USFWS 2007 |
| Association | Evens and San 2004 | USFWS 2007 |
| Association | Evens and San 2004 | UWFWS 2007 |
| Alliance | Keeler-Wolf and Vaghti 2000 | Evens and San 2005, Evens et al. 2006, Manning and Padgett 1995 |
| Association | Keeler-Wolf and Vaghti 2000 | |
| Association | Taylor 1984 | |
| Association | Keeler-Wolf and Vaghti 2000 | |
| Association | Klein et al. 2007 | |
| Association | Keeler-Wolf and Vaghti 2000 | |
| Association | Keeler-Wolf and Vaghti 2000 | |
| Association | Keeler-Wolf and Moore 2001 | Evens and San 2005 |
| Provisional Alliance | Evens and San 2004 | Klein et al. 2007 |
| Alliance | Keeler-Wolf and Vaghti 2000 | Evens and San 2004 |
| Association | Keeler-Wolf and Vaghti 2000 | Holstein 2001, Keeler-Wolf and Evens 2006, NatureServe 2007a, Solomeshch |
| Association | Stillwater Sciences and URS 2007 | |
| Association | Junak et al. 2007 | |
| Association | O'Neil and Egan 2004 | |
| Association | Heady 1977 | Evens and San 2004 |
| Association | Odion et al. 1992a | |
| Alliance | Klein et al. 2007 | NatureServe 2007a, S. Smith 1998 |
| Association | Cooper and Wolf 2006 | |
| Association | NatureServe 2007a | |
| Association | Klein et al. 2007 | |
| Association | S. Smith 1998 | Potter 2005 |
| Association | Keeler-Wolf et al. 2003b | |
| Alliance | Klein and Evens 2005 | NatureServe 2007a, Klein et al. 2007, Anderson 1996, 2003, 2005 |
| Association | Martin 1981 | Klein et al. 2007, NatureServe 2007b |
| Semi-natural Stands | Keeler-Wolf and Evens 2006 | Evens et al. 2005, DiTomaso and Healy 2003 |
| Semi-natural Stands | Howald 2000 | Evens and San 2005, Keeler-Wolf and Evens 2006, Keeler-Wolf and Vaghti 2000, Klein and Evens2006, Renz 2000, Zouhar 2004 |
| Semi-natural Stands | Keeler-Wolf and Vaghti 2000 | |

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| Provisional Alliance | Kieeler-Wolf and Vaghti 2000 | DiTomaso and Healy 2007 |
| Alliance | Keeler-Wolf and Vaghti 2000 | Keeler-Wolf and Evens 2006 |
| Association | Junak et al. 2007 | |
| Association | Keeler-Wolf and Evens 2006 | |
| Association | Keeler-Wolf and Vaghti 2000 | |
| Association | Junak et al. 2007 | |
| Association | Keeler-Wolf and Vaghti 2000 | |
| Association | MacDonald 1977 | Levine et al. 2002, Keeler-Wolf et al. 2005 |
| Association | Junak et al. 2007 | |
| Association | Peinado et al. 1994 | |
| Association | Odion et al. 1992 | Paysen et al. 1980, 1982 |
| Association | Bradley 1970 | Cheatham and Haller 1975, Chapman 1977 |
| Association | Junak et al. 2007 | |
| Association | Pickart 2006 | |
| Association | Atwater et al. 1979 | Barry 1989a, b, Hickson and Keeler- |
| Association | Bradley 1970 | Cheatham and Haller 1975, Chapman 1977 |
| Association | Keeler-Wolf and Vaghti 2000 | Hickson and Keeler-Wolf 2007, Junak et al. 2007 |
| Association | Paysen et al. 1980 | Paysen et al. 1980, 1982, Odion et al. 1992 |
| Association | Ferren and Davis 1991 | |
| Alliance | Keeler-Wolf and Vaghti 2000 | |
| Association | Pickart 2006 | |
| Association | Keeler-Wolf and Vaghti 2000 | |
| Association | Keeler-Wolf and Vaghti 2000 | |
| Alliance | Atwater et al. 1979 | Evens and San 2005, Keeler-Wolf and Evens 2006, Hickson and Keeler-Wolf 2007 |
| Association | Duke et al. 1999 | |
| Association | Atwater et al. 1979 | Barnhart et al.1992, Cuneo 1987, Duke et al. 1999, Peinado et al. 1994, Pickart 2006, Purer 1942, |
| Association | Henderson 1976 | Grewell et al. 2007 |
| Association | Duke et al. 1999 | Keeler-Wolf and Vaghti 2000, MacDonald 1977, MacDonald and Barbour 1974 |
| Association | Duke et al. 1999 | |
| Association | Keeler-Wolf and Evens 2006 | |
| Association | MacDonald and Barbour 1974 | Hickson and Keeler-Wolf 2007, Keeler-Wolf and Vaghti 2000, Josselyn 1983, MacDonald 1977, |
| Association | MacDonald and Barbour 1974 | Keeler-Wolf and Vaghti 2000, MacDonald 1977 |
| Association | Hendrickson 1976 | Grewell et al. 2007 |
| Association | Eicher 1987 | Newton 1989, Paysen et al. 1980, Atwater et al. 1979, Barnhart et al. 1992, Chapman 1977, Duke et al. 1999, Duke et al. 1999, Grewell et al. |
| Association | MacDonald and Barbour 1974 | Keeler-Wolf and Vaghti 2000, MacDonald 1977 |
| Association | Duke et al. 1999 | |
| Association | Keeler-Wolf and Evens 2006 | |
| Association | Chapman 1977 | Atwater et al. 1979, Barnhart et al. 1992, Cuneo 1987, Duke et al. 1999 |
| Association | Hendrickson 1976 | Atwater et al. 1979, Barnhart et al. 1992, Cuneo 1987, Grewell et al. 2007, Chapman 1977 |
| Association | Paysen et al. 1980 | Eicher 1987, Newton 1989 |
| Association | MacDonald and Barbour 1974 | Keeler-Wolf and Vaghti 2000, MacDonald 1977 |
| Association | Duke et al. 1999 | |
| Association | Keeler-Wolf and Evens 2006 | |
| Association | MacDonald and Barbour 1974 | Keeler-Wolf and Vaghti 2000, MacDonald 1977 |
| Alliance | Keeler-Wolf and Vaghti 2000 | |
| Association | Atwater et al. 1979 | Barry 1989a, b, Cheatham and Haller 1975, Chapman 1977, Peinado et al. 1994, Purer 1942, Shiflet 1994, |
| Association | Hendrickson 1976 | Grewell et al.2007 |
| Semi-natural Stands | Pickart 2006 | DiTomaso and Healy 2007 |
| Stand Type | Eicher 1987 | Eicher 1987, Eicher and Sawyer 1989, Faber 2000, Grewell et al. 2007, MacDonald 1977, Pickart 2006, Spicher and Josselyn 1985. |
| Alliance | Keeler-Wolf and Vaghti 2000 | Baye et al. 2000 |
| Association | Keeler-Wolf and Vaghti 2000 | |
| Association | Keeler-Wolf and Vaghti 2000 | |
| Association | Keeler-Wolf and Vaghti 2000 | |
| Association | Keeler-Wolf and Vaghti 2000 | |
| Semi-natural Stands | Keeler-Wolf and Vaghti 2000, HBNWR | Pickart 2006 |
| Semi-natural Stands | Keeler-Wolf and Vaghti 2000 | Khan and Ungar 1986 |
| Semi-natural Stands | Keeler-Wolf and Vaghti 2000 | Khan and Ungar 1986 |
| Semi-natural Stands | Keeler-Wolf and Vaghti 2000 | Khan and Ungar 1986 |
| Semi-natural Stands | Keeler-Wolf and Vaghti 2000 | Khan and Ungar 1986 |
| Semi-natural Stands | Keeler-Wolf and Vaghti 2000 | Khan and Ungar 1986 |
| Semi-natural Stands | Keeler-Wolf and Vaghti 2000 | Khan and Ungar 1986, Pickart 2006 |
| | | |
| Alliance | Thomas et al. 2004 | |
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| Association | Thomas et al. 2004 | Thorne 1982, Tueller 1994, Vasek and Barbour 1977, |
| Association | Ferren and Davis 1991 | MacMahon 1988, Paysen et al. 1980, 2000 |

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| Alliance | Klein and Evens 2006 | |
| Association | Anderson and Roderick 2000 | Evens and San 2005, Klein and Evens 2005 |
| Alliance | Thomas et al. 2004 | |
| Association | Keeler-Wolf and Thomas 2000 | Thomas et al. 2004 |
| Alliance | Keeler-Wolf and Thomas 2000 | |
| Association | Bradley 1970 | |
| Association | Odion et al. 1992 | |
| Association | Keeler-Wolf and Vaghti 2001 | |
| Association | Keeler-Wolf and Vaghti 2001 | |
| Association | Keeler-Wolf and Vaghti 2000 | |
| Alliance | Odion et al 1992 | |
| Association | Odion et al. 1992a | |
| Alliance | Thomas et al. 2004 | Brown 1982f, Barry 1989a, b, Bittman 1985, Keeler- Wolf anf Thomas 2000, Klein and Evens 2006 |
| Association | Keeler-Wolf and Thomas 2000 | Solomeshch and Barbour 2006, Thorne 1982, Werschskull et al. 1984 |
| Association | Odion et al. 1992a | Paysen et al. 1980, 1982 |
| Association | Griggs 1980a | Griggs 1980b, Ferren and Davis 1991 |
| Alliance | Thomas et al. 2004 | |
| Association | Keeler-Wolf et al 1998b | Thomas et al. 2004, Evens and Hartman 2007, Griggs 1980b, MacMahon |
| Association | Paysen et al. 1980 | Odion et al.1992a, Paysen et al. 1982 |
| Association | Bradley 1970 | Brown et al. 1980, Burk 1977, Cheatham and Haller 1975 |
| Alliance | Adams 1990 | Keeler-Wolf and Evens 2006 |
| Association | Evens and San 2005 | Keeler-Wolf and Evens 2006, Peinado |
| Association | Grewell et al. 2007 | |
| Association | Evens and San 2005 | Keeler-Wolf and Evens 2006 |
| Alliance | Keeler-Wolf et al. 1998b | Keeler-Wolfand Evens 2006, Favorite 2005a |
| Association | Keeler-Wolf and Vaghti 2000 | Keeler-Wolf and Evens 2006, Keeler-Wolf et al. 1998b, Meyer 2005a, Pearcy and |
| Alliance | Thomas et al. 2004 | Bittman 1985, Burk 1977 |
| Association | Charlton 2000a | Charlton 2000b |
| Association | Evens and Hartman 2007 | Griggs and Zaninovitch 1984, Johnson 1976, Keeler-Wolf 2007, MacMahon 1988, MacMahon and Wagner |
| Association | Evens et al. 2006 | |
| Alliance | Holland 1976 | Barbour et al. 2003, 2007, Keeler-Wolf et al. 1998, Sawyer and Keeler-Wolf 1995, USFWS 2004 |
| Provisional Association | Barbour et al. 2007 | |
| Provisional Association | Barbour et al. 2007 | |
| Provisional Association | Barbour et al. 2008 | |
| Provisional Association | Barbour et al. 2007 | |
| Association | Barbour et al. 2008 | Barbour et al. 2007, Barbour et al. 2003, Holland |
| Alliance | Keeler-Wolf and Vaghti 2000 | Keeler-Wolf and Evens 3006 |
| Association | Keeler-Wolf and Vaghti 2000 | |
| Association | Keeler-Wolf and Evens 2006 | |
| Association | Keeler-Wolf and Vaghti 2000 | |
| Association | Keeler-Wolf and Vaghti 2000 | |
| Association | Junak et al. 2007 | |
| Alliance | Keeler-Wolf et al. 1998b | Barry 1989a, 1989b |
| Association | Evens and Hartman 2007 | Faden 1977 |
| Association | | |
| Association | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Paysen et al. 1980, 1982, Thomas et al. 2004, Thorne 1976, Vasek and |
| Alliance | Cheatham and Haller 1975 | Barry 1989a, 1989b, Bowers 1984, Burk 1977 |
| Association | Evens and Hartman 2007 | Felger 1980, Hunt 1966, Jones and Stokes Associates 1993 |
| Association | Keeler-Wolf et al. 1998b | |
| Association | Keeler-Wolf and Thomas 2000 | MacMahon 1988, and many more; see MCVII. |
| Association | Keeler-Wolf et al.1998b | Keeler-Wolf and Thomas 2000, MacMahon 1988, Marshall |
| Association | Evens and Hartman 2007 | Felger 1980, Hunt 1966, Jones and Stokes Associates 1993 |
| Association | Evens and Hartman 2007 | Felger 1980, Hunt 1966, Jones and Stokes Associates |
| Association | Keeler-Wolf et al. 1998b | Keeler-Wolf and Thomas 2000, MacMahon 1988, Marshall 1994, McAuliffe 1988, Paysen et al. 1980, 1982, Reidet al. 1999, Shiflet 1994, Thorne |
| Alliance | Keeler-Wolf et al. 1998b | Evens 2000, Thomas et al. 2004, Evens and Hartman 2007 |
| Association | Keeler-Wolf et al. 1998b | Evens 2000, Hart et al. 1979, Johnson 1976, Keeler-Wolf 2007, Keeler-Wolf et al. 1998b, Keeler-Wolf et al. 2005, Keeler-Wolf and |
| Association | Keeler-Wolf and Thomas 2000 | McHargue 1973, O'Leary and Minnich 1981, Strother and Baldwin 2002, Thomas et al. 2004, |
| Association | Keeler-Wolf and Thomas 2000 | McHargue 1973, O'Leary and Minnich 1981, Strother and Baldwin 2002, Thomas et al. 2004, |

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| Association | | Keeler-Wolf and Thomas 2000 | McHargue 1973, O'Leary and Minnich 1981, Strother and Baldwin 2002, Thomas et al. 2004, |
| Association | | Keeler-Wolf and Thomas 2000 | McHargue 1973, O'Leary and Minnich 1981, Strother and Baldwin 2002, Thomas et al. 2004, |
| Association | | Keeler-Wolf et al. 1998b | Keeler-Wolf and Thomas 2000, McHargue 1973, O'Leary and Minnich |
| Association | | Keeler-Wolf and Thomas 2000 | McHargue 1973, O'Leary and Minnich 1981, Strother and Baldwin 2002, Thomas et al. 2004, |
| Association | | Evens and Hartman 2007 | |
| Association | | Keeler-Wolf and Thomas 2000 | McHargue 1973, O'Leary and Minnich 1981, Strother and Baldwin 2002, Thomas et al. 2004, |
| Association | | Keeler-Wolf and Thomas 2000 | McHargue 1973, O'Leary and Minnich 1981, Strother and Baldwin 2002, Thomas et al. 2004, |
| Alliance | | Cheatham and Haller 1975 | Barry 1989a,1989b, Bittman 1985, Brown et al. 1980, |
| | | | |
| Association | | Peterson 1984a | Peterson 1984b, Keeler-Wolf 2007, Keeler-Wolf |
| Association | | Yoder et al. 1983 | |
| Association | | Griggs and Zaninovitch 1984 | Evens and Hartman 2007, Griggs 1980b, , Johnson 1976 |
| Alliance | | Burk 1977 | Barbour 1994, Barry 1989a, b, Brown and Minnich |
| Association | Coastal sage scrub | Klein and Evens 2005 | MacMahon 1988 |
| Association | Warm desert | Vasek and Barbour 1977 | Evens and Hartman 2007, Hunt 1966, Keeler-Wolf and Thomas 2000, Minnich et al. 1993, Pase |
| Association | | Evens and Hartman 2007 | Hunt 1977 |
| Association | | Evens and Hartman 2007 | Hunt 1977 |
| Association | | Evens and Hartman 2007 | Hunt 1977 |
| Association | | Klein and Evens 2005 | MacMahon 1988 |
| Association | | Keeler-Wolf et al. 1998b | |
| Association | | Kirkpatrick and Hutchinson 1977 | |
| Association | | Keeler-Wolf et al. 1998b | Evens and Hartman 2007, Hunt 1966 |
| Alliance | | Sawyer and Keeler-Wolf 1995 | |
| Association | | Spolsky 1979 | Keeler-Wolf et al. 2005 |
| Association | | Keeler-Wolf and Thomas 2000 | Mac Mahon 1988, Marshall 1995b, Peterson 1984a, 1984b, Phillips and Mac Mahon 1981, Randall 1972, |
| Association | | Keeler-Wolf and Thomas 2000 | Annable 1985, Brown and Minnich 1986, Burk 1997, Davidson and Fox 1974, Keeler-Wolf et al. 2005, [4] Keeler-Wolf |
| Association | | Keeler-Wolf and Thomas 2000 | Evens and Hartman 2007, Holtzman 1994, Hunt 1966, Keeler-Wolf et al. 1998b, Keeler-Wolf et al. 2005, Mac Mahon 1988, Marshall 1995b |
| Association | | Keeler-Wolf and Thomas 2000 | Mac Mahon 1988, Marshall 1995b, Mc Hargue 1973 |
| Association | | Keeler-Wolf et al. 1998b | Keeler-Wolf et al. 2005 |
| Association | | Keeler-Wolf and Thomas 2000 | Mac Mahon 1988, Marshall 1995b, Evens and Hartman 2007, Holtzman 1994, Hunt 1966 Mc Hargue 1973 |
| Association | | Keeler-Wolf and Thomas 2000 | Mac Mahon 1988, Marshall 1995b, Mc Hargue 1973 |
| Association | | Evens and Hartman 2007□ | Holtzman 1994, Hunt 1966 |
| Association | | Keeler-Wolf and Thomas 2000 | Evens and Hartman 2007, Holtzman 1994, Hunt 1966 |
| Association | | Keeler-Wolf et al. 1998b | Keeler-Wolf et al. 2005 |
| Association | | Keeler-Wolf et al. 1998b, Keeler-Wolf et al. 2005, | Keeler-Wolf and Thomas 2000, Keeler-Wolf et al. 2005 |
| Alliance | | Keeler-Wolf et al. 1998b | |
| | | | |
| Association | | Peterson 1984a | Annable 1985, Brooks and Minnich 2006, Burk 1977, Evens and Hartman 2007, Holzman 1994, |
| Association | | Keeler-Wolf et al. 1998b | |
| Association | | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Marshall 1994,1995b, McAuliffe 1988 |
| Association | | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Marshall 1994, 1995b, McAuliffe 1988 |
| Association | | Keeler-Wolf and Thomas 2000 | MacMahon 1988, MacMahon and Wagner 1985, McHargue 1973, Paysen et al. 1980 |
| Association | | Keeler-Wolf□ | MacMahon 1988, Marshall 1994, Turner and Brown 1982, Vasek and Barbour 1977 |
| Association | | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Marshall 1994, 1995b, McAuliffe 1988 |
| Association | | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Marshall 1994, 1995b, McAuliffe 1988 |
| Provisional Association | | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Marshall 1994, 1995b, McAuliffe 1988 |
| Association | | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Marshall 1994, 1995b, McAuliffe 1988 |
| Association | | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Marshall 1994, 1995b, McAuliffe 1988 |
| Association | | Keeler-Wolf and Thomas 2000 | Keeler-Wolf et al. 2005, MacMahon 1988, Marshall 1994, 1995b, McAuliffe 1988 |
| Association | | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Marshall 1994, 1995b, McAuliffe 1988 |
| Association | | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Marshall 1994, 1995b, McAuliffe 1988 |
| Association | | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Marshall 1994, 1995b, McAuliffe 1988 |
| Association | | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Marshall 1994, 1995b, McAuliffe 1988 |
| Provisional Association | | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Marshall 1994, 1995b, McAuliffe 1988 |
| Association | | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Marshall 1994, 1995b, McAuliffe 1988 |
| Association | | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Marshall 1994, 1995b, McAuliffe 1988 |
| Association | | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Marshall 1994, 1995b, McAuliffe 1988 |
| Association | | Evens and Hartman 2007 | |
| Association | | Keeler-Wolf et al. 1998b | |
| Association | | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Marshall 1994, 1995b, McAuliffe 1988 |
| Association | | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Marshall 1994, 1995b, McAuliffe 1988 |
| Association | | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Marshall 1994, 1995b, McAuliffe 1988 |
| Association | | Keeler-Wolf and Thomas 2000 | Keeler-Wolf et al. 2005, MacMahon 1988, Marshall 1994, 1995b, McAuliffe 1988 |
| Association | | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Marshall 1994, 1995b, McAuliffe 1988 |
| Association | | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Marshall 1994, 1995b, McAuliffe 1988 |
| Association | | Evens and Hartman 2007 | |
| Provisional Association | | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Marshall 1994, 1995b, McAuliffe 1988 |

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| Association | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Marshall 1994, 1995b, McAuliffe 1988 |
| Association | Keeler-Wolf and Thomas 2000 | Keeler-Wolf et al. 2005, Evens and Hartman 2007, Holzman 1994, Hunt 1966, Keeler-Wolf 2007b, MacMahon 1988, Marshall 1994, |
| Association | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Marshall 1994, 1995b, McAuliffe 1988 |
| Association | Keeler-Wolf et al. 1998b | Evens and Hartman 2007, Holzman 1994, Hunt 1966, Keeler-Wolf 2007b |
| Association | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Marshall 1994, 1995b, McAuliffe 1988 |
| Association | Keeler-Wolf et al. 1998b | Keeler-Wolf et al. 2005 |
| Association | Evens and Hartman 2007 | Holzman 1994, Hunt 1966, Keeler-Wolf 2007b |
| Association | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Marshall 1994, 1995b, McAuliffe 1988 |
| Association | Keeler-Wolf and Thomas 2000 | Evens and Hartman 2007, Holzman 1994, Hunt 1966, Keeler-Wolf 2007b, Keeler-Wolf et al. 2005 |
| Association | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Marshall 1994, 1995b, McAuliffe 1988 |
| Association | Keeler-Wolf and Thomas 2000 | Evens and Hartman 2007, Holzman 1994, Hunt 1966, Keeler-Wolf 2007b, Keeler-Wolf et al. 2005 |
| Association | Keeler-Wolf and Thomas 2000 | Evens and Hartman 2007, Holzman 1994, Hunt 1966, Keeler-Wolf 2007b |
| Association | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Marshall 1994, 1995b, McAuliffe 1988 |
| Alliance | Keeler-Wolf and Thomas 2000 | Keeler-Wolf et al. 1998b, Thomas et al. 2004, Keeler-Wolf et al. 2005 |
| Association | Keeler-Wolf and Thomas 2000 | Keeler-Wolf et al. 2005, Evens and Hartman 2007, Hunt 1966 |
| Association | Keeler-Wolf and Thomas 2000 | Evens and Hartman 2007, Hunt 1966, Keeler-Wolf et al. 2005, MacMahon 1988, Marshall 1995b, |
| Association | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Marshall 1995b, Pase and Brown 1982, Paysen et al. 1980, Reid et al. |
| Association | Keeler-Wolf et al. 2005 | |
| Provisional Association | Keeler-Wolf et al. 1998b | Keeler-Wolf and Thomas 2000, MacMahon 1988, Marshall 1995b, |
| Provisional Association | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Marshall 1995b, |
| | | |
| Alliance | Burk 1977 | Evens and Hartman 2007, Keeler-Wolf et al. 1998b, Keeler- |
| Association | Keeler-Wolf et al. 2005 | Evens and Hartman 2007, Keeler-Wolf et al. 1998b, Keeler- |
| Alliance | Keeler-Wolf et al. 1998b | Cheatham and Haller 1975, Barry 1989a, b, Brown 1982f, Burk 1977 |
| Association | Keeler-Wolf and Thomas 2000 | Matthews 2000 |
| Association | Keeler-Wolf and Thomas 2000 | Matthews 2000 |
| Association | Keeler-Wolf and Thomas 2000 | Matthews 2000 |
| Association | Keeler-Wolf and Thomas 2000 | Matthews 2000 |
| Association | Keeler-Wolf et al. 2005 | Keeler-Wolf and Thomas 2000, Matthews 2000 |
| Association | Evens and Hartman 2007 | |
| Association | Keeler-Wolf and Thomas 2000 | Matthews 2000 |
| Association | Thorne 1976 | Minnich et al. 1993, Paysen et al. 1980, 1982, Reid et al. 1999, Vasek and Barbour 1977 |
| Provisional Alliance | Thomas et al. 2004 | |
| Alliance | Pavek 1993a | Brown 1994, De Groot 2007, Pavek 1994b |
| | | |
| Alliance | Keeler-Wolf et al. 1998b | |
| Association | Keeler-Wolf et al. 1998b | Evens and San 2005, Reed 1993b, Tratz 1978, Tratz and Vogl 1977 |
| Provisional Alliance | Gentry 1958 | |
| Provisional Association | Gentry 1958 | |
| Provisional Alliance | Keeler-Wolf et al. 2005 | |
| Alliance | Keeler-Wolf et al. 1998b | Evens and San 2005 |
| Association | Keeler-Wolf and Thomas 2000 | Thomas et al. 2004 |
| Association | Keeler-Wolf et al. 1998b | Evens and San 2005 |
| Association | Keeler-Wolf and Thomas 2000 | Thomas et al. 2004 |
| Association | Keeler-Wolf et al. 1998b | Evens and San 2005, Keeler-Wolf and Thomas 2000 |
| Association | Keeler-Wolf and Thomas 2000 | Thomas et al. 2004 |
| Special Stands | Keeler-Wolf et al. 2005 | Nellessen 2002 |
| Alliance | Keeler-Wolf and Thomas 2000 | Keeler-Wolf et al. 2007 |
| Provisional Association | Keeler-Wolf and Thomas 2000 | Thomas et al. 2004 |
| Provisional Association | Keeler-Wolf and Thomas 2000 | Thomas et al. 2004 |
| Alliance | Keeler-Wolf and Thomas 2000 | |
| Association | Keeler-Wolf and Thomas 2000 | Keeler-Wolf et. Al. 2005 |
| Provisional Association | Keeler-Wolf and Thomas 2000 | Tesky 1994, Thomas et al. 2004 |
| Provisional Association | Keeler-Wolf and Thomas 2000 | Tesky 1994, Thomas et al. 2004 |
| Alliance | Thomas et al. 2004 | |
| | | |
| Association | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Paysen et al. 1980, Reid et al. 1999, Simonin 2000, Thomas et al. 2004, |
| Association | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Paysen et al. 1980, Reid et al. 1999, Simonin 2000, Thomas et al. 2004, |
| Association | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Paysen et al. 1980, Reid et al. 1999, Simonin 2000, Thomas et al. 2004, |
| Association | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Paysen et al. 1980, Reid et al. 1999, Simonin 2000, Thomas et al. 2004, |
| Association | Keeler-Wolf and Thomas 2000 | Keeler-Wolf et al. 2005, MacMahon 1988, Paysen et al. 1980, |
| Association | Keeler-Wolf and Thomas 2000 | Keeler-Wolf et al. 2005, MacMahon 1988, Paysen et al. 1980, |
| Association | Keeler-Wolf and Thomas 2000 | Keeler-Wolf et al. 2005, MacMahon 1988, Paysen et al. 1980, Reid et al. 1999, Simonin 2000, Thomas et al. 2004, Thorne 1982, Turner 1982a, |
| Association | Keeler-Wolf et al. 2005 | MacMahon 1988, Paysen et al. 1980, Reid et al. 1999, Simonin 2000, Thomas et al. 2004, |
| Association | Keeler-Wolf et al. 2005 | |
| Association | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Paysen et al. 1980, Reid et al. 1999, Simonin 2000, Thomas et al. 2004, |
| Association | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Paysen et al. 1980, Reid et al. 1999, Simonin 2000, Thomas et al. 2004, |
| Association | Keeler-Wolf et al. 2005 | |
| Association | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Paysen et al. 1980, Reid et al. 1999, Simonin 2000, Thomas et al. 2004, |
| Association | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Paysen et al. 1980, Reid et al. 1999, Simonin 2000, Thomas et al. 2004, |

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| Association | Keeler-Wolf et al. 2005 | |
| Association | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Paysen et al. 1980, Reid et al. 1999, Simonin 2000, Thomas et al. 2004, |
| Association | Keeler-Wolf et al. 2005 | |
| Association | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Paysen et al. 1980, Reid et al. 1999, Simonin 2000, Thomas et al. 2004, |
| Alliance | Thomas et al. 2004 | |
| | | |
| Association | cf. Keeler-Wolf et al. 1998b | Keeler-Wolf and Thomas 2000, Keeler-Wolf et al. 1998b, Minnich et al. 1993, Reid et al. |
| Association | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Minnich et al. 1993, Reid et al. 1999, Thorne 1982, Tirmenstein 1990b |
| Association | Keeler-Wolf and Thomas 2000 | cf. Keeler-Wolf et al. 1998b, Keeler-Wolf et al. 2005, MacMahon 1988, Minnich et al. 1993, Reid et al. |
| Association | Keeler-Wolf and Thomas 2000 | cf. Keeler-Wolf et al. 1998b, Keeler-Wolf et al. 2005, MacMahon 1988, Minnich et al. 1993, Reid et al 1999, Thorne 1982, Tirmenstein 1990b |
| Association | cf. Keeler-Wolf et al. 1998b | Keeler-Wolf and Thomas 2000, MacMahon 1988, Minnich et al. 1993, Reid et al. 1999, Thorne 1982, Tirmenstein 1990b |
| Association | Keeler-Wolf and Thomas 2000 | cf. Keeler-Wolf et al. 1998b, MacMahon 1988, Minnich et al. 1993, Reid et al. |
| Association | cf. Keeler-Wolf et al. 1998b | |
| Association | Keeler-Wolf and Thomas 2000 | cf. Keeler-Wolf et al. 1998b, Keeler-Wolf et al. 2005, MacMahon 1988, Minnich et al. 1993, Reid et al 1999, Thorne 1982, Tirmenstein 1990b |
| Association | Keeler-Wolf et al. 1998b | Keeler-Wolf et al. 2005, Keeler-Wolf and Thomas 2000, MacMahon 1988, Minnich et al. 1993, Reid et al 1999, Thorne 1982, Tirmenstein 1990b |
| Association | Keeler-Wolf et al. 2005 | |
| Association | Keeler-Wolf and Thomas 2000 | cf. Keeler-Wolf et al. 1998b, Keeler-Wolf et al. 2005, MacMahon 1988, Minnich et al. 1993, Reid et al 1999, Thorne 1982, Tirmenstein 1990b |
| Association | Keeler-Wolf et al. 1998b | Keeler-Wolf et al. 2005, Keeler-Wolf and Thomas 2000, MacMahon 1988, Minnich et al. 1993, Reid et al. |
| Alliance | Keeler-Wolf and Evens 2006 | Johnson and Rodriguez 2001, Junak et al. 2007 |
| Association | Keeler-Wolf and Evens 2006 | Keeler-Wolf and Evens 2006 |
| Association | Keeler-Wolf and Evens 2006 | Keeler-Wolf and Evens 2006 |
| Provisional Alliance | Dunkle 1950 | Corry 2006, Johnson and Rodriguez 2001, Junak et al. 2007 |
| Alliance | Benson and Walkington 1965 | Keeler-Wolf and Evens 2006 |
| | | |
| Association | Evens and San 2005 | Johnson 2000b, Jones and Stokes Associates 1993, Junak et al. 2007 |
| Association | Evens and San 2005 | Johnson 2000b, Jones and Stokes Associates 1993, Junak et al. 2007, Keeler-Wolf and Evens 2006, Keeley and Keeley 1988, Magney |
| Special Stands | Burk 1977 | Keeler-Wolf et al. 1998b, MacMahon 1988, Schoenherr and Burk 2007, Thorne 1982, Turner et al. 1995 |

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| Alliance | Cheatham and Haller 1975 | |
| Association | Keeler-Wolf and Thomas 2000 | Evens 2000 |
| Association | Keeler-Wolf and Thomas 2000 | Evens 2000 |
| Association | Keeler-Wolf et al. 1998b | Evens and San 2005, Johnson 1976, Keeler-Wolf 2007 |
| Association | Keeler-Wolf et al. 2005 | Evens and Hartman 2007 |
| Association | Thorne 1976 | Evens 2000, Keeler-Wolf and Thomas 2000, |
| Association | Keeler-Wolf et al. 1998b | |
| Association | Keeler-Wolf and Thomas 2000 | Keeler-Wolf et al. 2005 |
| Association | Keeler-Wolf and Thomas 2000 | Keeler-Wolf et al. 2005 |
| Association | Keeler-Wolf and Thomas 2000 | Evens 2000, MacMahon 1988, Paysen et al. 1980, 1982, Reid et al. 1999, Thorne 1976, 1982, Turner and Brown 1982, |
| Association | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Paysen et al. 1980, 1982, Reid et al. |
| Association | Wirka and Barbour 1997 | |
| Association | Keeler-Wolf et al. 1998b | |
| Alliance | Keeler-Wolf and Thomas 2000 | Evens 2000 |
| | | |
| Association | Keeler-Wolf et al. 2005 | Evens and Hartman 2007 |
| Association | Keeler-Wolf and Thomas 2000 | Evens 2000, McHargue 1973, Thomas et al. |
| Association | Evens et al. 2006 | |
| Association | Evens et al. 2006 | |
| Alliance | Keeler-Wolf and Thomas 2000 | Keeler-Wolf et. Al. 2005 |
| Association | Evens 2000 | Johnson 1976, Keeler-Wolf and Thomas 2000, Vasek and Barbour 1977 |
| Association | Vasek and Barbour 1977 | Keeler-Wolf and Thomas 2000 |
| Association | Vasek and Barbour 1977 | Keeler-Wolf and Thomas 2000 |
| Alliance | Keeler-Wolf and Thomas 2000 | Keeler-Wolf et. Al. 2005 |
| Association | Young et al. 1977 | Taylor 1980, West 1988. |
| Alliance | Barbour and Wirka 1997 | Keeler-Wolf et al. 1998b, Barry 1989a, 1989b |
| Association | cf. Evens et al. 2006 | |
| Association | Klein and Evens 2005 | Magney 1992, Smith 1980, 1996, Wells and Woods 1996 |
| Association | Klein and Evens 2005 | Magney 1992, Smith 1980, 1996, Wells and Woods 1996 |
| Association | Kirkpatrick and Hutchinson 1977 | Barbour and Wirka 1997, Barry 1989a, 1989b |
| Association | Barbour and Wirka 1997 | Barry 1989a, 1989b |
| Association | Barbour and Wirka 1997 | Barry 1989a, 1989, Gordon and White 1994, Klein and Evens 2005, Magney 1992, Smith |
| Association | Klein and Evens 2005 | Magney 1992, Smith 1980, 1996, Wells and Woods 1996. |
| Association | Barbour and Wirka 1997 | Barry 1989a, 1989b |
| Alliance | Keeler-Wolf and Thomas 2000 | |
| Association | Keeler-Wolf et al. 2005 | Keeler-Wolf and Thomas 2000 |
| Association | Keeler-Wolf and Thomas 2000 | Evens 2000, Keeler-Wolf 2007b, Thomas et al. 2004 |
| Association | Evens 2000 | Keeler-Wolf and Thomas 2000, Keeler-Wolf 2007b |
| Association | Evens 2000 | Keeler-Wolf and Thomas 2000, Keeler-Wolf 2007b |

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| Association | Keeler-Wolf and Thomas 2000 | Evens 2000, Keeler-Wolf 2007b, Thomas et al. 2004 |
| Association | Keeler-Wolf and Thomas 2000 | Evens 2000, Keeler-Wolf 2007b, Thomas et al. 2004 |
| Alliance | Keeler-Wolf and Thomas 2000 | |
| Association | Keeler-Wolf and Thomas 2000 | Reid et al. 1999, Peterson 1984a, 1984b, Thomas et al. 2004 |
| Alliance | Keeler-Wolf et al. 1998b | Gentry 1982 |
| Association | Keeler-Wolf et al. 1998b | Turner et al. 1995, Uchytil 1990b. |
| Association | Keeler-Wolf et al. 1998b | Turner et al. 1995, Uchytil 1990b. |
| Special Stands | Shreve and Wiggins 1964 | Turner et al. 1995 |
| Alliance | Evens 2000 | Thomas et al. 2004 |
| Association | Spolsky 1979 | Johnson 1976, Keeler-Wolf et al. 2005, Thorne 1982, Turner and Brown 1982, Uchytil |
| Association | Keeler-Wolf and Thomas 2000 | Evens 2000, Johnson 1976 |
| Association | Keeler-Wolf et al. 1998b | |
| Association | Keeler-Wolf and Thomas 2000 | Evens 2000, Johnson 1976 |
| Association | Keeler-Wolf and Thomas 2000 | Evens 2000, Johnson 1976 |
| Association | Keeler-Wolf and Thomas 2000 | Evens 2000, Johnson 1976 |
| Association | Keeler-Wolf and Thomas 2000 | Evens 2000, Johnson 1976 |
| Association | Keeler-Wolf and Thomas 2000 | Evens 2000, Johnson 1976 |
| Alliance | Keeler-Wolf et al. 1998b | |
| Association | Keeler-Wolf et al. 2005 | Thomas et al. 2004 |
| Association | Keeler-Wolf et al. 1998b | |
| Provisional Alliance | Keeler-Wolf et al. 2005 | |
| Special Stands | Turner et al. 1995 | Schoenherr and Burk 2007 |
| | | |
| Alliance | Keeler-Wolf et al. 1998b | Evens and Hartman 2007, Barry 1989a, 1989b, Becker 2008, Brown et al. 1980, |
| Association | Spolsky 1979 | Evens and Hartman 2007, Humberto et al.1999, Thorne 1982, Turner and Brown 1982 |
| Association | Evens and Hartman 2007 | Humberto et al. 1999 |
| Association | Keeler-Wolf et al. 2005 | Evens and Hartman 2007 |
| Association | Evens and Hartman 2007 | |
| Association | Evens and Hartman 2007 | |
| Association | Keeler-Wolf et al. 2005 | |
| Association | Keeler-Wolf et al. 2005 | Evens and Hartman 2007 |
| Association | Evens and Hartman 2007 | |
| Association | Keeler-Wolf et al. 2005 | |
| Association | Evens and Hartman 2007 | |
| Association | Keeler-Wolf et al. 2005 | |
| Association | Spolsky 1979 | |
| Alliance | Barry 1989a | Barry 1989b, Keeler-Wolf 2007b |
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| Provisional Association | Keeler-Wolf and Thomas 2000 | Paysen et al. 1980, 1982, Schoenherr and Burk 2007, Stillwater Sciences and URS 2007, Thorne 1976 |
| Provisional Association | Keeler-Wolf and Thomas 2000 | Paysen et al. 1980, 1982, Schoenherr and Burk 2007, Stillwater Sciences and URS 2007, Thorne 1976 |
| Provisional Association | Keeler-Wolf and Thomas 2000 | Paysen et al. 1980, 1982, Schoenherr and Burk 2007, Stillwater Sciences and URS 2007, Thorne 1976 |
| Alliance | Thomas et al. 2004 | Evens and San 2005, Klein and Evens 2005 |
| | | |
| Association | Keeler-Wolf and Thomas 2000 | |
| Association | Keeler-Wolf et al. 1998b | |
| Association | Klein and Evens 2005 | MacMahon 1988, Martin 1980, Paysen |
| Association | Keeler-Wolf and Thomas 2000 | |
| Association | Keeler-Wolf et al. 1998b | Evens and Hartman 2007 |
| Association | Keeler-Wolf et al. 1998b | |
| Association | Keeler-Wolf et al. 1998b | |
| Association | Keeler-Wolf et al. 1998b | Evens and San 2005 |
| Association | Keeler-Wolf and Thomas 2000 | |
| Alliance | Thomas et al. 2004 | Brown 1982f, Bukart 1976, Hilu et al. 1982, Holland |
| Association | Keeler-Wolf et al. 1998b | MacMahon 1988, Martin 1980, Meyer 2005b, Paysen et al. 1980, Reid |
| Association | Keeler-Wolf et al. 1998b | MacMahon 1988, Martin 1980, Meyer 2005b, Paysen et al. 1980, Reidet al. 1999, Sharf et al. 1982, Vasek and Barbour 1977 |
| Association | Keeler-Wolf et al. 1998b | MacMahon 1988, Martin 1980, Meyer 2005b, Paysen et al. 1980, Reid |
| Alliance | Keeler-Wolf et al. 1998b | Evens 2000, Evens and Hartman 2007, Thomas et al. 2004 and others, see MCII. |
| Association | Spolsky 1979 | Evens and Hartman 2007, Johnson |
| Association | Keeler-Wolf et al. 1998b | Evens and Hartman 2007, Johnson 1976 |
| Association | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Monzingo1987, Paysen et al. 1980, Sawyer and Keeler-Wolf1995 |
| Association | Keeler-Wolf et al. 2005 | Evens 2000, Evens and Hartman 2007, Johnson 1976, Keeler-Wolf et al. 1998b |
| Association | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Monzingo1987, Paysen et al. 1980, Sawyer and Keeler-Wolf 1995 |
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| Alliance | Thomas et al. 2004 | |
| Association | Annable 1985 | |
| Association | Keeler-Wolf and Thomas 2000 | MacMahon 1988, MacMahon and Wagner 1985, McHargue 1973, Paysen et al. 1980 |
| Association | Keeler-Wolf and Thomas 2000 | MacMahon 1988, MacMahon and Wagner 1985, McHargue 1973, Paysen et al. 1980 |
| Provisional Association | Keeler-Wolf and Thomas 2000 | Prigge, 2000, Pers Comm.. MacMahon 1988, MacMahon and Wagner 1985, McHargue 1973, Paysen et al. 1980 |
| Association | Keeler-Wolf and Thomas 2000 | MacMahon 1988, MacMahon and Wagner 1985, McHargue 1973, Paysen et al. 1980 |

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| Association | Ferren and Davis 1991 | Keeler-Wolf and Thomas 2000, MacMahon 1988, MacMahon |
| Association | Keeler-Wolf and Thomas 2000 | MacMahon 1988, MacMahon and Wagner 1985, McHargue 1973, Paysen et al. 1980 |
| Association | Keeler-Wolf and Thomas 2000 | MacMahon 1988, MacMahon and Wagner 1985, McHargue 1973, Paysen et al. 1980 |
| Association | Keeler-Wolf and Thomas 2000 | MacMahon 1988, MacMahon and Wagner 1985, McHargue 1973, Paysen et al. 1980 |
| Association | Keeler-Wolf and Thomas 2000 | MacMahon 1988, MacMahon and Wagner 1985, McHargue 1973, Paysen et al. 1980 |
| Alliance | Keeler-Wolf et al. 1998a | Thomas et al. 2004 |
| Association | Keeler-Wolf et al. 1998a | Keeler-Wolf et al. 2005, Evens and Hartman 2007, Griggs 1980b, Griggs and Zaninovitch 1984, Howard |
| Association | Peterson 1984a | Peterson 1984b, Reid et al. 1999, Vasek and Barbour 1977, Werschkull et al. 1984. |
| | | |
| Alliance | Keeler-Wolf and Thomas 2000 | Esser 1993a |
| Association | Keeler-Wolf and Thomas 2000 | Peterson 1984a, 1984b, Reid et al. |
| Association | Keeler-Wolf and Thomas 2000 | Evens 2000, Peterson 1984a, 1984b, Reid et al. |
| Alliance | Thomas et al. 2004 | Evens et al. 2006 |
| | | |
| Association | Evens, Keeler-Wolf, Klein and Hickson 2005 (central | |
| Association | Young et al.1977 | Ferren and Davis 1991, Paysen et al. 1980, Tirmenstein 1999c, West 1988, |
| Alliance | Keeler-Wolf et al. 1998b | Thomas et al. 2004 |
| Association | Keeler-Wolf et al. 1998b | Keeler-Wolf and Thomas 2000, Thomas et al. 2004, Thorne 1982, Vasek |
| Provisional Alliance | James et al. 1988 | Evens and San 2005, Bonneau 2000, McDaniel et al. 1997, NatureServe 2007a, Tirmenstein |
| Alliance | Evens 2000 | Keeler-Wolf and Thomas 2000 |
| Association | Keeler-Wolf and Thomas 2000 | Evens 2000, Reid et al. 1999, |
| Alliance | Benedict 1982 | Barry 1989a, 1989b, Bauer et al. 2002 |
| Association | Taylor 1984 | Keeler-Wolf et al. 2003b, Major and Taylor 1977, Ratliff 1985, Reynolds and Berlow 2002, West 1988 |
| Association | Benedict 1983 | Berlow et al. 2002 |
| Alliance | | |
| | | |
| Association | Gordon and White 1994 | Johnson 2000a, Klein and Evens 2005, Meyer and Monsen 1992, Paysen et al. 1980, Peterson 1984a, |
| Association | Thomas et al. 2004 | Thorne 1976, Tirmenstein 1999b, Tisdale |
| Association | Thomas et al. 2004 | Thorne 1976, Tirmenstein 1999b, Tisdale |
| Association | Thomas et al. 2004 | Thorne 1976, Tirmenstein 1999b, Tisdale |
| Association | Thomas et al. 2004 | Thorne 1976, Tirmenstein 1999b, Tisdale |
| Association | Thomas et al. 2004 | Thorne 1976, Tirmenstein 1999b, Tisdale |
| Association | Ferren and Davis 1991 | Freeman et al. 1991, Thomas et al. 2004, Thorne 1976, Tirmenstein 1999b, Tisdale |
| Association | Thomas et al. 2004 | Thorne 1976, Tirmenstein 1999b, Tisdale |
| Association | Gordon and White 1994 | Johnson 2000a, Klein and Evens 2005, Meyer and |
| Association | Klein and Evens 2005 | Meyer and Monsen 1992, Paysen et al. 1980 |
| Association | Thomas et al. 2004 | Thorne 1976, Tirmenstein 1999b, Tisdale |
| Association | Taylor 1980 | |
| Association | Taylor 1980 | |
| Alliance | Keeler-Wolf et al. 2003b | NatureServe 2007a, Barry 1989a, b, Cheng 2004, Paysen et al. 1980, Shiflet 1994, Taylor 1976b, |
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| Association | Cheng 2004 | |
| Association | Young et al. 1977 | Young et al. 2007 |
| Association | Keeler-Wolf and Moore 2001 | |
| Association | Keeler-Wolf□ | Paysen et al. 1980, Shiflet 1994, Taylor |
| Alliance | Keeler-Wolf et al. 2003b | Barry 1989a, 1989b |
| Association | Major and Taylor 1977 | Marchand 1973, Paysen et al. 1980, Travers 1993, |
| Association | Keeler-Wolf and Moore 2001 | |
| Association | S. Smith 1998 | Sawyer and Keeler-Wolf 2007, 1998, Steinberg 2002a |
| Association | Stillman 1980 | Taylor 1976a, Thorne 1976, Tisdale 1994e, |
| Association | Stillman 1980 | Taylor 1976a, Thorne 1976, Tisdale 1994e |
| Association | Stillman 1980 | Taylor 1976a, Thorne 1976, Tisdale 1994e |
| Association | Stillman 1980 | |
| Association | Keeler-Wolf and Moore 2001 | |
| Association | Major and Taylor 1977 | |
| Association | Major and Taylor 1977 | Marchand 1973, Paysen et al. 1980 |
| Association | Major and Taylor 1977 | Marchand 1973, Paysen et al. 1980 |
| Association | Major and Taylor 1977 | |
| Provisional Alliance | Zamora and Tueller 1973 | Barry 1989a, 1989b, Keeler-Wolf 1984d, McArthur |
| Alliance | Thomas et al. 2004 | |
| | | |
| Association | Peterson 1984a | Peterson 1984b, Reid et al. 1999, Rickard |
| Association | Keeler-Wolf and Thomas 2000 = Thomas et al.□ | Thorne 1976, Tisdale 1994b, Turner 1982a, West |
| Association | Keeler-Wolf and Thomas 2000 = Thomas et al.□ | Thorne 1976, Tisdale 1994b, Turner 1982a, West 1988, Young et al. 1977, 2007, Zamora and Tueller 1973 |
| | | |
| Alliance | Keeler-Wolf and Thomas 2000 | Anderson 2004a, Johnson 1984, Keeler-Wolf 2007b |
| Association | Keeler-Wolf and Thomas 2000 | |
| Association | Keeler-Wolf and Thomas 2000 | |

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| Association | Peterson 1984a, | Reid et al. 1999, Thomas et al. 2004, Yoder et al. 1983. |
| Association | Keeler-Wolf and Thomas 2000 | |
| Association | Keeler-Wolf and Thomas 2000 | |
| Alliance | Thomas et al. 2004 | Anderson 2001e |
| Association | Peterson 1984a | Reid et al. 1999, Thomas et al. 2004, Warren et al. 1982 |
| Alliance | Johnson 1976 | Barry 1989a, 1989b, Beatley 1965, 1975, Blaisdell and Holmgren 1984, Keeler-Wolf 2007b |
| Association | Keeler-Wolf and Thomas 2000 | |
| Association | Kurzius 1981 | Paysen et al. 1980 |
| Association | Keeler-Wolf and Thomas 2000 | |
| Association | Keeler-Wolf and Thomas 2000 | Peterson 1984a, 1984b, Shaw et al. 2002, Shiflet 1994, Thorne 1976, 1982, Tirmenstein 1999c, Webb et al. 1987 |
| Association | Kurzius 1981 | Paysen et al. 1980 |
| Association | Keeler-Wolf and Thomas 2000 | |
| Alliance | Thomas et al. 2004 | Ackerman 1979, Carey 1995a, 1995b, 1995c MacMahon 1988, Reid et al. 1999, Sawyer and Keeler-Wolf 1995 |
| Association | Young et al. 1977 | Thomas et al. 2004, Turner 1982a, West 1988, Young et al. 2007 |
| Alliance | Keeler-Wolf et al. 2005 | |
| Provisional Association | Keeler-Wolf 2007b | |
| Association | Keeler-Wolf et al. 2005 | Keeler-Wolf et. Al. 2005 |
| Provisional Alliance | Keeler-Wolf and Thomas 2000 | Brayton and Mooney 1966, Cogan et al. 2004, Kitchen |
| Association | Thomas et al. 2004 | |
| Alliance | Davis 1994 | Davis 1994b |
| Association | Keeler-Wolf and Keeler-Wolf 1976 | |
| Association | Keeler-Wolf and Thomas 2000 | |
| Association | Keeler-Wolf et al. 2003b | |
| Alliance | Anderson 2001c | Keeler-Wolf et. Al. 2005 |
| | | |
| Association | Spolsky 1979 | Keeler-Wolf and Thomas 2000, Lei 2001a, 2001b, Lei and Walker 1994, 1995, MacMahon |
| Association | Keeler-Wolf and Thomas 2000 | Lei 2001a, 2001b, Lei and Walker 1994, 1995, MacMahon |
| Association | Keeler-Wolf and Thomas 2000 | Lei 2001a, 2001b, Lei and Walker 1994, 1995, MacMahon |
| Association | Keeler-Wolf and Thomas 2000 | Lei 2001a, 2001b, Lei and Walker 1994, 1995, MacMahon |
| Association | Keeler-Wolf and Thomas 2000 | Lei 2001a, 2001b, Lei and Walker 1994, 1995, MacMahon |
| Association | Keeler-Wolf and Thomas 2000 | Lei 2001a, 2001b, Lei and Walker 1994, 1995, MacMahon |
| Provisional Association | Keeler-Wolf and Thomas 2000 | Lei 2001a, 2001b, Lei and Walker 1994, 1995, MacMahon |
| Provisional Association | Keeler-Wolf and Thomas 2000 | Lei 2001a, 2001b, Lei and Walker 1994, 1995, MacMahon |
| Association | Keeler-Wolf and Thomas 2000 | Lei 2001a, 2001b, Lei and Walker 1994, 1995, MacMahon |
| Association | Keeler-Wolf and Thomas 2000 | Lei 2001a, 2001b, Lei and Walker 1994, 1995, MacMahon |
| Association | Keeler-Wolf and Thomas 2000 | Lei 2001a, 2001b, Lei and Walker 1994, 1995, MacMahon |
| Alliance | Keeler-Wolf et al. 1998b | Griffith 1991, Thomas et al. 2004 |
| Association | Keeler-Wolf and Thomas 2000 | Keeler-Wolf et al. 1998b, Reid et al. 1999, Sawyer and Keeler-Wolf 1995, Spolsky 1979, Stone and |
| Association | Keeler-Wolf and Thomas 2000 | |
| Alliance | Keeler-Wolf and Thomas 2000 | |
| Association | Keeler-Wolf and Thomas 2000 | Reid et al. 1999 |
| Alliance | Neal 1994 | Thomas et al. 2004, Keeler-Wolf et al. 2003b, Barry 1989a, 1989b, Brown et al. 1980, Cheatham and |
| Association | Keeler-Wolf et al. 2003b | Neal 1994, Nord 1965, Shiflet 1994, Thorne 1976, Young et al. |
| Association | Keeler-Wolf et al. 2003b | Neal 1994, Nord 1965, Shiflet 1994, Thorne 1976, Young et al. |
| Association | Keeler-Wolf et al. 2003b | Neal 1994, Nord 1965, Shiflet 1994, Thorne 1976, Young et al. |
| Association | Keeler-Wolf et al. 2003b | Neal 1994, Nord 1965, Shiflet 1994, Thorne 1976, Young et al. |
| Association | Keeler-Wolf et al. 2003b | Neal 1994, Nord 1965, Shiflet 1994, Thorne 1976, Young et al. |
| | | |
| Alliance | Thomas et al. 2004 | Evens et al. 2006, Griffin and Booth 1992, Heady 1977 |
| Association | Major and Taylor 1977 | Paysen et al. 1980, Reid et al. 1999, Stoddart et al. 1975 |
| Association | Keeler-Wolf and Thomas 2000 | |
| Alliance | NatureServe 2007a | Daubenmire 1970, Barry 1989a, 1989b, Brown et al. 1980, Chappell et al 1997, Johnson 1987, Shiflet 1994, Stoddart et al. 1975, Thorne 1976, |
| Semi-natural Stands | | |
| Alliance | Thomas et al. 2004 | Keeler-Wolf and Thomas 2000, Pavek 1993c, Reid et al. 1999, Sawyer and Keeler- |
| Association | Keeler-Wolf and Thomas 2000 | Pavek 1993c, Reid et al. 1999, Sawyer and Keeler- |
| Alliance | Thomas et al. 2004 | |
| Association | Keeler-Wolf and Thomas 2000 | Paysen et al. 1980, Reid et al. 1999, Simonin 2000, Thomas et al. 2004, Vasek and Barbour 1977 |
| Association | Keeler-Wolf and Thomas 2000 | Paysen et al. 1980, Reid et al. 1999, Simonin 2000, Thomas et al. 2004, Vasek and Barbour 1977. |
| Association | Keeler-Wolf and Thomas 2000 | Paysen et al. 1980, Reid et al. 1999, Simonin 2000, Thomas et al. 2004, Vasek and Barbour 1977 |
| Alliance | SAMO | |
| Association | Cooper and Wolf 2006 | Sawyer and Keeler-Wolf 2007 |
| Alliance | Keeler-Wolf and Moore 2001 | Potter 2003 |
| Provisional Association | Taylor 1984 | |
| Association | Taylor 1984 | Potter 2005, Sawyer and Keeler-Wolf 2007, Viereck et al. 1992. |
| Association | Keeler-Wolf et al. 2003b | Ladyman 2002, Major and Taylor 1977, Pemble 1970 |
| Provisional Alliance | Sawyer and Keeler-Wolf 2007 | |

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| Alliance | | Ratliff 1982 | Ratliff 1985 |
| Association | | Sumner 1941 | Benedict 1983, Fites-Kaufman et al. 2007, Keeler-Wolf et al. 2003b, Klikoff 1965, Major and Taylor 1977, Ratliff 1982, Ratliff 1985, Sawyer and |
| Association | | Benedict 1983 | Fites-Kaufman et al. 2007, Ratliff 1985, Sawyer and Keeler-Wolf 2007, Sumner 1941 |
| Association | | Benedict 1983 | Fites-Kaufman et al. 2007, Keeler-Wolf et al. 2003b, Klikoff 1965, Major and Taylor 1977, Ratliff 1982, Ratliff 1985, Sawyer and Keeler-Wolf 2007, |
| Association | | Klikoff 1965 | Major and Taylor 1977, Ratliff 1982, Keeler-Wolf et al. 2003b, Taylor 1984. |
| Alliance | | Keeler-Wolf et al. 2003b | Klyver 1931 |
| Association | | Taylor 1984 | Keeler-Wolf et al. 2003b, Klyer 1931 |
| Association | | Pemble 1970 | Sawyer and Keeler-Wolf 2007 |
| Association | | Major and Taylor 1977 | |
| Alliance | | Keeler-Wolf et al. 2003b | |
| Association | | Major and Taylor 1977 | Taylor 1984 |
| Association | | Potter 2005 | Ratliff 1979, 1982, 1985 |
| Association | | Burke 1982 | Hauser 2006b, Keeler-Wolf et al. |
| Association | | Burke 1982 | |
| Association | | Burke 1982 | Hauser 2006b |
| Association | | Keeler-Wolf et al. 2003b | Klikoff 1965, Major and Taylor 1977, Paysen |
| Association | | Taylor 1984 | Ratliff 1979, 1982, 1985, Potter 2005 |
| Association | | Benedict 1983 | |
| Alliance | | Burke 1982 | NatureServe 2007 |
| Association | | Burke 1982 | Sawyer and Keeler-Wolf 2007 |
| Association | | Burke 1982 | Sawyer and Keeler-Wolf 2007 |
| Provisional Alliance | | Cheng 2004 | Cooper and Wolf 2006, Potter 2005, Sawyer and Keeler-Wolf 2007 |
| Alliance | | Keeler-Wolf et al. 2003b | |
| Association | | Major and Taylor 1977 | cf. Benedict 1983 |
| Association | | Keeler-Wolf et al. 2003b | |
| Association | | | |
| Association | | Potter 2005 | |
| Alliance | | Keeler-Wolf et al. 2003b | |
| Association | | Taylor 1984 | Keeler-Wolf et al. 2003b |
| Association | | cf. Pemble 1970 | Rundel et al. 2005, Sawyer and Keeler-Wolf 2007 |
| Association | | Taylor 1984 | Keeler-Wolf et al. 2003b |
| Association | | cf. Pemble 1970 | Rundel et al. 2005, Sawyer and Keeler-Wolf 2007 |
| Alliance | | Keeler-Wolf and Moore 2001 | |
| Association | | Taylor 1984 | Keeler-Wolf et al. 2003b, Sawyer and Keeler-Wolf 2007 |
| Association | | Taylor 1984 | Keeler-Wolf et al. 2003b, Sawyer and Keeler-Wolf |
| Provisional Alliance | | Franklin and Dyrness 1973 | Douglas and Bliss 1977, Sawyer and Keeler-Wolf 2007 |
| Provisional Alliance | Sparsely Vegetated | Klein and Evens 2006 | |
| Provisional Association | | Taylor 1984 | |
| Provisional Association | | Taylor 1984 | |
| Provisional Alliance | | Keeler-Wolf and Moore 2001 | |
| Alliance | | Keeler-Wolf and Moore 2001 | |
| Association | | Taylor 1984 | Tesky 1992b |
| Association | | Taylor 1984 | Tesky 1992b |
| Association | | Major and Taylor 1977 | |
| Provisional Alliance | | Taylor 1984 | Cheng 2004, Keeler-Wolf and Moore 2001,Sawyer and Keeler-Wolf 2007 |
| Provisional Association | | Taylor 1984 | |
| Alliance | | Keeler-Wolf et al. 2003b | |
| Association | | Major and Taylor 1977 | |
| Association | | Taylor 1984 | Keeler-Wolf et al. 2003b |
| Association | | Sawyer and Keeler-Wolf 2007 | |
| Association | | Pemble 1970 | Taylor 1984, Keeler-Wolf et al 2003b |
| Association | | Pemble 1970 | |
| Provisional Alliance | | Taylor 1984 | Amen 1966, Caldwell et al 1982, Cheng 2004, Humlum 1981, Mooney and Billings 1960, 1961, Russell 1948, Sawyer and Keeler-Wolf 2007, |
| Association | | Taylor 1984 | |
| Alliance | | Taylor 1984 | Cheng 2004 |
| Association | | Pemble 1970 | Sawyer and Keeler-Wolf 2007 |
| Association | | Taylor 1984 | |
| Association | | Major and Taylor 1977 | |
| Association | | Keeler-Wolf et al. 2003b | Taylor 1984 |
| Association | | Keeler-Wolf et al. 2003b | |
| Association | | Taylor and Major 1977 | |
| Association | | Taylor 1984 | |
| Association | | Taylor 1967a | |
| Association | | Major and Taylor 1977 | |
| Association | | Major and Taylor 1977 | |

| | | |
|---|---|---|
| Association | Major and Taylor 1977 | Taylor 1984 |
| Alliance | Major and Taylor 1977 | |
| Association | Major and Taylor 1977 | Sawyer and Keeler-Wolf 2007 |
| Association | Major and Taylor 1977 | Sawyer and Keeler-Wolf 2007 |
| Association | Major and Taylor 1977 | Sawyer and Keeler-Wolf 2007 |
| Association | Major and Taylor 1977 | Sawyer and Keeler-Wolf 2007 |
| Association | Major and Taylor 1977 | Sawyer and Keeler-Wolf 2007 |
| Alliance | Odion et al. 1992a | Mason 1957, Ferren 1989a, Grewell et al. 2007, Thorne 1982 |
| Association | Parish 1930 | Odion et al. 1992a, Thorne 1982 |
| Alliance | Keeler-Wolfand Vaghti 2000 | Baye et al. 2000, Holstein 2000, Pickart 2006, Hickson and Keeler-Wolf 2007 |
| Association | Holstein 2000 | |
| Association | | |
| Alliance | Pickart 2006 | |
| Association | Pickart 2006 | |
| Provisional Association | Pickart 2006 | |
| Provisional Alliance | Mason 1957 | Taylor et al. 1993 |
| Provisional Alliance | Mason 1957 | Wennerberg 2004 |
| Alliance | Keeler-Wolf et al. 2003b | Cheatham and Haller 1975, Anderson 2003b, Barry 1989a, 1989b, Mason 1957 |
| Association | Mason 1957 | Keeler-Wolf et al. 2003b |
| Provisional Alliance | Mason 1957 | Clark 1980, Hickson and Keeler-Wolf 2007, Lumpkin |
| Provisional Alliance | Mason 1957 | Armstrong 1982, Armstrong and Thorne 1984, Barry 1989a, b, Cheatham and Haller 1975, DiTomaso and |
| Provisional Semi-natural Stands | Sears et al. 2005 | Sears et al. 2006, Hickson and Keeler-Wolf 2007 |
| Provisional Alliance | NatureServe 2007b | |
| Alliance | Evens and San 2005 | NatureServe 2007a |
| Association | Evens and San 2005 | Keeler-Wolf and Evens 2006, NatureServe 2007b. |

| | | |
|---|---|---|
| Alliance | Henry 1979 | Thomas et al. 2004, Keeler-Wolf 2007 |
| Association | Vasek and Barbour 1977 | cf. Pavlik 1980, Paysen et al. 1980, Schoenherr and Burk 2007, Thorne 1982 |
| Alliance | Thomas et al. 2004 | Henry 1979, Paysen et al. 1980 |
| Association | Thorne 1982 | Thomas et al. 2004, Vasek and Barbour 1988 |
| Special Stands | Henry 1979 | Keeler-Wolf and Thomas 2000, Pavlik 1980, Pavlik and Barbour 1988, USFWS ~2007 |
| Alliance | Thomas et al. 2004 | Keeler-Wolf and Thomas 2000, MacMahon 1988, Paysen et al. 1980, Reid et al. |
| Association | Annable 1985 | Evens and Hartman 2007, Hunt 1966, Johnson 1976, |
| Association | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Paysen et al. 1980, Reid et al. 1999, Schramm 1982, Thomas et al. 2004, Thorne |
| Association | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Paysen et al. 1980, Reid et al. |
| Association | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Paysen et al. 1980, Reid et al. |
| Association | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Paysen et al. 1980, Reid et al. |
| Association | Keeler-Wolf and Thomas 2000 | MacMahon 1988, Paysen et al. 1980, Reid et al. |
| Provisional Alliance | Thomas et al. 2004 | Beatley 1976, Root 1978 |

# Scoping Meeting for the Draft EIR for the Cannabis Environmental Impact Report

## SIGN IN SHEET

May 12th, 2017

*(Please sign in before the meeting)*

| Name | Organization | Address | Phone / Email |
|---|---|---|---|
| MARK WHEELER | City of Fortuna | | 707.725.1410 |
| Martha Spencer | | | 768-3056 martspnce@aol.com |
| Eric Nelson | | | " |
| Sue Long | City of Fortuna | | |
| Tami Trent | City of Fortuna | | |
| Natalynne Delapp | HCGA | Natalynne@HCGA.CO | |
| Cory Fitze | | | 498-7955 |
| Trisha Mechetti | AgDynamX | 732 5th St. Suite J, Eureka, CA, 95501 | 798-6991 |
| Dennis Comnack | Sensi Valley Farms | | |

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## SIGN IN SHEET

**May 12th, 2017**

***(Please sign in before the meeting)***

| Name | Organization | Address | Phone / Email |
|---|---|---|---|
| Donald Fregeau Jr | | 3653 Loop Rd Fortuna CA 95540 | 7077254174 donaldv[illegible] |
| Clark Ross | | 60 Pampas Lane Fortuna | yahoo.com |
| Dave Bois | Ag Dynamix | 732 5th St Eureka | 798-6199 daveb@agdynamix.com |
| Chad Pessagno | Whitchurch Eng | C/O 9th St. | 725-6526 |
| Michelle Voyles | Azalea Realty/Mad River | 2500 Dragnet Pl Mck. | 707-845-1609 |
| Christy Allman | Business Source | 985 Hilltop Dr Ftna CA | |
| Elan Luno | Business Source | 1100 D02 Main St Ftna CA | |
| Tim MEADE | | 4100 NOB HILL FORTUNA | 725-2011 [illegible] |
| Tom Wheeler | EPIC | 145 G St, Ste A Arcata, 75521 | 707 822 7711 Tom@wildcal[illegible] |
| Kim Bynum | Atlas Engineering | 252 6 St. Arcata, 95521 | Kim@atlaseng.net |
| Gordon Grisnold | | | ggrisnold@comcast.net |
| JESSIKA CHAPMAN | MIKKIMOVES REAL ESTATE | JESSIKACHAPMAN@MIKKIMOVES.COM | |
| Rebecca Manion | California Native Plant Society | | rmanion136@gmail.com |
| Shaelawn MAISEN | | 2095 Mad River Rd. ARCATA, CA | Shaelawn@aol.com 707-498-1695 |
| Scott Bauer | CDFW | 619 2nd St. Eureka CA | scott.bauer@wild[illegible] |
| Tyler Martin | Omsberg + Preston | | tmartin@omsberg.com |
| Richie Jones | MikkiMoves | 3903 Upper Bay Rd. Arcata | 707.572.0683 |
| Deb Fonsen | | 2900 Rock Springs Rd Hydesville | (707)768-3365 |
| Greg Williston | SHN | 812 W. WABASH, Eureka | 707 441-8855 |

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## SIGN IN SHEET

May 12th, 2017

*(Please sign in before the meeting)*

| Name | Organization | Address | Phone / Email |
|---|---|---|---|
| Judith Mayer | HSU | 2040 Panorama Ct. Arcata CA 95521 | judith.mayer@humboldt.edu |
| Ana Carter | TRC | 1463 Anderson Ave Mckinleyville | atr51@humboldt.edu |
| Bill Thorington | NHA | 501 Maya Ln Fortuna. CA | tcgroup@Sudelenlink.n |
| Terra Carver | HCGA | 600 F Street Suite 3#125 Arcata, CA | terra@hcga.co |
| Dennis & Tami Fitze | | P.O. Box 718 Hydesville, CA 95547 | sharlock storage@ao |
| Bonnie Blackburn | CUNT | Box 644 Redway CA 95560 | bonnie@quillberries |
| Kenny Richards | Northern Humboldt UHSD | 2755 McKinleyville Ave., McKinleyville | krichards@nohum.k12.ca.us |
| Joan and Randy Bennett | | 4757 Hill Rd Fortuna | 7252330 |
| Janet DePace | | 520 E ST Eureka 95501 | jdepace3@gs.com |
| Sandy Dale | | 100 Pampas Ln. Fortuna CA 95540 | sdale@fuhsdistrict.net |
| Sensi Valley Farms | | 517 Third St #39 Eureka | |
| Kim Preston | Ansberg & Preston | 434 7th St. Eureka | Kpreston@ansberg.com |
| Mike Rosenzweig | Univ Chicago | 4550 38th Ave. SW, Seattle, WA | bigwavemikey@gmail.com |
| Jim Meeker | FORTUNA, | | |
| Suzanne Maese | Margro Advisors | 2306 Albee Str. Eureka | info@margroadvisors.com |

# Scoping Meeting for the Draft EIR for the Cannabis Environmental Impact Report

## SIGN IN SHEET

May 12th, 2017

*(Please sign in before the meeting)*

| Name | Organization | Address | Phone / Email |
|---|---|---|---|
| Liz Harwood | PlumNuts Farm | 705 JACKSHAW Rd Kneeland | 442-5084 |
| Richard Amerson | Lazy S Farm | 2557 Blue Rock Rd Benbow | richardterryamerson@gmail |
| Nancy & Dakota Ringo | | Po Box 238 Blocksburg CA 95514 | |
| KURT McCRAY | CAL FIRE | 118 S. FORTUNA BLVD FORTUNA | 726-1253 |
| Charles L. Ciancio | Owner | P.O. Box 172 Cutten 95534 | 707 845-2 |
| DAVID OWREN | OWNER | 99 PAMPAS LANE FORTUNA | 725-9736 dowren@suddenlink.net |
| STEVE CHRISTIAN | | | MAGTREESTEVE@YAHOO.COM |
| MARC WOODS | FARM FAMILY EXPEDITING | BOX 555 TRINIDAD, CA. 95570 | farmfamx@gmail.com |
| Andrew Nash | | Petrolia | anash66@gmail.com |
| Laura Cooskey | — | Petrolia | lauracooskey@frontiernet.net |
| ERIN DUNN | Fortuna Chamber | Fortuna | erin@fortunachamber.com |
| Ian Snyder | Transcon Environmental | Ferndale | isnyder@transcon.com |
| Betsy Filippini | Victoria Ranch HOA | Hydesville | efilippini@ymail.com |
| Peter Childs | | | pcc@easis.com |
| Lelchina DuBois | Humboldt Grace | PO Box 896 BL | lele@humboldtgrace |
| Cheri Sanville | CDFW | 619 2nd St Eka | cheri.sanville@wildlife.ca.gov |
| Kaiya Tuttle | Yurok Tribe Environmental Department | | ktuttle@yuroktribe.nsn.us |
| Kelly Brazil | | Fortuna | |
| Paul Hagen | Law Office | 922 6th St, Ste. 7, Arcata, CA | paul@northcoastlegal.com |

May 12, 2017

## Humboldt County

## Proposed Amendments to Humboldt County Code Regulating Commercial Cannabis Activities

## Scoping Meeting Comment Sheet

Written comments may be submitted today or subsequently mailed or e-mailed to the contact information below by May 17, 2017. Please indicate a contact person in your response and send your comments to:

slazar@co.humboldt.ca.us; or

Steve Lazar
Humboldt County Planning & Building Department
3015 H Street
Eureka, CA 95501

Name: Jack Henry

Organization: Timberland Resource Consultants

Mailing Address:

Email:

Comment:

Please take care to do a full EIR that is not rushed and easily challenged. I support cultivation and think its a disservice to the growers if the EIR is lacking.

May 12, 2017

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Steve Lazar
Humboldt County Planning & Building Department
3015 H Street
Eureka, CA 95501

Name: Paul Hagen

Organization: North Coast Envil Law Office

Mailing Address: 822 "G" St., Ste. 7, Arcata, CA 95521

Email: ~~Paul~~ ~~Pau~~ paul@northcoastelaw.com

Comment: 1) Permitting existing TPZ-related cultivation, and reconstructing of existing footprints to maximize ~~envi~~ relocation envil remediation & regeneration as well as operational efficiencies.

~~Prop~~ Mitigation requirements should include flexibility in the face of ill-constructed site layouts

2) Prime Soils: All Cannabis cultivation so situated should be essentially co-equal with other, similar agriculture and cultivation.

(Cover →)

This would move the analysis foundation ~~to the~~ from one segment of agriculture to the more realistic all-around view of agriculture in the region.

- Definition of "prime soils" needs to be carefully done.
  The ordinance specifies the 1965 study and then provides a nebulous alternative.

May 12, 2017

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Steve Lazar
Humboldt County Planning & Building Department
3015 H Street
Eureka, CA 95501

Name: Cheri Sanville

Organization: CDFW

Mailing Address: 619 2nd St Eureka

Email: cheri.sanville@wildlife.ca.gov

Comment:

We are also concerned about potential adverse impacts to botanical resources. This topic was not brought up in the comment letter the department submitted. Of particular concern are additional pressures on grasslands and woodlands, particularly as ~~timberland conversion~~ prohibitions on timberland conversion become more strict. Grasslands and woodlands are rich with rare plants and provide important wildlife resources and should not be seen as a suitable alternative to conversion of timberlands

We would also recommend full floristic botanical surveys be conducted prior to any ground disturbing activities. Our department

↳ ~~surface~~ such as cultivation sites, H2O storage, roads, rock sources, building sites, etc.

has a botanical scoping and survey protocol that project proponents should be directed to follow. Wetland delineations should also be conducted to ensure adequate setbacks and to maintain hydrological connectivity

May 12, 2017

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slazar@co.humboldt.ca.us; or

Steve Lazar
Humboldt County Planning & Building Department
3015 H Street
Eureka, CA 95501

Name: ERIN DUNN

Organization:

Mailing Address: 750 14th Street Fortuna CA 95540

Email: erin@fortunachamber.com

Comment:

- WATER
  STRICT regulation of water use
- SET BACKS
  Fortuna has surrounding county land throughout the sphere of influence/ city line.
  We need MAJOR set backs and regulations for properties that border Fortuna

PLEASE.

May 12, 2017

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slazar@co.humboldt.ca.us; or

Steve Lazar
Humboldt County Planning & Building Department
3015 H Street
Eureka, CA 95501

Name: Laura Cooskey

Organization:

Mailing Address: 544 Green Fir Rd., Petrolia, CA 95558

Email: lauracooskey@frontiernet.net

Comment:

Reflecting on one speaker's comments here today that mitigation measures for grows in close interface with residential communities will be quite different from those for grows out in the hills... yes, the mitigations will be different, but in any case the burden of mitigation might be harder, or require more energy, than the grow could be worth.

In other words, I believe commercial, large-scale (more than the six plants allowed by Prop. 64) grows should not be on or near residential or timber zones, but should be in industrial zones - the same sorts of zones that would allow & closely regulate industries such as plastics production or petroleum refineries.

See my email of 5/9/17 for my full argument in this vein.

Another point, perhaps aside from what the scope of the EIR should be, is that without greatly increased OBSERVATION AND ENFORCEMENT, these laws will mean nothing, as they now seem to.

Basically, Bonnie Blackberry said everything else I'd like to say.

Thank you,
Laura Cooskey

May 12, 2017

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slazar@co.humboldt.ca.us; or

Steve Lazar
Humboldt County Planning & Building Department
3015 H Street
Eureka, CA 95501

Name: Andrew Nash

Organization:

Mailing Address: Petrolia California

Email: anash66@gmail.com

Comment:

I have seen major impacts on the environment I have worked and lived in Southern Humboldt and Petrolia. Over the last several years what has gone from moderate amount of grows and impact has now gone to heavy impact on roads, water, community, forestry, biodiversity light and sound pollution.

I am particularly concerned about impacts to neighbors (ie visual noise & light pollution) And to the impact on roads from many heavy trucks and increased traffic. I am also observing unauthorized forest clearing and fragmentation from new grows.

Impacts on roads and runoffs to creeks in my opinion is quite heavy

# Appendix B

## Air Quality and Greenhouse Gas Emissions Modeling Results

## EMFAC Output

| calendar_y | season_mc | sub_area | vehicle_cla | fuel | VMT | g/mi ROG | g/mi NOx | g/mi PM10 | g/mi PM2.5 | g/mi CO2 | g/mi CH4 | fuel |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2018 | Annual | Humboldt I | LDA | Gas | 1480522 | 0.327033 | 0.311988 | 0.077032 | 0.032648 | 498.393 | 0.025878 | 53.61604 |
| 2018 | Annual | Humboldt I | LDA | Dsl | 21911.26 | 0.001541 | 0.014339 | 0.002108 | 0.001411 | 7.248063 | 7.16E-05 | 0.652326 |
| 2018 | Annual | Humboldt I | LDA | Elec | 16616.32 | 1.49E-05 | | 0.00082 | 0.000325 | 84.34557 | | |
| 2018 | Annual | Humboldt I | LDT1 | Gas | 204709.8 | 0.241803 | 0.181375 | 0.011644 | 0.005429 | 84.34557 | 0.015852 | 9.301107 |
| 2018 | Annual | Humboldt I | LDT1 | Dsl | 405.8477 | 0.000127 | 0.000693 | 0.000123 | 0.000106 | 0.179235 | 5.88E-06 | 0.016131 |
| 2018 | Annual | Humboldt I | LDT1 | Elec | 293.8259 | 4.14E-07 | | 1.45E-05 | 5.75E-06 | | | |
| 2018 | Annual | Humboldt I | LDT2 | Gas | 696867.4 | 0.301456 | 0.335942 | 0.0364 | 0.015498 | 324.0993 | 0.020145 | 34.92573 |
| 2018 | Annual | Humboldt I | LDT2 | Dsl | 889.897 | 2.69E-05 | 8.63E-05 | 5.88E-05 | 3.17E-05 | 0.353669 | 1.25E-06 | 0.03183 |

| | | | | | | |
|---|---|---|---|---|---|---|
| LDA | 0.318761 | 0.304281 | 0.075118 | 0.031844 | 486.7794 | 0.025223 |
| LDT1 | 0.24098 | 0.180759 | 0.011605 | 0.005411 | 84.05862 | 0.015798 |
| LDT2 | 0.301072 | 0.335514 | 0.036354 | 0.015478 | 323.6864 | 0.020119 |

## Key Parameters from Project Description

## Key Parameters Used in CalEEMod Modeling

### Project Characteristics

## Key Parameters

### Land Use

| Site Type and CalEEMod File Name | Number of Current License Applications as of 2016 | Percent of All Cultivation/Non-Cultivation Sites (%) | Canopy Area Restriction Per License (sq ft) | Max. Canopy Area (sq ft) | Building/shed floor area needed for non-cultivation (sq ft) | Outdoor area needed for water storage pond or tank (sq ft) | CalEEMod File Name | Project Name | Project Characteristics -Remarks | Parking Lot Size (spaces) | Parking Surface Type | Parking Area (sq ft) | Floor area of indoor uses (1,000 sq ft) | Disturbance Area during Constructin (acre) | Land Use - Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Cultivation Sites** | | | | | | | | | | | | | | | |
| 1-Outdoor | 61 | 9.1% | up to 5,000 | 5,000 | 500 | 750 | 1-Outdoor | 1-Outdoor up to 5,000 sq ft canop | 1-Outdoor grow site with 5000 sq ft canopy area, 500 sq ft non-cultivation indoor space, 750 sq | 0 | N/A | 0 | 0.50 | 0.14 | Total indoor floor area is 500 sq ft |
| 2-Outdoor | 161 | 24.0% | 5,001-10,000 | 10,000 | 1,000 | 1,500 | 2-Outdoor | 2-Outdoor 5,001-10,000 sq ft can | 2-Outdoor grow site with 10000 sq ft canopy area, 1000 sq ft non-cultivation indoor space, 1500 | 0 | N/A | 0 | 1.00 | 0.29 | Total indoor floor area is 1000 sq ft |
| 3-Outdoor | 147 | 21.9% | 10,001-44,000 | 44,000 | 1,800 | 6,600 | 3-Outdoor | 3-Outdoor 10,001-44,000 sq ft car | 3-Outdoor grow site with 44000 sq ft canopy area, 1800 sq ft non-cultivation indoor space, 6600 | 0 | N/A | 0 | 1.80 | 1.20 | Total indoor floor area is 1800 sq ft |
| 1B-Mixed Light | 25 | 3.7% | up to 5,000 | 5,000 | 500 | 750 | 1B-Mixed Light | 1B-Mixed Light up to 5,000 sq ft c | 1B-Mixed Light grow site with 5000 sq ft canopy area, 500 sq ft non-cultivation indoor space, 75 | 0 | N/A | 0 | 0.50 | 0.14 | Total indoor floor area is 500 sq ft |
| 2B-Mixed Light | 123 | 18.3% | 5,001-10,000 | 10,000 | 1,000 | 1,500 | 2B-Mixed Light | 2B-Mixed Light 5,001-10,000 sq ft | 2B-Mixed Light grow site with 10000 sq ft canopy area, 1000 sq ft non-cultivation indoor space, | 0 | N/A | 0 | 1.00 | 0.29 | Total indoor floor area is 1000 sq ft |
| 3B-Mixed Light | 76 | 11.3% | 10,001-22,000 | 22,000 | 1,400 | 3,300 | 3B-Mixed Light | 3B-Mixed Light 10,001-22,000 sq f | 3B-Mixed Light grow site with 22000 sq ft canopy area, 1400 sq ft non-cultivation indoor space, | 0 | N/A | 0 | 1.40 | 0.61 | Total indoor floor area is 1400 sq ft |
| 1A-Indoor | 31 | 4.6% | up to 5,000 | 5,000 | 500 | 750 | 1A-Indoor | 1A-Indoor up to 5,000 sq ft canop | 1A-Indoor grow site with 5000 sq ft canopy area, 500 sq ft non-cultivation indoor space, 750 sq f | 8 | Paved | 3,200 | 5.50 | 0.22 | Total indoor floor area is 500 sq ft |
| 2A-Indoor | 17 | 2.5% | 5,001-10,000 | 10,000 | 1,000 | 1,500 | 2A-Indoor | 2A-Indoor 5,001-10,000 sq ft canc | 2A-Indoor grow site with 10000 sq ft canopy area, 1000 sq ft non-cultivation indoor space, 1500 | 16 | Paved | 6,400 | 11.00 | 0.43 | Total indoor floor area is 1000 sq ft |
| 3A-Indoor | 30 | 4.5% | 10,001-22,000 | 22,000 | 1,400 | 3,300 | 3A-Indoor | 3A-Indoor 10,001-22,000 sq ft car | 3A-Indoor grow site with 22000 sq ft canopy area, 1400 sq ft non-cultivation indoor space, 3300 | 24 | Paved | 9,600 | 23.40 | 0.83 | Total indoor floor area is 1400 sq ft |
| 1C-Specialty Cottage | N/A | N/A | Up to 2,500 (mi | 2,500 | 250 | 375 | 1C-Specialty Cottage | 1C-Specialty Cottage Up to 2,500 ( | 1C-Specialty Cottage grow site with 2500 sq ft canopy area, 250 sq ft non-cultivation indoor spac | 8 | Paved | 3,200 | 0.25 | 0.15 | Total indoor floor area is 250 sq ft |
| Total | 671 | 100% | | | | | | | | | | | | | |
| **Non-Cultivation Facilities** | | | | | | | | | | | | | | | |
| 4-Nursery (wholesale) | 78 | 29.0% | N/A | N/A | 10,000 | N/A | 4-Nursery (wholesale | | Wholesale nurseries would be indoor. This run is to estimate construction emissions and non-mo | 12 | Paved | 4,800 | 10.00 | 0.34 | |
| 6-Manufacturer 1 | 57 | 21.2% | N/A | 0 | 10,000 | 0 | 6 & 7-Manufacturer | | This run is to estimate construction emissions and non-mobile-source operational emissions. | 12 | Paved | 4,800 | 10.00 | 0.34 | This run is to estimate construction |
| 7-Manufacturer 2 | 43 | 16.0% | N/A | 0 | 10,000 | 0 | 1 & 2 | | CO2 factor from PG&E 2015:3 | 12 | Paved | 4,800 | 10.00 | 0.34 | emissions and non-mobile-source |
| 8-Testing Laboratory | 4 | 1.5% | N/A | 0 | 10,000 | 0 | 8-Testing Laboratory | | This run is to estimate construction emissions and non-mobile-source operational emissions. CO | 12 | Paved | 4,800 | 10.00 | 0.34 | operational emissions from all Non- |
| 10-Dispensary | 20 | 7.4% | N/A | 0 | 10,000 | 0 | 10 & 10A-Dispensary & Producing | Non-Cultivation Facilities | This run is to estimate construction emissions and non-mobile-source operational emissions. CO | 12 | Paved | 4,800 | 10.00 | 0.34 | Cultivation Facilities, incl 4-Nursery |
| 10A-Producing Dispensary | 4 | 1.5% | N/A | 0 | 10,000 | 0 | | | This run is to estimate construction emissions and non-mobile-source operational emissions. CO | 12 | Paved | 4,800 | 10.00 | 0.34 | (wholesale), Manufactuer-1 and-2, 8- |
| 11-Distributor | 44 | 16.4% | N/A | 0 | 10,000 | 0 | 11-Distributor | | This run is to estimate construction emissions and non-mobile-source operational emissions. CO | 12 | Paved | 4,800 | 10.00 | 0.34 | Testing Lab, 10-Dispensary, 10A- |
| 12-Transport | 2 | 0.7% | N/A | 0 | 10,000 | 0 | 12-Transport | | This run is to estimate construction emissions and non-mobile-source operational emissions. CO | 12 | Paved | 4,800 | 10.00 | 0.34 | Produc Disp, 11-Distributor, 12- |
| Processing "microbusiness"? | 17 | 6.3% | N/A | 0 | 10,000 | 0 | Processing | | This run is to estimate construction emissions and non-mobile-source operational emissions. CO | 12 | Paved | 4,800 | 10.00 | 0.34 | Transp |
| Total | 269 | 100% | | | | | | | | | | | | | |
| Sources: | PD Table 2-2 | | PD Table 2-1 | PD Table 2-1 | Note 2 | Note 3 | | PD Table 2-1, concatenation | concatenation | Note 14 | Note 14 | Note 15 | sum, Note 4 | Note 5 | concatenation |
| Applicable CalEEMod Module/Tab/Fied: | N/A | | N/A | N/A | N/A | N/A | File Name | Project Characteristics/Project Name | Project Characteristics/Remarks | Land Use Type/Subtype | Land Use Type/Subtype | | Land Use/Unit Amount | sum of values in Land Use/Lot Acreage | Land Use/Remarks |

### Construction Parameters

Construction Phase (days)

| Site Type and CalEEMod File Name | Site Prep | Grading | Build Constr | Arch Coat | Paving | Site Prep |
|---|---|---|---|---|---|---|
| **Cultivation Sites** | | | | | | |
| 1-Outdoor | 1 | 3 | 10 | 3 | 0 | 0 Grader, |
| 2-Outdoor | 2 | 6 | 20 | 6 | 0 | 0 Grader, |
| 3-Outdoor | 4 | 12 | 40 | 12 | 0 | 0 Grader, |
| 1B-Mixed Light | 1 | 3 | 10 | 3 | 0 | 0 Grader, |
| 2B-Mixed Light | 2 | 6 | 20 | 6 | 0 | 0 Grader, |
| 3B-Mixed Light | 3 | 9 | 30 | 9 | 0 | 0 Grader, |
| 1A-Indoor | 1 | 3 | 30 | 6 | default | 0 Grader, |
| 2A-Indoor | 2 | 6 | 60 | 12 | default | 0 Grader, |
| 3A-Indoor | 3 | 9 | 100 | 24 | default | 0 Grader, |
| 1C-Specialty Cottage | 1 | 2 | 10 | 2 | default | 0 Grader, |
| **Non-Cultivation Facilities** | | | | | | |
| 4-Nursery (wholesale) | 1 | 2 | 100 | 5 | 5 | |
| 6-Manufacturer 1 | 1 | 2 | 100 | 5 | 5 | |
| 7-Manufacturer 2 | 1 | 2 | 100 | 5 | 5 | |
| 8-Testing Laboratory | 1 | 2 | 100 | 5 | 5 | Use CalE |
| 10-Dispensary | 1 | 2 | 100 | 5 | 5 | values (I |
| 10A-Producing Dispensary | 1 | 2 | 100 | 5 | 5 | no ove |
| 11-Distributor | 1 | 2 | 100 | 5 | 5 | Prep, G |
| 12-Transport | 1 | 2 | 100 | 5 | 5 | |
| Processing "microbusiness"? | 1 | 2 | 100 | 5 | 5 | |
| Sources: | Note 6 | | | | | |
| Applicable CalEEMod Module/Tab/Fied: | Construction Phases | | | | | Constru |

Notes

1 75% It is conservatively assumed that the average size of the grow area of each type of cultivation site would be approx. 75% of the maximum permitted area.
2 It is assumed that outdoor grow sites, mixed-light grow sites, and indoor grow sites would have some building space dedicated to non-cultivation activity that is equivalent to approx. 5 to 10% of the canopy area, including ancilliary nurseries.
3 15% It is assumed that outdoor grow sites, mixed-light grow sites, and indoor grow sites would have a water storage pond or a water storage tank (on a pad foundation) that would use up an area that is approx. 20% of the canopy area.
4 1,000 Floor area unit amount in CalEEMod. This does not include the canopy area of outdoor grow sites or mixed-light grow sites.
5 This includes the canopy area, any buildings or sheds, and the area with the water storage pond or tank.
6 The length of the construction period is assumed to be positively correlated with the area of distrubance and floor area of buildings.
7 The same number and types of off-road equipment will be used for each type of grow site. They will differ, however, in the length of the phases for Site Preparation, Grading, Building Construction, and Architectural Coatings.
8 The area of disturbance determines the amount of dust generated by material movement.
9 The same number of worker trips will occur for each type of grow site. They will differ, however, in the length of the phases for Site Preparation, Grading, Building Construction, and Architectural Coatings.
10 It is assumed that a utility vehicle (e.g., John Deere Gator) would be used in the operation of every outdoor and mixed-light grow site. A forklift is use as a proxie to estimate emissions generated by the utility vehicle.
11 A generator would be used at mixed-light grow sites.
12 It's assumed that grassland will be removed to construct new grow sites. The value of the initial acres removed is equivalent to the disturbance area.
13 Source of Precipitation Frequency: CARB. 2016 (November). Miscellaneous Process Methodology 7.9—Entrained Road Travel, Paved Road Dust. Table 8 on page 22. Available: https://www.arb.ca.gov/ei/areasrc/fullpdf/full7-9_2016.pdf. Accessed July 27, 2017.
14 No new paved parking area would not be included at outdoor and mixed-light cultivation sites. Indoor grow sites and non-cultivation facilities would have paved parking spaces.
15 400 sq ft/space The area of each parkign space is approx. 400 sq ft, as assumed by CalEEMod.

| | value | units | source |
|---|---|---|---|
| area converson rate | 43,560 | sq ft/acre | wksht: Unit Conversions |

**Operational Parameters**

| d Equipment by Phase | # Worker Trips/Work/Day, by Phase | Op'l Forklifts | Operational Generator for Lighting | Vegetation |
|---|---|---|---|---|

| Grading | Build Constr | Arch Coat | Paving | Site Prep | Grading | Build Constr | Arch Coat | Paving | # | hr/day | # | Fuel Type | hp | hr/day | hr/yr | Remarks | Type | Initial Acres | Final Acres | Remarks | Outdoor/ Indoor | Artificial Lighting? | Number of License Applications in First 3 years | Canopy/Grow Area (acres) | Harvests Annually (harvest/year) | Average Area of Ground Disturbance during Construction | Percent that would involve new construction (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | | In First Three Years | | | | |
| 1 Grader, 0 Cranes, 1 Air Corr | | | N/A | 2 | 3 | 3 | 2 | N/A | 1 | 2 | 0 | Diesel | NA | NA | NA | NA | Grassland | 0.14 | 0 | Initial Acres = disturbance area of 0.14 acres. | outdoor | no | #REF! | #REF! | 2 | #REF! | 50% |
| 1 Grader, 0 Cranes, 1 Air Corr | | | N/A | 2 | 3 | 3 | 2 | N/A | 1 | 4 | 0 | Diesel | NA | NA | NA | NA | Grassland | 0.29 | 0 | Initial Acres = disturbance area of 0.29 acres. | outdoor | no | #REF! | #REF! | 2 | #REF! | 50% |
| 1 Grader, 0 Cranes, 1 Air Corr | | | N/A | 2 | 3 | 3 | 2 | N/A | 1 | 8 | 0 | Diesel | NA | NA | NA | NA | Grassland | 1.20 | 0 | Initial Acres = disturbance area of 1.2 acres. | outdoor | no | #REF! | #REF! | 2 | #REF! | 50% |
| 1 Grader, 0 Cranes, 1 Air Corr | | | N/A | 2 | 3 | 3 | 2 | N/A | 1 | 2 | 1 | Diesel | 50 | 12 | 4,380 | A generi | Grassland | 0.14 | 0 | Initial Acres = disturbance area of 0.14 acres. | indoor/outdoor | yes | #REF! | #REF! | 2 | #REF! | 50% |
| 1 Grader, 0 Cranes, 1 Air Corr | | | N/A | 2 | 3 | 3 | 2 | N/A | 1 | 4 | 1 | Diesel | 100 | 12 | 4,380 | A generi | Grassland | 0.29 | 0 | Initial Acres = disturbance area of 0.29 acres. | indoor/outdoor | yes | #REF! | #REF! | 2 | #REF! | 50% |
| 1 Grader, 0 Cranes, 1 Air Corr | | | N/A | 2 | 3 | 3 | 2 | N/A | 1 | 6 | 1 | Diesel | 200 | 12 | 4,380 | A generi | Grassland | 0.61 | 0 | Initial Acres = disturbance area of 0.61 acres. | indoor/outdoor | yes | #REF! | #REF! | 2 | #REF! | 50% |
| 1 Grader, 0 Cranes, 1 Air Corr | | | defaults | 2 | 3 | 3 | 2 | defaults | 0 | 0 | 0 | Diesel | NA | NA | NA | NA | Grassland | 0.22 | 0 | Initial Acres = disturbance area of 0.22 acres. | indoor | yes | #REF! | #REF! | 5 | #REF! | 50% |
| 1 Grader, 0 Cranes, 1 Air Corr | | | defaults | 2 | 3 | 3 | 2 | defaults | 0 | 0 | 0 | Diesel | NA | NA | NA | NA | Grassland | 0.43 | 0 | Initial Acres = disturbance area of 0.43 acres. | indoor | yes | #REF! | #REF! | 5 | #REF! | 50% |
| 1 Grader, 0 Cranes, 1 Air Corr | | | defaults | 2 | 3 | 3 | 2 | defaults | 0 | 0 | 0 | Diesel | NA | NA | NA | NA | Grassland | 0.83 | 0 | Initial Acres = disturbance area of 0.83 acres. | indoor | yes | #REF! | #REF! | 5 | #REF! | 50% |
| 1 Grader, 0 Cranes, 1 Air Corr | | | defaults | 2 | 3 | 3 | 2 | defaults | 0 | 0 | 0 | Diesel | NA | NA | NA | NA | Grassland | 0.15 | 0 | Initial Acres = disturbance area of 0.15 acres. | indoor/outdoor | yes (suppl) | | #REF! | 2 | N/A | N/A |
| | | | | | | | | | 1 | 6 | NA | NA | NA | NA | NA | NA | Grassland | 0.34 | 0 | Initial Acres = disturbance area of 0.34 acres. | indoor/outdoor | yes | #REF! | | N/A | —[3] | 0% |
| | | | | | | | | | 1 | 6 | NA | NA | NA | NA | NA | NA | Grassland | 0.34 | 0 | Initial Acres = disturbance area of 0.34 acres. | indoor | NA | #REF! | —[2] | N/A | N/A | 0% |
| | | | | | | | | | 1 | 6 | NA | NA | NA | NA | NA | NA | Grassland | 0.34 | 0 | Initial Acres = disturbance area of 0.34 acres. | indoor | NA | #REF! | —[2] | N/A | N/A | 0% |
| EMod default for the length of phase | | | | | | Use | | | 1 | 6 | NA | NA | NA | NA | NA | NA | Grassland | 0.34 | 0 | Initial Acres = disturbance area of 0.34 acres. | indoor | NA | #REF! | —[2] | N/A | N/A | 0% |
| days), a start date of 3/1/2018, with | | | | | | CalEEMod | | | 1 | 6 | NA | NA | NA | NA | NA | NA | Grassland | 0.34 | 0 | Initial Acres = disturbance area of 0.34 acres. | indoor | NA | #REF! | —[2] | N/A | N/A | 0% |
| rlapping phases. Phasing order: Site | | | | | | default | | | 1 | 6 | NA | NA | NA | NA | NA | NA | Grassland | 0.34 | 0 | Initial Acres = disturbance area of 0.34 acres. | indoor | NA | #REF! | —[2] | N/A | N/A | 0% |
| rading, Building Constr, Paving, Arch | | | | | | values | | | 1 | 6 | NA | NA | NA | NA | NA | NA | Grassland | 0.34 | 0 | Initial Acres = disturbance area of 0.34 acres. | indoor | NA | #REF! | —[2] | N/A | N/A | 0% |
| Coatings. | | | | | | | | | 1 | 6 | NA | NA | NA | NA | NA | NA | Grassland | 0.34 | 0 | Initial Acres = disturbance area of 0.34 acres. | indoor | NA | #REF! | —[2] | N/A | N/A | 0% |
| | | | | | | | | | 1 | 6 | NA | NA | NA | NA | NA | NA | Grassland | 0.34 | 0 | Initial Acres = disturbance area of 0.34 acres. | indoor | NA | #REF! | —[2] | N/A | N/A | 0% |
| Note 7 | | | | Note 9 | | | | | Note 10 | | | Note 11 | | | | | Note 12 | | | | calculation | calculation | PD 2-2 to 2-4 | | calc, Note 5 | Note 4 | |
| ction/Off-Road Equipment | | | | Construction/Trips and VMT/# Trips/Worker(/day) | | | | | Operational - Off-Road Equip | | | Operational - Stationary Sources | | | | | Vegetation/Land Use Change/ Veg Land Use Type | | | | | | | | | | |

## Projections

| Site/Facility Type | Number of Current License Applications for New Cannabis Activities (as of 2016) | Percent of All Cultivation/Non-Cultivation Sites (%) |
|---|---|---|
| **Cultivation Sites** | | |
| 1-Outdoor | 61 | 9.1% |
| 2-Outdoor | 161 | 24.0% |
| 3-Outdoor | 147 | 21.9% |
| 1B-Mixed Light | 25 | 3.7% |
| 2B-Mixed Light | 123 | 18.3% |
| 3B-Mixed Light | 76 | 11.3% |
| 1A-Indoor | 31 | 4.6% |
| 2A-Indoor | 17 | 2.5% |
| 3A-Indoor | 30 | 4.5% |
| 1C-Specialty Cottage | N/A | N/A |
| Total | 671 | 100% |
| **Non-Cultivation Sites** | | |
| 4-Nursery (wholesale) | 78 | 29.0% |
| 6-Manufacturer 1 | 57 | 21.2% |
| 7-Manufacturer 2 | 43 | 16.0% |
| 8-Testing Laboratory | 4 | 1.5% |
| 10-Dispensary | 20 | 7.4% |
| 10A-Producing Dispensar | 4 | 1.5% |
| 11-Distributor | 44 | 16.4% |
| 12-Transport | 2 | 0.7% |
| Processing "microbusiness"? | 17 | 6.3% |
| Total | 269 | 100% |

Sources: PD Table 2-2

| | Cultivation Sites | Non-Cultivation Facilities | units | source | |
|---|---|---|---|---|---|
| license applications already received by the County | 671 | 269 | # | PD Table 2-2 and p.2-27 | |
| additional license applications anticipated within 3 years of the ordinance passing | 671 | 269 | # | PD p.2-27 | |
| New operations anticipated, total | 1,342 | 538 | # | summation; See Note 1 | These values are used to estimate operational emissions, which are compared to NCUAQMD's pound-per-day and tons-per-year thresholds. |
| Portion of new operations that would involve new construction | 100% | 50% | % | assumption | Can this be stated in the project description? |
| Percent of new operations constructed during first year | 50% | 50% | % | assumption | Can this be stated in the project description? |
| Number of new operations constructed during first year | 671 | 135 | # | calculation | These values are used to determine annual construction emissions, which are compared to NCUAQMD's tons-per-year thresholds. |
| length of construction season | 9 | 9 | months | assumption | |
| average number of operations under construction per month | 75 | 15 | operations/month | calculation | |
| ratio of peak-month construction activity to average-month construction activity | 2 | 2 | ratio | assumption | |
| peak number of operations under construction during same day | 149 | 30 | operations on pk day | calculation | These values are used to determine maximum daily construction emissions, which are compated to NCUAQMD's pound-per-day thresholds. |

Notes

1 As stated in the project description, "the mix of these new commercial cannabis uses would be similar to the application types received (see Table 2-1 and 2-2) and would involve 1,012 new commercial cannabis cultivation sites and 108 new commercial cannabis non-cultivation sites (e.g., testing, manufacturing, distribution, retail nurseries, and microbusinesses)." The number of new sites is not to be confused with the number of new operations because a site may host more than one operation.

## Construction Trips and VMT

1-Outdoor

| Phase Name | Daily Worker Trip | Days per Year | Total Worker Trips | Worker Trip Length (miles) | Total Worker Trip Length (miles) |
|---|---|---|---|---|---|
| Site Preparation | 2 | 1 | 2 | 16.80 | 33.6 |
| Grading | 3 | 3 | 9 | 16.80 | 151.20 |
| Building Construction | 3 | 10 | 30 | 16.80 | 504.00 |
| Architectural Coating | 2 | 3 | 6 | 16.80 | 100.80 |
| VMT Total | | | | | 789.60 |
| VMT Daily | | | | | 46.45 |

2-Outdoor

| Phase Name | Daily Worker Trip | Days per Year | Total Worker Trips | Worker Trip Length (miles) | Total Worker Trip Length (miles) |
|---|---|---|---|---|---|
| Site Preparation | 2 | 2 | 4 | 16.80 | 67.2 |
| Grading | 3 | 6 | 18 | 16.80 | 302.40 |
| Building Construction | 3 | 20 | 60 | 16.80 | 1,008.00 |
| Architectural Coating | 2 | 6 | 12 | 16.80 | 201.60 |
| VMT Total | | | | | 1,579.20 |
| VMT Daily | | | | | 46.45 |

3-Outdoor

| Phase Name | Daily Worker Trip | Days per Year | Total Worker Trips | Worker Trip Length (miles) | Total Worker Trip Length (miles) |
|---|---|---|---|---|---|
| Site Preparation | 2 | 4 | 8 | 16.80 | 134.4 |
| Grading | 3 | 12 | 36 | 16.80 | 604.80 |
| Building Construction | 3 | 40 | 120 | 16.80 | 2,016.00 |
| Architectural Coating | 2 | 12 | 24 | 16.80 | 403.20 |
| VMT Total | | | | | 3,158.40 |
| VMT Daily | | | | | 46.45 |

1B-Mixed Light

| Phase Name | Daily Worker Trip | Days per Year | Total Worker Trips | Worker Trip Length (miles) | Total Worker Trip Length (miles) |
|---|---|---|---|---|---|
| Site Preparation | 2 | 1 | 2 | 16.80 | 33.6 |
| Grading | 3 | 3 | 9 | 16.80 | 151.20 |
| Building Construction | 3 | 10 | 30 | 16.80 | 504.00 |
| Architectural Coating | 2 | 3 | 6 | 16.80 | 100.80 |
| VMT Total | | | | | 789.60 |
| VMT Daily | | | | | 46.45 |

2B-Mixed Light

| Phase Name | Daily Worker Trip | Days per Year | Total Worker Trips | Worker Trip Length (miles) | Total Worker Trip Length (miles) |
|---|---|---|---|---|---|
| Site Preparation | 2 | 2 | 4 | 16.80 | 67.2 |
| Grading | 3 | 6 | 18 | 16.80 | 302.40 |
| Building Construction | 3 | 20 | 60 | 16.80 | 1,008.00 |
| Architectural Coating | 2 | 6 | 12 | 16.80 | 201.60 |
| VMT Total | | | | | 1,579.20 |
| VMT Daily | | | | | 46.45 |

3B-Mixed Light

| Phase Name | Daily Worker Trip | Days per Year | Total Worker Trips | Worker Trip Length (miles) | Total Worker Trip Length (miles) |
|---|---|---|---|---|---|
| Site Preparation | 2 | 3 | 6 | 16.80 | 100.8 |
| Grading | 3 | 9 | 27 | 16.80 | 453.60 |
| Building Construction | 3 | 30 | 90 | 16.80 | 1,512.00 |
| Architectural Coating | 2 | 9 | 18 | 16.80 | 302.40 |
| VMT Total | | | | | 2,368.80 |
| VMT Daily | | | | | 46.45 |

1A-Indoor

| Phase Name | Daily Worker Trip | Days per Year | Total Worker Trips | Worker Trip Length (miles) | Total Worker Trip Length (miles) |
|---|---|---|---|---|---|
| Site Preparation | 2 | 1 | 2 | 16.80 | 33.6 |
| Grading | 3 | 3 | 9 | 16.80 | 151.20 |
| Building Construction | 3 | 30 | 90 | 16.80 | 1,512.00 |
| Paving | 18 | 5 | 90 | 16.80 | 1,512.00 |
| Architectural Coating | 2 | 6 | 12 | 16.80 | 201.60 |
| VMT Total | | | | | 3,410.40 |
| VMT Daily | | | | | 75.79 |

2A-Indoor

| Phase Name | Daily Worker Trip | Days per Year | Total Worker Trips | Worker Trip Length (miles) | Total Worker Trip Length (miles) |
|---|---|---|---|---|---|
| Site Preparation | 2 | 2 | 4 | 16.80 | 67.2 |
| Grading | 3 | 6 | 18 | 16.80 | 302.40 |
| Building Construction | 3 | 60 | 180 | 16.80 | 3,024.00 |
| Paving | 18 | 5 | 90 | 16.80 | 1,512.00 |
| Architectural Coating | 2 | 12 | 24 | 16.80 | 403.20 |
| VMT Total | | | | | 5,308.80 |
| VMT Daily | | | | | 62.46 |

3A-Indoor

| Phase Name | Daily Worker Trip | Days per Year | Total Worker Trips | Worker Trip Length (miles) | Total Worker Trip Length (miles) |
|---|---|---|---|---|---|
| Site Preparation | 2 | 3 | 6 | 16.80 | 100.8 |
| Grading | 3 | 9 | 27 | 16.80 | 453.60 |
| Building Construction | 3 | 100 | 300 | 16.80 | 5,040.00 |
| Paving | 18 | 5 | 90 | 16.80 | 1,512.00 |
| Architectural Coating | 2 | 24 | 48 | 16.80 | 806.40 |
| VMT Total | | | | | 7,912.80 |
| VMT Daily | | | | | 56.12 |

Non-Cultivation

| Phase Name | Daily Worker Trip | Days per Year | Total Worker Trips | Worker Trip Length (miles) | Total Worker Trip Length (miles) |
|---|---|---|---|---|---|
| Site Preparation | 5 | 1 | 5 | 16.80 | 84 |
| Grading | 10 | 2 | 20 | 16.80 | 336.00 |
| Building Construction | 5 | 10 | 50 | 16.80 | 840.00 |
| Paving | 18 | 5 | 90 | 16.80 | 1,512.00 |
| Architectural Coating | 1 | 5 | 5 | 16.80 | 84.00 |
| VMT Total | | | | | 2,856.00 |
| VMT Daily | | | | | 124.17 |

## Summary of Construction Emissions

(maximum daily emissions of criteria air pollutants and precursors and annual GHGs)

**Grow Site License Type: 1-Outdoor**

| Units: | ROG lb/day | ROG tons/year | NOx lb/day | NOx tons/year | PM10 lb/day | PM10 tons/year | PM2.5 lb/day | PM2.5 tons/year | CO lb/day | CO tons/year | SO2 lb/day | SO2 tons/year | CO2-e MT CO2/yr | source |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site Preparation | | | | | | | | | | | | | | |
| On-site | 0.2661 | 0.0001 | 2.6297 | 0.0013 | 0.1863 | 0.0001 | 0.1714 | 0.0001 | 2.3367 | 0.0012 | 0.0031 | 0.0000 | | CalEEMod run output: 1-Outdoor Summer |
| Off-site | 0.0238 | 0.0000 | 0.0245 | 0.0000 | 0.0051 | 0.0000 | 0.0070 | 0.0000 | 0.2019 | 0.0001 | 0.0003 | 0.0000 | | CalEEMod run output: 1-Outdoor Summer |
| Total | 0.2899 | 0.0001 | 2.6542 | 0.0013 | 0.1914 | 0.0001 | 0.1784 | 0.0001 | 2.5386 | 0.0013 | 0.0034 | 0.0000 | | summation |
| Grading | | | | | | | | | | | | | | |
| On-site | 0.6226 | 0.0009 | 7.6466 | 0.0115 | 0.4127 | 0.0006 | 0.3530 | 0.0005 | 3.4807 | 0.0052 | 0.0077 | 0.0000 | | CalEEMod run output: 1-Outdoor Summer |
| Off-site | 0.0357 | 0.0001 | 0.0368 | 0.0001 | 0.0077 | 0.0000 | 0.0105 | 0.0000 | 0.3029 | 0.0005 | 0.0004 | 0.0000 | | CalEEMod run output: 1-Outdoor Summer |
| Total | 0.6583 | 0.0010 | 7.6834 | 0.0116 | 0.4204 | 0.0007 | 0.3635 | 0.0005 | 3.7836 | 0.0057 | 0.0081 | 0.0000 | | summation |
| Building Construction | | | | | | | | | | | | | | |
| On-site | 0.8386 | 0.0042 | 7.2665 | 0.0363 | 0.4960 | 0.0025 | 0.4773 | 0.0024 | 6.4082 | 0.0320 | 0.0101 | 0.0001 | | CalEEMod run output: 1-Outdoor Summer |
| Off-site | 0.0357 | 0.0002 | 0.0368 | 0.0002 | 0.0077 | 0.0001 | 0.0105 | 0.0001 | 0.3029 | 0.0016 | 0.0004 | 0.0000 | | CalEEMod run output: 1-Outdoor Summer |
| Total | 0.8743 | 0.0044 | 7.3033 | 0.0365 | 0.5037 | 0.0026 | 0.4878 | 0.0024 | 6.7111 | 0.0336 | 0.0105 | 0.0001 | | summation |
| Architectural Coatings | | | | | | | | | | | | | | |
| On-site | 4.1611 | 0.0062 | 2.0058 | 0.0030 | 0.1506 | 0.0002 | 0.1506 | 0.0002 | 1.8542 | 0.0028 | 0.0030 | 0.0000 | | CalEEMod run output: 1-Outdoor Summer |
| Off-site | 0.0238 | 0.0000 | 0.0245 | 0.0000 | 0.0051 | 0.0000 | 0.0070 | 0.0000 | 0.2019 | 0.0003 | 0.0003 | 0.0000 | | CalEEMod run output: 1-Outdoor Summer |
| Total | 4.1849 | 0.0063 | 2.0303 | 0.0031 | 0.1557 | 0.0002 | 0.1576 | 0.0002 | 2.0561 | 0.0031 | 0.0032 | 0.0000 | | summation |
| **Maximum Daily** | **4.2** | | **7.7** | | **0.5** | | **0.5** | | **6.7** | | **0.01** | | N/A | max calculation |
| **Total During Constr** | N/A | **0.0** | N/A | **0.1** | N/A | **0.0** | N/A | **0.0** | N/A | **0.0** | N/A | **0.0** | **6.2936** | CalEEMod run output: 1-Outdoor Annual |
| **Vegetation Loss** | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | **0.6034** | CalEEMod run output: 1-Outdoor Annual |

**Grow Site License Type: 2-Outdoor**

| Units: | ROG lb/day | ROG tons/year | NOx lb/day | NOx tons/year | PM10 lb/day | PM10 tons/year | PM2.5 lb/day | PM2.5 tons/year | CO lb/day | CO tons/year | SO2 lb/day | SO2 tons/year | CO2-e MT CO2/yr | source |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site Preparation | | | | | | | | | | | | | | |
| On-site | 0.2661 | 0.0003 | 2.6297 | 0.0026 | 0.1863 | 0.0002 | 0.1714 | 0.0002 | 2.3367 | 0.0023 | 0.0031 | 0.0000 | | CalEEMod run output: 2-Outdoor Summer |
| Off-site | 0.0238 | 0.0000 | 0.0245 | 0.0000 | 0.0051 | 0.0000 | 0.0070 | 0.0000 | 0.2019 | 0.0002 | 0.0003 | 0.0000 | | CalEEMod run output: 2-Outdoor Summer |
| Total | 0.2899 | 0.0003 | 2.6542 | 0.0027 | 0.1914 | 0.0002 | 0.1784 | 0.0002 | 2.5386 | 0.0026 | 0.0034 | 0.0000 | | summation |
| Grading | | | | | | | | | | | | | | |
| On-site | 0.6226 | 0.0019 | 7.6466 | 0.0229 | 0.3747 | 0.0011 | 0.3314 | 0.0010 | 3.4807 | 0.0104 | 0.0077 | 0.0000 | | CalEEMod run output: 2-Outdoor Summer |
| Off-site | 0.0357 | 0.0001 | 0.0368 | 0.0001 | 0.0077 | 0.0001 | 0.0105 | 0.0000 | 0.3029 | 0.0009 | 0.0004 | 0.0000 | | CalEEMod run output: 2-Outdoor Summer |
| Total | 0.6583 | 0.0020 | 7.6834 | 0.0230 | 0.3824 | 0.0012 | 0.3419 | 0.0010 | 3.7836 | 0.0113 | 0.0081 | 0.0000 | | summation |
| Building Construction | | | | | | | | | | | | | | |
| On-site | 0.8386 | 0.0084 | 7.2665 | 0.0727 | 0.4960 | 0.0047 | 0.4773 | 0.0048 | 6.4082 | 0.0641 | 0.0101 | 0.0001 | | CalEEMod run output: 2-Outdoor Summer |
| Off-site | 0.0357 | 0.0004 | 0.0368 | 0.0004 | 0.0077 | 0.0003 | 0.0105 | 0.0001 | 0.3029 | 0.0031 | 0.0004 | 0.0000 | | CalEEMod run output: 2-Outdoor Summer |
| Total | 0.8743 | 0.0088 | 7.3033 | 0.0731 | 0.5037 | 0.0050 | 0.4878 | 0.0049 | 6.7111 | 0.0672 | 0.0105 | 0.0001 | | summation |
| Architectural Coatings | | | | | | | | | | | | | | |
| On-site | 2.2299 | 0.0067 | 2.0058 | 0.0060 | 0.1506 | 0.0005 | 0.1506 | 0.0005 | 1.8542 | 0.0056 | 0.0030 | 0.0000 | | CalEEMod run output: 2-Outdoor Summer |
| Off-site | 0.0238 | 0.0001 | 0.0245 | 0.0001 | 0.0051 | 0.0001 | 0.0070 | 0.0005 | 0.2019 | 0.0056 | 0.0003 | 0.0000 | | CalEEMod run output: 2-Outdoor Summer |
| Total | 2.2537 | 0.0068 | 2.0303 | 0.0061 | 0.1557 | 0.0005 | 0.1576 | 0.0009 | 2.0561 | 0.0111 | 0.0032 | 0.0000 | | summation |
| **Maximum Daily** | **2.3** | | **7.7** | | **0.5** | | **0.5** | | **6.7** | | **0.01** | | N/A | max calculation |
| **Total During Constr** | N/A | **0.0** | N/A | **0.1** | N/A | **0.0** | N/A | **0.0** | N/A | **0.1** | N/A | **0.0** | **12.5871** | CalEEMod run output: 2-Outdoor Annual |
| **Vegetation Loss** | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | **1.2499** | CalEEMod run output: 2-Outdoor Annual |

**Grow Site License Type: 3-Outdoor**

| Units: | ROG lb/day | ROG tons/year | NOx lb/day | NOx tons/year | PM10 lb/day | PM10 tons/year | PM2.5 lb/day | PM2.5 tons/year | CO lb/day | CO tons/year | SO2 lb/day | SO2 tons/year | CO2-e MT CO2/yr | source |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site Preparation | | | | | | | | | | | | | | |
| On-site | 0.2661 | 0.0005 | 2.6297 | 0.0053 | 0.1863 | 0.0004 | 0.1714 | 0.0003 | 2.3367 | 0.0047 | 0.0031 | 0.0000 | | CalEEMod run output: 3-Outdoor Summer |
| Off-site | 0.0238 | 0.0001 | 0.0245 | 0.0001 | 0.0051 | 0.0000 | 0.0070 | 0.0000 | 0.2019 | 0.0004 | 0.0003 | 0.0000 | | CalEEMod run output: 3-Outdoor Summer |
| Total | 0.2899 | 0.0006 | 2.6542 | 0.0053 | 0.1914 | 0.0004 | 0.1784 | 0.0004 | 2.5386 | 0.0051 | 0.0034 | 0.0000 | | summation |
| Grading | | | | | | | | | | | | | | |
| On-site | 0.6226 | 0.0037 | 7.6446 | 0.0459 | 0.3558 | 0.0021 | 0.3206 | 0.0019 | 3.4807 | 0.0209 | 0.0077 | 0.0001 | | CalEEMod run output: 3-Outdoor Summer |
| Off-site | 0.0357 | 0.0002 | 0.0368 | 0.0002 | 0.0077 | 0.0002 | 0.0105 | 0.0001 | 0.3029 | 0.0019 | 0.0004 | 0.0000 | | CalEEMod run output: 3-Outdoor Summer |
| Total | 0.6583 | 0.0040 | 7.6814 | 0.0461 | 0.3635 | 0.0023 | 0.3311 | 0.0020 | 3.7836 | 0.0228 | 0.0081 | 0.0001 | | summation |
| Building Construction | | | | | | | | | | | | | | |
| On-site | 0.8386 | 0.0168 | 7.2665 | 0.1453 | 0.4960 | 0.0099 | 0.4773 | 0.0096 | 6.4082 | 0.1282 | 0.0101 | 0.0002 | | CalEEMod run output: 3-Outdoor Summer |
| Off-site | 0.0357 | 0.0008 | 0.0368 | 0.0008 | 0.0077 | 0.0001 | 0.0105 | 0.0002 | 0.3029 | 0.0063 | 0.0004 | 0.0000 | | CalEEMod run output: 3-Outdoor Summer |
| Total | 0.8743 | 0.0176 | 7.3033 | 0.1461 | 0.5037 | 0.0101 | 0.4878 | 0.0098 | 6.7111 | 0.1345 | 0.0105 | 0.0002 | | summation |
| Architectural Coatings | | | | | | | | | | | | | | |
| On-site | 1.2643 | 0.0076 | 2.0058 | 0.0120 | 0.1506 | 0.0009 | 0.1506 | 0.0009 | 1.8542 | 0.0111 | 0.0030 | 0.0000 | | CalEEMod run output: 3-Outdoor Summer |
| Off-site | 0.0238 | 0.0002 | 0.0245 | 0.0002 | 0.0051 | 0.0001 | 0.0070 | 0.0000 | 0.2019 | 0.0013 | 0.0003 | 0.0000 | | CalEEMod run output: 3-Outdoor Summer |
| Total | 1.2881 | 0.0077 | 2.0303 | 0.0122 | 0.1557 | 0.0010 | 0.1576 | 0.0009 | 2.0561 | 0.0124 | 0.0032 | 0.0000 | | summation |
| **Maximum Daily** | **1.3** | | **7.7** | | **0.5** | | **0.5** | | **6.7** | | **0.01** | | N/A | max calculation |
| **Total During Constr** | N/A | **0.0** | N/A | **0.2** | N/A | **0.0** | N/A | **0.0** | N/A | **0.2** | N/A | **0.0** | **25.1742** | CalEEMod run output: 3-Outdoor Annual |
| **Vegetation Loss** | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | **5.1720** | CalEEMod run output: 3-Outdoor Annual |

**Grow Site License Type: 1B-Mixed Light**

| Units: | ROG lb/day | ROG tons/year | NOx lb/day | NOx tons/year | PM10 lb/day | PM10 tons/year | PM2.5 lb/day | PM2.5 tons/year | CO lb/day | CO tons/year | SO2 lb/day | SO2 tons/year | CO2-e MT CO2/yr | source |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site Preparation | | | | | | | | | | | | | | |
| On-site | 0.2661 | 0.0001 | 2.6297 | 0.0013 | 0.1863 | 0.0001 | 0.1714 | 0.0001 | 2.3367 | 0.0012 | 0.0031 | 0.0000 | | CalEEMod run output: 1B-Mixed Light Summer |
| Off-site | 0.0238 | 0.0000 | 0.0245 | 0.0000 | 0.0051 | 0.0000 | 0.0070 | 0.0000 | 0.2019 | 0.0001 | 0.0003 | 0.0000 | | CalEEMod run output: 1B-Mixed Light Summer |
| Total | 0.2899 | 0.0001 | 2.6542 | 0.0013 | 0.1914 | 0.0001 | 0.1784 | 0.0001 | 2.5386 | 0.0013 | 0.0034 | 0.0000 | | summation |
| Grading | | | | | | | | | | | | | | |
| On-site | 0.6226 | 0.0009 | 7.6466 | 0.0115 | 0.4127 | 0.0006 | 0.3530 | 0.0005 | 3.4807 | 0.0052 | 0.0077 | 0.0000 | | CalEEMod run output: 1B-Mixed Light Summer |
| Off-site | 0.0357 | 0.0001 | 0.0368 | 0.0001 | 0.0077 | 0.0000 | 0.0105 | 0.0000 | 0.3029 | 0.0005 | 0.0004 | 0.0000 | | CalEEMod run output: 1B-Mixed Light Summer |
| Total | 0.6583 | 0.0010 | 7.6834 | 0.0116 | 0.4204 | 0.0007 | 0.3635 | 0.0005 | 3.7836 | 0.0057 | 0.0081 | 0.0000 | | summation |
| Building Construction | | | | | | | | | | | | | | |
| On-site | 0.8386 | 0.0042 | 7.2665 | 0.0363 | 0.4960 | 0.0025 | 0.4773 | 0.0024 | 6.4082 | 0.0320 | 0.0101 | 0.0001 | | CalEEMod run output: 1B-Mixed Light Summer |
| Off-site | 0.0357 | 0.0002 | 0.0368 | 0.0002 | 0.0077 | 0.0001 | 0.0105 | 0.0001 | 0.3029 | 0.0016 | 0.0004 | 0.0000 | | CalEEMod run output: 1B-Mixed Light Summer |
| Total | 0.8743 | 0.0044 | 7.3033 | 0.0365 | 0.5037 | 0.0026 | 0.4878 | 0.0024 | 6.7111 | 0.0336 | 0.0105 | 0.0001 | | summation |
| Architectural Coatings | | | | | | | | | | | | | | |
| On-site | 4.1611 | 0.0062 | 2.0058 | 0.0030 | 0.1506 | 0.0002 | 0.1506 | 0.0002 | 1.8542 | 0.0028 | 0.0030 | 0.0000 | | CalEEMod run output: 1B-Mixed Light Summer |
| Off-site | 0.0238 | 0.0000 | 0.0245 | 0.0000 | 0.0051 | 0.0000 | 0.0070 | 0.0000 | 0.2019 | 0.0003 | 0.0003 | 0.0000 | | CalEEMod run output: 1B-Mixed Light Summer |
| Total | 4.1849 | 0.0063 | 2.0303 | 0.0031 | 0.1557 | 0.0003 | 0.1576 | 0.0002 | 2.0561 | 0.0031 | 0.0032 | 0.0000 | | summation |
| **Maximum Daily** | **4.2** | | **7.7** | | **0.5** | | **0.5** | | **6.7** | | **0.01** | | N/A | max calculation |
| **Total During Constr** | N/A | **0.0** | N/A | **0.1** | N/A | **0.0** | N/A | **0.0** | N/A | **0.0** | N/A | **0.0** | **6.2936** | CalEEMod run output: 1B-Mixed Light Annual |
| **Vegetation Loss** | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | **0.6034** | CalEEMod run output: 1B-Mixed Light Annual |

**Grow Site License Type: 2B-Mixed Light**

| Units: | ROG lb/day | ROG tons/year | NOx lb/day | NOx tons/year | PM10 lb/day | PM10 tons/year | PM2.5 lb/day | PM2.5 tons/year | CO lb/day | CO tons/year | SO2 lb/day | SO2 tons/year | CO2-e MT CO2/yr | source |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site Preparation | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| On-site | 0.2661 | 0.0003 | 2.6297 | 0.0026 | 0.1863 | 0.0002 | 0.1714 | 0.0002 | 2.3367 | 0.0023 | 0.0031 | 0.0000 | | CalEEMod run output: 2B-Mixed Light Summer |
| Off-site | 0.0238 | 0.0000 | 0.0245 | 0.0000 | 0.0051 | 0.0000 | 0.0070 | 0.0000 | 0.2019 | 0.0002 | 0.0003 | 0.0000 | | CalEEMod run output: 2B-Mixed Light Summer |
| Total | 0.2899 | 0.0003 | 2.6542 | 0.0027 | 0.1914 | 0.0002 | 0.1784 | 0.0002 | 2.5386 | 0.0026 | 0.0034 | 0.0000 | | summation |
| Grading | | | | | | | | | | | | | | |
| On-site | 0.6226 | 0.0019 | 7.6466 | 0.0229 | 0.3747 | 0.0011 | 0.3314 | 0.0010 | 3.4807 | 0.0104 | 0.0077 | 0.0000 | | CalEEMod run output: 2B-Mixed Light Summer |
| Off-site | 0.0357 | 0.0001 | 0.0368 | 0.0001 | 0.0077 | 0.0001 | 0.0105 | 0.0000 | 0.3029 | 0.0009 | 0.0004 | 0.0000 | | CalEEMod run output: 2B-Mixed Light Summer |
| Total | 0.6583 | 0.0020 | 7.6834 | 0.0230 | 0.3824 | 0.0012 | 0.3419 | 0.0010 | 3.7836 | 0.0113 | 0.0081 | 0.0000 | | summation |
| Building Construction | | | | | | | | | | | | | | |
| On-site | 0.8386 | 0.0084 | 7.2665 | 0.0727 | 0.4960 | 0.0050 | 0.4773 | 0.0048 | 6.4082 | 0.0641 | 0.0101 | 0.0001 | | CalEEMod run output: 2B-Mixed Light Summer |
| Off-site | 0.0357 | 0.0004 | 0.0368 | 0.0004 | 0.0077 | 0.0003 | 0.0105 | 0.0001 | 0.3029 | 0.0031 | 0.0004 | 0.0000 | | CalEEMod run output: 2B-Mixed Light Summer |
| Total | 0.8743 | 0.0088 | 7.3033 | 0.0731 | 0.5037 | 0.0053 | 0.4878 | 0.0049 | 6.7111 | 0.0672 | 0.0105 | 0.0001 | | summation |
| Architectural Coatings | | | | | | | | | | | | | | |
| On-site | 2.2299 | 0.0067 | 2.0058 | 0.0060 | 0.1506 | 0.0005 | 0.1506 | 0.0005 | 1.8542 | 0.0056 | 0.0030 | 0.0000 | | CalEEMod run output: 2B-Mixed Light Summer |
| Off-site | 0.0238 | 0.0001 | 0.0245 | 0.0001 | 0.0051 | 0.0001 | 0.0070 | 0.0000 | 0.2019 | 0.0006 | 0.0003 | 0.0000 | | CalEEMod run output: 2B-Mixed Light Summer |
| Total | 2.2537 | 0.0068 | 2.0303 | 0.0061 | 0.1557 | 0.0005 | 0.1576 | 0.0005 | 2.0561 | 0.0062 | 0.0032 | 0.0000 | | summation |
| **Maximum Daily** | **2.3** | | **7.7** | | **0.5** | | **0.5** | | **6.7** | | **0.01** | | N/A | max calculation |
| **Total During Constr** | N/A | **0.0** | N/A | **0.1** | N/A | **0.0** | N/A | **0.0** | N/A | **0.1** | N/A | **0.0** | **12.5871** | CalEEMod run output: 2B-Mixed Light Annual |
| **Vegetation Loss** | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | **1.2499** | CalEEMod run output: 2B-Mixed Light Annual |

**Grow Site License Type: 3B-Mixed Light**

| Units: | ROG lb/day | ROG tons/year | NOx lb/day | NOx tons/year | PM10 lb/day | PM10 tons/year | PM2.5 lb/day | PM2.5 tons/year | CO lb/day | CO tons/year | SO2 lb/day | SO2 tons/year | $CO_2$-e MT CO2/yr | source |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site Preparation | | | | | | | | | | | | | | |
| On-site | 0.2661 | 0.0004 | 2.6297 | 0.0039 | 0.1863 | 0.0003 | 0.1714 | 0.0003 | 2.3367 | 0.0035 | 0.0031 | 0.0000 | | CalEEMod run output: 3B-Mixed Light Summer |
| Off-site | 0.0238 | 0.0000 | 0.0245 | 0.0000 | 0.0051 | 0.0000 | 0.0070 | 0.0000 | 0.2019 | 0.0003 | 0.0003 | 0.0000 | | CalEEMod run output: 3B-Mixed Light Summer |
| Total | 0.2899 | 0.0004 | 2.6542 | 0.0040 | 0.1914 | 0.0003 | 0.1784 | 0.0003 | 2.5386 | 0.0038 | 0.0034 | 0.0000 | | summation |
| Grading | | | | | | | | | | | | | | |
| On-site | 0.6226 | 0.0028 | 7.6466 | 0.0344 | 0.3620 | 0.0016 | 0.3242 | 0.0015 | 3.4807 | 0.0157 | 0.0077 | 0.0000 | | CalEEMod run output: 3B-Mixed Light Summer |
| Off-site | 0.0357 | 0.0002 | 0.0368 | 0.0002 | 0.0077 | 0.0001 | 0.0105 | 0.0000 | 0.3029 | 0.0014 | 0.0004 | 0.0000 | | CalEEMod run output: 3B-Mixed Light Summer |
| Total | 0.6583 | 0.0030 | 7.6834 | 0.0346 | 0.3697 | 0.0018 | 0.3347 | 0.0015 | 3.7836 | 0.0171 | 0.0081 | 0.0000 | | summation |
| Building Construction | | | | | | | | | | | | | | |
| On-site | 0.8386 | 0.0126 | 7.2665 | 0.1090 | 0.4960 | 0.0074 | 0.4773 | 0.0072 | 6.4082 | 0.0961 | 0.0101 | 0.0002 | | CalEEMod run output: 3B-Mixed Light Summer |
| Off-site | 0.0357 | 0.0006 | 0.0368 | 0.0006 | 0.0077 | 0.0001 | 0.0105 | 0.0002 | 0.3029 | 0.0047 | 0.0004 | 0.0000 | | CalEEMod run output: 3B-Mixed Light Summer |
| Total | 0.8743 | 0.0132 | 7.3033 | 0.1096 | 0.5037 | 0.0076 | 0.4878 | 0.0073 | 6.7111 | 0.1008 | 0.0105 | 0.0002 | | summation |
| Architectural Coatings | | | | | | | | | | | | | | |
| On-site | 1.5861 | 0.0071 | 2.0058 | 0.0090 | 0.1506 | 0.0007 | 0.1506 | 0.0007 | 1.8542 | 0.0083 | 0.0030 | 0.0000 | | CalEEMod run output: 3B-Mixed Light Summer |
| Off-site | 0.0238 | 0.0001 | 0.0245 | 0.0001 | 0.0051 | 0.0001 | 0.0070 | 0.0000 | 0.2019 | 0.0009 | 0.0003 | 0.0000 | | CalEEMod run output: 3B-Mixed Light Summer |
| Total | 1.6099 | 0.0073 | 2.0303 | 0.0092 | 0.1557 | 0.0008 | 0.1576 | 0.0007 | 2.0561 | 0.0093 | 0.0032 | 0.0000 | | summation |
| **Maximum Daily** | **1.6** | | **7.7** | | **0.5** | | **0.5** | | **6.7** | | **0.01** | | N/A | max calculation |
| **Total During Constr** | N/A | **0.0** | N/A | **0.2** | N/A | **0.0** | N/A | **0.0** | N/A | **0.1** | N/A | **0.0** | **18.8807** | CalEEMod run output: 3B-Mixed Light Annual |
| **Vegetation Loss** | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | **2.6291** | CalEEMod run output: 3B-Mixed Light Annual |

**Grow Site License Type: 1A-Indoor**

| Units: | ROG lb/day | ROG tons/year | NOx lb/day | NOx tons/year | PM10 lb/day | PM10 tons/year | PM2.5 lb/day | PM2.5 tons/year | CO lb/day | CO tons/year | SO2 lb/day | SO2 tons/year | $CO_2$-e MT CO2/yr | source |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Paving | | | | | | | | | | | | | | |
| On-site | 0.9621 | 0.0024 | 8.7447 | 0.0219 | 0.5109 | 0.0013 | 0.4735 | 0.0012 | 7.2240 | 0.0181 | 0.0113 | 0.0000 | | |
| Off-site | 0.2140 | 0.0006 | 0.2207 | 0.0006 | 0.0461 | 0.0001 | 0.0632 | 0.0002 | 1.8171 | 0.0047 | 0.0023 | 0.0000 | | |
| Total | 1.1761 | 0.0030 | 8.9654 | 0.0225 | 0.5570 | 0.0014 | 0.5367 | 0.0013 | 9.0411 | 0.0228 | 0.0136 | 0.0000 | | |
| Site Preparation | | | | | | | | | | | | | | |
| On-site | 0.2661 | 0.0001 | 2.6297 | 0.0013 | 0.1863 | 0.0001 | 0.1714 | 0.0001 | 2.3367 | 0.0012 | 0.0031 | 0.0000 | | CalEEMod run output: 1A-Indoor Summer |
| Off-site | 0.0238 | 0.0000 | 0.0245 | 0.0000 | 0.0051 | 0.0000 | 0.0070 | 0.0000 | 0.2019 | 0.0001 | 0.0003 | 0.0000 | | CalEEMod run output: 1A-Indoor Summer |
| Total | 0.2899 | 0.0001 | 2.6542 | 0.0013 | 0.1914 | 0.0001 | 0.1784 | 0.0001 | 2.5386 | 0.0013 | 0.0034 | 0.0000 | | summation |
| Grading | | | | | | | | | | | | | | |
| On-site | 1.1420 | 0.0017 | 11.5616 | 0.0173 | 0.6796 | 0.0010 | 0.6200 | 0.0009 | 7.2048 | 0.0108 | 0.0140 | 0.0000 | | CalEEMod run output: 1A-Indoor Summer |
| Off-site | 0.0357 | 0.0001 | 0.0368 | 0.0001 | 0.0077 | 0.0000 | 0.0105 | 0.0000 | 0.3029 | 0.0005 | 0.0004 | 0.0000 | | CalEEMod run output: 1A-Indoor Summer |
| Total | 1.1777 | 0.0018 | 11.5984 | 0.0174 | 0.6873 | 0.0011 | 0.6305 | 0.0009 | 7.5077 | 0.0113 | 0.0144 | 0.0000 | | summation |
| Building Construction | | | | | | | | | | | | | | |
| On-site | 0.8386 | 0.0126 | 7.2665 | 0.1090 | 0.4960 | 0.0074 | 0.4773 | 0.0072 | 6.4082 | 0.0961 | 0.0101 | 0.0002 | | CalEEMod run output: 1A-Indoor Summer |
| Off-site | 0.0357 | 0.0006 | 0.0368 | 0.0006 | 0.0077 | 0.0001 | 0.0105 | 0.0002 | 0.3029 | 0.0047 | 0.0004 | 0.0000 | | CalEEMod run output: 1A-Indoor Summer |
| Total | 0.8743 | 0.0132 | 7.3033 | 0.1096 | 0.5037 | 0.0076 | 0.4878 | 0.0073 | 6.7111 | 0.1008 | 0.0105 | 0.0002 | | summation |
| Architectural Coatings | | | | | | | | | | | | | | |
| On-site | 2.2299 | 0.0067 | 2.0058 | 0.0060 | 0.1506 | 0.0005 | 0.1506 | 0.0005 | 1.8542 | 0.0056 | 0.0030 | 0.0000 | | CalEEMod run output: 1A-Indoor Summer |
| Off-site | 0.0238 | 0.0001 | 0.0245 | 0.0001 | 0.0051 | 0.0001 | 0.0070 | 0.0000 | 0.2019 | 0.0006 | 0.0003 | 0.0000 | | CalEEMod run output: 1A-Indoor Summer |
| Total | 2.2537 | 0.0068 | 2.0303 | 0.0061 | 0.1557 | 0.0005 | 0.1576 | 0.0005 | 2.0561 | 0.0062 | 0.0032 | 0.0000 | | summation |
| **Maximum Daily** | **2.3** | | **11.6** | | **0.7** | | **0.6** | | **7.5** | | **0.01** | | N/A | max calculation |
| **Total During Constr** | N/A | **0.0** | N/A | **0.1** | N/A | **0.0** | N/A | **0.0** | N/A | **0.1** | N/A | **0.0** | **19.6926** | CalEEMod run output: 1A-Indoor Annual |
| **Vegetation Loss** | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | **0.9482** | CalEEMod run output: 1A-Indoor Annual |

**Grow Site License Type: 2A-Indoor**

| Units: | ROG lb/day | ROG tons/year | NOx lb/day | NOx tons/year | PM10 lb/day | PM10 tons/year | PM2.5 lb/day | PM2.5 tons/year | CO lb/day | CO tons/year | SO2 lb/day | SO2 tons/year | $CO_2$-e MT CO2/yr | source |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Paving | | | | | | | | | | | | | | |
| On-site | 0.9936 | 0.0025 | 8.7447 | 0.0219 | 0.5109 | 0.0013 | 0.4735 | 0.0012 | 7.2240 | 0.0181 | 0.4735 | 0.0000 | | |
| Off-site | 0.2140 | 0.0006 | 0.2207 | 0.0006 | 0.0461 | 0.8100 | 0.0632 | 0.0002 | 1.8171 | 0.0047 | 0.0023 | 0.0000 | | |
| Total | 1.2076 | 0.0031 | 8.9654 | 0.0225 | 0.5570 | 0.8113 | 0.5367 | 0.0013 | 9.0411 | 0.0228 | 0.4758 | 0.0000 | | |
| Site Preparation | | | | | | | | | | | | | | |
| On-site | 0.2661 | 0.0003 | 2.6297 | 0.0026 | 0.1863 | 0.0002 | 0.1714 | 0.0002 | 2.3367 | 0.0023 | 0.0031 | 0.0000 | | CalEEMod run output: 2A-Indoor Summer |
| Off-site | 0.0238 | 0.0000 | 0.0245 | 0.0000 | 0.0051 | 0.0000 | 0.0070 | 0.0000 | 0.2019 | 0.0002 | 0.0003 | 0.0000 | | CalEEMod run output: 2A-Indoor Summer |
| Total | 0.2899 | 0.0003 | 2.6542 | 0.0027 | 0.1914 | 0.0002 | 0.1784 | 0.0002 | 2.5386 | 0.0026 | 0.0034 | 0.0000 | | summation |
| Grading | | | | | | | | | | | | | | |
| On-site | 1.1420 | 0.0034 | 11.5616 | 0.0347 | 0.6417 | 0.0019 | 0.5984 | 0.0018 | 7.2048 | 0.2016 | 0.0140 | 0.0000 | | CalEEMod run output: 2A-Indoor Summer |
| Off-site | 0.0357 | 0.0001 | 0.0368 | 0.0001 | 0.0077 | 0.0001 | 0.0105 | 0.0000 | 0.3029 | 0.0009 | 0.0004 | 0.0000 | | CalEEMod run output: 2A-Indoor Summer |
| Total | 1.1777 | 0.0036 | 11.5984 | 0.0348 | 0.6494 | 0.0020 | 0.6089 | 0.0018 | 7.5077 | 0.2025 | 0.0144 | 0.0000 | | summation |
| Building Construction | | | | | | | | | | | | | | |
| On-site | 0.8386 | 0.0252 | 7.2665 | 0.2180 | 0.4960 | 0.0149 | 0.4773 | 0.0143 | 6.4082 | 0.1923 | 0.0101 | 0.0003 | | CalEEMod run output: 2A-Indoor Summer |
| Off-site | 0.0357 | 0.0012 | 0.0368 | 0.0012 | 0.0077 | 0.0002 | 0.0105 | 0.0003 | 0.3029 | 0.0094 | 0.0004 | 0.0000 | | CalEEMod run output: 2A-Indoor Summer |
| Total | 0.8743 | 0.0264 | 7.3033 | 0.2192 | 0.5037 | 0.0151 | 0.4878 | 0.0146 | 6.7111 | 0.2017 | 0.0105 | 0.0003 | | summation |
| Architectural Coatings | | | | | | | | | | | | | | |
| On-site | 1.2643 | 0.0076 | 2.0058 | 0.0120 | 0.1506 | 0.0009 | 0.1506 | 0.0009 | 1.8542 | 0.0111 | 0.0030 | 0.0000 | | CalEEMod run output: 2A-Indoor Summer |
| Off-site | 0.0238 | 0.0002 | 0.0245 | 0.0002 | 0.0051 | 0.0001 | 0.0070 | 0.0000 | 0.2019 | 0.0013 | 0.0003 | 0.0000 | | CalEEMod run output: 2A-Indoor Summer |
| Total | 1.2881 | 0.0077 | 2.0303 | 0.0122 | 0.1557 | 0.0010 | 0.1576 | 0.0009 | 2.0561 | 0.0124 | 0.0032 | 0.0000 | | summation |
| **Maximum Daily** | **1.3** | | **11.6** | | **0.6** | | **0.6** | | **7.5** | | **0.01** | | N/A | max calculation |
| **Total During Constr** | N/A | **0.0** | N/A | **0.3** | N/A | **0.8** | N/A | **0.0** | N/A | **0.4** | N/A | **0.0** | **36.4209** | CalEEMod run output: 2A-Indoor Annual |
| **Vegetation Loss** | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | **1.8533** | CalEEMod run output: 2A-Indoor Annual |

**Grow Site License Type: 3A-Indoor**

| Units: | ROG lb/day | ROG tons/year | NOx lb/day | NOx tons/year | PM10 lb/day | PM10 tons/year | PM2.5 lb/day | PM2.5 tons/year | CO lb/day | CO tons/year | SO2 lb/day | SO2 tons/year | $CO_2$-e MT CO2/yr | source |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Paving | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| On-site | 1.0355 | 0.0026 | 8.7447 | 0.0219 | 0.5109 | 0.0013 | 0.4735 | 0.0012 | 7.2240 | 0.0181 | 0.4735 | 0.0000 | | |
| Off-site | 0.2140 | 0.0006 | 0.2207 | 0.0006 | 0.0461 | 0.0001 | 0.0632 | 0.0002 | 1.8171 | 0.0047 | 0.0023 | 0.0000 | | |
| Total | 1.2495 | 0.0032 | 8.9654 | 0.0225 | 0.5570 | 0.0014 | 0.5367 | 0.0013 | 9.0411 | 0.0228 | 0.4758 | 0.0000 | | |
| Site Preparation | | | | | | | | | | | | | | |
| On-site | 0.2661 | 0.0039 | 2.6297 | 0.0039 | 0.1863 | 0.0003 | 0.1714 | 0.0003 | 2.3367 | 0.0035 | 0.0031 | 0.0000 | | CalEEMod run output: 3A-Indoor Summer |
| Off-site | 0.0238 | 0.0000 | 0.0245 | 0.0000 | 0.0051 | 0.0000 | 0.0070 | 0.0000 | 0.2019 | 0.0003 | 0.0003 | 0.0000 | | CalEEMod run output: 3A-Indoor Summer |
| Total | 0.2899 | 0.0040 | 2.6542 | 0.0040 | 0.1914 | 0.0003 | 0.1784 | 0.0003 | 2.5386 | 0.0038 | 0.0034 | 0.0000 | | summation |
| Grading | | | | | | | | | | | | | | |
| On-site | 1.1420 | 0.0051 | 11.5616 | 0.0520 | 0.6290 | 0.0028 | 0.5912 | 0.0027 | 7.2048 | 0.0324 | 0.0140 | 0.0001 | | CalEEMod run output: 3A-Indoor Summer |
| Off-site | 0.0357 | 0.0002 | 0.0368 | 0.0002 | 0.0077 | 0.0001 | 0.0105 | 0.0000 | 0.3029 | 0.0014 | 0.0004 | 0.0000 | | CalEEMod run output: 3A-Indoor Summer |
| Total | 1.1777 | 0.0053 | 11.5984 | 0.0522 | 0.6367 | 0.0030 | 0.6017 | 0.0027 | 7.5077 | 0.0338 | 0.0144 | 0.0001 | | summation |
| Building Construction | | | | | | | | | | | | | | |
| On-site | 0.8386 | 0.0419 | 7.2665 | 0.3633 | 0.4960 | 0.0248 | 0.4773 | 0.0239 | 6.4082 | 0.3204 | 0.0101 | 0.0005 | | CalEEMod run output: 3A-Indoor Summer |
| Off-site | 0.0357 | 0.0020 | 0.0368 | 0.0020 | 0.0077 | 0.0004 | 0.0105 | 0.0005 | 0.3029 | 0.0156 | 0.0004 | 0.0000 | | CalEEMod run output: 3A-Indoor Summer |
| Total | 0.8743 | 0.0439 | 7.3033 | 0.3653 | 0.5037 | 0.0252 | 0.4878 | 0.0244 | 6.7111 | 0.3360 | 0.0105 | 0.0005 | | summation |
| Architectural Coatings | | | | | | | | | | | | | | |
| On-site | 0.7814 | 0.0094 | 2.0058 | 0.0241 | 0.1506 | 0.0018 | 0.1506 | 0.0018 | 1.8542 | 0.0223 | 0.0030 | 0.0000 | | CalEEMod run output: 3A-Indoor Summer |
| Off-site | 0.0238 | 0.0003 | 0.0245 | 0.0003 | 0.0051 | 0.0002 | 0.0070 | 0.0001 | 0.2019 | 0.0025 | 0.0003 | 0.0000 | | CalEEMod run output: 3A-Indoor Summer |
| Total | 0.8052 | 0.0097 | 2.0303 | 0.0244 | 0.1557 | 0.0020 | 0.1576 | 0.0019 | 2.0561 | 0.0248 | 0.0032 | 0.0000 | | summation |
| **Maximum Daily** | **1.2** | | **11.6** | | **0.6** | | **0.6** | | **7.5** | | **0.01** | | N/A | max calculation |
| **Total During Constr** | N/A | **0.1** | N/A | **0.5** | N/A | **0.0** | N/A | **0.0** | N/A | **0.4** | N/A | **0.0** | **58.5904** | CalEEMod run output: 3A-Indoor Annual |
| **Vegetation Loss** | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | **3.5773** | CalEEMod run output: 3A-Indoor Annual |

**Non-Cultivation Facilities- 4-Nursery, 6-Manufacturer1, 7-Manufacturer2, 8-Testing Laboratory, 10-Dispensary, 10A-Producing Dispensary, 11-Distributor, 12-Transport, and/or Processing Facilities**

| Units: | ROG lb/day | ROG tons/year | NOx lb/day | NOx tons/year | PM10 lb/day | PM10 tons/year | PM2.5 lb/day | PM2.5 tons/year | CO lb/day | CO tons/year | SO2 lb/day | SO2 tons/year | CO2-e MT CO2/yr | source |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site Preparation | | | | | | | | | | | | | | |
| On-site | 0.7858 | 0.0004 | 9.7572 | 0.0049 | 0.9483 | 0.0005 | 0.4418 | 0.0002 | 4.2514 | 0.0021 | 0.0098 | 0.0000 | | CalEEMod run output: Non-Cultivation Facilities-Summer |
| Off-site | 0.0423 | 0.0000 | 0.0412 | 0.0000 | 0.0004 | 0.0000 | 0.0113 | 0.0000 | 0.3480 | 0.0002 | 0.0004 | 0.0000 | | CalEEMod run output: 4-Nursery, 6-Manufacturer1, 7-Manufacturer2, 8-Testing Laboratory, 10-Dispensary, 10A-Producing Dispensary, 11-Distributor, 12-Transport, and/or Processing Facilities Summer |
| Total | 0.8281 | 0.0004 | 9.7984 | 0.0049 | 0.9487 | 0.0005 | 0.4531 | 0.0002 | 4.5994 | 0.0023 | 0.0102 | 0.0000 | | summation |
| Grading | | | | | | | | | | | | | | |
| On-site | 1.6043 | 0.0011 | 9.4295 | 0.0094 | 1.3755 | 0.0014 | 1.0081 | 0.0010 | 7.7762 | 0.0078 | 0.0120 | 0.0000 | | CalEEMod run output: 4-Nursery, 6-Manufacturer1, 7-Manufacturer2, 8-Testing Laboratory, 10-Dispensary, 10A-Producing Dispensary, 11-Distributor, 12-Transport, and/or Processing Facilities Summer |
| Off-site | 0.0845 | 0.0001 | 0.0824 | 0.0001 | 0.0830 | 0.0001 | 0.0226 | 0.0000 | 0.6961 | 0.0007 | 0.0008 | 0.0000 | | CalEEMod run output: 4-Nursery, 6-Manufacturer1, 7-Manufacturer2, 8-Testing Laboratory, 10-Dispensary, 10A-Producing Dispensary, 11-Distributor, 12-Transport, and/or Processing Facilities Summer |
| Total | 1.6888 | 0.0012 | 9.5119 | 0.0095 | 1.4585 | 0.0015 | 1.0307 | 0.0010 | 8.4723 | 0.0085 | 0.0128 | 0.0000 | | summation |
| Building Construction | | | | | | | | | | | | | | |
| On-site | 1.0848 | 0.0542 | 11.0316 | 0.0552 | 0.7087 | 0.0354 | 0.6520 | 0.0326 | 7.7512 | 0.0388 | 0.0114 | 0.0001 | | CalEEMod run output: 4-Nursery, 6-Manufacturer1, 7-Manufacturer2, 8-Testing Laboratory, 10-Dispensary, 10A-Producing Dispensary, 11-Distributor, 12-Transport, and/or Processing Facilities Summer |
| Off-site | 0.0586 | 0.0003 | 0.3544 | 0.0018 | 0.0585 | 0.0027 | 0.0185 | 0.0001 | 0.4451 | 0.0023 | 0.0010 | 0.0000 | | CalEEMod run output: 4-Nursery, 6-Manufacturer1, 7-Manufacturer2, 8-Testing Laboratory, 10-Dispensary, 10A-Producing Dispensary, 11-Distributor, 12-Transport, and/or Processing Facilities Summer |
| Total | 1.1434 | 0.0545 | 11.3860 | 0.0570 | 0.7672 | 0.0381 | 0.6705 | 0.0327 | 8.1963 | 0.0411 | 0.0124 | 0.0001 | | summation |
| Paving | | | | | | | | | | | | | | |
| On-site | 0.9778 | 0.0024 | 8.7447 | 0.0219 | 0.5109 | 0.0013 | 0.4735 | 0.0012 | 7.2240 | 0.0181 | 0.0113 | 0.0000 | | |
| Off-site | 0.1521 | 0.0004 | 0.1483 | 0.0004 | 0.1495 | 0.0003 | 0.0407 | 0.0001 | 1.2529 | 0.0033 | 0.0015 | 0.0000 | | |
| Total | 1.1299 | 0.0029 | 8.8930 | 0.0223 | 0.6604 | 0.0016 | 0.5142 | 0.0013 | 8.4769 | 0.0214 | 0.0128 | 0.0000 | | |
| Architectural Coatings | | | | | | | | | | | | | | |
| On-site | 3.1129 | 0.1183 | 2.0058 | 0.0050 | 0.1506 | 0.0004 | 0.1506 | 0.0004 | 1.8542 | 0.0046 | 0.0030 | 0.0000 | | CalEEMod run output: 4-Nursery, 6-Manufacturer1, 7-Manufacturer2, 8-Testing Laboratory, 10-Dispensary, 10A-Producing Dispensary, 11-Distributor, 12-Transport, and/or Processing Facilities Summer |
| Off-site | 0.0085 | 0.0000 | 0.0082 | 0.0000 | 0.0083 | 0.0000 | 0.0023 | 0.0000 | 0.0696 | 0.0002 | 0.0001 | 0.0000 | | CalEEMod run output: 4-Nursery, 6-Manufacturer1, 7-Manufacturer2, 8-Testing Laboratory, 10-Dispensary, 10A-Producing Dispensary, 11-Distributor, 12-Transport, and/or Processing Facilities Summer |
| Total | 3.1214 | 0.1183 | 2.0140 | 0.0050 | 0.1589 | 0.0004 | 0.1529 | 0.0004 | 1.9238 | 0.0048 | 0.0031 | 0.0000 | | summation |
| **Maximum Daily** | **3.1** | | **11.4** | | **1.5** | | **1.0** | | **8.5** | | **0.01** | | N/A | max calculation |
| **Total During Constr** | N/A | **0.2** | N/A | **0.1** | N/A | **0.0** | N/A | **0.0** | N/A | **0.1** | N/A | **0.0** | **62.0037** | CalEEMod run output: 4-Nursery, 6-Manufacturer1, 7-Manufacturer2, 8-Testing Laboratory, 10-Dispensary, 10A-Producing Dispensary, 11-Distributor, 12-Transport, and/or Processing Facilities Annual |
| **Vegetation Loss** | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | **0.9913** | CalEEMod run output: 4-Nursery, 6-Manufacturer1, 7-Manufacturer2, 8-Testing Laboratory, 10-Dispensary, 10A-Producing Dispensary, 11-Distributor, 12-Transport, and/or Processing Facilities Annual |

**Architectural Coatings Adjustment**

| Phase | umber of Days |
|---|---|
| Site Prep | 1 |
| Grading | 2 |
| Building Constructio | 100 |
| Paving | 5 |
| Arch Coating | 5 |
| CalEEMod arch coating output | 47.3161 |
| Adjusted arch coating days (Adjusted based on 2/3 building days plus paving and arch coating) | 76.0000 |
| | 236.5805 |
| ROG (lb/day) | 3.1129 |

## Summary of Operational Emissions

(maximum daily emissions of criteria air pollutants and precursors and annual GHGs)

**Grow Site License Type: 1-Outdoor**

| | ROG | ROG | NOx | NOx | PM10 | PM10 | PM2.5 | PM2.5 | CO | CO | SO2 | SO2 | $CO_2$-e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units: | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | MT CO2/yr |
| Area | 0.0139 | 0.0025 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0001 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.01 | 0.00 | 0.0 | 0.00 | 0.00 | 0.000 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

**Grow Site License Type: 2-Outdoor**

| | ROG | ROG | NOx | NOx | PM10 | PM10 | PM2.5 | PM2.5 | CO | CO | SO2 | SO2 | $CO_2$-e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units: | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | MT CO2/yr |
| Area | 0.0246 | 0.0045 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0001 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

**Grow Site License Type: 3-Outdoor**

| | ROG | ROG | NOx | NOx | PM10 | PM10 | PM2.5 | PM2.5 | CO | CO | SO2 | SO2 | $CO_2$-e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units: | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | MT CO2/yr |
| Area | 0.0417 | 0.0076 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0002 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

**Grow Site License Type: 1B-Mixed Light**

| | ROG | ROG | NOx | NOx | PM10 | PM10 | PM2.5 | PM2.5 | CO | CO | SO2 | SO2 | $CO_2$-e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units: | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | MT CO2/yr |
| Area | 0.0139 | 0.0025 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0001 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

**Grow Site License Type: 2B-Mixed Light**

| | ROG | ROG | NOx | NOx | PM10 | PM10 | PM2.5 | PM2.5 | CO | CO | SO2 | SO2 | $CO_2$-e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units: | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | MT CO2/yr |
| Area | 0.0246 | 0.0045 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0001 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

**Grow Site License Type: 3B-Mixed Light**

| | ROG | ROG | NOx | NOx | PM10 | PM10 | PM2.5 | PM2.5 | CO | CO | SO2 | SO2 | $CO_2$-e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units: | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | MT CO2/yr |
| Area | 0.0322 | 0.0061 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0001 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

**Grow Site License Type: 1A-Indoor**

| | ROG | ROG | NOx | NOx | PM10 | PM10 | PM2.5 | PM2.5 | CO | CO | SO2 | SO2 | $CO_2$-e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units: | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | MT CO2/yr |
| Area | 0.1221 | 0.0223 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0014 | 0.0001 | 0.0000 | 0.0000 | 0.0003 |
| Total | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

**Grow Site License Type: 2A-Indoor**

| | ROG | ROG | NOx | NOx | PM10 | PM10 | PM2.5 | PM2.5 | CO | CO | SO2 | SO2 | $CO_2$-e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units: | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | MT CO2/yr |
| Area | 0.2411 | 0.0440 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0028 | 0.0003 | 0.0000 | 0.0000 | 0.0005 |
| Total | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

**Grow Site License Type: 3A-Indoor**

| | ROG | ROG | NOx | NOx | PM10 | PM10 | PM2.5 | PM2.5 | CO | CO | SO2 | SO2 | $CO_2$-e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units: | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | MT CO2/yr |
| Area | 0.5078 | 0.0926 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0049 | 0.0004 | 0.0000 | 0.0000 | 0.0009 |
| Total | 0.5 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

**Non-Cultivation Facilities- 4-Nursery, 6-Manufacturer1, 7-Manufacturer2, 8-Testing Laboratory, 10-Dispensary, 10A-Producing Dispensary, 11-Distributor, 12-Transport, and/or Processing Facilities**

| | ROG | ROG | NOx | NOx | PM10 | PM10 | PM2.5 | PM2.5 | CO | CO | SO2 | SO2 | $CO_2$-e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units: | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | lb/day | tons/year | MT CO2/yr |
| Area | 0.2803 | 0.0511 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0023 | 0.0002 | 0.0000 | 0.0000 | 0.0004 |
| Energy | 0.0010 | 0.0002 | 0.0095 | 0.0017 | 0.0007 | 0.0001 | 0.0007 | 0.0001 | 0.0080 | 0.0015 | 0.0001 | 0.0000 | 1.8949 |
| Total | 0.3 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 |

# Road Dust Adjustment

## Unpaved Road Emissions - Operational

| | | |
|---|---|---|
| Unpaved Daily VMT | 81 | per cultivation site |
| Rainfall Adjustment | 0.6685 | |
| PM10 (lb/day) | 108.2989638 | per cultivation site |
| Unpaved Annual VMT | 10,948.56 | per cultivation site |
| PM10 (tons/year) | 7.31911236 | per cultivation site |

## Unpaved Road Emissions - Construction

| | |
|---|---|
| Unpaved Daily VMT | 191.18 |
| Rainfall Adjustment | 0.6685 |
| PM10 (lb/day) | 0.13 |

| **PAVED MILES** | | |
|---|---|---|
| Local | 4030.917952 | Source: Humboldt County GIS |
| LOCAL | 0.218552452 | |
| Local Roads | 0.048783235 | |
| Major Rural Collector | 343.8206771 | |
| Minor Rural Collector | 149.5161043 | |
| Minor Urban Arterial | 17.19488609 | |
| Minor Urban Collector | 18.30857107 | |
| Private | 1249.650026 | |
| Rural Connector | 92.19787934 | |
| Rural Minor Arterial | 8.530663025 | |
| Rural Principal Arterial | 180.2019426 | |
| Urban Principal Arterial | 31.89299059 | |
| Total | 4872.849002 | |

| **UNPAVED MILES** | | Source: https://www.arb.ca.gov/ei/areasrc/fullpdf/full7-10_2012.pdf |
|---|---|---|
| City/County | 725 | |
| USFS/Parks | 300.5 | |
| BLM/BIA | 147.4 | |
| Total | 1172.9 | |

| **PRECIPITATION DAYS** | | |
|---|---|---|
| Humboldt County | 121 | Source: https://www.arb.ca.gov/ei/areasrc/fullpdf/full7-9_2016.pdf, Table 8 |

## Mobile-Source Emissions

## Vehicle Miles Traveled

| | value | units | source |
|---|---|---|---|
| Earliest operational year | 2018 | calendar yr | County staff |
| Transportation region | Humboldt County | | project description |
| Non-residential trip length, C-W trip (default) | 14.7 | miles/trip | CalEEMod, Operational-Mobile module, Vehicle Trips tab |
| | | | |
| Cumulative Maximum Daily Trips | 31,897 | trips/day | wksht: Cumulative Harvest |
| Cumulative Maximum Daily VMT | 468,879 | VMT/day | calculation |
| | | | |
| Daily VMT per cultivation site | **426** | VMT/day | wksht: Harvest |
| | | | |
| Harvest Period Trips per cultivation site | 1,920 | trips/year | |
| Non-Harvest Period Trips per cultivation site | 2,000 | trips/year | |
| Total Annual Trips per cultivation site | 3,920 | trips/year | |
| Annual VMT per cultivation site | **57,624** | VMT/year | |

Vehicle Types

| types of vehicles making trps | LDA | LDT1 | LDT2 | units | source |
|---|---|---|---|---|---|
| default fleet mix in CalEEMod | 0.469869 | 0.051968 | 0.208218 | % | EMFAC |
| adjusted fleet mix | 64% | 7% | 29% | % | weighted average |

## Operational Mobile-Source Emissions

| | ROG | NOx | PM10 | PM2.5 | CO2-e |
|---|---|---|---|---|---|
| Daily Emissions per cultivation site (lb/day) | 0.0011098 | 0.001096155 | 0.0002144 | 9.109E-05 | 1.4821919 |
| Annual Emissions per cultivation site (tons/year) | 0.0390947 | 0.038614814 | 0.0075532 | 0.0032088 | 52.213916 |

## Cumulative Mobile-Source Emissions

| | ROG | NOx | PM10 | PM2.5 | source |
|---|---|---|---|---|---|
| | lb/day | lb/day | lb/day | lb/day | |
| Maximum Daily Emissions | 1.2205538 | 1.205572106 | 0.2358132 | 0.1001812 | EMFAC run |
| Annual Emissions (tons/year) | 72.249312 | 71.36248416 | 13.9587 | 5.9301108 | EMFAC run |

| | |
|---|---|
| gram to poui | 0.002205 |
| pounds to M | 0.000454 |
| pounds to to | 0.0005 |

Net Work Days
1/1/2018
12/31/2018
261

## Harvest VMT - Operational

| Operation Type | Number | Employees | Daily Trips | Additional | Daily Trips | Annual Harvest Trips |
|---|---|---|---|---|---|---|
| New Cultivation Sites[1] | 1 | 15 | 2 | 2 | 32 | 1920 |
| New Remote Cultivation Sites[2] | 1 | 15 | 0.25 | 2 | 6 | 345 |
| New Non-Cultivation Sites (New Processing, Manufacturing, Distribution, and Dispensary Sites) | 1 | 15 | 2 | 0 | 30 | 1800 |
| | | | | **Total Annual Harvest Days** | **60** | |
| | | | | **Total Harvest Trips** | **4065** | **243900** |
| [1]Number of new cultivation sites within approximately 15 miles of existing communities and lodging located along Highway 101, SR 36, and SR 299. It is assumed that employees for these sites will | | | | | | |
| [2]Number of new cultivation sites farther than approximately 15 miles of existing communities and lodging located along Highway 101, SR 36, and SR 299. It is assumed that employees having to | | | | | | |

Analyzed for peak harvest period during which the most traffic trips would be generated. This includes cultivation site traffic and operational traffic from all other cannabis related operations (preocessing, manufacturing, distribution, etc...)

Cultivation Site Assumptions

Harvest at new cultivation sites conservatively assumed to all take place simultaneously

15 full-time harvest employees for cultivation sites

1 delivery trip (roundtrip) per day per cultivation site (this was not included for non-cultivation sites as to not double count such activities)

Assumed that new cultivation sites over 15 miles from a major highway (where seasonal workers would live on site) would experience reduced generate daily trips (.25 trips/employee per day)

870 New Cultivation Sites in first 3 years (=435*2)

142 New RemoteCultivation Sites in first 3 years (=71*2)

All other cannabis related operations (preocessing, manufacturing, distribution, etc...) assuptions

115 full-time harvest employees for all other cannabis related operations (preocessing, manufacturing, distribution, etc...)

108 New" all other" sites in first 3 years (=54*2)

Harvest

Each harvest is assumed to span 4 weeks

It is conservatively assumed that operations will average 3 harvest per year (basd on PD)

It is assumed that during harvest employees will work 5 days per week

## Non-Harvest VMT - Operational

| Operation Type | Number | Employees | Daily Trips | Additional | Daily Trips | Annual Non-Harvest Trips |
|---|---|---|---|---|---|---|
| New Cultivation Sites[1] | 1 | 4 | 2 | 2 | 10 | 2000 |
| New Remote Cultivation Sites[2] | 1 | 4 | 0.25 | 2 | 3 | 600 |
| New Non-Cultivation Sites (New Processing, Manufacturing, Distribution, and Dispensary Sites) | 1 | 4 | 2 | 0 | 8 | 1600 |
| | | | | Total Annual Non-Harvest Work Days | 200 | |
| [1]Number of new cultivation sites within approximately 15 miles of existing communities and lodging located along Highway 101, SR 36, and SR 299. It is assumed that employees for these sites will | | | | | | |
| [2]Number of new cultivation sites farther than approximately 15 miles of existing communities and lodging located along Highway 101, SR 36, and SR 299. It is assumed that employees having to travel to | | | | | | |

Cultivation Site Assumptions
4 full-time employees for cultivation sites
1 delivery trip (roundtrip) per day per cultivation site (this was not included for non-cultivation sites as to not double count such activities)
Assumed that new cultivation sites over 15 miles from a major highway (where workers would live on site) would experience reduced generate daily trips (.25 trips/employee per day)
870 New Cultivation Sites in first 3 years (=435*2)
142 New Remote Cultivation Sites in first 3 years (=71*2)

All other cannabis related operations (preocessing, manufacturing, distribution, etc...) assuptions
4 full-time year round employees for all other cannabis related operations (preocessing, manufacturing, distribution, etc...)
100% of all other cannabis related operations (preocessing, manufacturing, distribution, etc...) would be generated by current residents
108 New" all other" sites in first 3 years (=54*2)

Other Assumptions
It is assumed that employees will work 5 days per week

# Appendix C

## Energy Calculations

## EMFAC Run

| calendar_y | season_mc | sub_area | vehicle_cla | fuel | VMT | g/mi ROG | g/mi NOx | g/mi PM10 | g/mi PM2.5 | g/mi CO2 | g/mi CH4 | fuel |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2018 | Annual | Humboldt I | LDA | Gas | 1480522 | 0.327033 | 0.311988 | 0.077032 | 0.032648 | 498.393 | 0.025878 | 53.61604 |
| 2018 | Annual | Humboldt I | LDA | Dsl | 21911.26 | 0.001541 | 0.014339 | 0.002108 | 0.001411 | 7.248063 | 7.16E-05 | 0.652326 |
| 2018 | Annual | Humboldt I | LDA | Elec | 16616.32 | 1.49E-05 | | 0.00082 | 0.000325 | 84.34557 | | |
| 2018 | Annual | Humboldt I | LDT1 | Gas | 204709.8 | 0.241803 | 0.181375 | 0.011644 | 0.005429 | 84.34557 | 0.015852 | 9.301107 |
| 2018 | Annual | Humboldt I | LDT2 | Gas | 696867.4 | 0.301456 | 0.335942 | 0.0364 | 0.015498 | 324.0993 | 0.020145 | 34.92573 |
| 2018 | Annual | Humboldt I | LDT1 | Dsl | 405.8477 | 0.000127 | 0.000693 | 0.000123 | 0.000106 | 0.179235 | 5.88E-06 | 0.016131 |
| 2018 | Annual | Humboldt I | LDT2 | Dsl | 889.897 | 2.69E-05 | 8.63E-05 | 5.88E-05 | 3.17E-05 | 0.353669 | 1.25E-06 | 0.03183 |
| 2018 | Annual | Humboldt I | LDT1 | Elec | 293.8259 | 4.14E-07 | | 1.45E-05 | 5.75E-06 | | | |
| | | | LDA | | | 0.318761 | 0.304281 | 0.075118 | 0.031844 | 486.7794 | 0.025223 | |
| | | | LDT1 | | | 0.287405 | 0.300318 | 0.030725 | 0.013189 | 269.1873 | 0.019136 | |
| | | | LDT2 | | | 0.300897 | 0.335319 | 0.036333 | 0.015469 | 323.4983 | 0.020107 | |

## Fuel Usage Calculations

| | 1-Outdoor | 2-Outdoor | 3-Outdoor | 1B-Mixed Light | 2B-Mixed Light | 3B-Mixed Light | 1A-Indoor | 2A-Indoor | 3A-Indoor | Non-Cultivation |
|---|---|---|---|---|---|---|---|---|---|---|
| **Construction Off-Road Equipment Emissions (MTCO2e)** | 6.022 | 12.0439 | 24.0877 | 6.022 | 12.0439 | 18.0658 | 18.5194 | 34.5948 | 55.8685 | 9.8401 |
| Diesel Emission Factor (Climate Registry) (kg CO2/gallon) | 10.21 | 10.21 | 10.21 | 10.21 | 10.21 | 10.21 | 10.21 | 10.21 | 10.21 | 10.21 |
| Diesel Fuel Consumption (gallons) | 590 | 1,180 | 2,359 | 590 | 1,180 | 1,769 | 1,814 | 3,388 | 5,472 | 964 |
| | | | | | | | | | | |
| **Construction Trips** | | | | | | | | | | |
| Worker Trip Emissions (MTCO2e) | 0.2717 | 0.5432 | 1.0864 | 0.2717 | 0.5432 | 0.8148 | 1.1732 | 1.8261 | 2.7218 | 0.9049 |
| Gas Emission Factor (Climate Registry) (kg CO2/gallon) | 8.78 | 8.78 | 8.78 | 8.78 | 8.78 | 8.78 | 8.78 | 8.78 | 8.78 | 8.78 |
| Gasoline Fuel Consumption (gallons) | 31 | 62 | 124 | 31 | 62 | 93 | 134 | 208 | 310 | 103 |

| | | |
|---|---|---|
| **Operational Fuel Consumption** | | |
| VMT Emissions (Cultivation) | 0.19 | MTCO2e |
| VMT Emissions (Non-Cultivation) | 0.18 | MTCO2e |
| Percent gasoline | 99% | |
| Percent diesel | 1% | |
| Gas Emission Factor (Climate Registry) (kg CO2/gallon) | 8.78 | |
| Diesel Emission Factor (Climate Registry) (kg CO2/gallon) | 10.21 | |
| Cultivation Gasoline Fuel Consumption (gallons) | **21.8** | |
| Cultivation Diesel Fuel Consumption (gallons) | **0.18** | |
| Non-Cultivation Gasoline Fuel Consumption (gallons) | 20.4740892 | |
| Non-Cultivation Diesel Fuel Consumption (gallons) | 0.17152699 | |
| | | |
| Conversions | | |
| MT to kg | 1000 | |

## Buiding Energy Consumption

| Grow Site License Type | Percent of Cultivation Sites | Cultivation Sites | Proportion of Cultivation Sites | Electricity Consumption per site (kWh) | Total Electricity Consumption (kWh) | Natural Gas Consumption per site (Btu) | Total Natural Gas Consumption (Btu) |
|---|---|---|---|---|---|---|---|
| 1-Outdoor | 9.1% | 1342 | 122 | 2180 | 265960 | N/A | N/A |
| 2-Outdoor | 24.0% | 1342 | 322 | 4360 | 1403920 | N/A | N/A |
| 3-Outdoor | 21.9% | 1342 | 294 | 7848 | 2307312 | N/A | N/A |
| 1B-Mixed Light | 3.7% | 1342 | 50 | 2180 | 109000 | N/A | N/A |
| 2B-Mixed Light | 18.3% | 1342 | 246 | 4360 | 1072560 | N/A | N/A |
| 3B-Mixed Light | 11.3% | 1342 | 152 | 6104 | 927808 | N/A | N/A |
| 1A-Indoor | 4.6% | 1342 | 62 | 26796 | 1661352 | N/A | N/A |
| 2A-Indoor | 2.5% | 1342 | 34 | 53592 | 1822128 | N/A | N/A |
| 3A-Indoor | 4.5% | 1342 | 60 | 110472 | 6628320 | N/A | N/A |
| Non-Cultivation Facilities- | 100.0% | 538 | 538 | 47824 | 25729312 | 35300 | 1688187200 |
| Total | | | | | 41927672 | | 1688187200 |
| | | | | | 41,928 MWh | | 1,688 MMBtu |

Conversion

| | |
|---|---|
| kWh to MWh | 0.001 |
| Btu to MMBtu | 0.000001 |

| | | |
|---|---|---|
| Average electricity consumption per cultivation site (kWh/year) | 24,210.22 | |
| Natural gas equivalent (Btu) per site | 82,608,667.65 | |
| MMBtu per site | 82.61 | |
| Gallons per site | 750.99 | |
| Average electricity consumption per non-cultivation site (kWh/year) | 47,824.00 | |
| Natural gas equivalent (Btu) per site | 163,182,183.36 | |
| MMBtu per site | 163.18 | |
| Gallons per site | 17.95 | |
| Gallons for 1,995 existing sites | 1,498,221 | 1,198,576.67 |

Conversion

| | | |
|---|---|---|
| Natural gas to gallons (MMBtu/gallon) | 0.11 | Source: Climate Registry 2016 |
| kWh to Btu | 3412.14 | Source: Google |
| kg Co2/gallon | 7.36 | |

| | |
|---|---|
| | 11,026,905.35 |
| | 11,026.91 |
| | 2,205.38 |

# Appendix D

## Noise Calculations

# Construction Source Noise Prediction Model

| Equipment | Reference Emission Noise Levels ($L_{max}$) at 50 feet[1] | Usage Factor[1] |
|---|---|---|
| Grader | 85 | 0.4 |

| | |
|---|---|
| **Ground Type** | HARD |
| **Source Height** | 8 |
| **Receiver Height** | 5 |
| **Ground Factor[2]** | 0.00 |

| Predicted Noise Level [3] | $L_{eq}$ dBA at 50 feet[3] |
|---|---|
| Grader | 81.0 |

| Combined Predicted Noise Level ($L_{eq}$ dBA at 50 feet) |
|---|
| 81.0 |

Sources:

[1] Obtained from the FHWA Roadway Construction Noise Model, January 2006. Table 1.

[2] Based on Figure 6-5 from the Federal Transit Noise and Vibration Impact Assessment, 2006 (pg 6-23).

[3] Based on the following from the Federal Transit Noise and Vibration Impact Assessment, 2006 (pg 12-3).

$L_{eq}(equip) = E.L.+10*\log(U.F.) - 20*\log(D/50) - 10*G*\log(D/50)$

Where: E.L. = Emission Level;

U.F.= Usage Factor;

G = Constant that accounts for topography and ground effects (FTA 2006: pg 6-23); and

D = Distance from source to receiver.

## Attenuation Calculations for Stationary Noise Sources

**KEY:** Orange cells are for input.
Grey cells are intermediate calculations performed by the model.
Green cells are data to present in a written analysis (output).

**STEP 1: Identify the noise source and enter the reference noise level (dBA and distance).**

**STEP 2: Select the ground type (hard or soft), and enter the source and receiver heights.**

**STEP 3: Select the distance to the receiver.**

| Noise Source/ID | Reference Noise Level | | | Attenuation Characteristics | | | | Attenuated Noise Level at Receptor | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | noise level (dBA) | @ | distance (ft) | Ground Type (soft/hard) | Source Height (ft) | Receiver Height (ft) | Ground Factor | noise level (dBA) | @ | distance (ft) | Interior Noise Level |
| loader/backhoe/grader/dozer | 81.0 | @ | 50 | soft | 8 | 5 | 0.63 | 86.8 | @ | 30 | 71.8 |
| loader/backhoe/grader/dozer | 81.0 | @ | 50 | soft | 8 | 5 | 0.63 | 60.5 | @ | 300 | 45.5 |
| loader/backhoe/grader/dozer | 81.0 | @ | 50 | soft | 8 | 5 | 0.63 | 52.6 | @ | 600 | 37.6 |
| | | | | | | | 0.66 | | | | |
| Trimmer | 81.0 | @ | 3 | soft | 8 | 5 | 0.63 | 54.7 | @ | 30 | |
| Trimmer | 81.0 | @ | 3 | soft | 8 | 5 | 0.63 | 28.3 | @ | 300 | |
| Trimmer | 81.0 | @ | 3 | soft | 8 | 5 | 0.63 | 20.4 | @ | 600 | |
| | | | | | | | 0.66 | | | | |
| | | | | | | | 0.66 | | | | |
| | | | | | | | 0.66 | | | | |
| | | | | | | | 0.66 | | | | |
| | | | | | | | 0.66 | | | | |

Notes:

Estimates of attenuated noise levels do not account for reductions from intervening barriers, including walls, trees, vegetation, or structures of any type.

Computation of the attenuated noise level is based on the equation presented on pg. 12-3 and 12-4 of FTA 2006.

Computation of the ground factor is based on the equation presentd in Figure 6-23 on pg. 6-23 of FTA 2006, where the distance of the reference noise leve can be adjusted and the usage factor is not applied (i.e., the usage factor is equal to 1).

Sources:

Federal Transit Association (FTA). 2006 (May). Transit Noise and Vibration Impact Assessment. FTA-VA-90-1003-06. Washington, D.C. Available: <http://www.fta.dot.gov/documents/FTA_Noise_and_Vibration_Manual.pdf>. Accessed: September 24, 2010.

## Long-Term Noise Measurement Summary

**KEY:** Orange cells are for input.
Grey cells are intermediate calculations performed by the model.
Green cells are data to present in a written analysis (output).

**Measurement Site:** Contruction Noise Levels at 300 ft
**Measurement Date:** N/A
**Project Name:** Humboldt County Medical Cannabis Cultivation and Commerce Ordinance Project Draft Environmental Impact Report

### Computation of Ldn

| Period of 24-Hour Day (1=included, 0=not) | | Sound Power Breakdown by Period of Day | |
|---|---|---|---|
| Day | Night | Day | Night |
| 0 | 1 | 0 | 35,481 |
| 0 | 1 | 0 | 35,481 |
| 0 | 1 | 0 | 35,481 |
| 0 | 1 | 0 | 35,481 |
| 0 | 1 | 0 | 35,481 |
| 0 | 1 | 0 | 35,481 |
| 0 | 1 | 0 | 35,481 |
| 1 | 0 | 35,481 | 0 |
| 1 | 0 | 35,481 | 0 |
| 1 | 0 | 35,481 | 0 |
| 1 | 0 | 35,481 | 0 |
| 1 | 0 | 35,481 | 0 |
| 1 | 0 | 35,481 | 0 |
| 1 | 0 | 35,481 | 0 |
| 1 | 0 | 35,481 | 0 |
| 1 | 0 | 35,481 | 0 |
| 1 | 0 | 35,481 | 0 |
| 1 | 0 | 35,481 | 0 |
| 1 | 0 | 35,481 | 0 |
| 1 | 0 | 35,481 | 0 |
| 1 | 0 | 35,481 | 0 |
| 1 | 0 | 35,481 | 0 |
| 1 | 0 | 35,481 | 0 |
| 0 | 1 | 0 | 35,481 |
| 0 | 1 | 0 | 35,481 |

| | | |
|---|---|---|
| **Sum of Sound Power during Period wo/penalty** | 532,220 | 319,332 |
| **Log Factor for Penalty (i.e., 10*log(x))** | 1 | 10 |
| **Sound Power during Period with penalty** | 532,220 | 3,193,321 |

| | |
|---|---|
| **Total Daily Sound Power, with penalties** | 3,725,541 |
| **Hours per Day** | 24 |
| **Average Hourly Sound Power, with penalties** | 155,231 |
| **Ldn** | 51.9 |

Notes:
Computation of the CNEL based on 1-hour Leq measurements for each hour of a day are based on equation 2-27 on pg. 2-57 of Caltrans 2009.

Computation of the Ldn based on 1-hour Leq measurements for each hour of a day are based on equation 2-26 on pg. 2-56 of Caltrans 2009.

Log factors for the Ldn and CNEL penalties are provided in Table 2-12 on pg. 2-52 of Caltrans 2009.

Source:
California Deaprtment of Transportation (Caltrans), Divisiong of Environmental Analysis. 2009 (November). *2009 Technical Noise Supplement* . Sacramento, CA. Available: <http://www.dot.ca.gov/hq/env/noise/>. Accessed September 24, 2010.

## Long-Term Noise Measurement Summary

**KEY:** Orange cells are for input.
Grey cells are intermediate calculations performed by the model.
Green cells are data to present in a written analysis (output).

**Measurement Site:** Contruction Noise Levels at 300 ft (no nighttime construction)
**Measurement Date:** N/A
**Project Name:** Humboldt County Medical Cannabis Cultivation and Commerce Ordinance Project Draft Environmental Impact Report

### Computation of Ldn

| Period of 24-Hour Day (1=included, 0=not) | | Sound Power Breakdown by Period of Day | |
|---|---|---|---|
| Day | Night | Day | Night |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 |
| 1 | 0 | 35,481 | 0 |
| 1 | 0 | 35,481 | 0 |
| 1 | 0 | 35,481 | 0 |
| 1 | 0 | 35,481 | 0 |
| 1 | 0 | 35,481 | 0 |
| 1 | 0 | 35,481 | 0 |
| 1 | 0 | 35,481 | 0 |
| 1 | 0 | 35,481 | 0 |
| 1 | 0 | 35,481 | 0 |
| 1 | 0 | 35,481 | 0 |
| 1 | 0 | 35,481 | 0 |
| 1 | 0 | 35,481 | 0 |
| 1 | 0 | 35,481 | 0 |
| 1 | 0 | 35,481 | 0 |
| 1 | 0 | 1 | 0 |
| 1 | 0 | 1 | 0 |
| 1 | 0 | 1 | 0 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 |

| | | |
|---|---|---|
| **Sum of Sound Power during Period wo/penalty** | 425,779 | 9 |
| **Log Factor for Penalty (i.e., 10*log(x))** | 1 | 10 |
| **Sound Power during Period with penalty** | 425,779 | 90 |

| | |
|---|---|
| **Total Daily Sound Power, with penalties** | 425,869 |
| **Hours per Day** | 24 |
| **Average Hourly Sound Power, with penalties** | 17,745 |
| **Ldn** | 42.5 |

Notes:
Computation of the CNEL based on 1-hour Leq measurements for each hour of a day are based on equation 2-27 on pg. 2-57 of Caltrans 2009.

Computation of the Ldn based on 1-hour Leq measurements for each hour of a day are based on equation 2-26 on pg. 2-56 of Caltrans 2009.

Log factors for the Ldn and CNEL penalties are provided in Table 2-12 on pg. 2-52 of Caltrans 2009.

Source:
California Deaprtment of Transportation (Caltrans), Divisiong of Environmental Analysis. 2009 (November). *2009 Technical Noise Supplement* . Sacramento, CA. Available: <http://www.dot.ca.gov/hq/env/noise/>. Accessed September 24, 2010.

## Long-Term Noise Measurement Summary

**KEY:** Orange cells are for input.
Grey cells are intermediate calculations performed by the model.
Green cells are data to present in a written analysis (output).

**Measurement Site:** Contruction Noise Levels at 600 ft
**Measurement Date:** N/A
**Project Name:** Humboldt County Medical Cannabis Cultivation and Commerce Ordinance Project Draft Environmental Impact Report

### Computation of Ldn

| Period of 24-Hour Day (1=included, 0=not) | | Sound Power Breakdown by Period of Day | |
|---|---|---|---|
| Day | Night | Day | Night |
| 0 | 1 | 0 | 6,310 |
| 0 | 1 | 0 | 6,310 |
| 0 | 1 | 0 | 6,310 |
| 0 | 1 | 0 | 6,310 |
| 0 | 1 | 0 | 6,310 |
| 0 | 1 | 0 | 6,310 |
| 0 | 1 | 0 | 6,310 |
| 1 | 0 | 6,310 | 0 |
| 1 | 0 | 6,310 | 0 |
| 1 | 0 | 6,310 | 0 |
| 1 | 0 | 6,310 | 0 |
| 1 | 0 | 6,310 | 0 |
| 1 | 0 | 6,310 | 0 |
| 1 | 0 | 6,310 | 0 |
| 1 | 0 | 6,310 | 0 |
| 1 | 0 | 6,310 | 0 |
| 1 | 0 | 6,310 | 0 |
| 1 | 0 | 6,310 | 0 |
| 1 | 0 | 6,310 | 0 |
| 1 | 0 | 6,310 | 0 |
| 1 | 0 | 6,310 | 0 |
| 1 | 0 | 6,310 | 0 |
| 0 | 1 | 0 | 6,310 |
| 0 | 1 | 0 | 6,310 |

| | | |
|---|---|---|
| **Sum of Sound Power during Period wo/penalty** | 94,644 | 56,786 |
| **Log Factor for Penalty (i.e., 10*log(x))** | 1 | 10 |
| **Sound Power during Period with penalty** | 94,644 | 567,862 |

| | |
|---|---|
| **Total Daily Sound Power, with penalties** | 662,505 |
| **Hours per Day** | 24 |
| **Average Hourly Sound Power, with penalties** | 27,604 |
| **Ldn** | 44.4 |

Notes:
Computation of the CNEL based on 1-hour Leq measurements for each hour of a day are based on equation 2-27 on pg. 2-57 of Caltrans 2009.

Computation of the Ldn based on 1-hour Leq measurements for each hour of a day are based on equation 2-26 on pg. 2-56 of Caltrans 2009.

Log factors for the Ldn and CNEL penalties are provided in Table 2-12 on pg. 2-52 of Caltrans 2009.

Source:
California Deaprtment of Transportation (Caltrans), Divisiong of Environmental Analysis. 2009 (November). *2009 Technical Noise Supplement* . Sacramento, CA. Available: <http://www.dot.ca.gov/hq/env/noise/>. Accessed September 24, 2010.

## Long-Term Noise Measurement Summary

**KEY:** Orange cells are for input.
Grey cells are intermediate calculations performed by the model.
Green cells are data to present in a written analysis (output).

**Measurement Site:** Contruction Noise Levels at 600 ft (no nighttime construction)
**Measurement Date:** N/A
**Project Name:** Humboldt County Medical Cannabis Cultivation and Commerce Ordinance Project Draft Environmental Impact Report

### Computation of Ldn

| Period of 24-Hour Day (1=included, 0=not) | | Sound Power Breakdown by Period of Day | |
|---|---|---|---|
| Day | Night | Day | Night |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 |
| 1 | 0 | 6,310 | 0 |
| 1 | 0 | 6,310 | 0 |
| 1 | 0 | 6,310 | 0 |
| 1 | 0 | 6,310 | 0 |
| 1 | 0 | 6,310 | 0 |
| 1 | 0 | 6,310 | 0 |
| 1 | 0 | 6,310 | 0 |
| 1 | 0 | 6,310 | 0 |
| 1 | 0 | 6,310 | 0 |
| 1 | 0 | 6,310 | 0 |
| 1 | 0 | 6,310 | 0 |
| 1 | 0 | 6,310 | 0 |
| 1 | 0 | 6,310 | 0 |
| 1 | 0 | 6,310 | 0 |
| 1 | 0 | 1 | 0 |
| 1 | 0 | 1 | 0 |
| 1 | 0 | 1 | 0 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 |

| | | |
|---|---|---|
| **Sum of Sound Power during Period wo/penalty** | 75,718 | 9 |
| **Log Factor for Penalty (i.e., 10*log(x))** | 1 | 10 |
| **Sound Power during Period with penalty** | 75,718 | 90 |

| | |
|---|---|
| **Total Daily Sound Power, with penalties** | 75,808 |
| **Hours per Day** | 24 |
| **Average Hourly Sound Power, with penalties** | 3,159 |
| **Ldn** | 35.0 |

Notes:
Computation of the CNEL based on 1-hour Leq measurements for each hour of a day are based on equation 2-27 on pg. 2-57 of Caltrans 2009.

Computation of the Ldn based on 1-hour Leq measurements for each hour of a day are based on equation 2-26 on pg. 2-56 of Caltrans 2009.

Log factors for the Ldn and CNEL penalties are provided in Table 2-12 on pg. 2-52 of Caltrans 2009.

Source:
California Deaprtment of Transportation (Caltrans), Divisiong of Environmental Analysis. 2009 (November). *2009 Technical Noise Supplement* . Sacramento, CA. Available: <http://www.dot.ca.gov/hq/env/noise/>. Accessed September 24, 2010.

## Long-Term Noise Measurement Summary

**KEY:** Orange cells are for input.
Grey cells are intermediate calculations performed by the model.
Green cells are data to present in a written analysis (output).

**Measurement Site:** Operational Noise Levels at 30 ft (trimmer)
**Measurement Date:** N/A
**Project Name:** Humboldt County Medical Cannabis Cultivation and Commerce Ordinance Project Draft Environmental Impact Report

### Computation of Ldn

| Period of 24-Hour Day (1=included, 0=not) | | Sound Power Breakdown by Period of Day | |
|---|---|---|---|
| Day | Night | Day | Night |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 |
| 1 | 0 | 316,228 | 0 |
| 1 | 0 | 316,228 | 0 |
| 1 | 0 | 316,228 | 0 |
| 1 | 0 | 316,228 | 0 |
| 1 | 0 | 316,228 | 0 |
| 1 | 0 | 316,228 | 0 |
| 1 | 0 | 316,228 | 0 |
| 1 | 0 | 316,228 | 0 |
| 1 | 0 | 316,228 | 0 |
| 1 | 0 | 316,228 | 0 |
| 1 | 0 | 316,228 | 0 |
| 1 | 0 | 316,228 | 0 |
| 1 | 0 | 316,228 | 0 |
| 1 | 0 | 316,228 | 0 |
| 1 | 0 | 1 | 0 |
| 1 | 0 | 1 | 0 |
| 1 | 0 | 1 | 0 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 |

| | | |
|---|---|---|
| **Sum of Sound Power during Period wo/penalty** | 3,794,736 | 9 |
| **Log Factor for Penalty (i.e., 10*log(x))** | 1 | 10 |
| **Sound Power during Period with penalty** | 3,794,736 | 90 |

| | |
|---|---|
| **Total Daily Sound Power, with penalties** | 3,794,826 |
| **Hours per Day** | 24 |
| **Average Hourly Sound Power, with penalties** | 158,118 |
| **Ldn** | 52.0 |

Notes:
Computation of the CNEL based on 1-hour Leq measurements for each hour of a day are based on equation 2-27 on pg. 2-57 of Caltrans 2009.

Computation of the Ldn based on 1-hour Leq measurements for each hour of a day are based on equation 2-26 on pg. 2-56 of Caltrans 2009.

Log factors for the Ldn and CNEL penalties are provided in Table 2-12 on pg. 2-52 of Caltrans 2009.

Source:
California Deaprtment of Transportation (Caltrans), Divisiong of Environmental Analysis. 2009 (November). *2009 Technical Noise Supplement* . Sacramento, CA. Available: <http://www.dot.ca.gov/hq/env/noise/>. Accessed September 24, 2010.

## Long-Term Noise Measurement Summary

**KEY:** Orange cells are for input.
Grey cells are intermediate calculations performed by the model.
Green cells are data to present in a written analysis (output).

**Measurement Site:** Operational Noise Levels at 300 ft (trimmer)
**Measurement Date:** N/A
**Project Name:** Humboldt County Medical Cannabis Cultivation and Commerce Ordinance Project Draft Environmental Impact Report

### Computation of Ldn

| Period of 24-Hour Day (1=included, 0=not) | | Sound Power Breakdown by Period of Day | |
|---|---|---|---|
| Day | Night | Day | Night |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 |
| 1 | 0 | 676 | 0 |
| 1 | 0 | 676 | 0 |
| 1 | 0 | 676 | 0 |
| 1 | 0 | 676 | 0 |
| 1 | 0 | 676 | 0 |
| 1 | 0 | 676 | 0 |
| 1 | 0 | 676 | 0 |
| 1 | 0 | 676 | 0 |
| 1 | 0 | 676 | 0 |
| 1 | 0 | 676 | 0 |
| 1 | 0 | 676 | 0 |
| 1 | 0 | 676 | 0 |
| 1 | 0 | 676 | 0 |
| 1 | 0 | 676 | 0 |
| 1 | 0 | 1 | 0 |
| 1 | 0 | 1 | 0 |
| 1 | 0 | 1 | 0 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 |

| | | |
|---|---|---|
| **Sum of Sound Power during Period wo/penalty** | 8,116 | 9 |
| **Log Factor for Penalty (i.e., 10*log(x))** | 1 | 10 |
| **Sound Power during Period with penalty** | 8,116 | 90 |

| | |
|---|---|
| **Total Daily Sound Power, with penalties** | 8,206 |
| **Hours per Day** | 24 |
| **Average Hourly Sound Power, with penalties** | 342 |
| **Ldn** | 25.3 |

Notes:
Computation of the CNEL based on 1-hour Leq measurements for each hour of a day are based on equation 2-27 on pg. 2-57 of Caltrans 2009.

Computation of the Ldn based on 1-hour Leq measurements for each hour of a day are based on equation 2-26 on pg. 2-56 of Caltrans 2009.

Log factors for the Ldn and CNEL penalties are provided in Table 2-12 on pg. 2-52 of Caltrans 2009.

Source:
California Deaprtment of Transportation (Caltrans), Divisiong of Environmental Analysis. 2009 (November). *2009 Technical Noise Supplement* . Sacramento, CA. Available: <http://www.dot.ca.gov/hq/env/noise/>. Accessed September 24, 2010.

## Long-Term Noise Measurement Summary

**KEY:** Orange cells are for input.
Grey cells are intermediate calculations performed by the model.
Green cells are data to present in a written analysis (output).

**Measurement Site:** Operational Noise Levels at 600 ft (trimmer)
**Measurement Date:** N/A
**Project Name:** Humboldt County Medical Cannabis Cultivation and Commerce Ordinance Project Draft Environmental Impact Report

### Computation of Ldn

| Period of 24-Hour Day (1=included, 0=not) | | Sound Power Breakdown by Period of Day | |
|---|---|---|---|
| Day | Night | Day | Night |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 |
| 1 | 0 | 110 | 0 |
| 1 | 0 | 110 | 0 |
| 1 | 0 | 110 | 0 |
| 1 | 0 | 110 | 0 |
| 1 | 0 | 110 | 0 |
| 1 | 0 | 110 | 0 |
| 1 | 0 | 110 | 0 |
| 1 | 0 | 110 | 0 |
| 1 | 0 | 110 | 0 |
| 1 | 0 | 110 | 0 |
| 1 | 0 | 110 | 0 |
| 1 | 0 | 110 | 0 |
| 1 | 0 | 110 | 0 |
| 1 | 0 | 110 | 0 |
| 1 | 0 | 1 | 0 |
| 1 | 0 | 1 | 0 |
| 1 | 0 | 1 | 0 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 |

| | | |
|---|---|---|
| **Sum of Sound Power during Period wo/penalty** | 1,319 | 9 |
| **Log Factor for Penalty (i.e., 10*log(x))** | 1 | 10 |
| **Sound Power during Period with penalty** | 1,319 | 90 |

| | |
|---|---|
| **Total Daily Sound Power, with penalties** | 1,409 |
| **Hours per Day** | 24 |
| **Average Hourly Sound Power, with penalties** | 59 |
| **Ldn** | 17.7 |

Notes:
Computation of the CNEL based on 1-hour Leq measurements for each hour of a day are based on equation 2-27 on pg. 2-57 of Caltrans 2009.

Computation of the Ldn based on 1-hour Leq measurements for each hour of a day are based on equation 2-26 on pg. 2-56 of Caltrans 2009.

Log factors for the Ldn and CNEL penalties are provided in Table 2-12 on pg. 2-52 of Caltrans 2009.

Source:
California Deaprtment of Transportation (Caltrans), Divisiong of Environmental Analysis. 2009 (November). *2009 Technical Noise Supplement* . Sacramento, CA. Available: <http://www.dot.ca.gov/hq/env/noise/>. Accessed September 24, 2010.

# Appendix E

## Hydrology

State Water Resources Control Board

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# Cannabis Cultivation Policy

## Principles and Guidelines for Cannabis Cultivation

July 7, 2017

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## Attachments

Attachment A: Requirements for Cannabis Cultivation
Attachment B: Glossary of Terms

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## Acronyms and Abbreviations

| | |
|---|---|
| ACL | Administrative Civil Liability |
| Antidegradation Policy | State Water Board Resolution 68-16, the Statement of Policy with Respect to Maintaining High Quality of Waters in California |
| Army Corps | United States Army Corps of Engineers |
| AUMA | Adult Use of Marijuana Act of 2016 |
| Basin Plan | Water Quality Control Plan |
| BOF | Board of Forestry |
| BPTC | Best Practicable Treatment or Control |
| BPC | California Business and Professions Code |
| CAL FIRE | California Department of Forestry and Fire Protection |
| CAO | Cleanup and Abatement Orders |
| CDFA | California Department of Food and Agriculture |
| Cannabis Policy | Cannabis Cultivation Policy, Principles and Guidelines for Cannabis Cultivation |
| CIWQS | California Integrated Water Quality System |
| CUA | Compassionate Use Act of 1996 |
| CEQA | California Environmental Quality Act |
| CDEC | California Data Exchange Center |
| CDFA | California Department of Food and Agriculture |
| CDFW | California Department of Fish and Wildlife |
| CDO | Cease and Desist Order |
| CHRIS | California Historical Resources Information System |
| CWA | Clean Water Act |
| Deputy Director | Deputy Director for the Division of Water Rights |
| DPR | Department of Pesticides Regulation |
| DPS | Distinct Population Segments |
| DTE | Distinct Taxonomic Entities |
| DWR | California Department of Water Resources |
| e.g. | Latin exempli gratia (for example) |
| ESA | Federal Endangered Species Act |
| ESU | Evolutionary Significant Unit |
| Executive Officer | Executive Officer of the Regional Water Quality Control Board |
| FER | Flashy, Ephemeral Rain hydrologic regime |
| FPR | Forest Practice Rules |
| General Order | General Waste Discharge Requirements for Discharges of Waste associated with Cannabis Cultivation Activity |
| GW | Groundwater hydrologic regime |
| HELP | High Elevation and Low Precipitation hydrologic regime |
| HSR | High-Volume Snowmelt and Rain hydrologic regime |
| HUC | Hydrologic Unit Code |
| HSC | Health and Safety Code |
| ILRP | Irrigated Lands Regulatory Program |
| LSA Agreement | Lake and Streambed Alteration Agreement |
| LSR | Low-Volume Snowmelt and Rain hydrologic regime |
| LTO | Licensed Timber Operator |

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| | |
|---|---|
| MCRSA | Medical Cannabis Regulation and Safety Act |
| MMRSA | Medical Marijuana Regulation and Safety Act |
| NCRO | Department of Water Resources, North Central Region Office |
| NHD | National Hydrography Database |
| NHDPlusV2 | National Hydrography Database Plus Version 2 |
| NMP | Nitrogen Management Plan |
| NOA | Notice of Applicability |
| NONA | Notice of Non-Applicability |
| NOT | Notice of Termination |
| NOV | Notice of Violation |
| NPDES | National Pollutant Discharge Elimination System |
| NPS | Nonpoint Source Pollution Control Program |
| NRO | Department of Water Resources, North Region Office |
| NTU | Nephelometric Turbidity Units |
| OWTS | Onsite Wastewater Treatment System |
| PGR | Perennial Groundwater and Rain hydrologic regime |
| RSG | Rain and Seasonal Groundwater hydrologic regime |
| Regional Water Board | Regional Water Quality Control Board |
| Road Handbook | Handbook for Forest, Ranch, and Rural Roads |
| RPF | California Registered Professional Forester |
| RWD | Report of Waste Discharge |
| State Water Board | State Water Resources Control Board |
| SB | Senate Bill |
| SCCWRP | Southern California Coastal Water Research Project |
| SCR | Site Closure Report |
| SIC | Standard Industrial Code |
| SDR | Small Domestic Registrations |
| SEPs | Supplemental Environmental Projects |
| SIUR | Small Irrigation Use Registrations |
| SM | Snowmelt hydrologic regime |
| SW-CGP | Storm Water Construction General Permit |
| SW-IGP | Storm Water Industrial General Permit |
| SWPPP | Storm Water Pollution Prevention Plan |
| THP | Timber Harvest Plan |
| TMDL | Total Maximum Daily Load |
| UC Davis | University of California, Davis |
| US | United States |
| USBR | United States Bureau of Reclamation |
| USEPA | United States Environmental Protection Agency |
| USGS | United States Geological Survey |
| Water Boards | State Water Board and Regional Water Boards |

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# POLICY OVERVIEW

The purpose of this Cannabis Cultivation Policy (Policy) is to ensure that the diversion of water and discharge of waste associated with cannabis cultivation does not have a negative impact on water quality, aquatic habitat, riparian habitat, wetlands, and springs. This Policy applies to the following cannabis cultivation activities throughout California:

- Commercial Recreational
- Commercial Medical
- Personal Use Medical

This Policy does not apply to recreational cannabis cultivation for personal use, which is limited to six plants under the Adult Use of Marijuana Act (Proposition 64, approved by voters in November 2016)[1].

Cannabis cultivation legislation enacted Business and Professions Code section 26060.1(b)(1), which requires the State Water Resources Control Board (State Water Board), in consultation with the California Department of Fish and Wildlife (CDFW) and the California Department of Food and Agriculture (CDFA), to ensure that the individual and cumulative effects of water diversions and discharges associated with cannabis cultivation do not affect instream flows needed for fish spawning, migration, and rearing, and the flows needed to maintain natural flow variability. In addition, cannabis-related legislation resulted in California Water Code (Water Code) section 13149, which directs the State Water Board, in consultation with CDFW, to adopt interim and long-term principles and guidelines for the diversion and use of water for cannabis cultivation in areas where cannabis cultivation may have the potential to substantially affect instream flows. The legislation requires the State Water Board to establish these principles and guidelines as part of a state policy for water quality control[2]. Per Water Code section 13149, the principles and guidelines:

- shall include measures to protect springs, wetlands, and aquatic habitats from negative impacts of cannabis cultivation; and
- may include requirements that apply to groundwater diversions where the State Water Board determines those requirements are reasonably necessary.

Additionally, the State Water Board has primary enforcement responsibility for the principles and guidelines and shall notify CDFA of any enforcement action taken[3].

This Policy establishes principles and guidelines (herein "Requirements") for cannabis cultivation activities to protect water quality and instream flows. The Requirements established by this Policy will be incorporated into and implemented through five regulatory programs:

- CDFA's CalCannabis Cultivation Licensing Program[4];

[1] Recreational cannabis cultivation for personal use as defined in Health and Safety Code section 11362.1(a)(3) and section 11362.2.

[2] Water Code section 13149(b)(2). *The board shall adopt principles and guidelines under this section as part of state policy for water quality control adopted pursuant to Article 3 (commencing with Section 13140) of Chapter 3 of Division 7.* Water Code section 13142 outlines specific requirements for a state policy for water quality control, which this Policy implements.

[3] Water Code section 13149(b)(5).

[4] Business and Professions Code section 26060(b)(1). The CalCannabis Cultivation Licensing Program is anticipated to begin accepting applications for cannabis cultivation licenses by January 1, 2018.

- State Water Board's Cannabis General Waste Discharge Requirements for Discharges of Waste Associated with Cannabis Cultivation Activities (Cannabis General Order) or any Waste Discharge Requirements addressing cannabis cultivation activities adopted by a Regional Water Quality Control Board (Regional Water Board);
- State Water Board's General Water Quality Certification for Cannabis Cultivation Activities (Cannabis General Water Quality Certification);
- State Water Board's Cannabis Small Irrigation Use Registration (Cannabis SIUR); and
- State Water Board's Water Rights Permitting and Licensing Program.

The Requirements for cannabis cultivation are located in Attachment A. Policy background information and justifications for the Requirements are located in the Cannabis Cultivation Policy Staff Report.

Water Code section 13149 authorizes the State Water Board to develop both interim and long-term requirements and update them as necessary. It is anticipated that the State Water Board will update this Policy over time to modify or add requirements to address cannabis cultivation impacts, as needed.

The State Water Board holds the dual mandates of allocating surface water rights and protecting water quality. The State Water Board is the state agency with primary authority over water quality under California's Porter-Cologne Water Quality Control Act and the federal Clean Water Act. Under these authorities, the State Water Board may adopt water quality objectives, including flow objectives, and programs of implementation to achieve these objectives. California law directs the State Water Board and Regional Water Boards (collectively Water Boards) to adopt water quality control plans and policies that identify existing and potential beneficial uses of waters of the state and establish water quality objectives to protect these uses.

This Policy meets the requirements of Water Code section 13149(b)(1) and is categorically exempt from the provisions of the California Environmental Quality Act (CEQA) pursuant to California Code of Regulations, title 14, section 15308[5].

The State Water Board allocates water through an administrative system that is intended to maximize the beneficial uses of water while protecting the public trust, serving the public interest, and preventing the waste and unreasonable use or method of diversion of water. The Water Boards implement water quality control plans through both water rights- and water quality-related programs. For example, Water Code section 1258 requires the State Water Board to consider water quality control plans when acting upon applications to appropriate water and the State Water Board may impose such conditions as it deems necessary to implement such plans. Water Code section 13263(a) requires waste discharge requirements to implement applicable water quality control plans, including terms to ensure that water quality objectives will be met. In issuing water quality certifications and waste discharge requirements, the Water Boards include conditions necessary to ensure the activities will comply with applicable water

[5] California Code of Regulation section 15308. Actions by Regulatory Agencies for Protection of the Environment. *Class 8 consists of actions taken by regulatory agencies, as authorized by state or local ordinance, to assure the maintenance, restoration, enhancement, or protection of the environment where the regulatory process involves procedures for protection of the environment. Construction activities and relaxation of standards allowing environmental degradation are not included in this exemption.*

quality objectives, including flow objectives [6]. The State Water Board also may implement flow objectives by specifying minimum bypass flows as a condition of a water right.

## GEOGRAPHIC AREA COVERED BY POLICY

California is a large and geographically diverse state, covering 163,696 square miles, and spanning over 800 miles of coastline. California's multiple mountain ranges and valleys result in highly variable climate, precipitation and drainage patterns. To account for the state's size and geographic diversity, this Policy designates 14 Cannabis Cultivation Policy regions: Klamath, Upper Sacramento, North Eastern Desert, North Coast, Middle Sacramento, Southern Sacramento, North Central Coast, Tahoe, South Central Coast, San Joaquin, Mono, Kern, South Coast, and South Eastern Desert (Figure 1). This Policy establishes water quality and instream flow Requirements statewide. These include instream flow requirements that must be met or exceeded at specific compliance flow gages when water is being diverted for cannabis cultivation. Compliance gage assignments have been developed for nine of the 14 regions as follows: Klamath, Upper Sacramento, North Coast, Middle Sacramento, Southern Sacramento, North Central Coast, South Central Coast, San Joaquin, and South Coast. It is anticipated that compliance gage assignments for the remaining five regions will be developed, as resources allow, and added to the final Policy prior to adoption by the State Water Board.

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[6] *See* Water Code §13377; Cal. Code of Regs., tit. 23, § 3859.

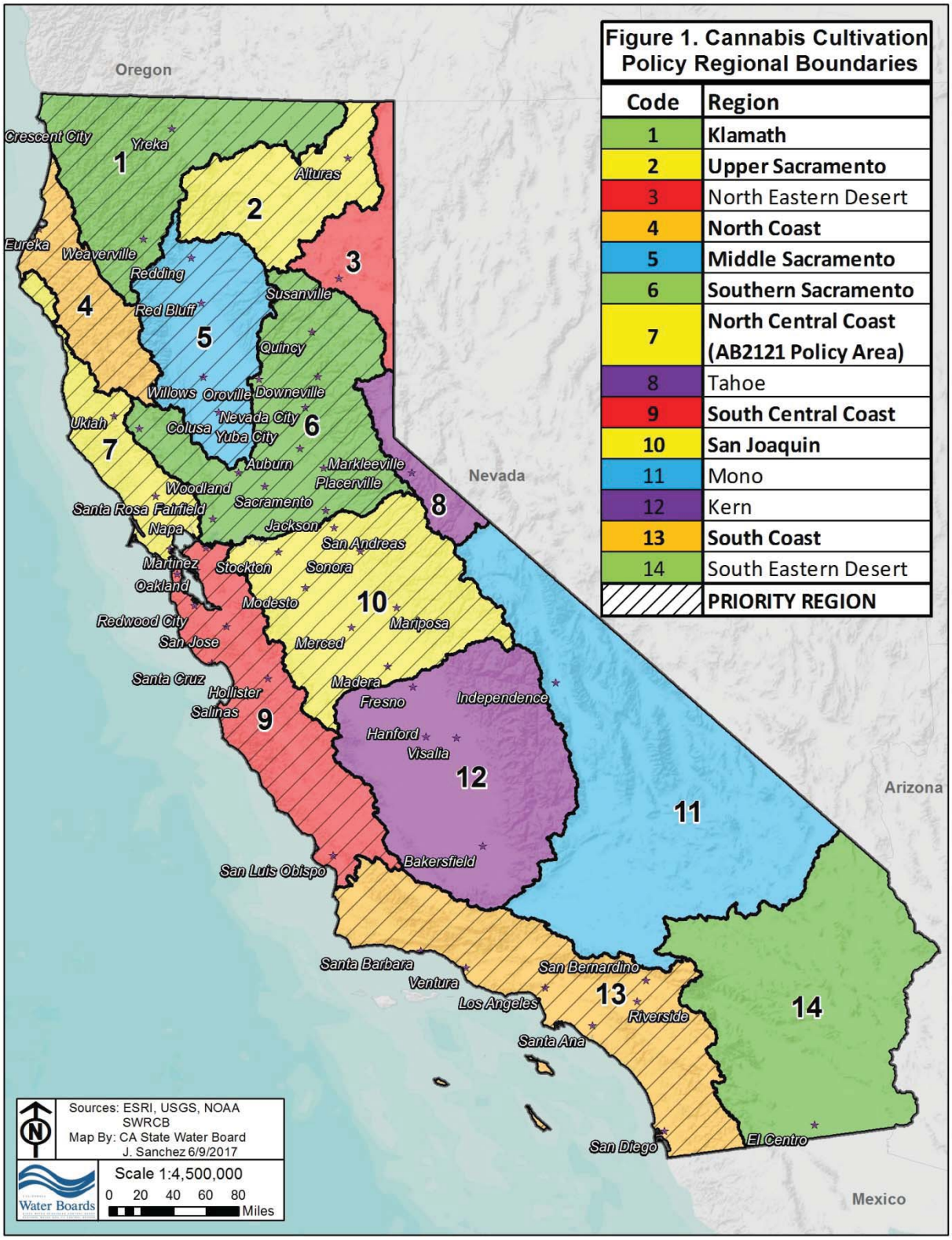
Figure 1. Cannabis Cultivation Policy Regional Boundaries
Code
Region
1 Klamath
2 Upper Sacramento
3 North Eastern Desert
4 North Coast
5 Middle Sacramento
6 Southern Sacramento
7 North Central Coast (AB2121 Policy Area)
8 Tahoe
9 South Central Coast
10 San Joaquin
11 Mono
12 Kern
13 South Coast
14 South Eastern Desert
PRIORITY REGION
Oregon
Nevada
Arizona
Mexico
Crescent City
Yreka
Alturas
Eureka
Weaverville
Redding
Susanville
Red Bluff
Quincy
Willows
Oroville
Downeville
Ukiah
Colusa
Nevada City
Yuba City
Auburn
Markleeville
Placerville
Woodland
Sacramento
Santa Rosa
Fairfield
Napa
Jackson
San Andreas
Martinez
Stockton
Sonora
Oakland
Modesto
Mariposa
Redwood City
San Jose
Merced
Santa Cruz
Hollister
Salinas
Madera
Fresno
Independence
Hanford
Visalia
Bakersfield
San Luis Obispo
Santa Barbara
Ventura
San Bernardino
Los Angeles
Riverside
Santa Ana
San Diego
El Centro
Sources: ESRI, USGS, NOAA
SWRCB
Map By: CA State Water Board
J. Sanchez 6/9/2017
Scale 1:4,500,000
0 20 40 60 80
Miles
Water Boards

# REQUIREMENTS FOR CANNABIS CULTIVATION

The State Water Board developed these Requirements in consultation with CDFW and CDFA. The Requirements are divided into five main categories, which are located in the following sections of Attachment A:

- Section 1. General Requirements and Prohibitions, and Cannabis General Water Quality Certification
- Section 2. Requirements Related to of Water Diversions and Waste Discharge for Cannabis Cultivation
- Section 3. Numeric and Narrative Instream Flow Requirements (including Gaging)
- Section 4. Watershed Compliance Gage Assignments
- Section 5. Planning and Reporting

General Requirements and Prohibitions implement existing State Water Board authorities and address issues such as compliance with state and local permits, discharge prohibitions, riparian setbacks, protection of tribal cultural resources, and the Water Boards' right to access properties for inspections.

The Requirements related to water diversion and waste discharge of for cannabis cultivation cover the following 12 best practicable treatment or control categories:

- riparian and wetland protection and management;
- water diversion, storage, and use;
- irrigation runoff;
- land development and maintenance, erosion control, and drainage features;
- soil disposal;
- stream crossing installation and maintenance;
- fertilizer and soil use and storage;
- pesticide and herbicide application and storage;
- petroleum products and other chemical use and storage;
- cultivation-related waste disposal;
- refuse and human waste disposal; and
- winterization.

The numeric and narrative instream flow Requirements address water quality and quantity through the establishment of flow Requirements that include three elements: (a) dry season forbearance period, (b) numeric flow Requirements (bypass) during the wet season (diversion period), and (c) narrative flow Requirements. Instream flow Requirements also include dry season flow Requirements and provisions for the imposition of a forbearance period for cannabis groundwater diversions in areas where such restrictions are necessary. Section 3 includes Requirements for gage installation in areas where the density of cannabis cultivation and limited water availability may have a localized negative impact on instream flows in areas with high resource value.

The Watershed compliance gage assignments section includes the compliance gage instream flow Requirements for all the regions and the compliance gage watershed assignments for the nine priority regions. The following discussion provides an overview of the development of instream flow Requirements and compliance gage assignments for the numeric flow Requirements.

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## Flow and Gaging Requirements

The narrative instream flow Requirements in Section 3 of Attachment A apply to cannabis cultivators throughout the State. The numeric instream flow Requirements are developed at compliance gages statewide.

### Surface Water Diversion Forbearance Period

Absent restrictions on water diversion, the individual and cumulative effects of water diversions for cannabis cultivation during the dry season are likely to significantly decrease instream flow and, in some instances, reduce hydrologic connectivity or completely dewater the stream. Minimum flows that provide habitat connectivity are needed to maintain juvenile salmonid passage conditions in late spring and early summer. Instream flows are also needed to maintain habitat conditions necessary for juvenile salmonid viability throughout the dry season, including adequate dissolved oxygen concentrations, low stream temperatures, and high rates of invertebrate drift from riffles to pools. Further, many species depend on spring recession flows as migratory or breeding ques. The State Water Board is requiring a surface water diversion forbearance period to ensure adequate flows are maintained throughout the dry season and protect aquatic species, aquatic habitat, and water quality.

### Wet Season Surface Water Instream Flow Requirements

Minimum instream flow requirements during the wet season are needed for the protection of aquatic species life history needs. For threatened and endangered anadromous salmonids, minimum flows are needed to address life history needs, such as:

1. maintaining natural abundance and availability of spawning habitat;
2. minimizing unnatural adult exposure, stress, predation, and delay during adult spawning migration; and
3. sustaining high quality and abundant juvenile salmonid winter rearing habitat.

To meet the timeline, scale, and purpose of this Policy, the State Water Board, in consultation with CDFW, has determined that the Tessmann Method is the best methodology to develop interim instream flow requirements. The Tessmann Method develops instream flow requirements by using percentages of historical mean annual and mean monthly natural streamflow[7]. . For the development of long-term instream flow requirements, the State Water Board, in consultation with CDFW, will evaluate other scientifically robust methods that are more reflective of regional variability and the needs of target species. The State Water Board applied the Tessmann Method to a predicted historical flow data set sourced from a flow modeling effort conducted by the United States Geological Survey (USGS) in cooperation with The Nature Conservancy and Trout Unlimited[8] (USGS flow modeling data). The interim instream flow Requirements were calculated for compliance gages throughout the State. The Tessmann Method and the USGS flow modeling data allow for instream flow requirements to be calculated at additional compliance points throughout the State. This Policy allows the State Water Board to use the Tessmann Method and the USGS flow modeling data to calculate or adjust a flow requirement, as needed, throughout the state.

[7] In general, during the wet season the Tessmann Method compares 40 percent of the mean monthly flow to 40 percent of the mean annual flow and whichever is greater is the flow requirement for that given month (Tessmann 1979).

[8] The USGS flow modeling effort developed empirical flow models that predict the natural (unaffected by land use or water management) monthly stream flows from 1950 to 2012 for the majority of the USGS National Hydrologic Database stream reaches in California (Carlisle, et. al. 2016).

## Maintain High Flow Events

To preserve the annual first flush flow event, the surface water diversion period for cannabis cultivation will not occur until the real-time daily average flow is greater than the minimum monthly instream flow Requirement at a compliance gage for seven consecutive days or after December 15 when flows are greater than the numeric flow Requirement, whichever occurs first. The State Water Board will monitor other high flow events that occur throughout the wet season to evaluate whether additional requirements are needed to maintain high flow variability during other periods of the wet season.

## Groundwater Requirements

To address potential impacts of groundwater diversions on surface flow, the State Water Board's Deputy Director for Water Rights (Deputy Director) may require a forbearance period for cannabis groundwater diversions in areas where such restrictions are necessary to protect instream flows. Such areas may include watersheds with: high surface water-groundwater connectivity; large numbers of cannabis groundwater diversions; and/or groundwater diversions in close proximity to streams. A low flow threshold was developed at each compliance gage[9] during the surface water forbearance period (dry season) to inform the need for additional actions to address impacts associated with cannabis groundwater diversions. The low flow threshold was established in consultation with CDFW. The low flow threshold is established using the USGS flow modeling data to calculate mean monthly flows and applying the New England Aquatic Base Flow Standard (ABF Standard) methodology at the compliance gages in the nine priority regions. The low flow threshold represents the minimum flow that should be in streams during all water type years to support aquatic ecosystems, including juvenile salmonid migration and rearing and water quality. This Policy allows the State Water Board to apply the ABF Standard to the USGS flow modeling data to calculate a low flow threshold Requirement at additional compliance points, as needed, throughout the State. The State Water Board will monitor instream flows during the dry season and evaluate the number and location of cannabis groundwater diversions to determine whether imposition of a groundwater forbearance period is necessary. To address potential localized effects of groundwater diversions on surface water flow, the State Water Board will also monitor where significant numbers of surface water diverters are switching to groundwater diversions to evaluate whether imposition of a groundwater forbearance period is necessary. The State Water Board will notify cannabis cultivators of the possibility that a groundwater forbearance period may be imposed so that the cultivators can install storage, coordinate diversions, take measures to secure alternate water supplies, or identify other measures to address the low flow condition.

## Compliance Gages and Requirements

Compliance gage assignments have been developed for watershed areas within nine priority regions (see Figure 1, Cannabis Cultivation Policy Regional Boundaries). Numeric instream flow Requirements are applied at a subset of existing gages reported on two websites: (1) the USGS – National Water Information System (NWIS)[10]; or (2) California Department of Water Resources (DWR) – California Data Exchange Center (CDEC)[11]. Watershed areas that do not have existing gages are assigned a compliance gage for a different location in the same watershed or for a nearby watershed with similar flow characteristics. Cannabis cultivators in ungaged watersheds may be required to install a gage if information indicates that use of the assigned gage does not adequately protect instream flows. Cannabis cultivators in watersheds

[9] The low flow threshold was developed using the USGS flow modeling data.
[10] https://waterdata.usgs.gov/ca/nwis/rt, viewed May 19, 2017.
[11] https://cdec.water.ca.gov/, viewed May 19, 2017.

without an assigned gage may be required to install a gage if information indicates that a gage is necessary to adequately protect instream flows. The State Water Board will monitor where cannabis cultivation diversions are located to track areas where locally concentrated cannabis cultivation water diversions within a watershed may adversely affect instream flows.

Many dams in California have existing instream flow requirements through the Federal Energy Regulatory Commission licensing program or through Biological Opinions issued by the National Marine Fisheries Service or the United States Fish and Wildlife Service, or through water right decisions. Cannabis cultivators shall comply with either existing instream flow Requirements or the Tessmann instream flow Requirements, whichever is greater.

The instream flow Requirement compliance gages are located in areas that are generally representative of the water availability and total demand occurring upstream of the gaging location or in a similar watershed. However, impacts may still occur in areas where there is significant localized cannabis cultivation compared to water availability or where the compliance gage does not accurately reflect the demand in a paired watershed. To help ensure diversion of water for cannabis cultivation does not negatively impact the flows needed for fish spawning, migration, and rearing, or the flows needed to maintain natural flow variability, the cannabis cultivator shall maintain a minimum bypass of at least 50% of the streamflow past the cannabis cultivator's point of diversion, in addition to the applicable numeric instream flow Requirements.

# POLICY IMPLEMENTATION AND COMPLIANCE

## Overview

The Requirements established by this Policy will be incorporated and implemented through the statewide Cannabis General Order, any waste discharge requirements addressing cannabis cultivation activities adopted by a Regional Water Board, Cannabis SIUR, Water Rights Permitting and Licensing Program, and CDFA's CalCannabis Cultivation Licensing Program.

## Cannabis Waste Discharge Requirements General Order (Cannabis General Order)

Water Code section 13260 requires that any person discharging waste or proposing to discharge waste that could affect the quality of the waters of the state must file a report of waste discharge to obtain coverage under waste discharge requirements (WDRs) or a waiver or WDRs. Water Code section 13263(a) requires that WDRs must implement applicable water quality control plans, taking into account the beneficial uses to be protected, applicable water quality objectives, and the need to prevent a condition of pollution or nuisance.

Water Code section 13263(i) authorizes the State Water Board to prescribe general WDRs for a category of discharges if the State Water Board determines that all of the following criteria apply to the discharges in that category: the discharges are produced by the same or similar operations; the discharges involve the same or similar type of waste; the discharges require the same or similar treatment standards; and the discharges are more appropriately regulated under general WDRs than individual WDRs. Water Code section 13146 requires that WDRs comply with state policy for water quality control. The Cannabis General Order will implement this Policy and the legal authorities described above.

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## Applicability, Tier Designation, and Threat to Water Quality

The Cannabis General Order will provide a statewide tiered approach for permitting discharges and threatened discharges of waste from cannabis cultivation and associated activities, establish a personal use exemption standard, and provide conditional exemption criteria for activities with a low threat to water quality. Tiers are defined by the amount of disturbed area. The disturbed area indicates the threat to water quality because level of threat is proportional to the area of disturbed soil, the amount of irrigation water used, the potential for storm water runoff, and the potential impacts to groundwater (e.g., the use of fertilizers or soil amendments, the possible number of employees on site, etc.).

The criteria for the tier structure consist of three exemptions and two tiers, as follows:

a. Personal use exempt cannabis cultivators are very small cultivators that are conditionally exempt from the Cannabis General Order. (See the Exemptions for Certain Cultivation Activities section.)

b. Certain indoor cultivation activities are conditionally exempt from the Cannabis General Order. (See the Exemptions for Certain Cultivation Activities section.)

c. Conditionally exempt cannabis cultivators that cultivate cannabis commercially and disturb less than 2,000 square feet. (See the Exemptions for Certain Cultivation Activities section.)

d. Tier 1 cannabis cultivators have a disturbed area greater than 2,000 square feet and less than 1 acre (43,560 square feet).

e. Tier 2 cannabis cultivators have a disturbed area equal to or greater than 1 acre.

## Determination of Total Disturbed Area

To determine total disturbed area for the purpose of tier determination, cannabis cultivators shall consider the following:

a. Cannabis cultivators that cultivate in multiple areas within a parcel or contiguous parcels shall add all the disturbed areas to calculate the total disturbed area. For example, a cannabis cultivator that operates two cultivation areas that each disturb 1,100 square feet must report a disturbance of 2,200 square feet and is not exempt from permitting requirements. Cannabis cultivators that cultivate cannabis on non-contiguous parcels must obtain regulatory coverage for each parcel.

b. Existing access roads that were constructed prior to establishment of cultivation activities that were designed, constructed, and are maintained consistent with the guidance presented in the *Handbook for Forest, Ranch, and Rural Roads* (Road Handbook) are not considered a disturbed area for the purpose of tier determination under the Cannabis General Order. However, existing access roads are included as areas requiring Best Practicable Treatment or Control (BPTC) measure maintenance activities to prevent further impairment to water quality.

c. Areas where plant material has been removed for the purpose of wildfire suppression and where the plant material will recover with seasonal precipitation, are not considered disturbed.

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## Risk Determination

Cannabis cultivators that must register (conditionally exempt) or enroll (Tier 1 or Tier 2) under the Cannabis General Order shall characterize the risk designation based on the slope of disturbed areas and the proximity to a water body.

The Cannabis General Order provides criteria to evaluate the threat to water quality based on:

a. Slope of disturbed area: Increased slopes may be associated with decreased soil stability, especially when associated with vegetation removal. Storm water and excess irrigation water are more likely to runoff and discharge off-site from sloped surfaces.

b. Proximity to a surface water body: Riparian setbacks from surface water bodies generally reduce impacts to water quality. Disturbed areas within the riparian setbacks are more likely to discharge waste constituents to surface water, therefore, any sites that cannot meet the riparian setback Requirements are considered to be high risk sites. Refer to the Attachment A for riparian setback Requirements.

For each site, risk determination is done based on the characteristic that poses the greatest threat to water quality. For example, if a site has multiple cultivation areas and one of the cultivation areas is located on a slope greater than 30 percent and less than 50 percent, all the cultivation areas will be classified as moderate risk.)

A summary of risk designation is presented below:

**Table 1. Summary of Risk Designation**

| Low Risk | Moderate Risk | High Risk |
|---|---|---|
| • No portion of the disturbed area is located on a slope greater than 30 percent, and<br>• All of the disturbed area complies with the riparian setback Requirements. | • Any portion of the disturbed area is located on a slope greater than 30 percent and less than 50 percent, and<br>• All of the disturbed area complies with the riparian setback Requirements. | • Any portion of the disturbed area is located within the riparian setback Requirements. |

## Exemptions for Certain Cultivation Activities

Certain cultivation activities are exempt from the requirement to register (conditionally exempt) or enroll (tiers) under the Cannabis General Order; however, the exemptions do not limit the Water Boards authority to inspect the site, evaluate the conditional exemption status, or evaluate other water quality or water right regulatory requirements. Some facilities that are exempt from the Cannabis General Order are subject to the Policy and other wastewater discharge permitting requirements (e.g., indoor cultivation activities that discharge to an onsite wastewater treatment system).

## Personal Use Exemption

Cultivation operations that qualify for a personal use exemption from the Cannabis General Order are those that are consistent with Health and Safety Code sections 11362.77, (medical marijuana) or Health and Safety Code section 11362.2 (non-medical marijuana) and

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subsequent revisions of the statutes, disturb an area (in aggregate) less than 1,000 square feet, and comply with the additional conditions below. These cultivation activities are exempt from requirements to obtain CDFA cannabis cultivation licenses because they are not a commercial activity, and also present a lower to water quality and thus are not required to submit any application information to enroll or register under the Cannabis General Order. The 1,000 square feet conditional exemption criteria provides sufficient area for outdoor cultivation of six mature plants for non-medical (recreational) use, or 500 square feet of cannabis plant canopy, as allowed, for medical cultivation purposes.

The exemptions apply per parcel or contiguous parcels; no coalitions, cooperatives, or other combination of cultivation activities can claim the personal use exemption for activities on the same parcel. The personal use exemption shall not apply if the cannabis cultivator fails to comply with all applicable conditions, including the non-commercial activity requirement. If the personal use exemption does not apply, the cannabis cultivator shall contact the Regional Water Board to determine if the activity is subject to the conditional exemption described below, or if the cannabis cultivator must register as a Tier 1 or Tier 2 cannabis cultivation site.

To qualify for the personal use exemption, a cannabis cultivator must comply with all of the following, if applicable:

a. The cultivation area shall be contiguous (all located in one area);

b. The cultivation area shall comply with the riparian setback Requirements in Attachment A of this Policy;

c. No part of the disturbed area shall be located on land with a slope greater than 20 percent; and

d. The cannabis cultivator shall comply with this Policy and implement all applicable Requirements listed in Attachment A of this Policy.

The personal use exemption in the Cannabis General Order does not eliminate other potential requirements such as the Requirement to obtain authorization for water diversion.

### Conditional Exemption

Cannabis cultivation activities that disturb an area (in aggregate) less than 2,000 square feet on any one parcel or on contiguous parcels managed as a single operation and that comply with all of the additional cultivation area criteria listed below are conditionally exempt from enrolling under the Cannabis General Order. However, to obtain documentation of the conditionally exempt status (which is necessary to obtain a CDFA cultivation license), exempt cannabis cultivators must submit information to register under the Cannabis General Order. The 2,000 square feet conditional exemption criterion allows sufficient area for outdoor cultivation for small commercial activities. Facilities with larger disturbed areas are an inherently higher threat to water quality and are subject to additional regulatory oversight. The conditional exemption applies per parcel or contiguous parcels; no coalitions, cooperatives, or other combination of cannabis cultivation activities can claim the conditional exemption for activities on the same parcel. To be conditionally exempt, a cannabis cultivator must comply with all of the following:

a. The cultivation area shall be contiguous (all located in one area);

b. The cultivation area shall comply with the riparian setback Requirements in Attachment A of this Policy;

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c. No part of the disturbed area shall be located on land with a slope greater than 20 percent; and

d. The cannabis cultivator shall comply with this Policy and implement all applicable Requirements listed in Attachment A of this Policy.

The conditional exemption shall not apply if the cannabis cultivator fails to comply with the applicable conditions (a-d above). Conditional exemption to enroll under the Cannabis General Order does not alter any other legal requirement (e.g., limitations on sales, distribution, or donations of cannabis). To obtain documentation of conditionally exempt status, such cannabis cultivators must submit information to register under the Cannabis General Order. Refer to the *Application Process and Fees* section of the Cannabis General Order for information on the Cannabis General Order's registration requirements.

### *Exemption for Indoor Cultivation Activities*

Indoor cannabis cultivation may be performed using hydroponic growing systems, soil, or other growth media. To maintain suitable growing conditions, wastewater is discharged from hydroponic systems when the irrigation water contains excessive salinity or nutrients. Irrigation tail water is generated when excess water drains from the growth media. Irrigation tail water or hydroponic wastewater may contain nutrients (e.g., phosphate or nitrate), salinity constituents (e.g., sodium, chloride, potassium, calcium, sulfate, magnesium), and other constituents (e.g., iron, manganese, zinc, molybdenum, boron, and silver)[12]. Other sanitation based wastewaters may also be generated at indoor cannabis cultivation sites. These miscellaneous industrial wastewaters may contain biocides, bleach mixtures, or other chemical waste streams.

Cannabis cultivation activities that occur within a structure with a permanent roof, a permanent relatively impermeable floor (e.g., concrete or asphalt paved), and that discharge all industrial wastewaters generated to a community sewer system consistent with the sewer system requirements, are exempt from the Cannabis General Order and permitting requirements. (Water Code section 13260(a)(1).) However, to obtain documentation of this exempt status, (necessary to obtain a CDFA commercial cannabis cultivation license) such cannabis cultivators must submit information to register under the Cannabis General Order. Refer to the *Application Process and Fees* section of the Cannabis General Order for information on the Cannabis General Order's registration requirements.

Discharges of irrigation tail water, hydroponic wastewater, or other miscellaneous industrial wastewaters from indoor cannabis cultivation activities to an on-site wastewater treatment system (such as a septic tank and leach field), to land, or to surface water must obtain separate regulatory authorization (e.g., WDRs, conditional waiver of WDRs, or other permit mechanism) to discharge the wastewater. Refer to the *Application Process and Fees* section of the Cannabis General Order for information on the Cannabis General Order's registration requirements.

### Application Process and Fees

Personal use exempt cannabis cultivators meeting the criteria described in the *Exemptions for Certain Cultivation Activities* section do not need to register with the State Water Board. Indoor cultivation sites and conditionally exempt sites are required to register with the State Water Board and pay an application fee.

[12]City of Littleton – City of Englewood Pretreatment Pipeline. Third Quarter 2011. "Medical Marijuana – an Exploding New Industry." Webpage: http://www.lewwtp.org/home/showdocument?id=5674. Accessed 17 January 2017.

New facilities that are classified as either Tier 1 or Tier 2 are required to enroll under the Cannabis General Order, apply on-line and pay an application fee, and an annual fee. Details regarding the on-line application process are described in the Cannabis General Order. The application fee serves as the first year's annual fee; cannabis cultivators will be billed on an annual basis.

Sites that pose a higher threat to water quality (e.g., disturb a larger area, located on a steeper slope, or located close to a surface water body) require a greater level of regulatory oversight, which translates to higher costs to achieve water quality protection. High risk sites (any portion of the disturbed area is located within the riparian setback Requirements), with the exception of activities authorized by CDFW with a Lake or Streambed Alteration Agreement or under a Clean Water Act section 401/section 404 permit (e.g. watercourse crossing, installation of diversion works), will be assessed the high-risk fee until the activities comply with the riparian setback Requirements. The Cannabis General Order includes a compliance schedule to achieve compliance with riparian setback Requirements. It is the cannabis cultivator's responsibility to notify the Regional Water Board of compliance with the riparian setback Requirements to reassess the annual fee. If the site is unable to meet the compliance schedule contained in the Cannabis General Order for complying with the riparian setback Requirements, the Regional Water Board may issue a site-specific enforcement order and compliance schedule.

### Third Party Programs

Some Regional Water Boards may approve third party programs to assist cannabis cultivators with enrollment and compliance with the Cannabis General Order. Some cannabis cultivators may elect to designate a Regional Water Board approved third party to represent them in issues related to application and compliance with the Cannabis General Order. The cannabis cultivator, property owner, and third party shall all be identified in the Cannabis General Order application. This Policy requires the cannabis cultivator to immediately notify the appropriate Regional Water Board if the third party is changed or terminated.

## Cannabis Small Irrigation Use Registration

Since January 1, 1989, the Water Rights Registration Program has been available for expedited acquisition of appropriative water rights for certain small projects. In accordance with the Water Code section 1228, water right registrations are available for small irrigation, small domestic, and livestock stockpond users. SIURs are applicable to irrigated crops for sale or trade, including commercial cannabis cultivation once general conditions are adopted. Small Domestic Registrations (SDR) may be used for small, incidental watering and personal gardens and are not subject to this Policy (SDRs may not be used for obtaining CDFA commercial cannabis cultivation licenses). Livestock stockpond registrations are not available for cannabis cultivation.

Although cultivators often have multiple options to establish a water right for their water supply, the State Water Board anticipates that many cultivators will choose the Cannabis SIUR because it is a faster and easier way to obtain a water right in comparison to the application process for a new appropriative water right, which can take many years. In accordance with this Policy, cultivators who rely on surface water to irrigate their cannabis operation are required to divert to storage during the wet season (portions of fall/winter/spring) and forebear from diverting during the dry season (summer/portions of fall). Because riparian water rights do not allow for water storage, riparian water right holders who intend to cultivate cannabis will also be required to obtain an appropriative (storage) water right (most likely through the Cannabis SIUR) in order to comply with the Policy. Cultivators should be aware that the Cannabis SIUR and other appropriative water rights may not be available in certain watersheds/streams, including

streams that are or may become designated as Fully Appropriated Streams or Wild and Scenic Rivers.

The Requirements established in this Policy serve as General Conditions for the Cannabis SIUR water right registrations for commercial cannabis cultivation statewide. Cultivators will submit their registration filing (application), have the ability to make payments, and receive a water right registration certificate through the State Water Board's online portal. Cultivators will be subject to all terms and conditions set forth in this Policy as well as any additional conditions assigned by CDFW.

## CDFA's CalCannabis Cultivation Licensing Program

In accordance with California Business and Professions Code (BPC) sections 26012, 26013, and 26060, CDFA is establishing a commercial cannabis cultivation licensing program. BPC section 26051.5(b)(7) requires the CDFA to consult with the State Water Board on the source or sources of water the applicant will use for cultivation. BPC section 26060.1(b)(1) requires that CDFA include in any license, conditions as requested by the State Water Board, including but not limited to the principles, guidelines, and requirements established under Section 13149 of the Water Code.

Compliance with the Requirements of this Policy is a pre-requisite for obtaining a CDFA Cannabis Cultivators license. The law requires that cannabis cultivators provide evidence of compliance with the Water Boards Requirements (or certification by the appropriate Water Board stating a permit is not necessary) as part of their application for a CDFA cannabis cultivation license. The State Water Board has primary enforcement responsibility for the Requirements and shall notify CDFA of any enforcement action taken[13].

## Continuing Authority to Amend Policy

Pursuant to Water Code Section 13149(a)(2), the State Water Board has continuing authority to amend this Policy as it deems reasonably necessary.

## Instream Flow Dedications

Water Code section 1707 allows any person entitled to the use of water, whether based upon an appropriative, riparian, or other right, to petition the State Water Board for a change for purposes of preserving or enhancing wetlands habitat, fish and wildlife resources, or recreation in, or on, the water.

## Local Cooperative Solutions

If CDFW enters into an agreement with one or more cannabis cultivators and determines that the agreement provides watershed-wide protection for the fishery that is comparable to or greater than the instream flow Requirements provided by this Policy, the cannabis cultivator or cultivators may request approval from the Deputy Director for to implement the agreement in place of the instream flow Requirements (numeric, narrative, and forbearance) in this Policy. The Deputy Director may approve the request subject to such conditions, including reporting requirements, that the Deputy Director deems necessary to prevent injury to other legal users of water or the environment.

Other local cooperative solutions may also be proposed to the Deputy Director as an alternative means of reducing water use to preserve the required instream flows. Requests

[13] Water Code section 13149(b)(5)

to implement local cooperative solutions may be submitted to the Deputy Director at any time. Local cooperative solutions may include proposals to coordinate diversions or share water. Cannabis cultivators may also submit a local cooperative solution to the Deputy Director that request to use or install, maintain, and operate a local gage and move the flow Requirement compliance point to that gage location. The Deputy Director may approve a request, or approve it subject to any conditions that the Deputy Director determines to be appropriate, if the Deputy Director determines:

(a) The continued diversion is reasonable;

(b) That other users of water will not be injured;

(c) That the relevant minimum instream flows identified in this Policy will be met; and

(d) Gages used as compliance points will be installed, maintained, and operated in accordance with the gage installation, maintenance, and operation Requirements in Section 3 of Attachment A of this Policy.

Diversions in violation of a local cooperative solution or agreement approved by the Deputy Director are subject to enforcement as a violation of this Policy. Notice of agreements, local cooperative solutions, and decisions under this section will be posted as soon as practicable on the State Water Board's cannabis webpage. The Deputy Director may issue a decision under this section prior to providing notice. Any interested person may file an objection to the proposed agreement, proposed local cooperative solution, or decision. The objection shall indicate the manner of service upon the certifier or petitioner. The State Water Board will consider any objection, and may hold a hearing thereon, after notice to all interested persons.

### Tribal Authority Savings Clause

Nothing in this Policy shall be construed to amend or modify in any way the authority of California Native American tribes to regulate cannabis cultivation on Tribal lands recognized as "Indian country" within the meaning of title 18, United States Code, section 1151.

## ENFORCEMENT

Compliance with this Policy is mandatory to ensure that the diversion of water and discharge of waste associated with cannabis cultivation does not have a negative impact on water quality, aquatic habitat, riparian habitat, wetlands, or springs. Timely and appropriate enforcement is critical to ensure that cannabis cultivators enroll under the regulatory framework and anticipate, identify, and correct any violations. Enforcement action may be taken against cultivators who continue to grow cannabis in violation of state law and against cultivators who enroll in regulatory programs but fail to fully comply with the Requirements. Appropriate penalties and other consequences for violations prevent cultivators that do not comply with the Requirements from obtaining an unfair competitive advantage and help ensure public confidence in the regulatory framework.

### Continuing Authority to Amend Water Rights

The State Water Board has continuing authority to amend or modify water right permits and licenses pursuant to Water Code sections 100 and 275. If, after investigation, the State Water Board determines that a permitted diversion results in an adverse impact to public trust resources or results in a waste or unreasonable use or unreasonable method of use or method of diversion of water, the State Water Board may modify a permit or license term or may adopt additional requirements in order to protect the public trust, ensure that the waste is abated, and

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ensure that the diversion and use of water is reasonable. Similarly, the State Water Board may modify existing permits or licenses if the State Water Board determines that such modification is necessary to meet water quality objectives contained in water quality control plans or policies for water quality control established or modified pursuant to Division 7 (commencing with section 13000) of the Water Code. Such a modification will be made after providing affected permit and license holders with any legally required notice, hearing or other procedures.

## Prohibition Against Waste and Unreasonable Use of Water

The State Water Board has continuing authority under Water Code sections 100 and 275 to enforce the requirements of the California Constitution, Article X, section 2, which directs that the water resources of the state be put to beneficial use to the fullest extent, and that water not be wasted or unreasonably used. It further provides that rights to the use of water are limited to such water as is reasonably required for the beneficial use served, and does not extend to the waste, unreasonable use, unreasonable method of use, or unreasonable method of diversion of the water.

The reasonable use doctrine applies to both surface water and groundwater, and it applies irrespective of the type of water right held by the diverter or user. (*Peabody v. Vallejo* (1935) 2 Cal.2d 351, 366-367.) What constitutes an unreasonable use, method of use, or method of diversion depends on the facts and circumstances of each case. (*People ex rel. State Water Resources Control Board v. Forni* (1976) 54 Cal.App.3d 743, 750.) Under the reasonable use doctrine, water right holders may be required to endure some inconvenience or to incur reasonable expenses. (*Id.* at pp. 751-752.) The State Water Board's continuing authority includes the power to enact regulations that preclude unreasonable use. (Wat. Code § 1058; Light v. State Water Resources Control Board (2014) 226 Cal.App.4th 1463, 1482.)

In light of limited available water supply and the need for water to protect public trust resources, the State Water Board has determined that it is a waste and unreasonable use of water under Article X, section 2 of the California Constitution to: 1) divert or use water for cannabis cultivation in a manner inconsistent with this Policy, regardless of water right seniority; 2) to divert or use water for cannabis cultivation, where prohibited by State law, this Policy, on public lands, or on tribal land without authorization; and 3) overwater cannabis plants and cause runoff.

If, after investigation, the State Water Board determines that a water diversion is wasteful or constitutes an unreasonable use, unreasonable method of use, or unreasonable method of diversion of water, the State Water Board may require a person who diverts and uses water to comply with measures to abate the waste or ensure the reasonable use of water, method of use, and method of diversion. Such a requirement will be adopted subject to applicable State Water Board procedures.

## Protection of Public Trust Resources

The State Water Board has an affirmative duty to take the public trust into account in the planning and allocation of water resources, and to protect the public trust uses whenever feasible. In the exercise of that duty, the State Water Board may use its legal authority to set requirements protecting public trust resources and order water users to comply.

## Incorporation of Policy Requirements in CDFA Cultivation Licenses

Implementation of the Requirements in this Policy is not solely the purview of the Water Boards. Pursuant to Business and Professions Code section 26060.1(b)(1), CDFA will incorporate this Policy's Requirements (referenced in the statute as "principles, guidelines, and requirements") into cultivation licenses issued under its CalCannabis Cultivation Licensing Program and will consult with the State Water Board regarding their implementation.

## Watershed Enforcement Team

In addition to the Water Boards' dedicated enforcement staff, legislation[14] directed the Water Boards and CDFW to expand the scope of the Watershed Enforcement Team from its initial North Coast/Central Valley focus to address cannabis cultivation activities statewide. In addition to pursuing enforcement related to cannabis cultivation, this team also provides public outreach and education, performs site inspections, and responds to complaints.

## Enforcement Tools

The Water Boards have a variety of enforcement tools to correct noncompliance. The Policy may be implemented directly per Water Code section 1847. The Policy Requirements will be implemented through the Cannabis General Order, the Cannabis SIUR, and General Water Quality Certification for Cannabis Cultivation Activities. The following summary includes types of enforcement actions that may be taken by the Water Boards. The Water Boards will make every effort to coordinate any enforcement action among its various divisions, offices, and regions and not initiate duplicative enforcement on the same violations. The Water Boards will coordinate enforcement with other agencies where appropriate.

### Informal Enforcement

An informal enforcement action is any enforcement action taken by Water Boards staff that is not defined in statute or regulation.

#### *Verbal and Written Contacts*

An informal enforcement action can include any form of communication (verbal, written, or electronic) between Water Boards staff and a cannabis cultivator concerning an actual, threatened, or potential violation.

#### *Notice of Violation*

A Notice of Violation (NOV) letter is the most significant level of informal enforcement action for cannabis cultivators and should be used only where a violation has occurred. NOV letters must be signed by the appropriate staff and provided to the cannabis cultivator.

### Formal Enforcement

Formal enforcement actions are statute-based actions to address a violation or threatened violation of water rights and/or water quality laws, regulations, policies, plans, or orders. The actions listed below present options available for water right and/or water quality enforcement.

#### *Notice to Comply*

The Water Boards may issue a Notice to Comply for certain minor violations.

[14] Water Code section 13276(a) and Fish and Game Code section 12029(c), as established in Assembly Bill 243 (Statutes 2015, Chapter 688, Wood).

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### *Order Technical Reports and Investigations*

The Water Boards may conduct investigations and require technical or monitoring reports from any person who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge waste.

### *Administrative Civil Liability*

Administrative Civil Liability (ACL) refers to monetary penalties that may be imposed by the Water Boards.

#### Supplemental Environmental Projects

The Water Boards may allow a person or entity to satisfy no more than 50 percent of the monetary assessment imposed in an ACL order by completing or funding one or more Supplemental Environmental Projects (SEPs). SEPs are projects that enhance the beneficial uses of the waters of the State, provide a benefit to the public at large, and are not otherwise required of the person or entity.

### *Cleanup and Abatement Orders*

Cleanup and Abatement Orders (CAOs) may be issued to any person who has discharged or discharges waste into the waters of the State in violation of any waste discharge requirement or other order or prohibition issued by the Water Boards, or who has caused or permitted, causes or permits, or threatens to cause or permit any waste to be discharged or deposited where it is, or probably will be, discharged into the waters of the State and creates, or threatens to create, a condition of pollution or nuisance. The CAO requires the cannabis cultivator to clean up the waste or abate the effects of the waste, or both, or, in the case of threatened pollution or nuisance, take other necessary remedial action, including, but not limited to, overseeing cleanup and abatement efforts.

### *Time Schedule Orders*

Water Boards can require the cannabis cultivators to submit time schedules that sets forth the actions the cannabis cultivators will take to address actual or threatened discharges of waste in violation of requirements.

### *Cease and Desist Orders*

To remedy water quality violations, a Regional Water Board or the State Water Board may issue a Cease and Desist Order (CDO) against the discharger. The State Water Board also may issue a CDO for water rights violations. In addition to the its general authority to issue CDOs, the State Water Board has specific legal authority to issue a CDO against any unlawful diversion or discharge for cannabis cultivation, any diversion or discharge that violates this Policy, and any cultivation activity that violates other applicable requirements that protect the environment.

### *Revocation of Water Right Permits and Licenses*

The State Water Board may revoke a water right permit, license, or registration pursuant to certain sections of the Water Code.

### *Modification or Rescission of Waste Discharge Requirements*

The Water Boards may modify or rescind waste discharge requirements (WDRs) in response to violations.

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### *Enforcement Referral*

Depending on the nature of the violation, the Water Boards may refer violations to the State Attorney General, County District Attorney, City Attorney, US Attorney, or United States Environmental Protection Agency.

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# REFERENCES:


Bauer S, Olson J, Cockrill A, van Hattem M, Miller L, Tauzer M, et al. (March 18, 2015) Impacts of Surface Water Diversions for Marijuana Cultivation on Aquatic Habitat in Four Northwestern California Watersheds. PLoS ONE 10(3): e0120016. https://doi.org/10.1371/journal.pone.0120016

Bentrup, G. and J. C. Hoag. 1998. The Practical Streambank Bioengineering Guide. United States Department of Agriculture, Interagency Riparian/Wetland Plant Development Project. Available at: http://www.nrcs.usda.gov/Internet/FSE_PLANTfMATERIALS/publications/idpmcpu116.pdf

Brown and Caldwell, Kennedy/Jenks Consultants. 2007. Manual of Good Practice of Land Application of Food Processing/Rinse Water. California League of Food Processors. Available at: http://clfp.com/documents/Manualofgoodpractice/CLFP%20Manual_COMPLETE_FINAL_3-14-07%20(2).pdf

Cafferata, P. 2015. California Road Rules for 2015 and Beyond. Associated California Loggers Annual Meeting January 15, 2015. California Department of Forestry and Fire Protection. Available at: http://www.fire.ca.gov/resource_mgt/downloads/Cafferata_RoadRules2013_ACL-talk_January2015(final).pdf. Accessed 4 May 2017.

California Department of Fish and Wildlife (CDFW). 2017a. Fish Species of Special Concern. Accessed at: https://www.wildlife.ca.gov/Conservation/SSC/Fishes. Viewed on 15 March 2017.

CDFW. 2017b. State & Federally Listed Endangered & Threatened Animals of California. Accessed at: https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=109405&inline. Viewed on 23 Jan. 2017.

CDFW. 2015. California State Wildlife Action Plan, 2015 Update: A Conservation Legacy for Californians. Edited by Armand G. Gonzales and Junko Hoshi, PhD. Prepared with assistance from Ascent Environmental, Inc., Sacramento, CA.

California Department of Fish & Game (CDFG) 2003. Atlas of the biodiversity of California. Sacramento, CA. 103. pp. Accessed at: https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=116547. Accessed March 10, 2017.

CDFG 2002. California climate based on the Köppen Classification System. GIS coverage. Wildlife and Habitat Data Analysis Branch. Sacramento, CA.

California Department of Food and Agriculture (CDFA). 2016. Licensing Survey Results. Available at: https://static.cdfa.ca.gov/MCCP/document/2016%20Licensing%20Survey%20Results.pdf. Viewed 27 December 2016.


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California Department of Transportation (Caltrans). 2017. Construction Site BMP Fact Sheets. Division of Construction. Sacramento, CA. Accessed at: http://www.dot.ca.gov/hq/construc/stormwater/factsheets.htm

Caltrans. 2003. Solid Waste Management, Construction Site Best Management Practices Manual. Available at: http://www.dot.ca.gov/hq/construc/stormwater/WM-05.pdf

California Department of Water Resources (DWR). 2013. Division of Safety of Dams Jurisdiction Over Dams and Reservoirs. Division of Safety of Dams. Sacramento, CA. Accessed at: http://www.water.ca.gov/damsafety/jurischart/

California Geologic Survey (CGS). 2002. Map of California Geomorphic Provinces, Note 36. California Department of Conservation, California Geological Survey. Sacramento, CA. Accessed at: http://www.conservation.ca.gov/cgs/information/publications/cgs_notes/note_36/Documents/note_36.pdf. Accessed March 10, 2017.

California Plant Health Association (CPHA). 1980. Western Fertilizer Handbook Sixth Edition. Soil Improvement Committee.

California Regional Water Quality Control Board, Central Coast Region. 2016. "Water Quality Control Plan for the Central Coastal Basin". Available at http://www.waterboards.ca.gov/centralcoast/publications_forms/publications/basin_plan/index.shtml.

California Regional Water Quality Control Board, Central Valley Region. 2016. "Water Quality Control Plan for the California Regional Water Quality Control Board Central Valley Region". Available at http://www.waterboards.ca.gov/centralvalley/water_issues/basin_plans/index.shtml.

California Regional Water Quality Control Board, North Coast Region. 2011. "Water Quality Control Plan for the North Coast Region". Available at http://www.waterboards.ca.gov/northcoast/water_issues/programs/basin_plan/basin_plan.shtml.

California Storm Water Quality Association. 2003. Section 4: Source Control BMPs and California Stormwater BMP Handbook. Accessed at: https://www.casqa.org/sites/default/files/BMPHandbooks/sd-12.pdf and https://www.casqa.org/sites/default/files/BMPHandbooks/sd-32.pdf

Carlisle, D.M., Wolock, D.M., Howard, J.K., Grantham, T.E., Fesenmyer, Kurt, and Wieczorek, Michael, 2016, Estimating natural monthly streamflows in California and the likelihood of anthropogenic modification: U.S. Geological Survey Open-File Report 2016–1189, 27 p., https://doi.org/10.3133/ofr20161189.

Cobourn, J. 2011. How to Install Residential Scale Best Management Practices (BMPs) in the Lake Tahoe Basin. University of Nevada Cooperative Extension. Available at: http://www.tahoebmp.org/Documents/Contractors%20BMP%20Manual.pdf

Critchfield, Howard J. 1983. General Climatology, 4th Ed. Englewood Cliffs: Prentice Hall.

DRAFT

Crozier, Carl. 1986. Soil Conservation Techniques for Hillside Farms, A Guide for Peace Corps Volunteers. Peace Corps Information Collection and Exchange Reprint Series No.R-62. November 1986. Available at: http://files.eric.ed.gov/fulltext/ED288044.pdf.

Five Counties. 2002. A Water Quality and Stream Habitat Protection Manual for County Road Maintenance in Northwestern California Watersheds. Five Counties Salmon Conservation Program. Available at: http://www.5counties.org/roadmanual.htm.

Forrest, Charlene and Jane Young. 2006. The Effects of Organic and Inorganic Nitrogen Fertilizer on the Morphology and Anatomy of Cannabis sativa "Fédrina" (Industrial Fibre Hemp) Grown in Northern British Columbia, Canada. Journal of Industrial Hemp Vol. 11, Iss.2, 2006.

Freeze, R. A., and J. A. Cherry. 1979. Groundwater, 604 pp. Available at: http://hydrogeologistswithoutborders.org/wordpress/1979-toc/.

Gale, D.B., T.R. Hayden, L.S. Harris, and H.N. Voight. 1998. Assessment of anadromous fishstocks in Blue Creek, lower Klamath River, California, 1994-1996. Yurok Tribal Fisheries Program.

Griggs, F. T. 2009. California Riparian Habitat Restoration Handbook. River Partners. Available at: http://www.conservation.ca.gov/dlrp/watershedportal/InformationResources/Documents/Restoration_Handbook_Final_Dec09.pdf.

Hausback, Brian P., Muffler, Patrick L.J., and Clynne, Michael A., 2011. Sutter Buttes- The Lone Volcano in California's Great Valley, United States Geological Survey Fact Sheet 2001-3024, Menlo Park, CA.

Haver, D. 2007. Best Management Practices; A Water Quality Field Guide for Nurseries. University of California Cooperative Extension. Available at: http://www.waterboards.ca.gov/sandiego/water_issues/programs/wine_country/docs/updates081910/ucce_bmps.pdf.

Lane, Belize; Dahlke, Helen; Pasternack, Gregory; and Sandoval-Solis, Samuel, 2016. Revealing the Diversity of Natural Hydrologic Regimes in California with Relevance for Environmental Flows Applications. Journal of the American Water Resources Association, JAWRA-16-0071-P.R3. In press.

Legislative Analyst's Office (LAO). 2016. Ballot Analysis Proposition 64 Marijuana Legislation Initiative Statute. http://www.lao.ca.gov/BallotAnalysis/Proposition?number=64&year=2016. Accessed 17 January 2017.

Ludington, Steve; Moring, Barry; Miller, Robert; Stone, Paul; Bookstrom, Arthur; Bedford, David; Evans, James; Haxel, Gordon; Nutt, Constance; Flyn, Katherine; and Hopkins, Melanie, 2007. Preliminary Integrated Geologic Map Databases for the United States: Western States, United States Geologic Survey Open File Report 2005-1305, Version 1.3, December 2007. Accessed at: https://pubs.usgs.gov/of/2005/1305/. Accessed March 10, 2017.

Markham, C., 1970. Seasonality of Precipitation in the United States. *Annals of the Association of American Geographers* 60(3):593-597.

DRAFT

Michigan Department of Environmental Quality. 1992. Spoil Piles. Available at: http://michigan.gov/documents/deq/deq-wb-nps-sp_250905_7.pdf

Moores, E.M., and Twiss, T.J., 1995. Tectonics. W.H. Freeman and Company, New York.

Moyle, P.B., P.I. Samuel, and R. Lusardi. 2017. State of the Salmonids II: Fish in Hot Water by California Trout and UC Davis Center for Watershed Sciences. San Francisco, CA.

National Marine Fisheries Service (NMFS). 2017. Proactive Conservation Program: Species of Concern. Accessed at http://www.nmfs.noaa.gov/pr/species/concern/. Viewed on 15 Mar. 2017.

NMFS. 2015. Public Draft Coastal Multispecies Recovery Plan. National Marine Fisheries Service, West Coast Region, Santa Rosa, California.

NMFS. 2014a. Final Recovery Plan for the Southern Oregon/Northern California Coast Evolutionarily Significant Unit of Coho Salmon (*Oncorhynchus kisutch*). National Marine Fisheries Service. Arcata, CA.

NMFS. 2014b. Recovery Plan for the Evolutionarily Significant Units of Sacramento River Winter-run Chinook Salmon and Central Valley Spring-run Chinook Salmon and the Distinct Population Segment of California Central Valley Steelhead. California Central Valley Area Office. July 2014.

NMFS. 2013. South-Central California Coast Steelhead Recovery Plan. West Coast Region, California Coastal Area Office, Long Beach, California.

NMFS. 2012a. Final Recovery Plan for Central California Coast coho salmon Evolutionarily Significant Unit. National Marine Fisheries Service, Southwest Region, Santa Rosa, California.

NMFS. 2012b. Southern California Steelhead Recovery Plan. Southwest Region, Protected Resources Division, Long Beach, California.

NMFS. 2007a. 2007 Federal Recovery Outline for the Distinct Population Segment of Central California Coast Steelhead. National Marine Fisheries Service, Southwest Regional Office, Long Beach, California.

NMFS. 2007b. 2007 Federal Recovery Outline for the Distinct Population Segment of Northern California Steelhead. National Marine Fisheries Service, Southwest Regional Office, Long Beach, California.

NMFS. 1998. “Factors Contributing to the Decline of Chinook Salmon: An Addendum to the 1996 West Coast Steelhead Factors for Decline Report,” Portland, Oregon: Protected Resources Division, National Marine Fisheries Service.

NMFS. 1996. Status Review of West Coast Steelhead from Washington, Idaho, Oregon and California. NOAA [National Oceanic and Atmospheric Administration] Technical Memorandum NMFS-NWFSC-27.

DRAFT

Natural Resources Conservation Service. 2005. Prevent Soil Erosion on Your Property. California Watershed Recovery Project. Available at: https://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs144p2_063808.pdf

PRISM Climate Group, 2016. 30-year Normals (1981-2010) Annual: Precipitation, Minimum Temperature, Maximum Temperature; Elevation. Accessed at: http://prism.oregonstate.edu/, retrieved December 5, 2016.

R2 Resource Consultants, Inc. and Stetson Engineers, Inc., 2007. North Coast Instream flow Policy: Scientific Basis and Development of Alternatives Protecting Anadromous Salmonids.

Resource Conservation District of Monterey County (RCDMC) and Monterey County Agricultural Commissioner's Office. 2014. Hillslope Farming Runoff Management Practices Guide. Available at: http://www.rcdmonterey.org/pdf/rcdmc-hillslope-guide-rvsd-2.11.14.pdf.

Ricketts T. H. 1999. Terrestrial Ecoregions of North America: A Conservation Assessment. Washington (DC): Island Press.

Ruddiman, W.F., 2001, Earths Climate, Past and Future. W.H. Freeman and Company, New York.

Sanctuary Forest. 2008. Water Storage Guide; Storing water to benefit streamflows and fish in North Coast creeks and rivers. Available at: https://greywateraction.org/wp-content/uploads/2014/11/SantuaryForrest_Water_Storage_Guide.pdf.

Santos, N.R., J.V. E. Katz, P. Moyle, and J.H. Viers. 2014. A programmable information system for management and analysis of aquatic species range data in California. Environmental Modelling & Software, Vol. 53, 13-26. Retrieved from http://www.sciencedirect.com/science/article/pii/S1364815213002673.

Snyder Industries, Inc. 2008. Guidelines for Use and Installation of Above Ground Water Tanks. Available at: http://www.waterandseptictanks.com/Portals/0/files/GUIDELINES-FOR-INSTALLATION-OF-WATER-TANKS-_rev1_-03-20-08-_2_.pdf.

State Water Resources Control Board (State Water Board). 2012. Water Quality Control Policy for Siting, Design, Operation, and Maintenance of Onsite Wastewater Treatment Systems. Available at: http://www.waterboards.ca.gov/water_issues/programs/owts/docs/owts_policy.pdf

State Water Board. 2010. Development of Flow Criteria for the Sacramento-San Joaquin Delta Ecosystem. Sacramento, CA. August 2010.

Tennant, D.L. 1976. Instream flow regimens for fish, wildlife, recreation and related environmental resources.

Tessman, S.A. 1979. Environmental Assessment. Technical Appendix E, in "Reconnaissance Elements" of the Western Dakotas Region of South Dakota Study. Water Resource Research Institute, South Dakota University.

DRAFT

United States Department of Agriculture. 1997. Ponds – Planning, Design, Construction, Agriculture Handbook. Natural Resources Conservation Service. Available at: http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs144p2_030362.pdf.

United States Environmental Protection Agency (USEPA). 1999. Riparian Forest Buffer. Chesapeake Bay Foundation.

USEPA. 2006. The Volunteer Estuary Monitoring Manual, Ch. 15 Turbidity and Total Solids. EPA-842-B-06-003. Available at: https://www.epa.gov/sites/production/files/2015-09/documents/2009_03_13_estuaries_monitor_chap15.pdf.

United States Fish and Wildlife Service. 2001. Juvenile salmonid monitoring on the mainstem Klamath River at Big Bar and mainstem Trinity River at Willow Creek, 1997-2000. Annual Report of the Klamath River Fisheries Assessment Program. Arcata Fish and Wildlife Office, Arcata, CA.

United States Geological Survey (USGS) National Hydrography Dataset. Available at: https://nhd.usgs.gov/.

Vannice, C. 2011. Medical Marijuana – an Exploding New Industry. Pretreatment Pipeline, Third Quarter 2011. City of Littleton/Englewood WWTP Pretreatment Division. Available at: http://www.lewwtp.org/home/showdocument?id=5674. Accessed 17 January 2017.

Weaver, W., E. Weppner, and D. Hagans. 2015. Handbook for Forest, Ranch & Rural Roads. The Mendocino County Resource Conservation District. Ukiah, CA. Available at: http://www.pacificwatershed.com/sites/default/files/RoadsEnglishBOOKapril2015b.pdf.

Wenger, S. J. and L. Fowler. 2000. Protecting Stream and River Corridors: Creating Effective Local Riparian Buffer Ordinances. Carl Vinson Institute of Government, University of Georgia. Available at: http://www.ohioenvironmentallawblog.com/uploads/file/UGA%20riparian_buffer_guidebook.pdf.

Western Regional Climate Center, 2015. California Climate Data Archive, National Weather Service- Cooperative Observer Program data, http://www.calclim.dri.edu/. Last updated July 21, 2015, data retrieved December 6-13, 2016.

Whittaker, R. H. 1960. Vegetation of the Siskiyou Mountains, Oregon and California. Biology Department, Brooklyn College, New York.

Whittaker, R. H. 1961. Estimation of Net Primary Production of Forest and Shrub Communities. Biology Department, Brooklyn College, New York.

Yarnell, S.M., J. Viers, and J. Mount, 2010. Ecology and Management of the Spring Snowmelt Recession. Bioscience 60(2):114-127.

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State Water Resources Control Board

# DRAFT
# Cannabis Cultivation Policy

# ATTACHMENT A

## Requirements for Cannabis Cultivation

## July 7, 2017

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# OVERVIEW

This Attachment A contains diversion and discharge Requirements for cannabis cultivation activities. The cannabis cultivator shall comply with all Requirements in this Policy, and applicable federal, state, and local laws, regulations, and permitting requirements. In the event of duplicate or conflicting requirements, the most stringent requirements shall apply. There are five main categories of cannabis cultivation Requirements to protect water quality and instream flows, which are organized into the following sections:

- Section 1. General Requirements and Prohibitions, and General Water Quality Certification for Cannabis Cultivation Activities
- Section 2. Requirements Related to Water Diversions and Waste Discharge for Cannabis Cultivation
- Section 3. Numeric and Narrative Instream Flow Requirements (including Gaging)
- Section 4. Watershed Compliance Gage Assignments
- Section 5. Planning and Reporting

## Definitions

Following are definitions of terms used in the five sections of the Requirements.

| No. | TERM |
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| 1. | **Agronomic Rate** – the rate of application of irrigation water and nutrients to plants necessary to satisfy the plants' evapotranspiration requirements and growth needs and minimize the movement of nutrients below the plants root zone. The agronomic rate considers allowances for supplemental water (e.g., effective precipitation), irrigation distribution uniformity, nutrients present in irrigation water, leaching requirement, and plant available nitrogen. |
| 2. | **California Native American tribe** – As defined in section 21073 of the Public Resources Code: a Native American tribe located in California that is on the contact list maintained by the Native American Heritage Commission for the purposes of Chapter 905 of the Statutes of 2004. |
| 3. | **Cannabis Cultivation** – any activity involving or necessary for the planting, growing, pruning, harvesting, drying, curing, or trimming of cannabis. This term includes, but is not limited to: (1) water diversions for cannabis cultivation, and (2) activities that prepare or develop a cannabis cultivation site or otherwise support cannabis cultivation and which discharge or threaten to discharge waste to Waters of the State. |
| 4. | **Cannabis Cultivation Area** – is defined by the following:<br>a. For in-ground plants, the cultivation area is defined by the perimeter of the area planted, including any immediately adjacent surrounding access pathways.<br>b. For plants grown outdoors in containers (e.g., pots, grow bags, etc.) the cultivation area is defined by the perimeter of the area that contains the containers, including |

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| | any immediately adjacent surrounding access pathways. The area is not limited to the sum of the area of each individual container.<br><br>c. For plants grown indoors, that do not qualify for the conditional exemption under the Cannabis General Order, the cultivation area is defined by the entire area contained in the structure where cultivation occurs, excluding any area used solely for activities that are not cultivation activities (e.g., office space). Areas used for storage of materials, equipment, or items related to cannabis cultivation shall be included in the cultivation area calculation. |
| 5. | **Cannabis Cultivation Site** – a location where cannabis is planted, grown, pruned, harvested, dried, cured, graded, or trimmed, or where any combination of these activities occurs. |
| 6. | **Cannabis Cultivator** – any person or entity engaged in cultivating cannabis that diverts water (i.e., diverter) or discharges or threatens to discharge waste (i.e., discharger). The term includes business entities; employees; contractors; land owners; cultivators; lessees; and tenants of private land where cannabis is cultivated and of lands that are modified or maintained to facilitate cannabis cultivation. |
| 7. | **Construction Storm Water Program** – refers to implementation of Water Quality Order 2009-0009-DWQ and National Pollutant Discharge Elimination System No. CAS000002, as amended by Order No. 2010-0014-DWQ, Order No. 2012-0006-DWQ, and amendments thereto. Cannabis cultivators whose activities disturb one or more acres of soil or whose projects disturb less than one acre but are part of a larger common pan of develop that in total disturbs one or more acres may need to obtain coverage under the Construction Storm Water Program. Construction activities covered under the Construction Storm Water Program may include clearing, grading, and disturbances to the ground such as stockpiling, or excavation, but does not include agricultural stormwater discharges, silviculture road construction and maintenance from which there is natural runoff, regular maintenance activities performed to restore the original line, grade, or capacity of a facility, or other non-point source discharges. |
| 8. | **Day** – is the mean solar day of 24 hours beginning at midnight (12:00 am). All references to day in this Policy are calendar days. |
| 9. | **Discharger** – any person or entity engaged in developing land for cannabis cultivation or to provide access to adjacent properties for cultivation activities and/or any person or entity engaged in the legal cultivation of cannabis that discharges or threatens to discharge waste. |
| 10. | **Diverter** – any person or entity that diverts water from waters of the state, including surface waterbodies and groundwater. |
| 11. | **Land Disturbance** – land areas where natural conditions have been modified in a way that may result in an increase in turbidity in water discharged from the site. Disturbed land includes areas where natural plant growth has been removed whether by physical, animal, or chemical means, or natural grade has been modified for any purpose. Land disturbance includes all activities whatsoever associated with developing or modifying land for cannabis cultivation related activities or access. Land disturbance activities include, but are not limited |

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| | to, construction of roads, buildings, water storage areas; excavation, grading, and site clearing. Disturbed land includes cultivation areas, storage areas where soil or soil amendments (e.g., potting soil, compost, or biosolids) are located. |
| 12. | **Land Owner** – any person or entity who owns, in whole or in part, the parcel of land on which cannabis cultivation is occurring or will occur. A land owner need not be a cannabis cultivator. |
| 13. | **Legacy Conditions** – are sites of historic activity, which may not be related to cannabis cultivation activities that may discharge sediment or other waste constituents to waters of the state. Legacy conditions are caused or affected by human activity. Implementation of corrective actions can reduce or eliminate the waste discharge. |
| 14. | **Qualified Biologist** – an individual who possesses, at a minimum, a bachelor's or advanced degree, from an accredited university, with a major in biology, zoology, wildlife biology, natural resources science, or a closely related scientific discipline, at least two years of field experience in the biology and natural history of local plant, fish, and wildlife resources present at the Cannabis Cultivation Site, and knowledge of state and federal laws regarding the protection of sensitive and endangered species. |
| 15. | **Qualified Professional** – Qualified Professional means:<br>**1.** individuals licensed in California under the Professional Engineer Act (e.g., Professional Engineer), Geologist and Geophysicist Act (e.g., Professional Geologist and Certified Engineering Geologist), and Professional Land Surveyors' Act (e.g., Professional Land Surveyor)[1],<br>**2.** a California Registered Professional Forester (RPF), and<br>**3.** a Qualified Storm Water Pollution Prevention Plan (SWPPP) Practitioner.<br><br>A Qualified Professional shall only perform work he/she is qualified to complete, consistent with applicable licensing and registration restrictions, and shall certify any work completed. Cannabis cultivation land development in timberland may be designed by a qualified California RPF. |
| 16. | **Requirements -** Principles and guidelines established in accordance with Water Code section 13149 for the diversion and use of water for cannabis cultivation. Principles and guidelines include: (i) measures to protect springs, wetlands, and aquatic habitats from negative impacts of cannabis cultivation; and (ii) requirements that apply to groundwater diversions where the State Water Board determines those requirements are reasonably necessary. |
| 17. | **Site Mitigation** – efforts to mitigate the impacts of Legacy Conditions or cannabis cultivation activities on the cannabis cultivation site or its surroundings. |
| 18. | **Site Remediation** – efforts to restore the cannabis cultivation site and its surroundings to its pre-legacy conditions or condition before cannabis cultivation activities began, or to restore the cannabis cultivation site and its surroundings to its natural condition. |

[1] See Business and Professions Code sections 6700-6799, 7800-7887, and 8700-8805, respectively.

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| 19. | **Slope** – shall be determined across the natural topography (preconstruction) of the disturbed land. Measure the highest and lowest elevations of the disturbed land, then measure the horizontal distance separating the highest and lowest elevations. Determine the slope using the formula below. (Multiple the ratio by 100 to find the percent value.) There may be more than one slope value if the low elevation has higher elevations in different directions. The highest slope value calculated (highest percentage numerically) is the value to be reported.<br>$$Slope = \frac{elevation\ difference}{horizontal\ distance}\ x\ 100$$<br>Slope – Value of slope expressed as a percentage.<br>Elevation difference – Report in feet to an accuracy of one inch or one tenth of a foot.<br>Horizontal distance – Report in feet to an accuracy of one inch or one tenth of a foot. |
| 20. | **Soil Materials** – include soil, aggregate (rock, sand, or soil), potting soil, compost, manure, or biosolid. |
| 21. | **Stabilized Areas** – consist of areas previously disturbed that have been successfully reclaimed to minimize the increase in sediment or turbidity in water discharged from the site. Areas where vehicles may travel or be parked may not considered stabilized. |
| 22. | **Timberland** – pursuant to Public Resources Code section 4526, means land, other than land owned by the federal government and land designated by the Board of Forestry as experimental forest land, which is available for, and capable of, growing a crop of trees of a commercial species used to produce lumber and other forest products, including Christmas trees. Commercial species, on a district basis, are defined in California Code of Regulations, title 14, section 895.1. |
| 23. | **Tribal lands** – lands recognized as "Indian country" within the meaning of title 18, United States Code, section 1151. |
| 24. | **Turbidity** – a measure of water clarity: how much the material suspended in water decreases the passage of light through the water. Suspended materials include soil particles (clay, silt, and sand), algae, plankton, and other substances. The turbidity test is reported in Nephelometric Turbidity Units (NTUs). |
| 25. | **Waterbody** – any significant accumulation of water above the ground surface, such as: lakes, ponds, rivers, streams, creeks, springs, seeps, artesian wells, wetlands, and canals. |
| 26. | **Watercourse** – a natural or artificial channel through which water flows.<br>• Perennial watercourse (Class I):<br>1. In the absence of diversions, water is flowing for more than nine months during a typical year,<br>2. Fish always or seasonally present onsite or includes habitat to sustain fish migration and spawning, and/or<br>3. Spring or seep: a place where water flows out of the ground. A spring or seep may flow the whole year or part of the year. |

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| | • Intermittent watercourse (Class II):<br>1. In the absence of diversions, water is flowing for three to nine months during a typical year, or<br>2. Water is flowing less than three months during a typical year and the stream supports riparian vegetation.<br>• Ephemeral watercourse (Class III): In the absence of diversion, water is flowing less than three months during a typical year and the stream does not support riparian vegetation or aquatic life. Ephemeral watercourses typically have water flowing for a short duration after precipitation events or snowmelt and show evidence of being capable of sediment transport. Ephemeral watercourses include channels, swales, gullies, rills, and any other drainage features that channelize and transport runoff.<br>• Other watercourses (Class IV): Class IV watercourses do not support native aquatic species and are man-made, provide established domestic, agricultural, hydroelectric supply, or other beneficial use. |
| **27.** | **Waters of the State** – any surface water or groundwater, including saline waters, within the boundaries of the state (Water Code section 13050(e)). Includes all waters within the state's boundaries, whether private or public, including waters in both natural and artificial channels. Waters of the state includes waters of the United States. |
| **28.** | **Wetland** – an area is a wetland if, under normal circumstances:<br>1. the area has continuous or recurrent saturation of the upper substrate caused by groundwater, or shallow surface water, or both;<br>2. the duration of such saturation is sufficient to cause anaerobic conditions in the upper substrate; and<br>3. the area's vegetation is dominated by hydrophytes or the area lacks vegetation. |
| **29.** | **Winter Period** – calendar dates from November 15 to April 1, except as noted under special County Rules in California Code of Regulations, title 14, sections 925.1, 926.18, 927.1, and 965.5. |

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# SECTION 1 – GENERAL REQUIREMENTS AND PROHIBITIONS

The following general requirements and prohibitions apply to any cannabis cultivator.

## General Requirements and Prohibitions

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| 1. | Prior to commencing any cannabis cultivation activities, including cannabis cultivation land development or alteration, the cannabis cultivator shall comply with all applicable federal, state, and local laws, regulations, and permitting requirements, as applicable, including but not limited to the following:<br>• The Clean Water Act (CWA) as implemented through permits, enforcement orders, and self-implementing requirements. When needed per the requirements of the CWA, the cannabis cultivator shall obtain a CWA section 404 (33 U.S.C. § 1344) permit from the United States Army Corps of Engineers (Army Corps) and a CWA section 401 (33 U.S.C. § 1341) water quality certification from the State Water Board or the Regional Water Board with jurisdiction. If the CWA permit cannot be obtained, the cannabis cultivator shall contact the appropriate Regional Water Board or State Water Board prior to commencing any cultivation activities. The Regional Water Board or State Water Board will determine if the cannabis cultivation activity and discharge is covered by the Requirements in the Policy and Cannabis General Waste Discharge Requirements for Discharges of Waste Associated with Cannabis Cultivation Activities (Cannabis General Order).<br>• The California Water Code as implemented through applicable water quality control plans (often referred to as Basin Plans), waste discharge requirements (WDRs) or waivers of WDRs, enforcement orders, and self-implementing requirements issued by the State Water Resources Control Board (State Water Board) or Regional Water Quality Control Boards (Regional Water Boards).<br>• All applicable state, city, county, or local regulations, ordinances, or license requirements including, but not limited to those for cannabis cultivation, grading, construction, and building.<br>• All applicable requirements of the California Department of Fish and Wildlife (CDFW).<br>• All applicable requirements of the California Department of Forestry and Fire Protection (CAL FIRE), including the Board of Forestry.<br>• California Environmental Quality Act and the National Environmental Policy Act. |
| 2. | If applicable, cannabis cultivators shall obtain coverage under all of the following:<br>a. The State Water Board's Construction Storm Water Program and any successors, amendments, or revisions thereto when applicable.<br>b. Activities performed in areas subject to California Code of Regulations title 14, |

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| | Chapter 4. Forest Practices (Forest Practice Rules) shall be implemented consistent with the permitting, licensing, and performance standards of the Forest Practice Rules, and the Requirements of this Policy, whichever is more stringent. |
| **3.** | The cannabis cultivator shall consult with CDFW to determine if a Lake and Streambed Alteration Agreement (LSA Agreement) is needed prior to commencing any activity that may substantially:<br>• divert or obstruct the natural flow of any river, stream, or lake;<br>• change or use any material from the bed, channel, or bank of any river, stream, or lake; or<br>• deposit debris, waste, or other materials that could pass into any river stream or lake.<br>"Any river, stream or lake", as defined by CDFW, includes those that are episodic (they are dry for periods of time) as well as those that are perennial (they flow year round). This includes ephemeral streams, desert washes, and watercourses with a subsurface flow. It may also apply to work undertaken within the flood plain of a body of water. |
| **4.** | Cannabis cultivators shall not take any action which results in the taking of Special-Status Plants (state listed and California Native Plant Society 1B.1 and 1B.2) or a threatened, endangered, or candidate species under either the California Endangered Species Act (ESA) (Fish & Game Code §§ 2050 et seq.) or the federal ESA (16 U.S.C. § 1531 et seq.). If a "take," as defined by the California ESA (Fish and Game Code section 86) or the federal ESA (16 U.S.C. § 1532(21)), may result from any act authorized under this Policy, the cannabis cultivator must obtain authorization from CDFW, National Marine Fisheries Service, and United States Fish and Wildlife Service, as applicable, to incidentally take such species prior to land disturbance or operation associated with the cannabis cultivation activities. The cannabis cultivator is responsible for meeting all requirements under the California ESA and the federal ESA. |
| **5.** | To avoid water quality degradation from erosion and sedimentation, land disturbance activities shall only occur between April 1 and November 15 of each year, unless authorized by a Regional Water Board Executive Officer-approved[2] work plan and compliance schedule. Cannabis cultivators shall ensure land disturbance activities are completed and site stabilization measures are in place prior to the onset of fall and winter precipitation. All land disturbance activities between November 16 and March 31 shall be supervised by a Qualified Professional[3]. |

[2] The Regional Water Board Executive Officer may delegate, in writing, receipt, review, and approval of work plans or other documents required by this Policy.

[3] Although emergency mitigation measures may not require obtaining coverage under the Construction Storm Water Program, the elevated threat to water quality caused by emergency mitigation or remediation work performed from November 15 to April 1 requires planning and supervision by an appropriately qualified professional to protect water quality, such as an appropriately certified or registered Storm Water Pollution Prevention Plan Practitioner.

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| **6.** | A California Licensed Timber Operator (LTO)[4] shall be used if any commercial tree species are to be removed from the cannabis cultivation site. All timberland conversions shall be permitted and compliant with the Forest Practice Rules and CAL FIRE permitting requirements. |
| **7.** | During land disturbance activities the cannabis cultivator shall review and evaluate the applicable daily weather forecast and any applicable 24 hour forecast[5] at least once per 24 hour period and maintain records of the weather forecast for each day land disturbance activities are conducted. The cannabis cultivator shall cease land disturbance activities and shall implement erosion control Requirements described in this Policy during any 24 hour period in which the applicable daily weather forecast or any 24 hour forecast reports a 50 percent or greater chance of precipitation greater than 0.5 inch per 24 hours. |
| **8.** | Prior to commencing any cannabis land development or site expansion activities the cannabis cultivator shall secure a qualified biologist. The cannabis cultivator and the Qualified Biologist shall consult with CDFW and CAL FIRE and designate and mark a no-disturbance buffer to protect identified sensitive plant and wildlife species and communities. |
| **9.** | All equipment used at the Cannabis Cultivation Site, including excavators, graders, etc., which may have come in contact with invasive species[6] shall be cleaned before arriving and before leaving the site. |
| **10.** | The cannabis cultivator shall comply with all applicable requirements of the State Water Board and Regional Water Boards' (collectively Water Boards) water quality control plans and policies. |
| **11.** | The cannabis cultivator shall immediately report any significant hazardous material release or spill that causes a film or sheen on the water's surface, leaves a sludge or emulsion beneath the water's surface, or a release or threatened release of a hazardous material that may potentially discharge to waters of the state, to the California Office of Emergency Services at **(800) 852-7550** and the local Unified Program Agency[7]. The cannabis cultivator shall also immediately notify the appropriate Regional Water Board and CDFW of the release. |
| **12.** | The cannabis cultivator shall comply with all water quality objectives/standards, policies, and implementation plans adopted or approved pursuant to the Porter-Cologne Water Quality |

[4] Licensed Timber Operators or "LTOs" are persons who have been licensed under the Forest Practice Act law and are authorized to conduct forest tree cutting and removal operations.

[5] If available, the cannabis cultivator shall refer to the weather forecast developed by the National Oceanic and Atmospheric Administration (NOAA) for the local National Weather Service Office (http://www.weather.gov). If the NOAA forecast is not available, a forecast by a local television news or radio broadcast shall be used.

[6] CDFW defines invasive species as organisms (plants, animals, or microbes) that are not native to an environment, and once introduced, they establish, quickly reproduce and spread, and cause harm to the environment, economy, or human health. Cannabis cultivators may refer to CDFW Internet webpage for guidance on decontamination methods and species of concern. See CDFW's invasive species webpage at: https://www.wildlife.ca.gov/Conservation/Invasives.

[7] Visit the Unified Program Agency website at http://cersapps.calepa.ca.gov/public/directory for local contact information. If internet service is not available call 911 to report the hazardous material release.

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| | Control Act (California Water Code section 13000, et seq.) or CWA section 303 (33 U.S.C. § 1313). The cannabis cultivator shall protect the beneficial uses of the waterbody and its tributaries from any diversions or discharges related to cannabis cultivation activities. |
| **13.** | The cannabis cultivator shall permit the Water Boards, CDFW, CAL FIRE, and any other authorized representatives of the Water Boards, CDFW, or CAL FIRE upon presentation of a badge, employee identification card, or similar credentials, to:<br>1. enter premises and facilities where cannabis is cultivated; where water is diverted, stored, or used; where wastes are treated, stored, or disposed of; or in which any records are kept;<br>2. access and copy, during daylight hours or other reasonable hours, any records required to be kept under the terms and conditions of this Policy;<br>3. inspect, photograph, and record audio and video, during daylight hours or other reasonable hours, any cannabis cultivation sites, and associated premises, facilities, monitoring equipment or device, practices, or operations regulated or required by this Policy; and<br>4. sample, monitor, photograph, and record audio and video of site conditions, any discharge, waste material substances, or water quality parameters at any location for the purposes of assuring compliance with this Policy. |
| **14.** | The State Water Board has the authority to modify this Policy to implement: new or revised water quality standards, policies, or water quality control plans; total maximum daily loads (TMDLs), TMDL implementation plans, or revisions to the California Water Code or CWA. |
| **15.** | The State Water Board reserves authority to modify this Policy and the terms and conditions of water right registrations if monitoring results indicate that continued cannabis cultivation activities could violate instream flow requirements or, water quality objectives or impair the beneficial uses of a waterbody and its tributaries. |
| **16.** | Cannabis cultivators shall not commit trespass. Nothing in this Policy or any program implementing this Policy shall be construed to authorize cannabis cultivation activities on land not owned by the cannabis cultivator without the express written permission of the land owner. This includes but is not limited to land owned by the United States or any department thereof, the State of California or any department thereof, any local agency, or any other person who is not the cannabis cultivator. This includes but is not limited to any land owned by a California Native American tribe, as defined in section 21073 of the Public Resources Code, whether or not the land meets the definition of tribal lands. |
| **17.** | The cannabis cultivator shall not cultivate cannabis on tribal lands or within 600 feet of tribal lands without the express written permission of the governing body of the affected tribe or from a person deputized by the governing body of the affected tribe to authorize cannabis cultivation on tribal lands[8]. |

[8] Tribal lands means lands recognized as "Indian country" within the meaning of title 18, United States Code, section 1151.

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| **18.** | No cannabis cultivation activities shall occur within 600 feet of an identified tribal cultural resource site. The cannabis cultivator is solely responsible for identifying any tribal cultural resource sites[9] within the cannabis cultivation area. |
| **19.** | Prior to land disturbance activities for new or expanded cannabis cultivation activities, the cannabis cultivator shall perform a records search of potential Native American archeological or cultural resources (CHRIS potential discovery) at a California Historical Resources Information System (CHRIS) information center. A CHRIS qualified archaeologist shall perform the records search and document the results.<br><br>If any buried archeological materials or indicators[10] are uncovered or discovered during any cannabis cultivation activities, all ground-disturbing activities shall immediately cease within 100 feet of the find.<br><br>The cannabis cultivator shall notify the Appropriate Person within 48 hours of any discovery or within seven days of a CHRIS potential discovery. The Appropriate Person is the Deputy Director for Water Rights (Deputy Director) if the cannabis cultivator is operating under the Cannabis SIUR, the Executive Officer of the applicable Regional Water Board (Executive Officer) if the cannabis cultivator is operating under the Cannabis General Order or Cannabis General Water Quality Certification, or both if the cannabis cultivator is operating under both programs.<br><br>In the event that prehistoric archeological materials or indicators are discovered, the cannabis cultivator shall also notify the Native American Heritage Commission within 48 hours of any discovery or within seven days of a CHRIS potential discovery and request a list of any California Native American tribes that are potentially culturally affiliated with the discovery or CHRIS potential discovery. The cannabis cultivator shall notify any potentially culturally affiliated California Native American tribes of the discovery or CHRIS potential discovery within 48 hours of receiving a list from the Native American Heritage Commission.<br><br>The cannabis cultivator shall promptly retain a professional archeologist[11] to evaluate the discovery or CHRIS potential discovery and recommend appropriate conservation measures. The cannabis cultivator shall submit proposed conservation measures to the appropriate person(s) (Deputy Director for the Cannabis SIUR and Executive Officer for the Cannabis General Order or Cannabis General Water Quality Certification) for written approval. The appropriate person may require all appropriate measures necessary to conserve archeological resources, including but not limited to Native American monitoring. |

[9] Identified tribal cultural resource site means a tribal cultural resource that meets the requirements of section 21074, subdivision (a)(1) of the Public Resources Code.

[10] Prehistoric archeological indicators include, but are not limited to: obsidian and chert flakes and chipped stone tools; bedrock outcrops and boulders with mortar cups; ground stone implements (grinding slabs, mortars, and pestles) and locally darkened midden soils containing some of the previously listed items plus fragments of bone, fire affected stones, shellfish, or other dietary refuse.

Historic period site indicators generally include, but are not limited to: fragments of glass, ceramic and metal objects; milled and split lumber; and structure and feature remains such as building foundations, privy pits, wells and dumps; and old trails.

[11] A professional archeologist is one that is qualified by the Secretary of Interior, Register of Professional Archaeologists, or Society for California Archaeology.

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| | In the event that prehistoric archeological materials or indicators are discovered, the cannabis cultivator shall also provide a copy of the proposed conservation measures to any culturally affiliated California Native American tribes identified by the Native American Heritage Commission. The appropriate person will carefully consider any comments submitted by culturally affiliated California Native American tribes with the goal of conserving prehistoric archeological resources with appropriate dignity.<br><br>Ground-disturbing activities shall not resume within 100 feet of the discovery until all approved measures have been completed to the satisfaction of the Deputy Director and/or Executive Officer, as applicable. |
| **20.** | Upon discovery of any human remains, cannabis cultivators shall immediately comply with Health and Safety Code section 7050.5 and Public Resources Code section 5097.98. The following actions shall be taken immediately upon the discovery of human remains:<br><br>All ground-disturbing activities in the vicinity of the discovery shall stop immediately. The cannabis cultivator shall immediately notify the county coroner. Ground disturbing activities shall not resume until the requirements of Health and Safety Code section 7050.5 and Public Resources Code section 5097.98 have been met. The cannabis cultivator shall ensure that the human remains are treated with appropriate dignity.<br><br>Per Health and Safety Code section 7050.5, the coroner has two working days to examine human remains after being notified by the responsible person. If the remains are Native American, the coroner has 24 hours to notify the Native American Heritage Commission.<br><br>Per Public Resources Code section 5097.98, the Native American Heritage Commission will immediately notify the person it believes to be the most likely descendent of the deceased Native American. The most likely descendent has 48 hours to make recommendations to the cannabis cultivator or representative for the treatment or disposition, with proper dignity, of the human remains and any grave goods. If the most likely descendent does not make recommendations within 48 hours, the cannabis cultivator shall reinter the remains in an area of the property secure from further disturbance. If the cannabis cultivator does not accept the descendant's recommendations, the cannabis cultivator or the descendent may request mediation by the Native American Heritage Commission. If mediation fails, the cannabis cultivator shall reinter the human remains and any grave goods with appropriate dignity on the property in a location not subject to future subsurface disturbance. |
| **21.** | Pursuant to Water Code sections 100 and 275 and the common law public trust doctrine, all rights and privileges, including method of diversion, method of use, and quantity of water diverted, are subject to the continuing authority of the State Water Board in accordance with law and in the interest of the public welfare to protect public trust uses and to prevent waste, unreasonable use, unreasonable method of use, or unreasonable method of diversion of said water. |
| **22.** | The cannabis cultivator shall control all dust related to cannabis cultivation activities to ensure dust does not produce sediment-laden runoff. The cannabis cultivator shall implement dust control measures, including, but not limited to, pre-watering of excavation or grading sites, use of water trucks, track-out prevention, washing down vehicles or equipment before leaving a site, and prohibiting land disturbance activities when instantaneous wind speeds (gusts) exceed 25 miles per hour. Diversion of surface water for dust control is prohibited unless authorized under a valid water right. |

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| **23.** | To minimize the risk of ensnaring and strangling wildlife, cannabis cultivators shall not use synthetic (e.g., plastic or nylon) monofilament netting materials for erosion control or any cannabis cultivation activities. This prohibition includes photo- or bio-degradable plastic netting. |
| **24.** | Cannabis cultivators shall not discharge in a manner that creates or threatens to create a condition of pollution or nuisance, as defined by Water Code section 13050. |
| **25.** | Except as allowed and authorized in this Policy, cannabis cultivators shall not discharge:<br>• irrigation runoff, tailwater, sediment, plant waste, or chemicals to surface water or via surface runoff;<br>• waste classified as hazardous (California Code of Regulations, title 23, section 2521(a)) or defined as a designated waste (Water Code section 13173); or<br>• waste in violation of, or in a manner inconsistent with, the appropriate Water Quality Control Plan(s). |
| **26.** | Unless authorized by separate waste discharge requirements or, a CWA section 404 permit, the following discharges are prohibited:<br>• any waste that could affect the quality of the waters of the state; or<br>• wastewater from cannabis manufacturing activities defined in Business and Professions Code section 26100, indoor grow operations, or other industrial wastewater to an onsite wastewater treatment system (e.g., septic tank and associated disposal facilities), to surface water, or to land. |
| **27.** | Unless authorized by a Regional Water Board site-specific WDR, cannabis cultivators shall not cultivate cannabis or have cannabis cultivation related land disturbance on slopes greater than 50 percent. This prohibition does not apply to roads that are constructed consistent with the design, construction, and maintenance guidelines presented in this Policy and the Handbook for Forest, Ranch, and Rural Road[12] (hereafter, Road Handbook). |
| **28.** | Cannabis cultivators shall not use a cesspool for domestic or industrial wastewater. Cannabis cultivators shall not install or continue use of an outhouse, pit-privy, pit-toilet, or similar device without approval from the Regional Water Board Executive Officer of the applicable Regional Water Board. |
| **29.** | In timberland areas, unless authorized by CAL FIRE or the Regional Water Board Executive Director, Cannabis cultivators shall not remove trees within 150 feet of fish bearing water bodies or 100 feet of aquatic habitat for non-fish aquatic species (e.g., aquatic insects). (Public Resources Code section 4526.) |
| **30.** | After July 1, 2017, and prior to initiating any land disturbance, Tier 2 cannabis cultivators located on slopes greater than 30% and less than 50% must submit a Site Erosion and Sediment Control Plan to the Regional Water Board Executive Officer for any cannabis-related land development or alteration. The Site Erosion and Sediment Control Plan shall be approved by the applicable Regional Water Board Executive Director prior to the cannabis |

[12] The Handbook for Forest, Ranch, and Rural Roads (Weaver 2015) describes how to implement the Forest Practice Rules requirements for road construction and is available at: http://www.pacificwatershed.com/sites/default/files/RoadsEnglishBOOKapril2015b.pdf.

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| | cultivator initiating any land disturbance. If any land disturbance was conducted on sites with slopes greater than 30% prior to July 1, 2017, cannabis cultivators must maintain substantial documentation and evidence of the land disturbance activities, and have it on site and available for review upon request. |
| **31.** | Enrollees under any Cannabis General Order implementing this Policy shall self-certify that all applicable Requirements in this Policy have been or will be implemented no later than November 15 of the same year as the enrollment date and each year thereafter. If enrollment occurs after November 15, enrollees shall self-certify that all applicable Requirements in this Policy will be implemented by November 15 of the next calendar year, and each year thereafter. Those cannabis cultivators that cannot implement all applicable Requirements by November 15 shall, within 90 days of application submittal, submit to the Executive Officer of the applicable Regional Water Board a time schedule and scope of work for use by the Regional Water Board in developing a compliance schedule. |
| **32.** | Tier 2 cannabis cultivators located on slopes greater than 30 percent and less than 50 percent shall not conduct new land disturbance activities for cannabis cultivation land development or alteration on slopes between 30 percent and 50 percent unless the cannabis cultivator either:<br>• has substantial documentation and evidence maintained on site and available upon request, that any land disturbance activities for cannabis cultivation on slopes greater than 30 percent were completed prior to July 1, 2017, or<br>• within 90 days of Cannabis General Order application submittal submit a *Site Erosion and Sediment Control Plan* to the Regional Water Board Executive Officer, for approval, prior to any new land development or alteration for cannabis cultivation that occurs after July 1, 2017. The Regional Water Board Executive Officer may deny the request to conduct new land disturbance activities for cannabis cultivation if local conditions (e.g., soil type, site instability, proximity to a waterbody, etc.) do not allow for adequate erosion and sediment control measures to ensure discharges to waters of the state will not occur. If the cannabis cultivator does not submit a *Site Erosion and Sediment Control Plan* for approval prior to new land disturbance and within 90 days of application submittal the authorization pursuant to the Cannabis General Order may be revoked. |
| **33.** | Cannabis cultivators shall implement interim Requirements immediately following land disturbance, to minimize discharges of waste constituents. Interim Requirements are those that are implemented immediately upon site development cannabis cultivators shall complete all winterization Requirements prior to the onset of fall and winter precipitation and no later than November 15 of each year, to prevent waste discharges that may result in water quality degradation. |
| **34.** | Cannabis cultivators shall not cause downstream exceedance of applicable water quality objectives identified in the applicable water quality control plan(s). |
| **35.** | The land owner is ultimately responsible for any water quality degradation that occurs on or emanates from its property and for water diversions that are not in compliance with this Policy. Land owners will be named as responsible parties and will be notified if a Cannabis General Order Notice of Applicability (NOA) or conditional exemption has been issued for cannabis activities on their property. The cannabis cultivator and the land owner will be held |

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<tr><th>No.</th><th>TERM</th></tr>
<tr><td></td><td>responsible for correcting non-compliance with this Policy.</td></tr>
<tr><td>36.</td><td>Cannabis cultivators shall comply with the minimum riparian setbacks described below for all land disturbance, cannabis cultivation activities, and facilities (e.g., material or vehicle storage, diesel powered pump locations, water storage areas, and chemical toilet placement). The riparian setbacks shall be measured from the waterbody's bankfull stage (high flow water levels that occur every 1.5 to 2 years[13]) or from the top edge of the waterbody bank in incised channels, whichever is more conservative. Riparian setbacks for springheads shall be measured from the springhead in all directions (circular buffer). Riparian setbacks for wetlands shall be measured from the edge of the bankfull water level. The cannabis cultivator shall increase riparian setbacks as needed or implement additional Requirements to meet the performance Requirement of protecting surface water from discharges that threaten water quality. If the cannabis cultivation Site cannot be managed to protect water quality, the Executive Officer of the applicable Regional Water Board may revoke authorization for cannabis cultivation activities at the cannabis cultivation site.<br><br>Minimum Riparian Setbacks[1]<br><table><tr><th>Common Name</th><th>Watercourse Class</th><th>Distance (Low Risk[2])</th><th>Distance (Mod Risk[2])</th><th>Variance[3]</th></tr><tr><td>Perennial watercourses, springs, or seeps</td><td>I</td><td>150 ft.</td><td>200 ft.</td><td>Compliance Schedule</td></tr><tr><td>Intermittent watercourses</td><td>II</td><td>100 ft.</td><td>150 ft.</td><td>Compliance Schedule</td></tr><tr><td>Ephemeral watercourses</td><td>III</td><td>50 ft.</td><td>100 ft.</td><td>Compliance Schedule</td></tr><tr><td>Other waterbodies (lakes, etc.) and wetlands</td><td></td><td>150 ft.</td><td>200 ft.</td><td>Compliance Schedule</td></tr></table>1 Riparian setbacks do not apply to man-made irrigation canals, water supply reservoirs, and hydroelectric canals (Watercourse Class IV) that do not support native aquatic species, however cannabis cultivators shall ensure land disturbance, cannabis cultivation activities, and facilities are not located in or disturb the existing riparian and wetland riparian vegetation associated with these Watercourse Class IV waterbodies.<br>2 Risk is defined in Table 1 of this Policy and is based on the natural (prior to land disturbance activities) surface topography.<br>3 Variance to riparian setbacks is only allowed if consistent with this Policy and a work plan and compliance schedule are approved by the applicable Regional Water Board Executive Officer.</td></tr>
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[13] California Forest Practice Rules Title 14, California Code of Regulations Chapter 4, section 895.1.

## Cannabis General Water Quality Certification

The State Water Board certifies that cannabis cultivation activities in compliance with the conditions of the Policy and General Order will comply with sections 301, 302, 303, 306, and 307 of the Clean Water Act, and with applicable provisions of State law, subject to the following additional terms and conditions:

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| 1. | This certification action is subject to modification or revocation upon administrative or judicial review; including review and amendment pursuant to Water Code section 13330 and California Code of Regulations, title 23, section 3867. |
| 2. | This certification action is not intended and shall not be construed to apply to any discharge from any activity involving a hydroelectric facility requiring a Federal Energy Regulatory Commission (FERC) license or an amendment to a FERC license unless the pertinent certification application was filed pursuant to California Code of Regulations, title 23, section 3855, subdivision (b), and the application specifically identified that a FERC license or amendment to a FERC license for a hydroelectric facility was being sought. |
| 3. | This certification is conditioned upon total payment of any fee required under California Code of Regulations, title 23, division 3, chapter 28. |
| 4. | A cannabis cultivator seeking water quality certification coverage for activities in surface waters shall notify the Executive Officer of the Regional Water Board or State Water Board Executive Director at least 60 days prior to commencement of the activity and submit information regarding the construction schedule and other relevant information. Work may not commence until the cannabis cultivator is provided authorization by the appropriate Executive Officer of the Regional Water Board or Executive Director of the State Water Board. The Executive Officer of the Regional Water Board or Executive Director of the State Water Board may include specific monitoring requirements for turbidity and other constituents that may be associated with the activity to ensure applicable state water quality standards are met. |
| 5. | The authorization of this certification for any coverage under this Cannabis General Water Quality Certification or dredge and fill activities expires five years from the date this Policy is approved by the Office of Administrative Law. |
| 6. | Upon completion of the discharges of dredged or fill material, the cannabis cultivator shall submit a Notice of Completion certifying that all the conditions and monitoring and reporting requirements of this General Water Quality Certification, including the Policy, Cannabis General Order (if applicable), and conditions imposed by the Regional Water Board Executive Officer or State Water Board Executive Director, have been met. |
| 7. | All Policy and Cannabis General Order Requirements, standard conditions, general terms and provisions, and prohibitions are enforceable conditions of this General Water Quality Certification. |
| 8. | In the event of any violation or threatened violation of the conditions of this General Water Quality Certification, the violation or threatened violation shall be subject to any remedies, penalties, processes, or sanctions as provided for under state law. For purposes of section |

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| | 401(d) of the Clean Water Act, the applicability of any state law authorizing remedies, penalties, process, or sanctions for the violation or threatened violation constitutes a limitation necessary to assure compliance with the water quality standards and other pertinent requirements incorporated into this certification. |
| **9.** | This General Water Quality Certification may be modified as needed by the Executive Director of the State Water Board. |

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# SECTION 2 – REQUIREMENTS RELATED TO WATER DIVERSIONS AND WASTE DISCHARGE FOR CANNABIS CULTIVATION

The following Requirements apply to any water diversion or waste discharge related to cannabis cultivation.

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| **Land Development and Maintenance, Erosion Control, and Drainage Features** | |
| **Limitations on Earthmoving** | |
| **1.** | All grading and earthwork shall be done by a state-licensed C-12 Earthwork and Paving contractor[14], as applicable. |
| **2.** | Cannabis cultivators shall not conduct grading activities for cannabis cultivation land development or alteration on slopes exceeding 50 percent grade, or as restricted by local county or city permits, ordinances, or regulations for grading, agriculture, or cannabis cultivation; whichever is more stringent shall apply.<br><br>Cannabis cultivators shall not conduct grading activities for cannabis cultivation land development or alteration on slopes between 30 percent and 50 percent unless the cannabis cultivator either:<br>• has substantial documentation and evidence maintained on site and available upon request, that any grading activities for cannabis cultivation on slopes greater than 30 percent were completed prior to July 1, 2017, or<br>• submits a *Site Erosion and Sediment Control Plan* to the Regional Water Board Executive Officer, for approval, prior to any land development or alteration for cannabis cultivation that occurs after July 1, 2017 on slopes between 30 percent and 50 percent. The Regional Water Board Executive Officer may deny the request to conduct grading activities for cannabis cultivation land development or alteration on slopes greater than 30 percent if local conditions (e.g., soil type, site instability, proximity to a waterbody, etc.) do not allow for adequate erosion and sediment control measures to ensure discharges to waters of the state will not occur.<br><br>The grading prohibition on slopes exceeding 50 percent does not apply to:<br>• site mitigation or remediation if the cannabis cultivator is issued separate WDRs for the activity by the Regional Water Board Executive Officer, or<br>• roads that are constructed consistent with the design, construction, and maintenance guidelines presented in this Policy and Road Handbook. |

[14] An earthwork and paving contractor digs, moves, and places material forming the surface of the earth, other than water, in such a manner that a cut, fill, excavation, grade, trench, backfill, or tunnel (if incidental thereto) can be executed, including the use of explosives for these purposes. This classification includes the mixing, fabricating and placing of paving and any other surfacing materials. See California Code of Regulations Title 16, Division 8, Article 3. Classifications.

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| 3. | Finished cut and fill slopes, including side slopes between terraces, shall not exceed slopes of 50 percent (1:2 slope) and should conform to the natural pre-grade slope whenever possible. |
| 4. | Cannabis cultivators shall not fuel, clean, maintain, repair, or store vehicles or equipment within the riparian setbacks or within waters of the state. Cannabis cultivators shall not drive or operate vehicles or equipment within the riparian setbacks or within waters of the state unless authorized by a CWA section 404 permit, a CDFW LSA Agreement, or WDRs issued by the State Water Board or Regional Water Board. |
| 5. | Cannabis cultivation land development and road construction shall be designed by a qualified professional. Cannabis cultivators shall conduct all construction or land development activities to minimize grading, soil disturbance, and disturbance to aquatic and terrestrial habitat. Cannabis cultivators shall conduct all road design, land development, and construction activities in compliance with the California Forest Practices Act and any state, county, city, or local requirements, as applicable. |
| **Construction Equipment Use and Limitations** | |
| 6. | Cannabis cultivators shall employ spill control and containment practices to prevent the discharge of fuels, oils, solvents and other chemicals to soils and Waters of the State. |
| 7. | Cannabis cultivators shall not stage or store any equipment, materials, fuels, lubricants, solvents, or hazardous or toxic materials where they have the potential to contact or enter Waters of the State (e.g., via storm water runoff, percolation, etc.). At a minimum, the following precautionary measures shall be implemented:<br>1. Schedule land disturbance activities for dry weather periods.<br>2. Designate an area outside the riparian setback for equipment storage, short-term maintenance, and refueling. Cannabis cultivator shall not conduct any maintenance activity or refuel equipment in any location where the petroleum products or other pollutants may enter Waters of the State as per Fish and Game Code section 5650 (a)(1).<br>3. Frequently inspect equipment and vehicles for leaks, and immediately make necessary repairs.<br>4. Immediately clean up leaks, drips, and other spills to avoid soil, surface water, and/or groundwater contamination. Except for emergency repairs that are immediately necessary, conduct equipment/vehicle repairs, maintenance, and washing offsite.<br>5. Do not generate any waste fluids (e.g., motor oil, radiator coolant, etc.) at the cannabis cultivation site. If emergency repairs generate waste fluids, ensure they are contained and properly disposed or recycled.<br>6. Do not dispose of construction debris on-site. All debris shall be properly disposed of or recycled.<br>7. Use dry cleanup methods (e.g., absorbent materials, cat litter, and/or rags) |

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| | whenever possible.<br>8. Sweep up, contain, and properly dispose of spilled dry materials. |
| **Erosion Control** | |
| **8.** | The cannabis cultivator shall implement control measures for erosion, excessive sedimentation, and turbidity. Control measures shall be in place at the commencement of, during, and after any activities that could result in erosion or sediment discharges to surface waters and shall be maintained until the land disturbance is stabilized. The cannabis cultivator shall consult with a qualified professional to identify potential erosion or sediment discharges and the appropriate control measures. |
| **9.** | The cannabis cultivator shall use erosion control blankets, liners, or other erosion control measures for any unstabilized stockpiles of excavated material to control runoff resulting from precipitation and to prevent material from contacting or entering Waters of the State. Fill soil shall not be placed where it may discharge into Waters of the State. Wattles shall be installed on contours and mats/blankets shall be installed per manufacturer's guidelines. If used, weed-free straw mulch shall be applied at a rate of two tons per acre of exposed soils and, if warranted by site conditions, shall be secured to the ground. Erosion control measures shall be placed and maintained until the threat of erosion ceases. Consultation with a qualified professional is recommended for successful storm water pollution prevention. |
| **10.** | The cannabis cultivator shall not plant or seed noxious weeds. Prohibited plant species include those identified in the California Exotic Pest Plant Council's database, available at: www.cal-ipc.org/paf/. Locally native, non-invasive, and non-persistent grass species may be used for temporary erosion control benefits to stabilize disturbed land and prevent exposure of disturbed land to rainfall. Nothing in this term may be construed as a ban on cannabis cultivation that complies with the terms of this Policy. |
| **11.** | Cannabis cultivators shall incorporate erosion control and sediment detention devices and materials into the design, work schedule, and implementation of the cannabis cultivation activities. The erosion prevention and sediment capture measures shall be effective in protecting water quality.<br>Interim erosion prevention and sediment capture measures shall be implemented within seven days of completion of grading and land disturbance activities, and shall consist of erosion prevention measures and sediment capture measures including:<br>• Erosion prevention measures are required for any earthwork that uses heavy equipment (e.g., bulldozer, compactor, excavator, etc.). Erosion prevention measures may include surface contouring, slope roughening, and upslope storm water diversion. Other types of erosion prevention measures may include mulching, hydroseeding, tarp placement, revegetation, and rock slope protection.<br>• Sediment capture measures include the implementation of measures such as gravel bag berms, fiber rolls, straw bale barriers, properly installed silt fences, and sediment settling basins. |

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| | • Cannabis cultivators shall implement long-term erosion prevention and sediment capture measures as soon as possible and prior to the onset of fall and winter precipitation. Long-term measures may include the use of heavy equipment to reconfigure roads or improve road drainage, installation of properly-sized culverts, gravel placement on steeper grades, and stabilization of previously disturbed land.<br><br>• Cannabis cultivators shall continually maintain all erosion prevention and sediment capture measures. Early monitoring allows for identification of problem areas or underperforming erosion or sediment control measures. Verification of the effectiveness of all erosion prevention and sediment capture measures is required as part of winterization activities. |
| **12.** | Cannabis cultivators shall only use geotextiles, fiber rolls, and other erosion control measures made of loose-weave mesh (e.g., jute, coconut (coir) fiber, or from other products without welded weaves). |
| **13.** | Cannabis cultivators shall not cultivate cannabis or engage in any land disturbance or site preparation activities on or near slopes until a qualified professional has inspected the slope for indications of instability. Indications of instability include the occurrence of slope failures at nearby similar sites, weak soil layers, geologic bedding parallel to slope surface, hillside creep (trees, fence posts, etc. leaning downslope), tension cracks in the slope surface, bulging soil at the base of the slope, and groundwater discharge from the slope. If indicators of instability are present, the cannabis cultivator shall consult with a qualified professional to design measures to stabilize the slope to prevent sediment discharge to surface waters. Cannabis cultivators shall not cultivate cannabis or engage in any land disturbance or site preparation activities until all slope stabilization measures have been implemented. |
| **14.** | For areas outside of riparian setbacks or for upland areas, cannabis cultivators shall ensure that rock placed for slope protection is the minimum amount necessary and is part of a design that provides for native plant revegetation. If retaining walls or other structures are required to provide slope stability, they shall be designed by a qualified professional. |
| **15.** | Cannabis cultivators shall monitor erosion control measures during and after each storm event and repair or replace, as applicable, ineffective erosion control measures immediately. |
| **Private Road/Land Development and Drainage** | |
| **16.** | Cannabis cultivators shall obtain all required permits and approvals prior to the construction of any road constructed for cannabis cultivation activities. Permits may include section 404/401 CWA permits, Regional Water Board WDRs (when applicable), CDFW LSA Agreement, and county or local agency permits. |
| **17.** | Cannabis cultivators shall ensure that any new roads and existing roads are constructed or upgraded to be consistent with the requirements of the Forest Practice Rules. The Road Handbook describes how to implement the Forest Practice Rules requirements for road construction. |

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| **18.** | Cannabis cultivators shall ensure that all new roads as of July 1, 2017, are designed to: 1) maximize the distance between the road and all watercourses; 2) minimize the number of watercourse crossings; 3) be hydrologically disconnected from receiving waters, to the extent possible; and 4) reduce erosion and sediment transport to streams. |
| **19.** | Cannabis cultivators shall ensure that all roadways are hydrologically disconnected to receiving waters to the extent possible by: 1) installing disconnecting drainage features; 2) increasing the frequency of (inside) ditch drain relief; 3) constructing out-sloped roads; 4) applying treatment to dissipate energy, disperse flows, and filter sediment; and 5) avoiding concentrating flows in unstable areas. |
| **20.** | Cannabis cultivators shall decommission or relocate existing roads away from riparian setbacks whenever possible. Roads that are proposed for decommissioning shall be abandoned and left in a condition that provides for long-term, maintenance-free function of drainage and erosion controls. Abandoned roads shall be blocked to prevent unauthorized vehicle traffic. |
| **21.** | If site conditions prohibit drainage structures (including rolling dips and ditch-relief culverts) at adequate intervals to avoid erosion, the cannabis cultivator shall use bioengineering techniques[15] as the preferred measure to minimize erosion (e.g., live fascines). If bioengineering cannot be used, then engineering fixes such as armoring (e.g., rock of adequate size and depth to remain in place under traffic and flow conditions) and velocity dissipaters (e.g., gravel-filled "pillows" in an inside ditch to trap sediment) may be used for problem sites. The maximum distance between water breaks shall not exceed those defined in the Road Handbook. |
| **22.** | Cannabis cultivators shall only grade roads in dry weather while moisture is still present in soil to minimize dust and to achieve design soil compaction. When needed, cannabis cultivators may use a water truck to control dust and soil moisture. A valid water right is required for any surface water diverted for soil moisture and dust control. |
| **23.** | Cannabis cultivators shall have a qualified professional design the optimal road alignment, surfacing, drainage, maintenance requirements, and spoils handling procedures. |
| **24.** | Cannabis cultivators shall ensure that road surfacing, especially within a segment leading to a wetland or waterbody, is sufficient to minimize sediment delivery to the wetland or waterbody and maximize road integrity. Road surfacing may include pavement, chip-seal, lignin, rock, or other material appropriate for timing and nature of use. All roads that will be used for winter or wet weather hauling/traffic shall be surfaced. Steeper road grades require higher quality rock (e.g., crushed angular versus river-run) to remain in place. The use of asphalt grindings is prohibited. |
| **25.** | Cannabis cultivators shall install erosion control measures on all road approaches to |

[15] A Primer on Stream and River Protection for the Regulator and Program Manager: Technical Reference Circular W.D. 02-#1, San Francisco Bay Region, California Regional Water Board (April 2003) http://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/stream_wetland/streamprotectioncircular.pdf.

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| | surface water diversion sites to reduce the generation and transport of sediment to streams. |
| **26.** | Cannabis cultivators shall ensure that roads are out-sloped whenever possible to promote even drainage of the road surface, prevent the concentration of storm water flow within an inboard or inside ditch, and to minimize disruption of the natural sheet flow pattern off a hill slope to a stream. If unable to eliminate inboard or inside ditches, the cannabis cultivator shall ensure adequate ditch relief culverts to prevent down-cutting of the ditch and to reduce water runoff concentration, velocity, and erosion. Ditches shall be designed and maintained as recommended by a qualified professional. To avoid point-source discharges, inboard ditches and ditch relief culverts shall be discharged onto vegetated or armored slopes that are designed to dissipate and prevent runoff channelization. Inboard ditches and ditch relief culverts shall be designed to ensure discharges into natural stream channels or watercourses are prevented. |
| **27.** | Cannabis cultivators shall ensure that neither in-sloped nor out-sloped roads are allowed to develop or show evidence of significant surface rutting or gullying. Cannabis cultivators shall use water bars and rolling dips as designed by a qualified professional to minimize road surface erosion and dissipate runoff. |
| **28.** | Cannabis cultivators shall only grade ditches when necessary to prevent erosion of the ditch, undermining of the banks, or exposure of the toe of the cut slope to erosion. Cannabis cultivators shall not remove more vegetation than necessary to keep water moving, as vegetation prevents scour and filters out sediment. |
| **29.** | Cannabis cultivators shall ensure that all road surface storm water drainage is discharged to a stable location away from wetlands and waterbodies as designed by a qualified professional. Sediment control devices (e.g., check dams, sand/gravel bag barriers, etc.) shall be used when it is not practical to disperse storm water before discharge to a waterbody. Where potential discharge to a wetland or waterbody exists (e.g., within 200 feet of a waterbody) road surface drainage shall be filtered through vegetation, slash, other appropriate material, or settled into a depression with an outlet with adequate drainage. Sediment basins shall be engineered and properly sized to allow sediment settling, spillway stability, and maintenance activities. |
| **Drainage Culverts** | |
| **30.** | Cannabis cultivators shall regularly inspect ditch-relief culverts and clear them of any debris or sediment. To reduce culvert plugging by debris, cannabis cultivators shall use 15- to 24-inch diameter pipes, at minimum, for ditch relief culverts. Ditch relief culverts shall be designed by a qualified professional based on site-specific conditions. In forested areas with a potential for woody debris, a minimum 18-inch diameter pipe shall be used to reduce clogging. |
| **31.** | Cannabis cultivators shall ensure that all permanent watercourse crossings that are constructed or reconstructed are capable of accommodating the estimated 100-year flood flow, including debris and sediment loads. Watercourse crossings shall be designed and sized by a qualified professional. |

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| **Cleanup, Restoration, and Mitigation** | |
| **32.** | Cannabis cultivators shall limit disturbance to existing grades and vegetation to the actual site of the cleanup or remediation and any necessary access routes. |
| **33.** | Cannabis cultivators shall avoid damage to native riparian vegetation. All exposed or disturbed land and access points within the stream and riparian setback with damaged vegetation shall be restored with regional native vegetation of similar native species. Riparian trees over four inches diameter at breast height shall be replaced by similar native species at a ratio of three to one (3:1). Restored areas must be mulched, using at least 2 to 4 inches of weed-free, clean straw or similar biodegradable mulch over the seeded area. Revegetation and mulching shall be completed within 30 days after land disturbance activities in the areas cease.<br><br>Cannabis cultivators shall stabilize and restore any temporary work areas with native vegetation to pre-cannabis cultivation or pre-Legacy conditions or better. Vegetation shall be planted at an adequate density and variety to control surface erosion and re-generate a diverse composition of regional native vegetation of similar native species. |
| **34.** | Cannabis cultivators shall avoid damage to oak woodlands. Cannabis cultivator shall plant three oak trees for every one oak tree damaged or removed. Trees may be planted in groves in order to maximize wildlife benefits and shall be native to the local county. |
| **35.** | Cannabis cultivators shall develop a revegetation plan for:<br>• All exposed or disturbed riparian vegetation areas,<br>• any oak trees that are damaged or removed, and<br>• temporary work areas.<br><br>Cannabis cultivators shall develop a monitoring plan that evaluates the revegetation plan for five years. Cannabis cultivators shall maintain annual inspections for the purpose of assessing an 85 percent survival and growth of revegetated areas within a five-year period. The presence of exposed soil shall be documented for three years following revegetation work. If the revegetation results in less than an 85 percent success rate, the unsuccessful vegetation areas shall be replanted. Cannabis cultivators shall identify the location and extent of exposed soil associated with the site; pre- and post-revegetation work photos; diagram of all areas revegetated, the planting methods, and plants used; and an assessment of the success of the revegetation program. Cannabis cultivators shall maintain a copy of the revegetation plan and monitoring results onsite and make them available, upon request, to Water Boards staff or authorized representatives. An electronic copy of monitoring results is acceptable in Portable Document Format (PDF). |
| **36.** | Cannabis cultivators shall revegetate soil exposed as a result of cannabis cultivation activities with native vegetation by live planting, seed casting, or hydroseeding within seven days of exposure. |
| **37.** | Cannabis cultivators shall prevent the spread or introduction of exotic plant species to the maximum extent possible by cleaning equipment before delivery to the cannabis cultivation Site and before removal, restoring land disturbance with appropriate native species, and |

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| | post-cannabis cultivation activities monitoring and control of exotic species. Nothing in this term may be construed as a ban on cannabis cultivation that complies with the terms of this Policy. |
| **Stream Crossing Installation and Maintenance** | |
| **Limitations on Work in Watercourses and Permanently Ponded Areas** | |
| **38.** | Cannabis cultivators shall obtain all applicable permits and approvals prior to doing any work in or around waterbodies or within the riparian setbacks. Permits may include section 404/401 CWA permits, Regional Water Board WDRs (when applicable), and a CDFW LSA Agreement. |
| **39.** | Cannabis cultivators shall avoid or minimize temporary stream crossings. When necessary, temporary stream crossings shall be located in areas where erosion potential and damage to the existing habitat is low. Cannabis cultivators shall avoid areas where runoff from roadway side slopes and natural hillsides will drain and flow into the temporary crossing. Temporary stream crossings that impede fish passage are strictly prohibited on permanent or seasonal fish-bearing streams. |
| **40.** | Cannabis cultivators shall avoid or minimize use of heavy equipment[16] in a watercourse. If use is unavoidable, heavy equipment may only travel or work in a waterbody with a rocky or cobbled channel. Wood, rubber, or clean native rock temporary work pads shall be used on the channel bottom prior to use of heavy equipment to protect channel bed and preserve channel morphology. Temporary work pads and other channel protection shall be removed as soon as possible once the use of heavy equipment is complete. |
| **41.** | Cannabis cultivators shall avoid or minimize work in or near a stream, creek, river, lake, pond, or other waterbody. If work in a waterbody cannot be avoided, activities and associated workspace shall be isolated from flowing water by directing the water around the work site. If water is present, then the cannabis cultivator shall develop a site-specific plan prepared by a qualified professional. The plan shall consider partial or full stream diversion and dewatering. The plan shall consider the use of coffer dams upstream and downstream of the work site and the diversion of all flow from upstream of the upstream dam to downstream of the downstream dam, through a suitably sized pipe. Cannabis cultivation activities and associated work shall be performed outside the waterbody from the top of the bank to the maximum extent possible. |
| **Temporary Watercourse Diversion and Dewatering: All Live Watercourses** | |
| **42.** | Cannabis cultivators shall ensure that coffer dams are constructed prior to commencing work and as close as practicable upstream and downstream of the work area. Cofferdam construction using offsite materials, such as clean gravel bags or inflatable dams, is preferred. Thick plastic may be used to minimize leakage, but shall be completely removed and properly disposed of upon work completion. If the coffer dams or stream diversion fail, |

[16] Heavy equipment is defined as large pieces of machinery or vehicles, especially those used in the building and construction industry (e.g., bulldozers, excavators, backhoes, bobcats, tractors, etc.).

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| | the cannabis cultivator shall repair them immediately. |
| **43.** | When any dam or other artificial obstruction is being constructed, maintained, or placed in operation, the cannabis cultivator shall allow sufficient water at all times to pass downstream to maintain aquatic life below the dam pursuant to Fish and Game Code section 5937. |
| **44.** | If possible, gravity flow is the preferred method of water diversion. If a pump is used, the cannabis cultivator shall ensure that the pump is operated at the rate of flow that passes through the cannabis cultivation site. Pumping rates shall not dewater or impound water on the upstream side of the coffer dam. When diversion pipe is used it shall be protected from cannabis cultivation activities and maintained to prevent debris blockage. |
| **45.** | Cannabis cultivators shall only divert water such that water does not scour the channel bed or banks at the downstream end. Cannabis cultivator shall divert flow in a manner that prevents turbidity, siltation, and pollution and provides flows to downstream reaches. Cannabis cultivators shall provide flows to downstream reaches during all times that the natural flow would have supported aquatic life. Flows shall be of sufficient quality and quantity, and of appropriate temperature to support fish and other aquatic life both above and below the diversion. Block netting and intake screens shall be sized to protect and prevent impacts to fish and wildlife. |
| **46.** | Once water has been diverted around the work area, cannabis cultivators may dewater the site to provide an adequately dry work area. Any muddy or otherwise contaminated water shall be pumped to a settling tank, dewatering filter bag, or upland area, or to another location approved by CDFW or the appropriate Regional Water Board Executive Officer prior to re-entering the watercourse. |
| **47.** | Upon completion of work, cannabis cultivators shall immediately remove the flow diversion structure in a manner that allows flow to resume with a minimum of disturbance to the channel substrate and that minimizes the generation of turbidity. |
| **48.** | A qualified biologist shall, in consultation with CDFW, develop, implement, and oversee a site-specific Capture and Relocation Plan that addresses all potential aquatic life found in dewatered areas. Under the Capture and Relocation Plan all reasonable efforts shall be made to avoid stranding aquatic life and include information regarding how aquatic life observed in dewatered areas will be captured and relocated. Capture methods may include fish landing nets, dip nets, buckets, and by hand. Captured aquatic life shall be released immediately in the waterbody closest to the work site. Efforts will be made to reduce collecting and handling stress, minimize the time that animals are held in buckets, and minimize handling stress during processing and release. Cannabis cultivators or contractors shall not remove any fish, dead or alive, from the site for personal use. If listed species are captured, the cannabis cultivator shall contact CDFW. The cannabis cultivator shall fully implement the Capture and Relocation Plan prior to dewatering. |

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| Watercourse Crossings | |
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| **49.** | Cannabis cultivators shall ensure that watercourse crossings are designed by a qualified professional. |
| **50.** | Cannabis cultivators shall ensure that all road watercourse crossing structures allow for the unrestricted passage of water and shall be designed to accommodate the estimated 100-year flood flow and associated debris (based upon an assessment of the streams potential to generate debris during high flow events). Consult CAL FIRE 100 year Watercourse Crossings document for examples and design calculations, available at: http://www.calfire.ca.gov/resource_mgt/downloads/ reports/ForestryReport1.pdf. |
| **51.** | Cannabis cultivators shall ensure that watercourse crossings allow migration of aquatic life during all life stages supported or potentially supported by that stream reach. Design measures shall be incorporated to ensure water depth and velocity does not inhibit migration of aquatic life. Any road crossing structure on watercourses that supports fish shall be constructed for the unrestricted passage of fish at all life stages, and should use the following design guidelines:<br>• CDFW's *Culvert Criteria for Fish Passage;*<br>• CDFW's *Salmonid Stream Habitat Restoration Manual, Volume 2, Part IX: Fish Passage Evaluation at Stream Crossings; and*<br>• National Marine Fisheries Service, Southwest Region *Guidelines for Salmonid Passage at Stream Crossings.* |
| **52.** | Cannabis cultivators shall conduct regular inspection and maintenance of stream crossings to ensure crossings are not blocked by debris. Refer to California Board of Forestry Technical Rule No. 5 available at: http://www.calforests.org/wp-content/uploads/2013/10/Adopted-TRA5.pdf. |
| **53.** | Cannabis cultivators shall only use rock fords for temporary seasonal crossings on small water bodies where aquatic life passage is not required during the time period of use. Rock fords shall be oriented perpendicular to the flow of the watercourse and designed to maintain the range of surface flows that occur in the watercourse. When constructed, rock shall be sized to withstand the range of flow events that occur at the crossing and rock shall be maintained at the rock ford to completely cover the channel bed and bank surfaces to minimize soil compaction, rutting, and erosion. Rock must extend on either side of the ford up to the break in slope. The use of rock fords as watercourse crossings for all-weather road use is prohibited. |
| **54.** | Cannabis cultivators shall ensure that culverts used at watercourse crossings are designed to direct flow and debris toward the inlet (e.g., use of wing-walls, pipe beveling, rock armoring, etc.) to prevent erosion of road fill, debris blocking the culvert, and watercourses from eroding a new channel. |
| **55.** | Cannabis cultivators shall regularly inspect and maintain the condition of roads, road drainage features, and watercourse crossings. At a minimum, cannabis cultivators shall perform inspections prior to the onset of fall and winter precipitation and following storm events. Cannabis cultivators are required to perform all of the following maintenance: |

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| | • Remove any wood debris that may restrict flow in a culvert.<br>• Remove sediment that impacts road or drainage feature performance. Place any removed sediment in a location outside the riparian setbacks and stabilize the sediment.<br>• Maintain records of road and drainage feature maintenance and consider redesigning the road to improve performance and reduce maintenance needs. |
| **56.** | Cannabis cultivators shall compact road crossing approaches and fill slopes during installation and shall stabilize them with rock or other appropriate surface protection to minimize surface erosion. Cannabis cultivators shall ensure that roads over culverts are equipped with a critical dip to ensure that, if the culvert becomes blocked or plugged, water can flow over the road surface without washing away the fill prism. Road crossings where specific conditions do not allow for a critical dip or in areas with potential for significant debris accumulation, shall include additional measures such as emergency overflow culverts or oversized culverts that are designed by a qualified professional. |
| **57.** | Cannabis cultivators shall ensure that culverts used at watercourse crossings are: 1) installed parallel to the watercourse alignment to the extent possible, 2) of sufficient length to extend beyond stabilized fill/sidecast material, and 3) installed at the same level and gradient of the streambed in which they are being placed to prevent erosion. |
| **Soil Disposal and Spoils Management** | |
| **58.** | Cannabis cultivators shall only store soil, construction, and waste materials outside the riparian setback except as needed for immediate construction needs. Such materials shall not be stored in locations of known slope instability or where the storage of construction or waste material could reduce slope stability. |
| **59.** | Cannabis cultivators shall separate large organic material (e.g., roots, woody debris, etc.) from soil materials. Cannabis cultivators shall either place the large organic material in long-term, upland storage sites, or properly dispose of these materials offsite. |
| **60.** | Cannabis cultivators shall store erodible soil, soil amendments, and spoil piles to prevent sediment discharges in storm water. Storage practices may include use of tarps, upslope land contouring to divert surface flow around the material, or use of sediment control devices (e.g., silt fences, straw wattles, etc.). |
| **61.** | Cannabis cultivators shall contour and stabilize stored spoils to mimic natural slope contours and drainage patterns (as appropriate) to reduce the potential for fill saturation and slope failure. |
| **62.** | For soil disposal sites cannabis cultivators shall:<br>• revegetate soil disposal sites with a mix of native plant species,<br>• cover the seeded and planted areas with mulched straw at a rate of two tons per acre, and<br>• apply non-synthetic netting or similar erosion control fabric (e.g., jute) on slopes greater than 2:1 if the site is erodible. |
| **63.** | Cannabis cultivators shall haul away and properly dispose of excess soil and other debris |

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| | as needed to prevent discharge to Waters of the State. |
| **Riparian and Wetland Protection and Management** | |
| **64.** | Cannabis cultivators shall not disturb aquatic or riparian habitat, such as pools, spawning sites, large wood, or shading vegetation unless authorized under a CWA section 404 permit, CWA section 401 certification, Regional Water Board WDRs (when applicable), or a CDFW LSA Agreement. |
| **65.** | Cannabis cultivators shall maintain existing, naturally occurring, riparian vegetative cover (e.g., trees, shrubs, and grasses) in aquatic habitat areas to the maximum extent possible to maintain riparian areas for streambank stabilization, erosion control, stream shading and temperature control, sediment and chemical filtration, aquatic life support, wildlife support, and to minimize waste discharge. |
| **Water Storage and Use** | |
| **Water Supply, Diversion, and Storage** | |
| **66.** | Cannabis cultivators shall only install, maintain, and destroy groundwater wells in compliance with county, city, and local ordinances and with California Well Standards as stipulated in California Department of Water Resources Bulletins 74-90 and 74-81.[17] |
| **67.** | All water diversions for cannabis cultivation from a surface stream, groundwater diversions from a subterranean stream flowing through a known and definite channel, or other surface waterbody are subject to the surface water forbearance period and instream flow Requirements. This includes lakes, ponds, and all springs or seeps, including those that do not flow off the property. See Section 3. Numeric and Narrative Instream Flow Requirements of this Appendix for more information. |
| **68.** | Cannabis cultivators diverting under riparian water right claims shall submit a Cannabis SIUR application within 60 days of when the program becomes available or commence use of another water source during the forbearance period. |
| **69.** | Groundwater extractions may be subject to additional requirements, such as a forbearance period, if the State Water Board determines those requirements are reasonably necessary. |
| **70.** | Cannabis cultivators are encouraged to use appropriate rainwater catchment systems to collect from impermeable surfaces (e.g., roof tops, etc.) during the wet season and store storm water in tanks, bladders, or off-stream engineered reservoirs to reduce the need for surface water or groundwater diversions. |
| **71.** | Cannabis cultivators shall not divert surface water unless it is diverted in accordance with an existing water right that specifies, as appropriate, the source, location of the point of diversion, purpose of use, place of use, and quantity and season of diversion. Cannabis cultivators shall maintain documentation of the water right at the cannabis cultivation site. Documentation of the water right shall be available for review and inspection by the Water |

[17] California Well Standards are available at: http://www.water.ca.gov/groundwater/well_info_and_other/california_well_standards/well_standards_content.html.

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| | Boards, CDFW, and any other authorized representatives of the Water Boards or CDFW. |
| **72.** | Cannabis cultivators shall ensure that all water diversion facilities are designed, constructed, and maintained so they do not prevent, impede, or tend to prevent the passing of fish, as defined by Fish and Game Code section 45, upstream or downstream, as required by Fish and Game Code section 5901. This includes but is not limited to the supply of water at an appropriate depth, temperature, and velocity to facilitate upstream and downstream aquatic life movement and migration. Cannabis cultivators shall allow sufficient water at all times to pass past the point of diversion to keep in good condition any fish that may be planted or exist below the point of diversion as defined by Fish and Game Code section 5937. Cannabis cultivators shall not divert water in a manner contrary to or inconsistent with these Requirements. |
| **73.** | Cannabis cultivators shall not divert surface water unless in compliance with all additional Cannabis SIUR conditions required by CDFW. |
| **74.** | Water diversion facilities shall include satisfactory means for bypassing water to satisfy downstream prior rights and any requirements of policies for water quality control, water quality control plans, water quality certifications, waste discharge requirements, or other local, state or federal instream flow requirements. Cannabis cultivators shall not divert in a manner that results in injury to holders of legal downstream senior rights. Cannabis cultivators may be required to curtail diversions should diversion result in injury to holders of legal downstream senior water rights or interfere with maintenance of downstream instream flow requirements. |
| **75.** | Cannabis cultivators shall only use fuel powered (e.g., gas, diesel, etc.) diversion pumps that are located in a stable and secure location outside of the riparian setbacks. All pumps shall:<br>1. be properly maintained,<br>2. have suitable secondary containment to ensure any spills or leaks do not enter surface waterbodies or groundwater, and<br>3. have sufficient overhead cover to prevent exposure of equipment to precipitation. |
| **76.** | No water shall be diverted unless the cannabis cultivator is operating the water diversion facility with a CDFW-approved fish screen. The fish screen shall be designed and maintained in accordance with screening criteria approved by CDFW. The screen shall prevent wildlife from entering the diversion intake and becoming entrapped. The cannabis cultivator shall contact the regional CDFW Office, LSA Program for information on screening criteria for diversion(s).[18] The cannabis cultivator shall provide evidence that demonstrates that the fish screen is in good condition whenever requested by the Water Boards or CDFW. Points of re-diversion from off-stream storage facilities that are open to the environment shall have a fish screen, as required by CDFW. |
| **77.** | Cannabis cultivators shall inspect, maintain, and clean fish screens and bypass appurtenances to ensure proper operation for the protection of fish and wildlife. |
| **78.** | Cannabis cultivators shall not obstruct, alter, dam, or divert all or any portion of a natural |

[18] CDFW's Lake and Streambed program information is available at: https://www.wildlife.ca.gov/Conservation/LSA .

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| | watercourse prior to obtaining all applicable permits and approvals. Permits may include a valid water right, CWA section 404 permit, CWA section 401 certification, Regional Water Board WDRs (when applicable), and/or a CDFW LSA Agreement. |
| **79.** | Cannabis cultivators shall plug, block, cap, disconnect, or remove the diversion intake associated with cannabis cultivation activities during the surface water forbearance period, unless the diversion intake is used for other beneficial uses, to ensure no water is diverted during that time. |
| **80.** | Cannabis cultivators shall not divert more than a maximum instantaneous diversion rate of 10 gallons per minute, unless authorized under an existing appropriative water right. |
| **82.** | Onstream storage reservoirs are prohibited unless the cannabis cultivator has an existing water right issued prior to January 1, 2017 that authorizes the onstream storage reservoir. Cannabis cultivators who do not have an existing water right as of January 1, 2017, that authorizes the onstream reservoir storage, including cannabis cultivators with a pending application, an unpermitted onstream storage reservoir, and those who want to install a new onstream storage reservoir, are required to obtain an appropriative water right permit prior to diverting water from an onstream storage reservoir for cannabis cultivation. |
| **83.** | Cannabis cultivators are encouraged to install separate storage systems for water diverted for cannabis irrigation and water diverted for any other beneficial uses,[19] or otherwise shall install separate measuring devices to quantify diversion to and from each storage facility, including the quantity of water diverted and the quantity, place, and purpose of use (e.g., cannabis irrigation, other crop irrigation, domestic, etc.) for the stored water. |
| **84.** | The cannabis cultivator shall install and maintain a measuring device(s) that meets the requirements for direct diversions greater than 10 acre-feet per year in California Code of Regulations, Title 23, Division 3, Chapter 2.7[20]. The measuring device(s) shall be located at or near the point of diversion. Cannabis cultivators shall maintain records of daily diversion with separate records that document the amount of water used for cannabis cultivation separate from the amount of water used for other irrigation purposes and other beneficial uses of water (e.g., domestic, fire protection, etc.). Cannabis cultivators shall maintain daily diversion records at the cultivation site and shall make the records available for review or by request by the Water Boards CDFW, or any other authorized representatives of the Water Boards or CDFW. |
| **85.** | The State Water Board intends to develop and implement a basin-wide program for real-time electronic monitoring and reporting of diversions, withdrawals, releases and streamflow in a standardized format if and when resources become available. Such real-time reporting will be required upon a showing by the State Water Board that the program and the infrastructure are in place to accept real-time electronic reports. Implementation of the reporting requirements shall not necessitate amendment to this Requirement. |

[19] Other beneficial uses of water include: domestic, irrigation, power, municipal, mining, industrial, fish and wildlife preservation and enhancement, aquaculture, recreational, stockwatering, water quality, frost protection, and heat control. (California Code of Regulations, Title 23 sections 659-672).

[20] Additional information on measuring devices may be found at: https://www.waterboards.ca.gov/waterrights/water_issues/programs/diversion_use/water_use.shtml#measurement

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| **86.** | Cannabis cultivators shall not use off-stream storage reservoirs to store water for cannabis cultivation unless the reservoir is properly sited and has been designed by a qualified professional. Cannabis cultivators shall plant native vegetation along the perimeter of the off-stream storage reservoir. |
| **87.** | Cannabis cultivators shall design and manage off-stream storage facilities that are open to the environment, such as storage ponds and reservoirs, to maintain sufficient freeboard to capture stormwater runoff of a representative 25-year, 24-hour storm event. |
| **88.** | Cannabis cultivators shall provide adequate outlet drainage for overflow of reservoirs that are not closed to the environment, including low impact designs, to promote dispersal and infiltration of flows. Reservoirs shall be designed with an adequate overflow outlet and protected spillway which disperses flow and discourages channelization. |
| **89.** | Cannabis cultivators shall implement an invasive species management plan prepared by a Qualified Biologist for any existing or proposed water storage facilities that are open to the environment. The plan shall include, at a minimum, an annual survey for bullfrogs and other invasive aquatic species. If bullfrogs or other invasive aquatic species are identified, eradication measures shall be implemented by a qualified biologist. Eradication methods can be direct or indirect. Direct methods may include hand-held dip net, hook and line, lights, spears, gigs, or fish tackle under a fishing license (pursuant to Fish and Game Code section 6855). An indirect method may involve seasonally timed complete dewatering and a drying period of the off-stream storage facility under a Permit to Destroy Harmful Species (pursuant to Fish and Game Code section 5501) issued by CDFW. |
| **90.** | Cannabis cultivators shall not cause or allow any overflow from off-stream water storage facilities that are closed to the environment (e.g., tanks and bladders) if the off-stream facilities are served by a diversion from surface water or groundwater. Cannabis cultivators shall regularly inspect for and repair all leaks of the diversion and storage system. |
| **91.** | Water storage tanks, bladders, and other off-stream water storage facilities that are closed to the environment shall not be located in a riparian setback or next to equipment that generates heat. Cannabis cultivators shall place water storage tanks, bladders, and other off-stream water storage facilities that are closed to the environment in areas that allow for ease of installation, access, maintenance, and minimize road development. |
| **92.** | Cannabis cultivators shall install vertical and horizontal tanks according to manufacturer's specifications and shall place tanks on properly compacted soil that is free of rocks and sharp objects and capable of bearing the weight of the tank and its maximum contents with minimal settlement. Tanks shall not be located in areas of slope instability. Cannabis cultivators shall install water storage tanks capable of containing more than 8,000 gallons only on a reinforced concrete pad providing adequate support and enough space to attach a tank restraint system (anchor using the molded-in tie down lugs with moderate tension, being careful not to over-tighten) per the recommendations of a qualified professional. |
| **93.** | To prevent rupture or overflow and runoff, cannabis cultivators shall only use water storage tanks and bladders equipped with a float valve, or equivalent device, to shut off diversion when storage systems are full. Cannabis cultivators shall install any other measures necessary to prevent overflow of storage systems to prevent runoff and the diversion of more water than can be used and/or stored. |

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| **94.** | Cannabis cultivators shall ensure that all vents and other openings on water storage tanks are designed to prevent the entry and/or entrapment of wildlife. |
| **95.** | Water storage bladders are not encouraged for long-term use. If bladders are used, the cannabis cultivator shall ensure that the bladder is designed and properly installed to store water and that the bladder is sited to minimize the potential for water to flow into a watercourse in the event of a catastrophic failure. If a storage bladder has been previously used, the cannabis cultivator shall carefully inspect the bladder to confirm its integrity and confirm the absence of any interior residual chemicals prior to resuming use. Cannabis cultivators shall periodically inspect water storage bladders and containment features to ensure integrity. Water storage bladders shall be properly disposed of or recycled and not resold when assurance of structural integrity is no longer guaranteed. |
| **96.** | Cannabis cultivators shall not use water storage bladders unless the bladder is safely contained within a secondary containment system with sufficient capacity to capture 150 percent of a bladder's maximum possible contents in the event of bladder failure (i.e., 150 percent of bladder's capacity). Secondary containment systems that are open to the environment shall be designed and maintained with sufficient freeboard to capture storm water runoff of a representative 25-year, 24-hour storm event. |
| **97.** | Cannabis cultivators shall retain appropriate documentation for any hauled water[21] used for cannabis cultivation. Documentation for hauled water shall include, for each delivery, all of the following:<br>1. A receipt that shows the date of delivery and the name, address, license plate number, and license plate issuing state for the water hauler,<br>2. A copy of the Water Hauler's License (California Health and Safety Code section 111120),<br>3. A copy of proof of the Water Hauler's water right, groundwater well, or other water source, and the location of the water source, and<br>4. The quantity of water delivered or picked up from a legal water source, in gallons.<br>Documentation shall be made available, upon request, to Water Boards or CDFW staff and any other authorized representatives of the Water Boards or CDFW. |
| **Water Conservation and Use** | |
| **98.** | Cannabis cultivators shall regularly inspect their entire water delivery system for leaks and immediately repair any leaky faucets, pipes, connectors, or other leaks. |
| **99.** | Cannabis cultivators shall use weed-free mulch in cultivation areas that do not have ground cover to conserve soil moisture and minimize evaporative loss. |
| **100.** | Cannabis cultivators shall implement water conserving irrigation methods (e.g., drip or trickle irrigation, micro-spray, or hydroponics). |
| **101.** | Cannabis cultivators shall maintain daily records of all water used for irrigation of cannabis. Daily records may be calculated by the use of a measuring device or, if known, by calculating the irrigation system rates and duration of time watered (e.g., irrigating for one |

[21] Water hauler means any person who hauls water in bulk by any means of transportation.

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| | hour twice per day using 50 half-gallon drips equates to 50 gallons per day (1*2*50*0.5) of water used for irrigation). Cannabis cultivators shall retain irrigation records at the cannabis cultivation site and shall make all irrigation records available for review by the Water Boards, CDFW and any other authorized representatives of the Water Boards or CDFW. |
| **Irrigation Runoff** | |
| **102.** | Cannabis cultivators shall regularly inspect for leaks in mainlines[22], laterals[23], in irrigation connections, sprinkler heads, or at the ends of drip tape and feeder lines and immediately repair any leaks found upon detection. |
| **103.** | The irrigation system shall be designed to include redundancy (e.g., safety valves) in the event that leaks occur, so that waste of water and runoff is prevented and minimized. |
| **104.** | Cannabis cultivators shall regularly replace worn, outdated, or inefficient irrigation system components and equipment to ensure a properly functioning, leak-free irrigation system at all times. |
| **105.** | Cannabis cultivators shall minimize irrigation deep percolation[24] to the maximum extent possible. |

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[22] Mainlines are pipes that go from the water source to the control valves.
[23] Laterals are the pipes between the control valve and the sprinkler heads.
[24] Deep percolation occurs when excess irrigation water is applied and percolates below the plant root zone.

| Fertilizers, Pesticides, and Petroleum Products | |
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| **106.** | Cannabis cultivators shall not mix, prepare, over apply, or dispose of agricultural chemicals/products (e.g., fertilizers, pesticides[25], and other chemicals as defined in the applicable water quality control plan) in any location where they could enter the riparian setback or waters of the state. The use of agricultural chemicals inconsistently with product labeling, storage instructions, or DPR requirements for pesticide applications[26] is prohibited. Disposal of unused product and containers shall be consistent with labels. |
| **107.** | Cannabis cultivators shall keep and use absorbent materials designated for spill containment and spill cleanup equipment on-site for use in an accidental spill of fertilizers, petroleum products, hazardous materials, and other substances which may degrade waters of the state. The cannabis cultivator shall immediately notify the California Office of Emergency Services at 1-800-852-7550 and immediately initiate cleanup activities for all spills that could enter a waterbody or degrade groundwater. |
| **108.** | Cannabis cultivators shall establish and use a separate storage area for pesticides, and fertilizers, and another storage area for petroleum or other liquid chemicals (including diesel, gasoline, oils, etc.). All such storage areas shall comply with the riparian setback Requirements, be in a secured location in compliance with label instructions, outside of areas of known slope instability, and be protected from accidental ignition, weather, and wildlife. All storage areas shall have appropriate secondary containment structures, as necessary, to protect water quality and prevent spillage, mixing, discharge, or seepage. Storage tanks and containers must be of suitable material and construction to be compatible with the substances stored and conditions of storage, such as pressure and temperature. |
| **109.** | Throughout the wet season, Cannabis Cultivators shall ensure that any temporary storage areas have a permanent cover and side-wind protection or be covered during non-working days and prior to and during rain events. |

[25] Pesticide is defined as follows:
- Per California Code of Regulations Title 3. Division 6. Section 6000:
  (a) Any substance or mixture of substances that is a pesticide as defined in the Food and Agricultural Code and includes mixtures and dilutions of pesticides;
  (b) As the term is used in Section 12995 of the California Food and Agricultural Code, includes any substance or product that the user intends to be used for the pesticidal poison purposes specified in Sections 12753 and 12758 of the Food and Agricultural Code.
- Per California Food and Agricultural Code section 12753(b), the term "Pesticide" includes any of the following: Any substance, or mixture of substances which is intended to be used for defoliating plants, regulating plant growth, or for preventing, destroying, repelling, or mitigating any pest, as defined in Section 12754.5, which may infest or be detrimental to vegetation, man, animals, or households, or be present in any agricultural or nonagricultural environment whatsoever.
- In laymen's terms: "pesticide" includes: rodenticides, herbicides, insecticides, fungicides, and disinfectants.

[26] More information on DPR requirements is available at:
http://www.cdpr.ca.gov/docs/legbills/laws_regulations.htm,
http://www.cdpr.ca.gov/docs/county/cacltrs/penfltrs/penf2017/2017atch/attach0301.pdf, and
http://www.cdpr.ca.gov/docs/cannabis/index.htm

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| **110.** | Cannabis cultivators shall only use hazardous materials[27] in a manner consistent with the product's label. |
| **111.** | Cannabis cultivators shall only keep hazardous materials in their original containers with labels intact, and shall store hazardous materials to prevent exposure to sunlight, excessive heat, and precipitation. Cannabis cultivators shall provide secondary containment for hazardous materials to prevent possible exposure to the environment. Disposal of unused hazardous materials and containers shall be consistent with the label. |
| **112.** | Cannabis cultivators shall only mix, prepare, apply, or load hazardous materials outside of the riparian setbacks. |
| **113.** | Cannabis cultivators shall not apply agricultural chemicals within 48 hours of a predicted rainfall event of 0.25 inches or greater. |
| **Fertilizers and Soils** | |
| **114.** | To minimize infiltration and water quality degradation, Cannabis cultivators shall only irrigate and apply fertilizer to cannabis cultivation areas consistent with crop need (i.e., agronomic rate). |
| **115.** | When used, cannabis cultivators shall only apply nitrogen to cannabis cultivation areas consistent with crop need (i.e., agronomic rate). Cannabis cultivators shall not apply nitrogen at a rate greater than 319 pounds/acre/year unless plant tissue analysis performed by a qualified individual demonstrates the need for additional nitrogen application. The analysis shall be performed by an agricultural laboratory certified by the State Water Board's Environmental Laboratory Accreditation Program. |
| **116.** | Cannabis cultivators shall ensure that potting soil or soil amendments, when not in use, are placed and stored with covers, when needed, to protect from rainfall and erosion, to prevent discharge to Waters of the State, and to minimize leaching of waste constituents into groundwater. |
| **Pesticides and Herbicides** | |
| **117.** | Cannabis cultivators shall not apply restricted materials, including restricted pesticides, or allow restricted materials to be applied at the cannabis cultivation site. |
| **118.** | Cannabis cultivators shall implement integrated pest management strategies where possible to reduce the need and use of pesticides and the potential for discharges to waters of the state.[28] |

[27] A hazardous material is any item or agent (biological, chemical, radiological, and/or physical), which has the potential to cause harm to humans, animals, or the environment, either by itself or through interaction with other factors.
[28] https://www.epa.gov/safepestcontrol/integrated-pest-management-ipm-principles

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| **Petroleum Products and Other Chemicals** | |
| **119.** | Cannabis cultivators shall only perform maintenance or refueling of vehicles or equipment outside of riparian setbacks. Cannabis cultivators shall inspect all equipment using oil, hydraulic fluid, or petroleum products for leaks prior to use and shall monitor equipment for leakage. Stationary equipment (e.g., motors, pumps, generators, etc.) and vehicles not in use shall be located outside of riparian setbacks. Spill and containment equipment (e.g., oil spill booms, sorbent pads, etc.) shall be stored onsite at all locations where equipment is used or staged. |
| **120.** | Cannabis cultivators shall only store petroleum, petroleum products, and similar fluids in a manner that provides chemical compatibility; protection from accidental ignition, the sun, wind, rain; and secondary containment. |
| **121.** | Cannabis cultivators shall not install underground storage tanks for the storage of petroleum products for cannabis cultivation activities. Use of an existing underground storage tank already located on the cannabis cultivation site for storage of petroleum products for cannabis cultivation activities is subject to applicable federal, state, and local laws, regulations, and permitting requirements. |
| **Cultivation-Related Waste** | |
| **122.** | Cannabis cultivators shall contain and regularly remove all debris and trash associated with cannabis cultivation activities from the cannabis cultivation site. Cannabis cultivators shall only dispose of debris and trash at an authorized landfill or other disposal site in compliance with state and local laws, ordinances, and regulations. Cannabis cultivators shall not allow litter, plastic, or similar debris to enter the riparian setback or waters of the state. Cannabis plant material may be disposed of onsite in compliance with any applicable CDFA license conditions. |
| **123.** | Cannabis cultivators shall only dispose or reuse spent growth medium (e.g., soil and other organic media) in a manner that prevents discharge of soil and residual nutrients and chemicals to the riparian setback or Waters of the State. Spent growth medium shall be covered with plastic sheeting or stored in water tight dumpsters prior to proper disposal or reuse. Spent growth medium should be disposed of at an authorized landfill or other disposal site in compliance with state and local laws, ordinances, and regulations. Proper reuse of spent growth medium may include incorporation into garden beds or spreading on a stable surface and revegetating the surface with native plants. Cannabis cultivators shall use erosion control techniques, as needed, for any reused or stored spent growth medium to prevent polluted runoff. |
| **Refuse and Domestic Waste** | |
| **124.** | Cannabis cultivators shall ensure that debris, soil, silt, bark, slash, sawdust, rubbish, creosote-treated wood, raw cement and concrete or washings thereof, asphalt, paint or other coating material, oil or other petroleum products, or any other substances which could be hazardous to any life stage of fish and wildlife or their habitat (includes food sources) does not contaminate soil or enter the riparian setback or Waters of the State. |
| **125.** | Cannabis cultivators shall not dispose of domestic wastewater unless it meets applicable |

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| | local agency and/or Regional Water Board requirements. Cannabis cultivators shall ensure that human or animal waste is disposed of properly. Cannabis cultivators shall ensure onsite wastewater treatment systems (e.g., septic system) are permitted by the local agency or applicable Regional Water Board. |
| **126.** | If used, chemical toilets or holding tanks shall be maintained in a manner appropriate for the frequency and conditions of usage, sited in stable locations, and comply with the riparian setback Requirements. |
| **Winterization** | |
| **127.** | Cannabis cultivators shall implement all applicable Erosion Control and Soil Disposal and Spoils Management Requirements in addition to the Winterization Requirements below by November 15 of each year, or earlier, if needed to prevent waste discharges that result in water quality degradation. |
| **128.** | Cannabis cultivators shall block or otherwise close any temporary roads to all motorized vehicles no later than November 15 of each year. |
| **129.** | Cannabis cultivators shall not operate heavy equipment of any kind at the cannabis cultivation site during the winter period (November 16 to March 31), unless authorized for emergency repairs contained in an enforcement order issued by the State Water Board, Regional Water Board, or other agency having jurisdiction. |
| **130.** | Cannabis cultivators shall apply linear sediment controls (e.g., silt fences, wattles, etc.) along the toe of the slope, face of the slope, and at the grade breaks of exposed slopes to comply with sheet flow length[29] at the frequency specified below. |

| Slope (percent) | Sheet Flow Length Not to Exceed (feet) |
|---|---|
| 0 – 25 | 20 |
| 25 – 50 | 15 |
| >50 | 10 |

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| **131.** | Cannabis cultivators shall maintain all culverts, drop inlets, trash racks and similar devices to ensure they are not blocked by debris or sediment. The outflow of culverts shall be inspected to ensure erosion is not undermining the culvert. Culverts shall be inspected prior to the onset of fall and winter precipitation and following precipitation events to determine if maintenance or cleaning is required. |
| **132.** | Cannabis cultivators shall stabilize all disturbed areas and construction entrances and exits to control erosion and sediment discharges from land disturbance. |
| **133.** | Cannabis cultivators shall cover and berm all loose stockpiled construction materials (e.g., soil, spoils, aggregate, etc.) that are not actively (scheduled for use within 48 hours) being |

[29] Sheet flow length is the length that shallow, low velocity flow travels across a site.

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| | used. |
| **134.** | Cannabis cultivators shall apply erosion repair and control measures to the bare ground (e.g., cultivation area, access paths, etc.) to prevent discharge of sediment to Waters of the State. |
| **135.** | As part of the winterization plan approval process, the Regional Water Board may require cannabis cultivators to implement additional site-specific erosion and sediment control requirements if the implementation of the Requirements in this section do not adequately protect water quality. |

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# SECTION 3 – NUMERIC AND NARRATIVE INSTREAM FLOW REQUIREMENTS (INCLUDING GAGING)

This section outlines the numeric and narrative instream flow Requirements established in this Policy.

The narrative instream flow Requirements apply to all diversions of surface water and groundwater for cannabis cultivation throughout California, in all 14 Regions. Numeric instream flow requirements are developed at compliance gages for the 14 Regions.

## Narrative Instream Flow Requirements

### Instream Flow Requirements for Surface Water Diversions

1. Surface water instream flow Requirements apply to anyone diverting water for cannabis cultivation from a waterbody. A waterbody is defined as any significant accumulation of water, such as: lakes, ponds, rivers, streams, creeks, springs or seeps[30], artesian wells, wetlands, and canals. Surface water instream flow Requirements also apply to water diverted from a subterranean stream flowing through a known and definite channel.

2. The instream flow Requirements and forbearance period listed in this section shall not apply to retail water suppliers, as defined in Section 13575 of the Water Code[31], whose primary beneficial use is municipal or domestic, unless any of the following circumstances are present:
    a. the retail water supplier has 10 or fewer customers;
    b. the retail water supplier delivers 10 percent or more of the diverted water to one or more cannabis cultivator(s) or cannabis cultivation site(s), as established by an assessor's parcel number;
    c. 25 percent or more of the water delivered by the retail water supplier is used for cannabis cultivation; or
    d. a cannabis cultivator and the retail water supplier are affiliates, as defined in California Code of Regulations, title 23, section 2814.20.

3. Surface Water Dry Season Forbearance Period: Cannabis cultivators shall not divert surface water for cannabis cultivation activities at any time from April 1 through October 31 of each calendar year, unless the water diverted is delivered from storage in compliance with Narrative Flow Requirement 4.

4. The authorized surface water diversion period is November 1 through March 31. During this diversion period, cannabis cultivators may only divert surface water for cannabis cultivation when water is available for diversion under the cannabis cultivator's priority of right and the applicable Numeric Flow Requirement (Section 4) is met at the assigned compliance gage. This includes direct diversion and diversion to storage. Numeric instream flow Requirements are established throughout the State and are calculated for

[30] A spring or seep is a place where water flows out of the ground. A spring or seep may flow the whole year or part of the year. Surface water instream flow Requirements apply to both natural springs and seeps and springs and seeps that are modified to improve production such as, installing piping and spring boxes/wells.

[31] Under Water Code section 13575(b)(5), "Retail water supplier" means any local entity, including a public agency, city, county, or private water company that provides retail water service.

the majority of USGS National Hydrologic Database plus 2 stream reaches where the USGS flow modeling data are available.

Cannabis cultivators that divert water from a waterbody with an assigned compliance gage in Section 4 of this Policy are required to ensure that the real-time daily average flow, as published on a designated compliance gage website identified by the Deputy Director for Water Rights, exceeds the minimum monthly instream flow Requirement at the cannabis cultivator's assigned compliance gage. Cannabis cultivators shall verify and document compliance with the applicable Numeric Flow Requirement on a daily basis for each day of surface water diversion.

5. In addition to Narrative Flow Requirement 4, at all times the cannabis cultivators shall bypass a minimum of 50 percent of the surface water flow past their point of diversion, as estimated based on visually observing surface water flow at least daily.

   Cannabis cultivators claiming, pursuant to Business and Professions Code section 26060.1, that a spring does not flow off their property by surface or subterranean means in the absence of diversion, may request an exemption from the minimum of 50 percent bypass requirement. In requesting such an exemption, cannabis cultivators shall provide substantial evidence demonstrating that the spring, seep, or artesian well does not have surface or subsurface hydrologic connectivity at any time of year during all water year types[32]. The substantial evidence must be documented by a qualified professional. For purposes of this Requirement, qualified professionals include California-registered Professional Geologists or other classifications of professions approved by the Deputy Director for Water Rights (Deputy Director). A list of qualified professionals that may document the substantial evidence required per this Requirement will be maintained on the Water Rights section of the State Water Board's Cannabis Cultivation webpage[33]. The Deputy Director may require additional information from the cannabis cultivator to support the request. If the Deputy Director concurs with the evidence provided, the cannabis cultivator may be exempted from the Policy's Requirement to bypass a minimum of 50 percent of the surface water flow. Compliance with the Policy's minimum monthly flow Requirement (Narrative Flow Requirement 4) shall still apply. Notwithstanding such an exemption, all other applicable Requirements of this Policy remain in force.

6. From November 1 through December 14 of each year, the surface water diversion period shall not begin until after seven consecutive days in which the surface waterbody's real-time daily average flow is greater than the Numeric Flow Requirement (applicable minimum monthly instream flow Requirement in Section 4). The first day of the seven consecutive days must occur on or after November 1. After the seventh consecutive day with average flow greater than the Numeric Flow Requirement, surface water diversions may occur on any subsequent days in which the real-time daily average flow is greater than the Numeric Flow Requirement (applicable minimum monthly instream flow Requirement in Section 4). For example, if the daily average flows on each day from November 1 through November 7 of a given year are greater than the Numeric Flow Requirement for November (applicable November monthly minimum flow Requirement), diversion may begin on November 8 if the daily average flow on

[32] Including during any precipitation and runoff events.
[33] State Water Board's Cannabis Cultivation webpage: http://www.waterboards.ca.gov/water_issues/programs/cannabis/index.shtml

November 8 is also greater than the November Numeric Flow Requirement. From December 15 through March 31 of each surface water diversion period, surface water diversions may occur on any day in which the surface waterbody's real-time daily average flow is greater than the Numeric Flow Requirement (applicable minimum monthly instream flow Requirement).

7. The State Water Board has developed Numeric instream flow Requirements (minimum instream flow requirements) for each compliance gage in Section 4, Table 1 through Table 14, to ensure that individual and cumulative effects of water diversion and discharge associated with cannabis cultivation do not affect the instream flows needed for fish spawning, migration, and rearing, and the flows needed to maintain natural flow variability. If the individual and cumulative effects of diversions result in unanticipated impacts, however, the State Water Board may revise the narrative and/or numeric instream flow Requirements to better protect instream resources, habitat, and natural flow variability.

### Requirements for Groundwater Diversions

8. This Policy establishes a low flow threshold, calculated by applying the New England Aquatic Base Flow Standard, as one mechanism to help monitor whether groundwater diverters are having a cumulative negative impact on surface flows. The State Water Board may develop additional requirements for groundwater diversions for cannabis cultivation in locations where there are a significant number of groundwater diversions or locations where significant numbers of surface water diverters are switching to groundwater diversions and those diversions have the potential to have negative localized impact on surface flows.

9. The instream flow Requirements listed in narrative flow Requirement 8 (low flow threshold) shall not apply to retail water suppliers, as defined in Section 13575 of the Water Code[34], whose primary beneficial use is municipal or domestic, unless any of the following circumstances are present:
    a. the retail water supplier has 10 or fewer customers;
    b. the retail water supplier delivers 10 percent or more of the diverted water to one or more cannabis cultivator(s) or cannabis cultivation site(s), as established by an assessor's parcel number;
    c. 25 percent or more of the water delivered by the retail water supplier is used for cannabis cultivation; or
    d. a cannabis cultivator and the retail water supplier are affiliates, as defined in California Code of Regulations, title 23, section 2814.20.

## Gage Installation, Maintenance, and Operation Requirements

The Deputy Director for Water Rights (Deputy Director) may require cannabis cultivators to install and operate a local telemetry gage in ungaged watersheds or localized watershed areas if the Deputy Director determines that use of the assigned compliance gage does not adequately protect instream flows or does not adequately represent the localized water demand. The Deputy Director may also require the installation and operation of a local

[34] Water Code Chapter 7.5. Water Recycling Act of 1991, Section 13575(b)(5) "Retail water supplier" means any local entity, including a public agency, city, county, or private water company that provides retail water service.

telemetry gage in watersheds with no gage assignment if the Deputy Director determines that a gage is necessary to adequately protect instream flows.

Cannabis cultivators shall ensure that gages required by the Deputy Director are installed, maintained, and operated by a qualified professional. For purposes of this Requirement, qualified professionals include California-registered Professional Civil Engineers, or other classifications of professions approved by the Deputy Director. A list of qualified professionals that may document compliance with this Requirement will be maintained in the Water Rights section of the State Water Board's Cannabis Cultivation webpage[35]. Gage equipment shall meet the applicable technical specifications for telemetered measuring devices in California Code of Regulations, title 23, section 933, that apply to diversions of over 10,000 acre-feet per year or more. Gages shall record data at a minimum of 15-minute intervals and report the recorded real-time data hourly, at a minimum, via a public website designated by the State Water Board's Division of Water Rights (Division of Water Rights).

Cannabis cultivators, or an entity acting on behalf of cannabis cultivators, shall submit a gage operation and maintenance (O&M) plan prepared by a qualified professional, as defined in the preceding paragraph, to the Deputy Director or the Deputy Director's designee for approval. At a minimum, the gage O&M plan shall include qualifications and names of entities responsible for gage installation, maintenance, and operation; gage specifications and accuracy; gage location; gage installation procedures that ensure accurate operation during the wet season and stability during high flow events; stream flow measurement procedures for development of rating curves that represent wet season flows; telemetry equipment; and an O&M schedule and procedures. The Deputy Director may require additional information from the cannabis cultivator to support the request. The Deputy Director may include additional requirements as part of any approval of a gage O&M plan.

Prior to October 31, during each water year of gage operation, an annual maintenance and operation summary report prepared by a qualified professional, as defined above in this Requirement, shall be submitted to the Division of Water Rights that includes, at a minimum: qualifications and names of entities responsible for maintenance and operation; maintenance activities or operational issues for the prior water year of operation; quality assured gage stage and flow data collected and analyzed for prior water year; rating curves for prior and upcoming water year of operation; data collected to establish rating curves for prior and upcoming water year of operation; and any anticipated maintenance plans or operational issues for the upcoming water year. The gage data shall be provided to the Division of Water Rights in a format retrievable and viewable using Microsoft Excel, Microsoft Access, or other software program authorized by the Deputy Director.

[35] State Water Board's cannabis cultivation webpage:
http://www.waterboards.ca.gov/water_issues/programs/cannabis/index.shtml

# SECTION 4 – WATERSHED COMPLIANCE GAGE ASSIGNMENTS

## Watershed Compliance Gage Assignments

The following tables show the compliance gage numeric instream flow Requirements by Region. The State Water Board is developing an online mapping tool to assist cannabis cultivators with determining which compliance gage applies to them and whether they may divert water. It is anticipated that the online mapping tool will allow cannabis cultivators to enter their address or otherwise locate their point of diversion to identify their assigned watershed compliance gage. The compliance gage assignments may change as more information becomes available. To ensure cannabis cultivators are reporting in accordance with the appropriate gage, the cannabis cultivator is required to check the website for their compliance gage assignment at least daily and prior to diverting water to ensure water is available to divert at that gage (i.e., the real-time daily average flow is greater than the Numeric Flow Requirement at the assigned compliance gage).

## Table 1. Klamath Region Compliance Gage Numeric Instream Flow Requirements

| Gage Number | Gage Name | Source | November *(cfs)* | December *(cfs)* | January *(cfs)* | February *(cfs)* | March *(cfs)* | Groundwater Low Flow Threshold *(cfs)* |
|---|---|---|---|---|---|---|---|---|
| 11516530 | KLAMATH R BL IRON GATE DAM CA | USGS | 828 | 828 | 828 | 828 | 1,013 | 1,287 |
| 11517000 | SHASTA R NR MONTAGUE CA | USGS | 114 | 114 | 114 | 176 | 194 | 169 |
| 11517500 | SHASTA R NR YREKA CA | USGS | 128 | 128 | 129 | 197 | 222 | 188 |
| 11519500 | SCOTT R NR FORT JONES CA | USGS | 293 | 327 | 467 | 454 | 379 | 161 |
| 11520500 | KLAMATH R NR SEIAD VALLEY CA | USGS | 1,364 | 1,364 | 1,364 | 1,433 | 2,354 | 1,807 |
| 11521500 | INDIAN C NR HAPPY CAMP CA | USGS | 181 | 368 | 372 | 365 | 319 | 35 |
| 11522500 | SALMON R A SOMES BAR CA | USGS | 758 | 1,035 | 1,306 | 1,265 | 1,243 | 202 |
| 11523000 | KLAMATH R A ORLEANS | USGS | 2,631 | 2,631 | 2,631 | 3,424 | 5,131 | 1,156 |
| 11523200 | TRINITY R AB COFFEE C NR TRINITY CENTER CA | USGS | 162 | 162 | 185 | 220 | 257 | 39 |
| 11525530 | RUSH C NR LEWISTON CA | USGS | 15 | 22 | 29 | 31 | 31 | 2 |
| 11525630 | GRASS VALLEY C NR LEWISTON CA | USGS | 23 | 32 | 48 | 51 | 47 | 3.7 |
| 11525670 | INDIAN C NR DOUGLAS CITY CA | USGS | 20 | 28 | 40 | 44 | 43 | 3 |
| 11525854 | TRINITY R A DOUGLAS CITY CA | USGS | 957 | 1,022 | 1,388 | 1,628 | 1,492 | 228 |
| 11526400 | TRINITY R AB NF TRINITY R NR HELENA CA | USGS | 1,122 | 1,237 | 1,702 | 1,951 | 1,782 | 273 |
| 11526500 | NF TRINITY R A HELENA CA | USGS | 146 | 175 | 246 | 269 | 253 | 32 |
| 11527000 | TRINITY R NR BURNT RANCH CA | USGS | 1,320 | 1,534 | 2,105 | 2,415 | 2,239 | 324 |
| 11528700 | SF TRINITY R BL HYAMPOM CA | USGS | 572 | 898 | 1,331 | 1,372 | 1,255 | 77 |
| 11530000 | TRINITY R A HOOPA CA | USGS | 2,349 | 3,440 | 4,712 | 5,165 | 4,772 | 423 |
| 11530500 | KLAMATH R NR KLAMATH CA | USGS | 9,785 | 10,162 | 14,400 | 13,657 | 16,450 | 4,789 |

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| Gage Number | Gage Name | Source | November *(cfs)* | December *(cfs)* | January *(cfs)* | February *(cfs)* | March *(cfs)* | Groundwater Low Flow Threshold *(cfs)* |
|---|---|---|---|---|---|---|---|---|
| 11532500 | SMITH R NR CRESCENT CITY CA | USGS | 1,758 | 3,261 | 3,382 | 2,865 | 2,623 | 288 |
| CLE | TRINITY LAKE | US Bureau of Reclamation | 749 | 849 | 1,117 | 1,288 | 1,169 | 188 |
| SPU | SHASTA R AT GRENADA PUMP PLANT | DWR, NRO | 47 | 47 | 47 | 68 | 77 | 47 |

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## Table 2. Upper Sacramento Region Compliance Gage Numeric Instream Flow Requirements

| Gage Number | Gage Name | Source | November *(cfs)* | December *(cfs)* | January *(cfs)* | February *(cfs)* | March *(cfs)* | Groundwater Low Flow Threshold *(cfs)* |
|---|---|---|---|---|---|---|---|---|
| 11342000 | SACRAMENTO R A DELTA CA | USGS | 486 | 645 | 800 | 1,037 | 894 | 139 |
| 11345500 | SF PIT R NR LIKELY CA | USGS | 28 | 28 | 28 | 28 | 28 | 35 |
| 11348500 | PIT R NR CANBY CA | USGS | 125 | 132 | 116 | 116 | 116 | 122 |
| 11361000 | BURNEY C A BURNEY FALLS NR BURNEY CA | USGS | 84 | 84 | 94 | 123 | 132 | 58 |
| HCB | HAT CK BLW HAT CK | DWR | 85 | 85 | 85 | 85 | 99 | 83 |
| HCN | HAT CK NR HAT CK | DWR | 73 | 74 | 74 | 74 | 76 | 60 |
| SDT | SACRAMENTO R AT DELTA | US Bureau of Reclamation | 486 | 645 | 800 | 1,037 | 894 | 139 |
| SHA | SHASTA DAM (USBR) | US Bureau of Reclamation | 1,792 | 1,792 | 2,207 | 3,096 | 4,145 | 904 |

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## Table 3. North Eastern Region Compliance Gage Numeric Instream Flow Requirements

| Gage Number | Gage Name | Source | November *(cfs)* | December *(cfs)* | January *(cfs)* | February *(cfs)* | March *(cfs)* | Groundwater Low Flow Threshold *(cfs)* |
|---|---|---|---|---|---|---|---|---|
| SSD | SUSAN R NR STANDISH | DWR | 65 | 65 | 65 | 73 | 81 | 44 |
| SSU | SUSAN RIVER AT SUSANVILLE | DWR | 54 | 54 | 54 | 56 | 71 | 39 |
| WCD | WILLOW CREEK NEAR STANDISH | DWR | 99 | 99 | 99 | 106 | 115 | 76 |

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## Table 4. North Coast Region Compliance Gage Numeric Instream Flow Requirements

| Gage Number | Gage Name | Source | November *(cfs)* | December *(cfs)* | January *(cfs)* | February *(cfs)* | March *(cfs)* | Groundwater Low Flow Threshold *(cfs)* |
|---|---|---|---|---|---|---|---|---|
| 11473900 | MF EEL R NR DOS RIOS CA | USGS | 621 | 1,138 | 1,592 | 1,450 | 1,279 | 18 |
| 11475000 | EEL R A FORT SEWARD CA | USGS | 1,918 | 3,768 | 5,252 | 4,850 | 3,814 | 73 |
| 11475560 | ELDER C NR BRANSCOMB CA | USGS | 11 | 25 | 31 | 25 | 22 | 0.97 |
| 11475610 | CAHTO C NR LAYTONVILLE CA | USGS | 7.9 | 18 | 23 | 19 | 15 | 0.51 |
| 11475800 | SF EEL R A LEGGETT CA | USGS | 347 | 783 | 980 | 851 | 665 | 25 |
| 11476500 | SF EEL R NR MIRANDA CA | USGS | 749 | 1,708 | 2,125 | 1,857 | 1,424 | 54 |
| 11476600 | BULL C NR WEOTT CA | USGS | 45 | 102 | 123 | 112 | 88 | 1.9 |
| 11477000 | EEL R A SCOTIA CA | USGS | 3,293 | 7,218 | 9,280 | 8,443 | 6,013 | 145 |
| 11478500 | VAN DUZEN R NR BRIDGEVILLE CA | USGS | 323 | 728 | 814 | 748 | 627 | 12 |
| 11480390 | MAD R AB RUTH RES NR FOREST GLEN CA | USGS | 100 | 213 | 257 | 247 | 203 | 0.57 |
| 11481000 | MAD R NR ARCATA CA | USGS | 641 | 1,406 | 1,555 | 1,453 | 1,245 | 57 |
| 11481200 | LITTLE R NR TRINIDAD CA | USGS | 54 | 127 | 132 | 111 | 101 | 6.3 |
| 11481500 | REDWOOD C NR BLUE LAKE CA | USGS | 96 | 197 | 221 | 211 | 203 | 6.7 |
| 11482500 | REDWOOD C A ORICK CA | USGS | 406 | 901 | 987 | 856 | 794 | 28 |
| ERS | EEL RIVER AT SCOTIA | CDFW | 3,293 | 7,218 | 9,280 | 8,443 | 6,013 | 145 |

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## Table 5. Middle Sacramento Region Compliance Gage Numeric Instream Flow Requirements

| Gage Number | Gage Name | Source | November *(cfs)* | December *(cfs)* | January *(cfs)* | February *(cfs)* | March *(cfs)* | Groundwater Low Flow Threshold *(cfs)* |
|---|---|---|---|---|---|---|---|---|
| 11370500 | SACRAMENTO R A KESWICK CA | USGS | 1,786 | 1,786 | 2,275 | 3,155 | 3,802 | 914 |
| 11372000 | CLEAR C NR IGO CA | USGS | 197 | 296 | 403 | 503 | 406 | 35 |
| 11374000 | COW C NR MILLVILLE CA | USGS | 284 | 500 | 722 | 690 | 557 | 29 |
| 11376000 | COTTONWOOD C NR COTTONWOOD CA | USGS | 461 | 758 | 1,215 | 1,265 | 995 | 45 |
| 11376550 | BATTLE C BL COLEMAN FISH HATCHERY NR COTTONWOOD CA | USGS | 185 | 185 | 255 | 284 | 264 | 171 |
| 11377100 | SACRAMENTO R AB BEND BRIDGE NR RED BLUFF CA | USGS | 2,550 | 2,676 | 3,841 | 5,157 | 5,106 | 1,291 |
| 11379500 | ELDER C NR PASKENTA CA | USGS | 46 | 70 | 123 | 129 | 101 | 3 |
| 11381500 | MILL C NR LOS MOLINOS CA | USGS | 101 | 101 | 142 | 148 | 159 | 46 |
| 11383500 | DEER C NR VINA CA | USGS | 165 | 171 | 246 | 267 | 289 | 49 |
| 11390500 | SACRAMENTO R BL WILKINS SLOUGH NR GRIMES CA | USGS | 5,668 | 7,679 | 14,170 | 12,964 | 12,083 | 854 |
| BIC | BIG CHICO CREEK NEAR CHICO | DWR | 66 | 74 | 125 | 138 | 135 | 16 |
| BLB | BLACK BUTTE | US Army Corps of Engineers | 278 | 422 | 749 | 796 | 615 | 29 |
| GRI | GRINDSTONE CK NR GRINDSTONE RANCHERIA | US Bureau of Reclamation | 93 | 136 | 228 | 222 | 179 | 12 |
| MUC | MUD CREEK NEAR CHICO | DWR | 78 | 89 | 162 | 180 | 181 | 14 |
| NCO | N FK COTTONWOOD CK ABV LK AT BRDG NR ONO | DWR, NRO | 9.5 | 14 | 20 | 22 | 19 | 1.5 |
| SCG | STONY CK NR GRIZZLY FLAT (CO RD 200A) | US Bureau of Reclamation | 258 | 391 | 698 | 732 | 572 | 26 |
| SUW | STONY CREEK NR SUWANNA RANCH (CO RD 410) | US Bureau of Reclamation | 119 | 185 | 328 | 343 | 257 | 12 |
| THO | THOMES CREEK AT PASKENTA | DWR | 149 | 217 | 334 | 348 | 281 | 17 |

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## Table 6. Southern Sacramento Region Compliance Gage Numeric Instream Flow Requirements

| Gage Number | Gage Name | Source | November *(cfs)* | December *(cfs)* | January *(cfs)* | February *(cfs)* | March *(cfs)* | Groundwater Low Flow Threshold *(cfs)* |
|---|---|---|---|---|---|---|---|---|
| 11335000 | COSUMNES R A MICHIGAN BAR CA | USGS | 170 | 190 | 323 | 391 | 382 | 23 |
| 11336580 | MORRISON C NR SACRAMENTO CA | USGS | 3.4 | 4.1 | 12 | 13 | 9.2 | 0.94 |
| 11336585 | LAGUNA C NR ELK GROVE CA | USGS | 2.5 | 3.1 | 9.4 | 10 | 7 | 0.73 |
| 11401920 | SPANISH C A QUINCY CA | USGS | 55 | 58 | 74 | 86 | 91 | 17 |
| 11402000 | SPANISH C AB BLACKHAWK C AT KEDDIE CA | USGS | 118 | 118 | 154 | 182 | 190 | 34 |
| 11413000 | N YUBA R BL GOODYEARS BAR CA | USGS | 292 | 321 | 385 | 416 | 435 | 84 |
| 11421000 | YUBA R NR MARYSVILLE CA | USGS | 1,102 | 1,380 | 1,736 | 1,929 | 1,964 | 324 |
| 11425500 | SACRAMENTO R A VERONA CA | USGS | 10,548 | 14,051 | 25,774 | 24,889 | 22,688 | 1,424 |
| 11427000 | NF AMERICAN R A NORTH FORK DAM CA | USGS | 284 | 354 | 429 | 471 | 456 | 85 |
| 11447360 | ARCADE C NR DEL PASO HEIGHTS CA | USGS | 3.3 | 4.4 | 13 | 13 | 11 | 0.81 |
| 11447650 | SACRAMENTO R A FREEPORT CA | USGS | 7,256 | 7,645 | 12,738 | 16,071 | 14,817 | 2,601 |
| 11449500 | KELSEY C NR KELSEYVILLE CA | USGS | 29 | 54 | 78 | 84 | 58 | 3.3 |
| 11451000 | CACHE C NR LOWER LAKE CA | USGS | 277 | 446 | 814 | 821 | 610 | 19 |
| 11451100 | NF CACHE C A HOUGH SPRING NR CLEARLAKE OAKS CA | USGS | 43 | 77 | 125 | 123 | 93 | 1 |
| 11451300 | NF CACHE C NR CLEARLAKE OAKS CA | USGS | 60 | 93 | 166 | 176 | 135 | 5.2 |
| 11451715 | BEAR C AB HOLSTEN CHIMNEY CYN NR RUMSEY CA | USGS | 16 | 33 | 67 | 74 | 49 | 1.5 |
| 11451800 | CACHE C A RUMSEY CA | USGS | 437 | 645 | 1,346 | 1,300 | 979 | 30 |

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| Gage Number | Gage Name | Source | November *(cfs)* | December *(cfs)* | January *(cfs)* | February *(cfs)* | March *(cfs)* | Groundwater Low Flow Threshold *(cfs)* |
|---|---|---|---|---|---|---|---|---|
| 11453500 | PUTAH C NR GUENOC CA | USGS | 82 | 137 | 234 | 251 | 172 | 4 |
| 11455420 | SACRAMENTO R A RIO VISTA CA | USGS | 14,009 | 19,070 | 35,609 | 34,051 | 30,009 | 1,715 |
| BPG | BEAR RIVER AT PLEASANT GROVE RD | DWR | 133 | 150 | 252 | 301 | 270 | 18 |
| CMF | COSUMNES R MID FORK NR SOMERSET | DWR | 53 | 53 | 73 | 91 | 98 | 19 |
| CNF | COSUMNES R N FORK NR EL DORADO | DWR | 91 | 94 | 146 | 173 | 177 | 32 |
| FOL | FOLSOM LAKE | US Bureau of Reclamation | 1,177 | 1,228 | 1,603 | 1,838 | 1,904 | 413 |
| FSB | FEATHER R ABV STAR BEND | DWR, NCRO | 3,331 | 3,331 | 4,258 | 5,051 | 5,297 | 1,165 |
| GRL | FEATHER RIVER NEAR GRIDLEY | DWR, O&M | 2,152 | 2,179 | 2,537 | 3,050 | 3,162 | 704 |
| ICR | INDIAN CREEK BELOW INDIAN FALLS | DWR | 188 | 188 | 203 | 302 | 362 | 54 |
| KCK | KELSEY CK BLW KELSEYVILLE | DWR | 32 | 56 | 88 | 95 | 66 | 2.9 |
| MCU | MIDDLE CK NR UPPER LAKE | DWR | 31 | 52 | 83 | 85 | 72 | 1.8 |
| MER | FEATHER RIVER AT MERRIMAC | DWR, O&M | 514 | 514 | 586 | 771 | 921 | 167 |
| MFP | MIDDLE FORK FEATHER RIVER NEAR PORTOLA | DWR | 94 | 94 | 94 | 112 | 127 | 83 |
| ORO | OROVILLE DAM | DWR, O&M | 2,128 | 2,147 | 2,509 | 3,014 | 3,036 | 696 |
| SFH | SOUTH HONCUT CREEK NEAR BANGOR | DWR, NCRO | 22 | 38 | 61 | 62 | 50 | 0.86 |

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## Table 7. North Central Coast Region Compliance Gage Numeric Instream Flow Requirements

| Gage Number | Gage Name | Source | November *(cfs)* | December *(cfs)* | January *(cfs)* | February *(cfs)* | March *(cfs)* | Groundwater Low Flow Threshold *(cfs)* |
|---|---|---|---|---|---|---|---|---|
| 11456000 | NAPA R NR ST HELENA CA | USGS | 52 | 88 | 153 | 159 | 110 | 1.6 |
| 11458000 | NAPA R NR NAPA CA | USGS | 109 | 172 | 335 | 342 | 229 | 3.5 |
| 11458500 | SONOMA C A AGUA CALIENTE CA | USGS | 38 | 65 | 110 | 117 | 76 | 3.7 |
| 11459500 | NOVATO C A NOVATO CA | USGS | 7.5 | 13 | 23 | 24 | 15 | 0.46 |
| 11460000 | CORTE MADERA C A ROSS CA | USGS | 10 | 20 | 32 | 32 | 20 | 0.7 |
| 11460151 | REDWOOD C A HWY 1 BRIDGE A MUIR BEACH CA | USGS | 4.6 | 8.2 | 13 | 11 | 7.3 | 0.36 |
| 11461000 | RUSSIAN R NR UKIAH CA | USGS | 69 | 138 | 197 | 189 | 143 | 3.8 |
| 11463000 | RUSSIAN R NR CLOVERDALE CA | USGS | 324 | 606 | 940 | 935 | 677 | 8.9 |
| 11463200 | BIG SULPHUR C NR CLOVERDALE CA | USGS | 63 | 115 | 181 | 190 | 128 | 2.9 |
| 11463900 | MAACAMA C NR KELLOGG CA | USGS | 35 | 61 | 103 | 103 | 73 | 1.4 |
| 11464000 | RUSSIAN R NR HEALDSBURG CA | USGS | 521 | 972 | 1,522 | 1,539 | 1,082 | 14 |
| 11465200 | DRY C NR GEYSERVILLE CA | USGS | 131 | 253 | 391 | 379 | 253 | 6.7 |
| 11465750 | LAGUNA DE SANTA ROSA C NR SEBASTOPOL CA | USGS | 33 | 53 | 103 | 101 | 66 | 3.8 |
| 11466320 | SANTA ROSA C A WILLOWSIDE RD NR SANTA ROSA CA | USGS | 44 | 76 | 132 | 135 | 89 | 2 |
| 11466800 | MARK WEST C NR MIRABEL HEIGHTS CA | USGS | 134 | 226 | 407 | 412 | 273 | 7.2 |
| 11467000 | RUSSIAN R NR GUERNEVILLE CA | USGS | 878 | 1,645 | 2,585 | 2,592 | 1,829 | 26 |
| 11467200 | AUSTIN C NR CAZADERO CA | USGS | 64 | 139 | 184 | 179 | 120 | 1.3 |
| 11467510 | SF GUALALA R NR THE | USGS | 149 | 323 | 437 | 424 | 279 | 4.9 |

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| Gage Number | Gage Name | Source | November *(cfs)* | December *(cfs)* | January *(cfs)* | February *(cfs)* | March *(cfs)* | Groundwater Low Flow Threshold *(cfs)* |
|---|---|---|---|---|---|---|---|---|
| | SEA RANCH CA | | | | | | | |
| 11467553 | NF GUALALA R AB SF GUALALA R NR GUALALA CA | USGS | 39 | 77 | 117 | 107 | 80 | 3.9 |
| 11468000 | NAVARRO R NR NAVARRO CA | USGS | 200 | 407 | 611 | 557 | 422 | 8.4 |
| 11468500 | NOYO R NR FORT BRAGG CA | USGS | 82 | 169 | 240 | 212 | 175 | 5.5 |
| 11468900 | MATTOLE R NR ETTERSBURG CA | USGS | 113 | 268 | 306 | 265 | 212 | 7.8 |
| 11469000 | MATTOLE R NR PETROLIA CA | USGS | 406 | 942 | 1,118 | 960 | 769 | 27 |

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## Table 8. Tahoe Region Compliance Gage Numeric Instream Flow Requirements

| Gage Number | Gage Name | Source | November *(cfs)* | December *(cfs)* | January *(cfs)* | February *(cfs)* | March *(cfs)* | Groundwater Low Flow Threshold *(cfs)* |
|---|---|---|---|---|---|---|---|---|
| 10296000 | W WALKER RV BLW L WALKER RV NR COLEVILLE, CA | USGS | 89 | 102 | 102 | 102 | 102 | 79 |
| 10296500 | W WALKER RV NR COLEVILLE, CA | USGS | 103 | 106 | 106 | 106 | 106 | 92 |
| 10308200 | E FK CARSON RV BLW MARKLEEVILLE CK NR MARKLEEVILLE | USGS | 117 | 137 | 137 | 137 | 137 | 71 |
| 10310000 | W FK CARSON RV AT WOODFORDS, CA | USGS | 35 | 41 | 41 | 41 | 41 | 22 |
| 10336610 | UPPER TRUCKEE RV AT SOUTH LAKE TAHOE, CA | USGS | 27 | 35 | 35 | 35 | 35 | 11 |
| 10336645 | GENERAL C NR MEEKS BAY CA | USGS | 5 | 6.2 | 6.2 | 6.2 | 6.2 | 1.2 |
| 10336660 | BLACKWOOD C NR TAHOE CITY CA | USGS | 11 | 13 | 13 | 13 | 13 | 2.1 |
| 10336780 | TROUT CK NR TAHOE VALLEY, CA | USGS | 14 | 14 | 14 | 14 | 14 | 15 |
| 10343500 | SAGEHEN C NR TRUCKEE CA | USGS | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 2.2 |

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## Table 9. South Central Coast Region Compliance Gage Numeric Instream Flow Requirements

| Gage Number | Gage Name | Source | November *(cfs)* | December *(cfs)* | January *(cfs)* | February *(cfs)* | March *(cfs)* | Groundwater Low Flow Threshold *(cfs)* |
|---|---|---|---|---|---|---|---|---|
| 11141280 | LOPEZ C NR ARROYO GRANDE CA | USGS | 3.8 | 3.8 | 8.1 | 10 | 8.4 | 2.2 |
| 11143000 | BIG SUR R NR BIG SUR CA | USGS | 38 | 43 | 90 | 102 | 85 | 13 |
| 11143200 | CARMEL R A ROBLES DEL RIO CA | USGS | 40 | 67 | 158 | 210 | 162 | 3.9 |
| 11143250 | CARMEL R NR CARMEL CA | USGS | 40 | 71 | 175 | 244 | 181 | 5.5 |
| 11147500 | SALINAS R A PASO ROBLES CA | USGS | 20 | 43 | 117 | 149 | 114 | 1.9 |
| 11148500 | ESTRELLA R NR ESTRELLA CA | USGS | 22 | 28 | 61 | 96 | 91 | 0.99 |
| 11148900 | NACIMIENTO R BL SAPAQUE C NR BRYSON CA | USGS | 27 | 63 | 156 | 177 | 124 | 0 |
| 11149400 | NACIMIENTO R BL NACIMIENTO DAM NR BRADLEY CA | USGS | 16 | 34 | 108 | 118 | 80 | 0.28 |
| 11149900 | SAN ANTONIO R NR LOCKWOOD CA | USGS | 33 | 65 | 140 | 168 | 113 | 6.8 |
| 11150500 | SALINAS R NR BRADLEY CA | USGS | 75 | 136 | 350 | 411 | 399 | 4.4 |
| 11151300 | SAN LORENZO C BL BITTERWATER C NR KING CITY CA | USGS | 3.9 | 7.7 | 18 | 24 | 23 | 0.47 |
| 11151700 | SALINAS R A SOLEDAD CA | USGS | 107 | 167 | 429 | 519 | 497 | 11 |
| 11152000 | ARROYO SECO NR SOLEDAD CA | USGS | 64 | 99 | 206 | 280 | 209 | 9.8 |
| 11152050 | ARROYO SECO BL RELIZ C NR SOLEDAD CA | USGS | 57 | 96 | 208 | 278 | 189 | 8.4 |
| 11152500 | SALINAS R NR SPRECKELS CA | USGS | 125 | 219 | 539 | 666 | 618 | 16 |
| 11153000 | PACHECO C NR DUNNEVILLE CA | USGS | 4.2 | 9.7 | 27 | 36 | 24 | 0.37 |
| 11153650 | LLAGAS C NR GILROY | USGS | 11 | 18 | 59 | 53 | 37 | 0.87 |
| 11156500 | SAN BENITO R NR WILLOW CREEK SCHOOL CA | USGS | 7 | 17 | 34 | 59 | 50 | 0.55 |
| 11157500 | TRES PINOS C NR TRES PINOS CA | USGS | 3.5 | 10 | 29 | 35 | 26 | 0.58 |
| 11158600 | SAN BENITO R A HWY 156 NR HOLLISTER CA | USGS | 15 | 32 | 79 | 99 | 80 | 1.8 |
| 11159000 | PAJARO R A CHITTENDEN CA | USGS | 50 | 91 | 288 | 279 | 210 | 3.5 |
| 11159200 | CORRALITOS C A FREEDOM CA | USGS | 10 | 16 | 29 | 28 | 22 | 2.3 |
| 11160000 | SOQUEL C A SOQUEL CA | USGS | 17 | 26 | 45 | 48 | 37 | 2.3 |

| Gage Number | Gage Name | Source | November *(cfs)* | December *(cfs)* | January *(cfs)* | February *(cfs)* | March *(cfs)* | Groundwater Low Flow Threshold *(cfs)* |
|---|---|---|---|---|---|---|---|---|
| 11160500 | SAN LORENZO R A BIG TREES CA | USGS | 52 | 71 | 129 | 145 | 110 | 16 |
| 11161000 | SAN LORENZO R A SANTA CRUZ CA | USGS | 57 | 83 | 144 | 159 | 119 | 17 |
| 11162500 | PESCADERO C NR PESCADERO CA | USGS | 12 | 23 | 43 | 47 | 36 | 2.5 |
| 11162570 | SAN GREGORIO C A SAN GREGORIO CA | USGS | 16 | 25 | 45 | 45 | 35 | 0.9 |
| 11162630 | PILARCITOS C A HALF MOON BAY CA | USGS | 8.5 | 11 | 21 | 21 | 17 | 1.7 |
| 11164500 | SAN FRANCISQUITO C A STANFORD UNIVERSITY CA | USGS | 11 | 17 | 38 | 40 | 29 | 0.59 |
| 11166000 | MATADERO C A PALO ALTO CA | USGS | 1.4 | 1.6 | 4.8 | 5.4 | 3.2 | 0.31 |
| 11169025 | GUADALUPE R ABV HWY 101 A SAN JOSE CA | USGS | 38 | 58 | 168 | 161 | 104 | 1.5 |
| 11169500 | SARATOGA C A SARATOGA CA | USGS | 3.1 | 5.1 | 9 | 10 | 8 | 0.59 |
| 11169800 | COYOTE C NR GILROY CA | USGS | 7.3 | 19 | 57 | 65 | 45 | 0 |
| 11172175 | COYOTE C AB HWY 237 A MILPITAS CA | USGS | 20 | 52 | 134 | 147 | 100 | 1.6 |
| 11172945 | ALAMEDA C AB DIV DAM NR SUNOL CA | USGS | 4.2 | 10 | 21 | 23 | 19 | 0.18 |
| 11173200 | ARROYO HONDO NR SAN JOSE CA | USGS | 8.8 | 20 | 44 | 49 | 39 | 0.66 |
| 11173800 | INDIAN C NR SUNOL CA | USGS | 0.8 | 2 | 4.1 | 4.2 | 3.8 | 0 |
| 11174600 | ALAMO CN NR PLEASANTON CA | USGS | 2.9 | 5.1 | 16 | 15 | 11 | 0.26 |
| 11176400 | ARROYO VALLE BL LANG CYN NR LIVERMORE CA | USGS | 5.2 | 16 | 43 | 51 | 38 | 0 |
| 11176500 | ARROYO VALLE NR LIVERMORE CA | USGS | 6 | 18 | 48 | 58 | 41 | 0.54 |
| 11176900 | ARROYO DE LA LAGUNA A VERONA CA | USGS | 12 | 36 | 117 | 114 | 85 | 0.81 |
| 11180500 | DRY C A UNION CITY CA | USGS | 0.52 | 1.5 | 3.4 | 3.9 | 2.9 | 0 |
| 11180825 | SAN LORENZO C AB DON CASTRO RES NR CASTRO V CA | USGS | 1.6 | 3.3 | 7.7 | 8.2 | 6 | 0 |
| 11180900 | CROW C NR HAYWARD CA | USGS | 1.1 | 2.6 | 5.9 | 6.3 | 4.8 | 0 |
| 11180960 | CULL C AB CULL C RES NR CASTRO VALLEY CA | USGS | 0.57 | 1.5 | 3.5 | 3.8 | 3 | 0 |
| 11181040 | SAN LORENZO C A SAN LORENZO CA | USGS | 4 | 9.5 | 24 | 23 | 18 | 0.18 |

## Table 10. San Joaquin Region Compliance Gage Numeric Instream Flow Requirements

| Gage Number | Gage Name | Source | November *(cfs)* | December *(cfs)* | January *(cfs)* | February *(cfs)* | March *(cfs)* | Groundwater Low Flow Threshold *(cfs)* |
|---|---|---|---|---|---|---|---|---|
| 11224000 | MF SAN JOAQUIN R NR MAMMOTH LAKES CA | USGS | 23 | 25 | 28 | 27 | 31 | 13 |
| 11251000 | SAN JOAQUIN R BL FRIANT CA | USGS | 518 | 711 | 711 | 711 | 768 | 307 |
| 11255575 | PANOCHE C A I-5 NR SILVER CREEK CA | USGS | 3.8 | 6.3 | 11 | 22 | 20 | 0 |
| 11264500 | MERCED R A HAPPY ISLES BRIDGE NR YOSEMITE CA | USGS | 75 | 108 | 132 | 135 | 145 | 22 |
| 11266500 | MERCED R A POHONO BRIDGE NR YOSEMITE CA | USGS | 138 | 225 | 259 | 259 | 259 | 41 |
| 11274500 | ORESTIMBA C NR NEWMAN CA | USGS | 1.1 | 6.2 | 18 | 26 | 16 | 0 |
| 11274630 | DEL PUERTO C NR PATTERSON CA | USGS | 0.7 | 2.7 | 6.8 | 10 | 7.6 | 0 |
| 11274790 | TUOLUMNE R A GRAND CYN OF TUOLUMNE AB HETCH HETCHY | USGS | 170 | 197 | 225 | 211 | 237 | 66 |
| 11276500 | TUOLUMNE R NR HETCH HETCHY CA | USGS | 272 | 362 | 406 | 409 | 409 | 94 |
| 11276900 | TUOLUMNE R BL EARLY INTAKE NR MATHER CA | USGS | 276 | 377 | 414 | 414 | 414 | 98 |
| 11284400 | BIG C AB WHITES GULCH NR GROVELAND CA | USGS | 3.7 | 5.1 | 9.4 | 11 | 9.5 | 0 |
| 11285500 | TUOLUMNE R A WARDS FERRY BR NR GROVELAND CA | USGS | 601 | 761 | 761 | 761 | 816 | 292 |
| 11289650 | TUOLUMNE R BL LAGRANGE DAM NR LAGRANGE CA | USGS | 653 | 767 | 767 | 793 | 950 | 340 |
| 11299600 | BLACK C NR COPPEROPOLIS CA | USGS | 2.3 | 4.4 | 11 | 11 | 8.8 | 0 |
| 11303000 | STANISLAUS R A RIPON CA | USGS | 481 | 504 | 504 | 526 | 639 | 222 |
| BAR | BEAR | US Army Corps of Engineers | 6 | 8.5 | 19 | 22 | 20 | 0.07 |

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| Gage Number | Gage Name | Source | November *(cfs)* | December *(cfs)* | January *(cfs)* | February *(cfs)* | March *(cfs)* | Groundwater Low Flow Threshold *(cfs)* |
|---|---|---|---|---|---|---|---|---|
| BDV | BLACK RASCAL DIVERSION | US Army Corps of Engineers | 1.6 | 1.6 | 3.8 | 4.6 | 3.3 | 0.56 |
| BUR | BURNS CREEK DAM | US Army Corps of Engineers | 4.2 | 4.8 | 12 | 13 | 12 | 0.61 |
| DCM | DRY CREEK AT MODESTO AT CLAUS ROAD | DWR | 12 | 12 | 29 | 34 | 28 | 1.8 |
| FHL | FRESNO R ABV HENLEY LAKE | US Army Corps of Engineers | 46 | 58 | 103 | 120 | 133 | 2.1 |
| GDW | GOODWIN DAM | US Bureau of Reclamation | 479 | 543 | 543 | 543 | 653 | 224 |
| GRF | SAN JOAQUIN RIVER AT GRAVELLY FORD | US Bureau of Reclamation | 518 | 697 | 697 | 697 | 759 | 332 |
| LDC | LITTLE DRY CREEK (USBR) | US Bureau of Reclamation | 3.3 | 4.1 | 8.9 | 12 | 11 | 0.21 |
| MIL | FRIANT DAM (MILLERTON) | US Bureau of Reclamation | 516 | 720 | 720 | 720 | 764 | 307 |
| MSN | MERCED RIVER NEAR SNELLING | DWR | 344 | 392 | 460 | 531 | 620 | 146 |
| MST | MERCED RIVER NEAR STEVINSON | DWR, SCRO | 348 | 348 | 436 | 520 | 597 | 130 |
| NHG | NEW HOGAN LAKE | US Army Corps of Engineers | 146 | 200 | 411 | 400 | 346 | 4.4 |
| NML | NEW MELONES RESERVOIR | US Bureau of Reclamation | 481 | 550 | 550 | 550 | 619 | 218 |
| OBB | STANISLAUS R AT ORANGE BLOSSOM BRIDGE | DWR | 486 | 533 | 533 | 533 | 656 | 219 |
| TUM | TUOLUMNE MEADOWS | DWR | 24 | 24 | 28 | 25 | 32 | 12 |

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## Table 11. Mono Region Compliance Gage Numeric Instream Flow Requirements

| Gage Number | Gage Name | Source | November *(cfs)* | December *(cfs)* | January *(cfs)* | February *(cfs)* | March *(cfs)* | Groundwater Low Flow Threshold *(cfs)* |
|---|---|---|---|---|---|---|---|---|
| 10251330 | AMARGOSA RV ABV CHINA RANCH WASH NR TECOPA, CA | USGS | 47 | 47 | 48 | 75 | 137 | 51 |
| 10251335 | WILLOW CK AT CHINA RANCH, CA | USGS | 2.1 | 2.1 | 2.1 | 3.3 | 4.6 | 2.9 |
| 10260500 | DEEP C NR HESPERIA CA | USGS | 33 | 36 | 59 | 75 | 91 | 7.8 |
| 10260950 | WF MOJAVE R AB MOJAVE R FORKS RES NR HESPERIA CA | USGS | 11 | 13 | 28 | 37 | 35 | 2.2 |
| 10261500 | MOJAVE R A LO NARROWS NR VICTORVILLE CA | USGS | 39 | 42 | 69 | 99 | 98 | 4.3 |
| 10262500 | MOJAVE R A BARSTOW CA | USGS | 63 | 104 | 164 | 150 | 144 | 7.7 |
| 10263500 | BIG ROCK C NR VALYERMO CA | USGS | 6.5 | 6.5 | 8.3 | 13 | 13 | 3.9 |
| 10265150 | HOT C A FLUME NR MAMMOTH LAKES CA | USGS | 22 | 25 | 27 | 27 | 27 | 22 |

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## Table 12. Kern Region Compliance Gage Numeric Instream Flow Requirements

| Gage Number | Gage Name | Source | November *(cfs)* | December *(cfs)* | January *(cfs)* | February *(cfs)* | March *(cfs)* | Groundwater Low Flow Threshold *(cfs)* |
|---|---|---|---|---|---|---|---|---|
| 11189500 | SF KERN R NR ONYX CA | USGS | 61 | 61 | 61 | 65 | 61 | 39 |
| 11200800 | DEER C NR FOUNTAIN SPRINGS CA | USGS | 6.1 | 8.3 | 11 | 17 | 18 | 0.7 |
| 11203580 | SF TULE R NR CHOLOLLO CAMPGROUND NR PORTERVILLE CA | USGS | 4.9 | 6.3 | 6.3 | 7.5 | 9.8 | 2.7 |
| 11204100 | SF TULE R NR RESERVATION BNDRY NR PORTERVILLE CA | USGS | 11 | 14 | 19 | 25 | 29 | 3.7 |
| 11206820 | MARBLE FORK KAWEAH R AB HORSE C NR LODGEPOLE CA | USGS | 4.7 | 6.1 | 6.9 | 6.8 | 8.3 | 2.3 |
| 11224500 | LOS GATOS C AB NUNEZ CYN NR COALINGA CA | USGS | 1 | 3 | 6.2 | 10 | 9.3 | 0 |
| 11253310 | CANTUA C NR CANTUA CREEK CA | USGS | 0.53 | 1.3 | 2.5 | 4 | 4.3 | 0 |
| ISB | ISABELLA DAM | US Army Corps of Engineers | 274 | 274 | 274 | 274 | 274 | 310 |
| KKV | KERN R AT KERNVILLE | US Army Corps of Engineers | 255 | 290 | 290 | 290 | 290 | 172 |
| KRT | KINGS R NR TRIMMER | US Army Corps of Engineers | 441 | 695 | 759 | 759 | 759 | 277 |
| LCV | DRY CREEK NEAR LEMONCOVE | US Army Corps of Engineers | 13 | 19 | 33 | 40 | 42 | 0.6 |
| PDR | MILL CREEK NEAR PIEDRA | US Army Corps of Engineers | 16 | 27 | 50 | 59 | 64 | 0.66 |
| PNF | PINE FLAT DAM | US Army Corps of Engineers | 475 | 715 | 715 | 715 | 715 | 329 |
| SCC | SUCCESS DAM | US Army Corps of Engineers | 51 | 61 | 75 | 104 | 111 | 16 |
| TRM | TERMINUS DAM | US Army Corps of Engineers | 149 | 177 | 177 | 197 | 226 | 89 |
| TRR | KAWEAH RIVER AT THREE RIVERS | US Army Corps of Engineers | 125 | 186 | 186 | 186 | 207 | 62 |

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## Table 13. South Coast Region Compliance Gage Numeric Instream Flow Requirements

| Gage Number | Gage Name | Source | November *(cfs)* | December *(cfs)* | January *(cfs)* | February *(cfs)* | March *(cfs)* | Groundwater Low Flow Threshold *(cfs)* |
|---|---|---|---|---|---|---|---|---|
| 11014000 | JAMUL C NR JAMUL CA | USGS | 1.8 | 2.9 | 5.8 | 11 | 9.9 | 0 |
| 11015000 | SWEETWATER R NR DESCANSO CA | USGS | 5.1 | 6.3 | 11 | 16 | 19 | 0.55 |
| 11016200 | SWEETWATER R A DEHESA CA | USGS | 6.2 | 9.4 | 18 | 28 | 29 | 0.44 |
| 11023000 | SAN DIEGO R A FASHION VALLEY AT SAN DIEGO CA | USGS | 14 | 21 | 42 | 64 | 71 | 0.64 |
| 11023340 | LOS PENASQUITOS C NR POWAY CA | USGS | 1.5 | 1.8 | 5.1 | 6.5 | 6.4 | 0 |
| 11027000 | GUEJITO C NR SAN PASQUAL CA | USGS | 1.3 | 1.5 | 3.7 | 5.5 | 4.4 | 0 |
| 11028500 | SANTA MARIA C NR RAMONA CA | USGS | 3.2 | 3.2 | 7.4 | 11 | 9.6 | 0.39 |
| 11042000 | SAN LUIS REY R A OCEANSIDE CA | USGS | 17 | 30 | 70 | 96 | 89 | 1.2 |
| 11042400 | TEMECULA C NR AGUANGA CA | USGS | 7.4 | 7.7 | 16 | 24 | 21 | 0.46 |
| 11044300 | SANTA MARGARITA R A FPUD SUMP NR FALLBROOK CA | USGS | 24 | 24 | 55 | 78 | 71 | 3.2 |
| 11044350 | SANDIA C NR FALLBROOK CA | USGS | 0.28 | 0.76 | 2 | 3.4 | 2.2 | 0 |
| 11044800 | DE LUZ C NR DE LUZ CA | USGS | 0.52 | 1.3 | 3.1 | 5.8 | 4 | 0 |
| 11046000 | SANTA MARGARITA R A YSIDORA CA | USGS | 25 | 27 | 59 | 93 | 81 | 3 |
| 11046100 | LAS FLORES C NR OCEANSIDE CA | USGS | 0.66 | 1 | 2.6 | 3.9 | 2.9 | 0.19 |
| 11046300 | SAN MATEO C NR SAN CLEMENTE CA | USGS | 1.8 | 4.7 | 11 | 19 | 14 | 0 |
| 11046360 | CRISTIANITOS C AB SAN MATEO C NR SAN CLEMENTE CA | USGS | 0.88 | 1.4 | 3.6 | 6 | 4 | 0 |
| 11047300 | ARROYO TRABUCO A SAN JUAN CAPISTRANO CA | USGS | 1.4 | 2.9 | 7.8 | 10 | 9.6 | 0.1 |
| 11048200 | AGUA CHINON WASH NR | USGS | 0.05 | 0.15 | 0.41 | 0.64 | 0.45 | 0 |

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| Gage Number | Gage Name | Source | November *(cfs)* | December *(cfs)* | January *(cfs)* | February *(cfs)* | March *(cfs)* | Groundwater Low Flow Threshold *(cfs)* |
|---|---|---|---|---|---|---|---|---|
| | IRVINE CA | | | | | | | |
| 11051499 | SANTA ANA R NR MENTONE (RIVER ONLY) CA | USGS | 39 | 39 | 41 | 58 | 69 | 18 |
| 11055800 | CITY C NR HIGHLAND CA | USGS | 3.6 | 4.4 | 8 | 11 | 11 | 1.3 |
| 11057500 | SAN TIMOTEO C NR LOMA LINDA CA | USGS | 6.5 | 7.3 | 14 | 24 | 20 | 0.6 |
| 11058500 | E TWIN C NR ARROWHEAD SPRINGS CA | USGS | 1.6 | 1.7 | 3.3 | 4.7 | 4.4 | 0.5 |
| 11062000 | LYTLE C NR FONTANA CA | USGS | 22 | 22 | 37 | 47 | 47 | 11 |
| 11063510 | CAJON C BL LONE PINE C NR KEENBROOK CA | USGS | 10 | 10 | 19 | 28 | 25 | 3.1 |
| 11063680 | DEVIL CYN C NR SAN BERNARDINO CA | USGS | 1.7 | 1.7 | 4.1 | 4.8 | 3.8 | 0.41 |
| 11069500 | SAN JACINTO R NR SAN JACINTO | USGS | 12 | 13 | 21 | 32 | 30 | 3.6 |
| 11070365 | SAN JACINTO R NR SUN CITY CA | USGS | 22 | 25 | 62 | 75 | 66 | 2.9 |
| 11073360 | CHINO C A SCHAEFER AVENUE NR CHINO CA | USGS | 8.9 | 11 | 23 | 29 | 27 | 3 |
| 11073495 | CUCAMONGA C NR MIRA LOMA CA | USGS | 9.5 | 10 | 26 | 37 | 25 | 0.81 |
| 11078000 | SANTA ANA R A SANTA ANA CA | USGS | 140 | 166 | 368 | 502 | 425 | 16 |
| 11098000 | ARROYO SECO NR PASADENA CA | USGS | 3.7 | 3.7 | 8.1 | 11 | 9.2 | 0.61 |
| 11109000 | SANTA CLARA R NR PIRU CA | USGS | 43 | 43 | 87 | 157 | 120 | 0.62 |
| 11109600 | PIRU CREEK ABOVE LAKE PIRU CA | USGS | 31 | 31 | 61 | 95 | 80 | 3.7 |
| 11109800 | PIRU CREEK BELOW SANTA FELICIA DAM CA | USGS | 34 | 34 | 67 | 113 | 90 | 2.6 |
| 11111500 | SESPE CREEK NEAR WHEELER SPRINGS CA | USGS | 4.9 | 7.6 | 16 | 28 | 22 | 0.26 |
| 11113000 | SESPE C NR FILLMORE | USGS | 34 | 40 | 91 | 150 | 104 | 1 |
| 11113500 | SANTA PAULA C NR SANTA PAULA | USGS | 5.1 | 6.1 | 14 | 23 | 16 | 0.27 |
| 11114495 | MATILIJA C NR RES NR | USGS | 8.4 | 12 | 27 | 43 | 30 | 1.8 |

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| Gage Number | Gage Name | Source | November *(cfs)* | December *(cfs)* | January *(cfs)* | February *(cfs)* | March *(cfs)* | Groundwater Low Flow Threshold *(cfs)* |
|---|---|---|---|---|---|---|---|---|
| | MATILIJA HOT SPRINGS CA | | | | | | | |
| 11118500 | VENTURA R NR VENTURA | USGS | 24 | 34 | 90 | 135 | 83 | 0.83 |
| 11119500 | CARPINTERIA C NR CARPINTERIA CA | USGS | 2.3 | 3.2 | 8.7 | 13 | 7.6 | 0.13 |
| 11119750 | MISSION C NR MISSION ST NR SANTA BARBARA CA | USGS | 1.3 | 1.7 | 4.4 | 6.8 | 4.1 | 0.16 |
| 11120000 | ATASCADERO C NR GOLETA CA | USGS | 1.9 | 2.9 | 7.7 | 11 | 7.7 | 0.27 |
| 11120500 | SAN JOSE C NR GOLETA CA | USGS | 0.86 | 1.2 | 3.2 | 4.4 | 3 | 0 |
| 11123500 | SANTA YNEZ R BL LOS LAURLS CYN NR SNTA YNEZ CA | USGS | 34 | 55 | 124 | 213 | 147 | 2.2 |
| 11124500 | SANTA CRUZ C NR SANTA YNEZ CA | USGS | 5.1 | 11 | 22 | 36 | 32 | 0 |
| 11128250 | ALAMO PINTADO C NR SOLVANG CA | USGS | 2 | 3.3 | 8.5 | 12 | 9.1 | 0.18 |
| 11128500 | SANTA YNEZ R A SOLVANG CA | USGS | 56 | 95 | 239 | 341 | 255 | 3 |
| 11129800 | ZACA C NR BUELLTON CA | USGS | 1.9 | 3.6 | 9.6 | 13 | 10 | 0.19 |
| 11132500 | SALSIPUEDES C NR LOMPOC CA | USGS | 2.4 | 4.7 | 12 | 18 | 13 | 0.28 |
| 11134000 | SANTA YNEZ R A H ST NR LOMPOC CA | USGS | 62 | 110 | 281 | 368 | 312 | 9.6 |
| 11135800 | SAN ANTONIO C A LOS ALAMOS CA | USGS | 2 | 3.8 | 9.8 | 15 | 10 | 0.34 |
| 11136100 | SAN ANTONIO C NR CASMALIA CA | USGS | 5.2 | 8.5 | 23 | 37 | 26 | 0.88 |
| 11136600 | SANTA BARBARA CYN C NR VENTUCOPA CA | USGS | 2.5 | 3.2 | 5.8 | 10 | 8.8 | 0.27 |
| 11136800 | CUYAMA R BL BUCKHORN CYN NR SANTA MARIA CA | USGS | 22 | 33 | 59 | 98 | 92 | 3 |
| 11137900 | HUASNA R NR ARROYO GRANDE CA | USGS | 4.1 | 9.2 | 21 | 31 | 23 | 3.4 |
| 11138500 | SISQUOC R NR SISQUOC CA | USGS | 9.4 | 24 | 41 | 77 | 77 | 1.3 |
| 11140000 | SISQUOC R NR GAREY | USGS | 17 | 44 | 96 | 134 | 143 | 2.6 |
| 11140585 | SANTA MARIA R A SUEY | USGS | 44 | 81 | 148 | 266 | 241 | 7.6 |

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| Gage Number | Gage Name | Source | November *(cfs)* | December *(cfs)* | January *(cfs)* | February *(cfs)* | March *(cfs)* | Groundwater Low Flow Threshold *(cfs)* |
|---|---|---|---|---|---|---|---|---|
| | CROSSING NR SANTA MARIA CA | | | | | | | |
| 11141050 | ORCUTT C NR ORCUTT CA | USGS | 0.84 | 1.2 | 2.8 | 5.1 | 3.2 | 0.21 |
| CCH | CACHUMA LAKE | US Bureau of Reclamation | 47 | 78 | 175 | 295 | 212 | 2.7 |
| CSK | CASTAIC CANYON CK Z3-2388 | DWR, Southern Field Division | 2.1 | 2.1 | 3.7 | 7.8 | 6.1 | 0 |
| ECC | ELIZABETH CANYON CK | DWR, Southern Field Division | 4.1 | 4.9 | 10 | 18 | 13 | 0.19 |
| FCK | FISH CANYON CK | DWR, Southern Field Division | 2.6 | 2.8 | 5.5 | 10 | 7.6 | 0.17 |
| PIR | PIRU CREEK BLW BUCK CR NR PYRAMID LAKE | DWR | 19 | 23 | 42 | 70 | 59 | 3.8 |

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## Table 14. South Eastern Desert Region Compliance Gage Numeric Instream Flow Requirements

| Gage Number | Gage Name | Source | November *(cfs)* | December *(cfs)* | January *(cfs)* | February *(cfs)* | March *(cfs)* | Groundwater Low Flow Threshold *(cfs)* |
|---|---|---|---|---|---|---|---|---|
| 10254050 | SALT C NR MECCA | USGS | 2.6 | 1.2 | 3 | 4.4 | 2.6 | 2 |
| 10256500 | SNOW C NR WHITE WATER CA | USGS | 1.8 | 1.8 | 2.4 | 3 | 3.2 | 1.5 |
| 10257600 | MISSION C NR DESERT HOT SPRINGS CA | USGS | 1.5 | 1.5 | 2.2 | 3.4 | 3.1 | 0.59 |
| 10258000 | TAHQUITZ C NR PALM SPRINGS CA | USGS | 1.7 | 2.4 | 3.2 | 3.7 | 4.6 | 0.22 |
| 10258500 | PALM CYN C NR PALM SPRINGS CA | USGS | 1.2 | 1.9 | 4.1 | 6.2 | 5.8 | 0 |
| 10259000 | ANDREAS C NR PALM SPRINGS CA | USGS | 1.1 | 1.2 | 1.7 | 1.9 | 1.9 | 0.85 |
| 10259100 | WHITEWATER R A RANCHO MIRAGE CA | USGS | 40 | 50 | 69 | 98 | 86 | 15 |
| 10259200 | DEEP C NR PALM DESERT CA | USGS | 0.57 | 0.71 | 1.5 | 2.2 | 1.8 | 0 |
| 10259300 | WHITEWATER R A INDIO CA | USGS | 47 | 71 | 83 | 116 | 95 | 20 |
| 9423350 | CARUTHERS C NR IVANPAH CA | USGS | 0.25 | 0.29 | 0.39 | 0.48 | 0.86 | 0 |

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# SECTION 5 – PLANNING AND REPORTING

## Technical Report Preparation Requirements for Cannabis General Order

Enrollees under the Cannabis General Order are required to submit technical reports to the appropriate Regional Water Board. The report(s) shall be transmitted in portable document format (PDF) to the e-mail address provided in the notice of receipt provided to the Cannabis General Order Enrollee as proof of enrollment. A description of each report and deadline for its submittal is provided below. The table below summarizes report submittal requirements, by tier and risk level, and Cannabis General Order Attachment D contains guidance regarding contents of required reports.

*Summary of Technical Reports Required by Tier and Risk Level*

| Tier | Risk Level | Technical Reports |
|---|---|---|
| Exempt or Conditionally Exempt | Not Applicable | Site Closure Report |
| Tier 1 | All | Site Management Plan |
| Tier 1 | Moderate | Site Erosion and Sediment Control Plan |
| Tier 1 | High | Disturbed Area Stabilization Plan |
| Tier 1 | All | Site Closure Report |
| Tier 2 | All | Site Management Plan |
| Tier 2 | Moderate | Site Erosion and Sediment Control Plan |
| Tier 2 | High | Disturbed Area Stabilization Plan |
| Tier 2 | All | Nitrogen Management Plan |
| Tier 2 | All | Site Closure Report |

Conditionally exempt cannabis cultivators that can no longer meet the requirements to qualify for conditional exemptions may have to enroll as a Tier 1 or Tier 2 site. If so, cannabis cultivators that no longer qualify for the conditionally exempt cannabis cultivation site status shall submit the technical and monitoring reports associated with their tier status.

Applicants or current cannabis cultivators that do not comply with the conditional exemptions (enrolled as Tier 1 or Tier 2) must comply with the riparian setback and slope limits and are classified as moderate or high risk, as described below:

- Moderate Risk: A cannabis cultivation site is classified as moderate risk if any part of the disturbed area is located on a slope greater than 30 percent and less than 50 percent. Such cannabis cultivators shall register as moderate risk and submit a *Site Erosion and Sediment Control Plan*.

- High Risk: A cannabis cultivation site is classified as high risk if any part of the disturbed area exists within the riparian setback limits. Such cannabis cultivators shall register as high risk, submit a *Disturbed Area Stabilization Plan*, and shall address the compliance issue as described below. Because such cannabis cultivators pose a higher risk to

water quality and will require a higher level of Regional Water Board oversight, they are subject to a higher application and annual fee. When the cannabis cultivation site is reconfigured to comply with the riparian setbacks, the cannabis cultivator can request the Regional Water Board reclassify the site to a lower risk level and allow a lower annual fee to be assessed.

### Site Management Plan

**Within 90 days** of the issuance of a notice of receipt, Tier 1 and Tier 2 cannabis cultivators shall submit and implement a *Site Management Plan* that describes how the cannabis cultivator is complying with the Requirements listed in Attachment A. The description shall describe how the Best Practicable Treatment or Control (BPTC) measures are implemented (e.g., for petroleum fuel storage, specify the specific product or means of compliance). Cannabis cultivators that are land owners of cannabis cultivation sites in North Coast Regional Water Board jurisdiction are required to submit and implement *Site Management Plans* that describe how the Requirements are implemented property-wide, including Requirements implemented to address discharges from legacy activities. The *Site Management Plan* may include a schedule to achieve compliance, but all work must be completed by **November 15 each year**. (The November 15 date does not relieve a cannabis cultivator from implementing the interim soil stabilization Requirements described in Attachment A of this Policy. Interim measures are those that are implemented immediately upon site development.) Attachment D of the Cannabis General Order provides guidance on the contents of the *Site Management Plan*.

### Site Erosion and Sediment Control Plan

**Within 90-days** of the issuance of a notice of receipt, Tier 1 or Tier 2 cannabis cultivators classified as moderate risk (any portion of the disturbed area is located on a slope greater than 30 percent and less than 50 percent), shall submit a *Site Erosion and Sediment Control Plan* that describes how the cannabis cultivator will implement the Requirements listed in Attachment A of this Policy. Because moderate risk sites are located on steeper slopes, additional Requirements, or a higher density of Requirements may be appropriate to achieve the goal of minimizing the discharge of sediment off-site.

Consistent with the Business and Professions Code, the Forest Practice Act, and other state laws, certain technical report preparation, design calculations, and report preparation must be prepared under the supervision of a California licensed civil engineer, professional forester, or professional geologist. When required, the *Site Erosion and Sediment Control Plan* shall be prepared by an individual qualified as described below:

i. A California Registered Professional Civil Engineer.
ii. A California Registered Professional Geologist.
iii. A California Certified Engineering Geologist.
iv. A California Registered Landscape Architect.
v. A Professional Hydrologist registered through the American Institute of Hydrology.
vi. A Certified Professional in Erosion and Sediment Control (CPESC)™ registered through Enviro Cert International, Inc.
vii. A Certified Professional in Storm Water Quality (CPSWQ)™ registered through Enviro Cert International, Inc.

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viii. A Professional in Erosion and Sediment Control registered through the National Institute for Certification in Engineering Technologies (NICET).

Attachment D of the Cannabis General Order, provides guidance on the contents of the *Site Erosion and Sediment Control Plan*.

### Disturbed Area Stabilization Plan

**Within 90-days** of the issuance of a notice of receipt, Tier 1 or Tier 2 cannabis cultivators classified as high risk (any portion of the disturbed area exists within the riparian setbacks Requirements specified in Section 1 of this Policy except as authorized by a CDFW Lake or Streambed Alteration permit), shall submit a *Disturbed Area Stabilization Plan* that describes how compliance with the riparian setbacks will be achieved.

Areas disturbed upon initial site development that are located within the riparian setback specified in the Policy are considered disturbed area and will place the Cannabis Cultivation Site under the high risk level. Roads and watercourse crossings designed, constructed, and maintained consistent with the Road Handbook are not considered disturbed areas.

Consistent with the Business and Professions Code, the Forest Practice Act, and other state laws, certain technical report preparation, design calculations, and report preparation must be prepared under the supervision of a California licensed civil engineer, professional forester, or professional geologist.

When required, the *Disturbed Area Stabilization Plan* shall be prepared by an individual qualified as described below:

i. A California Registered Professional Civil Engineer.

ii. A California Registered Professional Geologist.

iii. A California Certified Engineering Geologist.

iv. A California Registered Landscape Architect.

v. A Professional Hydrologist registered through the American Institute of Hydrology.

vi. A Certified Professional in Erosion and Sediment Control (CPESC)™ registered through Enviro Cert International, Inc.

vii. A Certified Professional in Storm Water Quality (CPSWQ)™ registered through Enviro Cert International, Inc.

viii. A Professional in Erosion and Sediment Control registered through the National Institute for Certification in Engineering Technologies (NICET).

If the cannabis cultivator cannot achieve compliance by the next November 15 date (stabilization work will continue past November 15 or will continue the following year), the Cannabis Cultivator must include a time schedule and scope of work for approval by the Regional Water Board Executive Officer and use in preparing an enforcement order. Attachment D of the Cannabis General Order provides guidance on the contents of the *Disturbed Area Stabilization Plan*.

### Nitrogen Management Plan

**Within 90 days** of the issuance of a notice of receipt, all Tier 2 cannabis cultivators with a cannabis cultivation area, or aggregate of cultivation areas, greater than one acre shall submit a *Nitrogen Management Plan* (NMP) for the cannabis cultivation site. The NMP shall calculate all

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the nitrogen applied to the cannabis cultivation area (dissolved in irrigation water, originating in soil amendments, and applied fertilizers) and describe procedures to limit excessive fertilizer application. Attachment D of the Cannabis General Order provides guidance on the contents of a *Nitrogen Management Plan*.

### Site Closure Report

**At least 90 days prior to ending cannabis cultivation** at a site, a registered (conditionally exempt) or enrolled (Tier 1 or Tier 2) cannabis cultivator shall submit a *Site Closure Report* that describes how the site will be decommissioned to prevent sediment and turbidity discharges that degrade water quality. If construction activities are proposed in the *Site Closure Report*, a project implementation schedule shall be included in the report. Attachment D of the Cannabis General Order provides guidance on the contents of the *Site Closure Report*. A Notice of Termination must be submitted (Attachment C of the Cannabis General Order) with the *Site Closure Report*.

Cannabis cultivators with cultivation activities on slopes greater than 30 percent and less than 50 percent shall submit a *Site Erosion and Sediment Control Plan*; cannabis cultivators with any portion of their disturbed area within the riparian setbacks must submit a *Disturbed Area Stabilization Plan*. When required, the reports shall be prepared by an individual qualified as described below:

i. A California Registered Professional Civil Engineer.

ii. A California Registered Professional Geologist.

iii. A California Certified Engineering Geologist.

iv. A California Registered Landscape Architect.

v. A Professional Hydrologist registered through the American Institute of Hydrology.

vi. A Certified Professional in Erosion and Sediment Control (CPESC)™ registered through Enviro Cert International, Inc.

vii. A Certified Professional in Storm Water Quality (CPSWQ)™ registered through Enviro Cert International, Inc.

viii. A Professional in Erosion and Sediment Control registered through the National Institute for Certification in Engineering Technologies (NICET).

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# SECTION 6 – USEFUL GUIDANCE DOCUMENTS

1. Handbook for Forest, Ranch, & Rural Roads: A Guide for Planning, Designing, Constructing, Reconstructing, Upgrading, Maintaining, and Closing Wildland Roads
   http://www.pacificwatershed.com/sites/default/files/RoadsEnglishBOOKapril2015b.pdf

2. A Water Quality and Stream Habitat Protection Manual for County Road Maintenance in Northwestern California Watersheds
   http://www.5counties.org/roadmanual.htm

3. Construction Site BMP Fact Sheets
   http://www.dot.ca.gov/hq/construc/stormwater/factsheets.htm

4. United States Environmental Protection Agency Riparian/Forested Buffer
   https://nepis.epa.gov/Exe/ZyPDF.cgi/2000W45Y.PDF?Dockey=2000W45Y.PDF

5. Creating Effective Local Riparian Buffer Ordinances
   http://www.ohioenvironmentallawblog.com/uploads/file/UGA%20riparian_buffer_guidebook.pdf

6. How to Install Residential Scale Best Management Practices (BMPs) in the Lake Tahoe Basin
   http://www.tahoebmp.org/Documents/Contractors%20BMP%20Manual.pdf

7. Spoil Pile BMPs
   http://michigan.gov/documents/deq/deq-wb-nps-sp_250905_7.pdf

8. Sanctuary Forest Water Storage Guide
   https://greywateraction.org/wp-content/uploads/2014/11/SantuaryForrest_Water_Storage_Guide.pdf

9. Natural Resources Conservation Service-USDA, “Ponds – Planning, Design, Construction”, Agriculture Handbook
   http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs144p2_030362.pdf

10. Division of Safety of Dams Size Requirements
    http://www.water.ca.gov/damsafety/jurischart/

11. Water Tanks: Guidelines for Installation and Use
    http://www.waterandseptictanks.com/Portals/0/files/GUIDELINES-FOR-INSTALLATION-OF-WATER-TANKS-_rev1_-03-20-08-_2_.pdf

12. Guidelines for Use and Installation of Above Ground Water Tanks
    http://www.waterandseptictanks.com/Portals/0/files/GUIDELINES-FOR-INSTALLATION-OF-WATER-TANKS-_rev1_-03-20-08-_2_.pdf

13. BEST MANAGEMENT PRACTICES (BMP’s) University of California Cooperative Extension
    http://www.waterboards.ca.gov/sandiego/water_issues/programs/wine_country/docs/updates081910/ucce_bmps.pdf

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14. California Storm Water Quality Association, Section 4: Source Control BMPs
https://www.casqa.org/sites/default/files/BMPHandbooks/sd-12.pdf

15. CA DOT Solid Waste Management Plan
http://www.dot.ca.gov/hq/construc/stormwater/WM-05.pdf

16. State Water Resources Control Board Onsite Wastewater Treatment System (OWTS) policy
http://www.waterboards.ca.gov/water_issues/programs/owts/docs/owts_policy.pdf

17. California Storm Water Quality Association
Section 4: Source Control BMPs
https://www.casqa.org/sites/default/files/BMPHandbooks/sd-32.pdf

18. California Riparian Habitat Restoration Handbook
http://www.conservation.ca.gov/dlrp/watershedportal/InformationResources/Documents/Restoration_Handbook_Final_Dec09.pdf

19. The Practical Streambank Bioengineering Guide
http://www.nrcs.usda.gov/Internet/FSE_PLANTMATERIALS/publications/idpmcpu116.pdf

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State Water Resources Control Board

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# Cannabis Cultivation Policy

# ATTACHMENT B

## Glossary of Terms

## July 7, 2017

**Agronomic rate —** The rate of application of irrigation water and nutrients to plants necessary to satisfy the plants' evapotranspiration requirements and growth needs and minimize the movement of nutrients below the plants root zone. The agronomic rate considers allowances for supplemental water (e.g., effective precipitation), irrigation distribution uniformity, nutrients present in irrigation water, leaching requirement, and plant available nitrogen.

**Anadromy (adj. form: anadromous) —** Migration of fish, as adults or subadults, from salt water to fresh.

**Aquatic benthic macroinvertebrate —** Aquatic animals without backbones that can be seen by the unaided eye and typically dwell on rocks, logs, sediment or plants. Include, but are not limited to, insects, mollusks, amphipods, and aquatic worms. Common aquatic insects include, but are not limited to, mayflies, stoneflies, caddisflies, true flies, water beetles, dragonflies, and damselflies.

**Aquatic non-fish vertebrate —** Include, but are not limited to, aquatic mammals, such as beavers, river otters, and muskrats; amphibians, such as frogs and salamanders; and reptiles, such as snakes and turtles.

**Average, also called mean —** The sum of measured values divided by the number of samples.

**California Native American tribe —** As defined in section 21073 of the Public Resources Code: A Native American tribe located in California that is on the contact list maintained by the Native American Heritage Commission for the purposes of Chapter 905 of the Statutes of 2004.

**Cannabis cultivation —** Any activity involving or necessary for the planting, growing, pruning, harvesting, drying, curing, or trimming of cannabis. This term includes, but is not limited to (1) water diversions for cannabis cultivation, and (2) activities that prepare or develop a cannabis cultivation site or otherwise support cannabis cultivation and which discharge or threaten to discharge waste to waters of the state.

**Cannabis cultivation area —** Is defined by the following:

a. For in-ground plants, the cultivation area is defined by the perimeter of the area planted, including any immediately adjacent surrounding access pathways.

b. For plants grown outdoors in containers (e.g., pots, grow bags, etc.) the cultivation area is defined by a perimeter that contains the containers, including any surrounding immediately adjacent access pathways. The area is not limited to the sum of the area of each individual container.

c. For plants grown indoors, but that do not qualify for the conditional exemption, the cultivation area is defined by the entire area contained in the structure where cultivation occurs, excluding any area used solely for activities that are not

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cultivation activities (e.g., office space). Areas used for storage of materials, equipment, or items related to cultivation shall be included in the area calculation.

**Cannabis cultivation site —** A location where cannabis is planted, grown, pruned, harvested, dried, cured, graded, or trimmed, or where any combination of these activities occurs.

**Cannabis cultivator —** Any person or entity engaged in cultivating cannabis that diverts water (i.e. diverter) or discharges or threatens to discharge waste (i.e. discharger). The term includes business entities, employees, and contractors; landowners; cultivators; lessees; and tenants of private land where cannabis is grown and of lands that are modified or maintained to facilitate cannabis cultivation.

**Construction Storm Water Program** — Refers to implementation of Water Quality Order 2009-0009-DWQ and National Pollutant Discharge Elimination System No. CAS000002, as amended by Order No. 2010-0014-DWQ, Order No. 2012-0006-DWQ, and amendments thereto. Cannabis cultivators whose activities disturb one or more acres of soil or whose projects disturb less than one acre but are part of a larger common pan of develop that in total disturbs one or more acres may need to obtain coverage under the Construction Storm Water Program. Construction activities covered under the Construction Storm Water Program may include clearing, grading, and disturbances to the ground such as stockpiling, or excavation, but does not include agricultural stormwater discharges, silviculture, road construction and maintenance from which there is natural runoff, regular maintenance activities performed to restore the original line, grade, or capacity of a facility, or other non-point source discharges.

**Canopy — For streams:** The overhead branches and leaves of streamside woody vegetation. **For cannabis:** The area of a cultivation site that contains mature plants at any point in time.

**Channel maintenance flows —** Peak streamflows needed for maintaining stream channel geometry, gravel and woody debris movement, and the natural flow variability needed for protection of various habitat needs of anadromous salmonids.

**Channel thalweg —** The line connecting the lowest or deepest points along a stream channel.

**Cesspool —** An excavation in the ground receiving domestic wastewater, designed to retain the organic matter and solids, while allowing the liquids to seep into the soil. Cesspools do not have a septic tank providing primary treatment of wastewater prior to discharge. A cesspool is distinguished from an outhouse, pit-privy, or pit-toilet because liquid wastewater (e.g., from toilet flushing, shower, or kitchen sources) is discharged to a cesspool.

**Coarse sediment —** Particle sizes of ¼ inch or larger, including particles derived from debris flows, that either contribute directly to spawning gravel, or that reduce to a

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smaller usable size, or influence stream channel morphology by forming a **substrate** framework.

**Day —** Is the mean solar day of 24 hours beginning at mean midnight. All references to day in the Policy are calendar days.

**Deep percolation —** Infiltration of water through soil when excess irrigation water is applied and percolates below the plant root zone.

**Discharger —** Any person or entity engaged in developing land for cannabis cultivation or to provide access to adjacent properties for cultivation activities and/or any person or entity engaged in the legal cultivation of cannabis that discharges or threatens to discharge waste to waters of the state.

**Diverter —** Any person or entity that diverts water from waters of the state, including surface waterbodies and groundwater.

**Diversion —** Taking water, by gravity or pumping, from a surface stream or groundwater, into a canal, pipeline, or other conduit, including impoundment of water in a reservoir.

**Dredged material —** Material that is excavated or dredged from a water body. This term is further defined at 33 Code of Federal Regulations Part 323.2(c).

**Earthwork and Paving Contractor —** A contractor holding a California Department of Consumer Affairs issued C-12 Earthwork and Paving License. These contractors are licensed to dig, move, and place material forming the surface of the earth, other than water, in such a manner that a cut, fill, excavation, grade, trench, backfill, or tunnel (if incidental thereto) can be executed, including the use of explosives for these purposes. This classification includes the mixing, fabricating and placing of paving and any other surfacing materials. See California Code of Regulations Title 16, Division 8, Article 3. Classifications.

**Ecological functions and values (of riparian habitat) —** Functions are onsite and offsite natural riparian habitat processes. Values are the importance of the riparian habitat to society in terms of health and safety; historical or cultural significance; ecological characteristics, education, research, or scientific significance; aesthetic significance; economic significance; or other reasons.

**Ephemeral watercourse —** See *Watercourse* definitions.

**Exceedance probability —** The probability that a specified streamflow magnitude will be exceeded. The exceedance probability is equal to one divided by the recurrence interval.

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**Face value —**The maximum amount of water that is authorized to be diverted under a water right permit, license, small domestic/livestock stockpond certificate, or statement of diversion.

**Face value demand —** The sum of the face values of all water rights above an identified location in a stream channel.

**Fill material —** Material placed into a water body that has the effect of either replacing any portion of the water with dry land or changing the bottom elevation of the water body. This term is further defined at 33 Code of Federal Regulations Part 323.2(e).

**Fish –** Wild fish, mollusks, crustaceans, invertebrates, or amphibians, including any part, spawn, or ova thereof (California Fish and Code section 45). For the purposes of stream classification, fish are defined as finfish.

**Flow frequency analysis —** A statistical technique used by hydrologists for estimating the average rate at which floods, droughts, storms, stores, rainfall events, etc., of a specified magnitude recur.

**Flow path —** The direction water flows along its stream course from the point of diversion to the Pacific Ocean. If a project will have a *de minimis* effect on flows in a flow-regulated mainstem river, then the flow path may terminate at the flow-regulated mainstem river.

**Flow-regulated mainstem river —** A river or stream in which scheduled releases from storage are made to meet minimum instream flow requirements established by a State Water Board Order or Decision.

**Forbearance Period —**The calendar days or otherwise defined conditions during which no water may be diverted. See also *Surface Water Diversion Period*.

**Habitat suitability criteria —** Structural and hydraulic characteristics of a stream that are indicators of habitat suitability for different fish species and life stages.

**Hazardous material —** Any item or agent (biological, chemical, radiological, and/or physical), which has the potential to cause harm to humans, animals, or the environment, either by itself or through interaction with other factors.

**Heavy equipment —** Large pieces of machinery or vehicles, especially those used in the building and construction industry (e.g., bulldozers, excavators, backhoes, bobcats, tractors, etc.).

**Hydraulic conductivity —** The capacity of a porous medium to transmit water. The rate at which fluid can move through a permeable medium depends on the properties of the fluid (viscosity and specific weight) and properties of the medium (intrinsic

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permeability). Hydraulic conductivity is generally measured in units of feet/day or centimeters/second.

**Hydrograph —** A graph showing for the rate of flow versus time past a specific point in a river, or other channel or conduit carrying flow; generally measured in units of cubic meters or cubic feet/second.

**Hyporheic —** Denoting an area or ecosystem beneath the bed of a river or stream that is saturated with water and that supports invertebrate fauna which play a role in the larger ecosystem.

**Impervious surface —** A permanent improvement affixed to the earth which does not allow water or liquid to pass through it or permeate into the earth. Impervious surface includes a house or primary structure, driveway, parking lot, walkways, sidewalks, patios, decks, green houses, accessory structure(s), and other hardscape.

**Instream cover —** Areas of shelter in a stream channel that provide aquatic organisms protection from predators or competitors and/or a place in which to rest and conserve energy due to a reduction in the force of the current.

**Integrated Pest Management (IPM) —** An ecosystem-based strategy that focuses on long-term prevention of pests or their damage through a combination of techniques such as biological control, habitat manipulation, modification of cultural practices, and use of resistant varieties. Pesticides are used only after monitoring indicates they are needed according to established guidelines, and treatments are made with the goal of removing only the target organism. Pest control materials are selected and applied in a manner that minimizes risks to human health, beneficial and non-target organisms, and the environment.

**Intermittent watercourse —** see *Watercourse* definitions.

**Invasive Species —** Organisms (plants, animals, or microbes) that are not native to an environment and, once introduced; establish, quickly reproduce and spread, and cause harm to the environment, economy, or human health. For guidance on decontamination methods and species of concern, see CDFW's invasive species webpage: https://www.wildlife.ca.gov/Conservation/Invasives.

**Lake and Streambed Alteration Agreement —** Fish and Game Code section 1602 requires an entity to notify CDFW prior to commencing any activity that may do one or more of the following:

- Substantially divert or obstruct the natural flow of any river, stream or lake;
- Substantially change or use any material from the bed, channel or bank of any river, stream, or lake; or
- Deposit debris, waste or other materials that could pass into any river, stream or lake.

Any river, stream or lake" includes those that are episodic (they are dry for periods of time) as well as those that are perennial (they flow year round). This includes ephemeral streams, desert washes, and watercourses with a subsurface flow. It may also apply to work undertaken within the flood plain of a body of water.

**Land Disturbance —** Land areas where natural conditions have been modified in a way that may result in an increase in turbidity in water discharged from the site. Disturbed land includes areas where natural plant growth has been removed whether by physical, animal, or chemical means, or natural grade has been modified for any purpose. Land disturbance includes all activities whatsoever associated with developing or modifying land for cannabis cultivation related activities or access. Land disturbance activities include, but are not limited to, construction of roads, buildings, or water storage areas; excavation; grading; and site clearing. Disturbed land includes cultivation areas, storage areas where soil or soil amendments (e.g., potting soil, compost, or biosolids) are located.

**Land Owner —** Any person or entity who owns, in whole or in part, the parcel of land on which cannabis cultivation is occurring or will occur. A Landowner need not be a Cannabis Cultivator.

**Laterals (in the context of irrigation water lines) —** Pipes between the control valve and the sprinkler heads.

**Legacy Conditions —** Sites of historic activity, which may not be related to cannabis cultivation activity, that may discharge sediment or other waste constituents to waters of the state. Legacy conditions are caused or affected by human activity. Implementation of corrective actions can reduce or eliminate the waste discharge.

**Licensed Timber Operators (LTOs) —** Persons who have been licensed under the Forest Practice Act law and are authorized to conduct forest tree cutting and removal operations.

**Local Environmental Health Department —** To identify ones local environmental health department enter your address information into the following website directory: http://cersapps.calepa.ca.gov/public/directory.

**Low Flow Threshold —**The minimum flow in a stream that is considered supportive of the aquatic ecosystem, including water quality and salmonid rearing and migration. The low flow threshold is determined using defined scientific methodology that equates the aquatic ecosystem health with the flow in the stream.

**Mainlines (in the context of irrigation water lines) —** Pipes that run from the water source to the control valves.

**Maximum cumulative diversion rate —** The sum of the rates of diversion of all diversions upstream of a specific location in the watershed.

**Mean, also called average —** The sum of measured values divided by the number of samples.

**Minimum bypass flow —** In the context of a diversion Requirement, it is the minimum instantaneous flow rate of water that must be moving past the point of diversion before water may be diverted.

**Natural monthly streamflows —** Modeled monthly streamflows that are unaffected by land use or water management

**Offset well —** A well drilled at an offset distance from a river or stream that is considered pumping from the underflow of the river or stream

**Permeability —**The property of a porous rock or soil for transmitting a fluid. It measures the relative ease of flow under unequal pressure. See *hydraulic conductivity*.

**Period of record —** The time period for which flow measurements have been recorded. The period of record may be continuous or interrupted by intervals during which no data were collected.

**Perennial stream —** See *Watercourse* definitions.

**Pesticide —** Pesticide is defined as follows:
- Per California Code of Regulations Title 3. Division 6. Section 6000:
  (a) Any substance or mixture of substances that is a pesticide as defined in the Food and Agricultural Code and includes mixtures and dilutions of pesticides;
  (b) As the term is used in Section 12995 of the California Food and Agricultural Code, includes any substance or product that the user intends to be used for the pesticidal poison purposes specified in Sections 12753 and 12758 of the Food and Agricultural Code.
- Per California Food and Agricultural Code section 12753(b), the term "Pesticide" includes any of the following: Any substance, or mixture of substances which is intended to be used for defoliating plants, regulating plant growth, or for preventing, destroying, repelling, or mitigating any pest, as defined in Section 12754.5, which may infest or be detrimental to vegetation, man, animals, or households, or be present in any agricultural or nonagricultural environment whatsoever.
- In laymen's terms: "pesticide" includes: rodenticides, herbicides, insecticides, fungicides, and disinfectants.

**Point of Diversion —** A location at which water is withdrawn from a surface waterbody.

**Pool —** A deeper area of water in a stream channel; usually quiet and often with no visible flow.

**Professional Archeologist —** An Archeologist that is qualified by the Secretary of Interior, Register of Professional Archaeologists, or Society for California Archaeology.

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**Qualified Biologist —** An individual who possesses at a minimum a bachelor's or advanced degree, from an accredited university, with a major in a biological, physical, natural resources science, or a closely related scientific discipline, at least two years of field experience in the biology and natural history of local plant, fish, and wildlife resources present at the project site, and knowledgeable of state and federal laws regarding the protection of sensitive species.

**Qualified Professional —** Means:

1) Individuals licensed in California under the Professional Engineer Act (e.g., Professional Engineer), Geologist and Geophysicist Act (e.g., Professional Geologist and Certified Engineering Geologist), and Professional Land Surveyors' Act (e.g., Professional Land Surveyor)[1],
2) California Registered Professional Forester (RPF), and
3) Qualified Storm Water Pollution Prevention Plan (SWPPP) Practitioner.

**Range of anadromy —** Length of stream reach between the Pacific Ocean and the upper limit of anadromy (see definition of *Anadromy*), where migration, spawning and rearing of salmonids occur.

**Recurrence interval —** The average time between occurrences of streamflows of a given or greater magnitude, sometimes referred to as the return period. The recurrence interval is equal to one divided by the exceedance probability**.**

**Redd —** Spawning areas or nests made by a salmon or trout

**Residual pool depth —** The difference between the depth of a pool at its deepest point and at its outlet.

**Restricted materials —** Restricted materials are defined in California Code of Regulations Title 3 section 6400. Restricted materials include all "restricted use pesticides", as defined in the Federal Insecticide, Fungicide, and Rodenticide Act section 3(d)(1)(C). Information on restricted materials is available at: http://www.cdpr.ca.gov/docs/enforce/compend/vol_3/chap2.pdf

**Riffle —** A shallow area in which water flows rapidly over a rocky or gravelly streambed.

**Riffle crest —** The highest point along the channel thalweg at a riffle.

**Riparian habitat —** Vegetation growing close to a stream, lake, swamp, or spring that is generally critical for wildlife cover, fish food organisms, stream nutrients and large organic debris, and for streambank stability.

[1] See Business and Professions Code sections 6700-6799, 7800-7887, and 8700-8805, respectively.

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**Salmonid —** Of, belonging to, or characteristic of the family Salmonidae, which includes salmon, trout, and whitefish.

**Seep —** See *Spring or seep.*

**Surface Water Diversion Period —** The calendar period during which water may be diverted. See also *Forbearance Period*.

**Sheet flow length —** The length that shallow, low velocity flow travels across a site.

**Site Mitigation —** efforts to mitigate the impacts of Legacy Conditions or cannabis cultivation-related activities on the Cannabis Cultivation Site or its surroundings.

**Site Remediation —** efforts to restore the Cannabis Cultivation Site and its surroundings to its condition before cannabis cultivation activities began, or to restore the cultivation site and its surroundings to its natural condition.

**Slope —** shall be determined across the natural topography (preconstruction) of the disturbed land. Measure the highest and lowest elevations of the disturbed land, then measure the horizontal distance separating the highest and lowest elevations. Determine the slope using the formula below. (Multiple the ratio by 100 to find the percent value.) There may be more than one slope value if the low elevation has higher elevations in different directions. The highest slope value calculated (highest percentage numerically) is the value to be reported.

$$\boldsymbol{Slope} = \frac{\boldsymbol{elevation\ difference}}{\boldsymbol{horizontal\ distance}}\ \boldsymbol{x\ 100}$$

Slope – Value of slope expressed as a percentage.
Elevation difference – Report in feet to an accuracy of one inch or one tenth of a foot.

Horizontal distance – Report in feet to an accuracy of one inch or one tenth of a foot.

**Soil Materials —** Include soil, aggregate (rock, sand, or soil), potting soil, compost, manure, or biosolid.

**Spring or Seep —** Place where water flows out of the ground. A spring or seep may flow the whole year or part of the year. Surface water flow Requirements apply to both natural springs and seeps and springs and seeps that are modified to improve productions such as, installing piping and spring boxes/wells.

**Stabilized Areas —** Consist of areas previously disturbed that have been successfully reclaimed to minimize the increase in sediment or turbidity in water discharged from the site. Areas where vehicles may travel or be parked are not considered stabilized.

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**Substrate —**The material (e.g., sand, gravel, cobbles, boulders, bedrock, and combinations thereof) that forms the bed of a stream.

**Thalweg —** See *channel thalweg***.**

**Timberland —** As defined in Public Resources Code section 4526: Land, other than land owned by the federal government and land designated by the Board of Forestry as experimental forest land, which is available for, and capable of, growing a crop of trees of a commercial species used to produce lumber and other forest products, including Christmas trees. Commercial species, on a district basis, are defined in California Code of Regulations, title 14, section 895.1.

**Tribal lands —** Lands recognized as "Indian country" within the meaning of title 18, United States Code, section 1151.

**Turbidity —** A measure of water clarity: how much the material suspended in water decreases the passage of light through the water. Suspended materials include soil particles (clay, silt, and sand), algae, plankton, and other substances. The turbidity test is reported in Nephelometric Turbidity Units (NTUs).

**Upper limit of anadromy —** The upstream end of the range of anadromous fish that currently are or have been historically present year-round or seasonally, whichever extends the furthest upstream.

**Waterbody —** Any significant accumulation of water, such as: lakes, ponds, rivers, streams, creeks, springs, seeps, artesian wells, wetlands, and canals.

**Watercourse —** A natural or artificial channel through which water flows.

- Perennial watercourse (Class I):
    1. In the absence of diversions, water is flowing for more than nine months during a typical year,
    2. Fish always or seasonally present onsite includes habitat to sustain fish migration and spawning, and /or
    3. Spring or seep: a place where water flows out of the ground. A spring or seep may flow the whole year or part of the year.
- Intermittent watercourse (Class II):
    1. In the absence of diversions, water is flowing for three to nine months during a typical year, or
    2. Water is flowing less than three months during a typical year and the stream supports riparian vegetation.
- Ephemeral watercourse (Class III): In the absence of diversion, water is flowing less than three months during a typical year and the stream does not support riparian vegetation or aquatic life. Ephemeral watercourses typically have water

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flowing for a short duration after precipitation events or snowmelt and show evidence of being capable of sediment transport. Ephemeral watercourses include channels, swales, gullies, rills, and any other drainage features that channelize and transport runoff.

- Other watercourses (Class IV): Class IV watercourses do not support native aquatic species and are man-made, provide established domestic, agricultural, hydroelectric supply, or other beneficial use.

**Watershed —** The land area that drains into a stream. An area of land that contributes runoff to one specific delivery point; large watersheds may be composed of several smaller "subsheds", each of which contributes runoff to different locations that ultimately combine at a common delivery point. Often considered synonymous with a drainage basin or catchment. Watershed (drainage basin) boundaries follow topographic highs. The term watershed is also defined as the divide separating one drainage basin from another.

**Watershed drainage area —** The land area that comprises a watershed.

**Water hauler —** Any person who hauls water in bulk by any means of transportation.

**Waters of the State —** Any surface water or groundwater, including saline waters, within the boundaries of the state (Water Code section 13050(e)). This term includes all waters within the state's boundaries, whether private or public, including waters in both natural and artificial channels. Waters of the state includes waters of the United States.

**Weed free mulch —** A certified weed-free protective covering (e.g. bark chips, straw, etc.) placed on the ground around plants to suppress weed growth, retain soil moisture, or prevent freezing of roots.

**Wetland —** An area is wetland if, under normal circumstances:

1. the area has continuous or recurrent saturation of the upper substrate caused by groundwater, or shallow surface water, or both;
2. the duration of such saturation is sufficient to cause anaerobic conditions in the upper substrate; and
3. the area's vegetation is dominated by hydrophytes or the area lacks vegetation.

**Winter low flow —** A lower magnitude streamflow threshold that inundates riffles and is important to managing several steelhead and salmon life history needs in California streams by: (1) protecting benthic macroinvertebrate habitat in riffles to foster stream productivity, (2) preventing redd desiccation and maintaining hyphoreic subsurface flows, (3) sustaining juvenile salmonid winter rearing habitat, and (4) not impeding smolt out-migration.

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**Winter Period —** Calendar dates from November 15 to April 1, except as noted under special County Rules California Code of Regulations, title 14, sections 925.1, 926.18, 927.1, and 965.5.

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