# Biological Habitat Assessment For Northcoast Highway Solar Project (UPDATED October 24, 2022)

(APN #'s: 204-171-047-000, 204-081-007-000, 204-081-004-000, & 204-081-002-000)

Hydesville 7.5 Minute Quadrangle, Section 19, Township 2 N, Range 1 E

Humboldt, California

# Prepared for

Borrego Solar 55 Technology Dr., Suite 102 Lowell, MA 01851

# Prepared by

Report Prepared by Kristiaan Stuart & Ryan Young
Field Work Performed by Kristiaan Stuart
For
Phoenix Biological Consulting
PO Box 2238
Tehachapi, CA 93581
(949) 887 0859 cell

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# **Executive Summary:**

At the request of Borrego Solar (Borrego), Phoenix Biological Consulting (Phoenix) initiated a biological habitat assessment on March 22, 2020 on the approximately 86.9-acre property which included whole or in part assessor's parcel numbers (APN) 204-171-047-000, 204-081-007-000, 204-081-004-000, & 204-081-002-000, of which on 12.1 acres, Borrego is developing an approximately 2.0-megawatt (MWac) photovoltaic (PV) solar energy generation facility, an access road, and associated power line connections (project). This report represents an update to the aforementioned report conducted in March of 2020. This update includes the results of reconnaissance level botanical and wildlife surveys conducted on October 15, 2022 by biologist Kristiaan Stuart.

The proposed project site is located on an open, cultivated clover field approximately 0.8-mile west of Hydesville, Humboldt County, California, adjacent to and south of state Highway 36 and west of River Bar Road. The survey area consists primarily of active agricultural cropland (white clover and corn), coastal willow shrub and mixed riparian areas. Representative photographs and maps of the site are included in this report.

This updated report was completed following site visits by biologist Kristiaan Stuart on March 22, 2020 and October 15, 2022. The entire survey area was evaluated for potential impacts from the proposed project, including reconnaissance level sensitive plant and animal species as well as potential state and federal waters and wetlands that could be affected by the project.

The conclusions of this report are summarized as follows:

- Due to the surrounding land usage, the areas around the solar array footprint and parcel boundary are considered potential and suitable habitat for nesting birds.
   All potential bird species should be included in a preconstruction nesting bird survey, conducted within 30 days of ground disturbance, if the project occurs during the nesting season.
- Based on the habitat assessment, burrowing owls are not expected to be present within the development area. Nonetheless, a preconstruction survey should include burrowing owl surveys.
- The CNDDB search indicated the presence of 47 special-status plant and wildlife species within nine quadrangle search radius. Seven (7) of the thirty-two (32) special-status plant species and five (5) of the fifteen (15) special status wildlife species have a potential to occur on site due to existing environmental and management conditions. A comprehensive botanical survey of the entire project area will not be required as there is no potential for special status plant species to

- occur in previously cultivated areas (Exhibit 4). However, floristic level botanical surveys in all other native habitat and ruderal areas are required prior to any vegetation clearing or ground disturbing activities.
- Wolverton Gulch located on the eastern survey boundary is known (documented)
  habitat for the coastal cutthroat trout, a state species of special concern (SSC), the
  results of this survey show this species currently occupies Wolveton Gulch. This
  habitat area should be avoided due to environmental constraints associated with
  this sensitive habitat and species.

Recommended mitigation measures based on the results of this habitat assessment are provided at the end of this report.

# **Introduction and Purpose:**

At the request of Borrego Solar (Borrego), Phoenix Biological Consulting (Phoenix) initiated a biological habitat assessment on the approximately 86.9-acre property, Humboldt County assessor's parcel numbers (APN) 204-171-047-000, 204-081-007-000, 204-081-004-000, & 204-081-002-000, of which on 15.3-acres, Borrego is developing an approximately 2.0-megawatt (MWac) photovoltaic (PV) solar energy generation facility and associated power line connections (the Project).

The site is located on open pasture and cropland approximately 0.8 miles west of Hydesville, Humboldt County, California, adjacent to and south of Hwy 36 and west of Goose Haven Road. The site consists primarily of open pasture and cropland. Representative photographs and maps of the site are included in this report.

Per the California Environmental Quality Act (CEQA), the lead agency requires a project proponent to initiate a habitat assessment to identify sensitive biological resources that may have the potential to occur within a site. A habitat assessment report was completed following a site visit by biologist Kristiaan Stuart on March 22<sup>nd</sup>, 2020. The entire site was evaluated for potential impacts from the proposed project, including sensitive plant and animal species as well as potential state and federal waters and wetlands that could be affected by the project. This report is an update to the March 2020 habitat assessment report. Species accounts and CNDDB assessment tables have been updated to include additional species observations and assessments during the October 15, 2022 surveys. Species tables 5 and 6 are inclusive of the results from both the March 2020 and October 2022 surveys.

Several sensitive species that are known to occur within a nine-quadrangle search of the area were identified through the California Natural Diversity Database (CNDDB) literature/database

search. The results of the habitat assessment indicate that portions of the site have potential habitat for nesting birds and fish species.

# **Project Description:**

Borrego Solar is proposing to develop an approximately 2.0-MWac photovoltaic solar energy generation facility and associated power line (project) on approximately 12.1-acres of a 86.9-acre series of parcels, identified as APN: 204-171-047-000, 204-081-007-000, 204-081-004-000, & 204-081-002-000, located near Hydesville, Humboldt County, CA (Exhibit 6).

#### Location:

The site is located on open pasture and cropland approximately 0.8 miles west of Hydesville, Humboldt County, California, adjacent to and south of Hwy 36 and west of Goose Haven Road within the Hydesville, CA USGS 7.5-minute quadrangle topographic map (Exhibit 1). The legal description of the project area is, Township 2 N, Range 1 E, Section 19 NW (Hydesville, CA, USGS 7.5 Minute Quadrangle). The Project's approximate center GPS coordinates are: 40.543145, -124.116441 (WGS 84).

#### Habitat and Land Use:

The parcels are situated at an elevation ranging from 71 feet ABSL in the south, at the southern property line, to 118 feet ABSL (22 to 36 meters ABSL, respectively) near the northern property line at Hwy 36. Two large areas, an active pasture and mustard crop, comprise the majority of the survey area. Currently, the proposed project area is located in the upper pasture area (solar panel layout, APN 204-081-002-000) and extends northward to Hwy 36 (access route, APN's 204-081-004-000, 204-081-007-000 and 204-171-047-000) where it bisects a historic railway (APN 204-081-004-000) and crosses through fallow pastureland.

Currently, two actively managed areas including cultivated corn (*Zea mays*) and cultivated white clover (*Trifolium repens*) crops, are separated by a topographical break (a small cliff) of approximately 23 vertical feet. A fence line at the top of this slope delineates the cultivated white clover area from a lower cultivated corn crop (Exhibit 4). Exhibit 3, an illustration of National Wetland Inventory (NWI) spatial data, shows this topographical break as two separate wetland types: Freshwater Forested/Shrub Wetland to the west and Freshwater Emergent Wetland to the west. However, this data is erroneous. As found during the field survey, this topographical break area is a relic of the upper limits of the Van Duzen River floodplain and does not contain wetland habitat. In the southwest corner of this area is a small and dense stand of willows that could be utilized by passerine and small raptor bird species as nesting and

foraging habitat. The remainder of this area, extending to the east, is mostly dominated by ruderal herbaceous plant species.

The historic railway right of way (APN 204-081-004-000), which separates a corn field near Hwy 36 and the cultivated white clover field (APN 204-081-002-000) is now dominated by a dense willow scrub shrub habitat. Dominant species include coastal willow (*Salix hookeriana*), poison oak (*Toxicodendron diversilobum*), red elderberry (*Sambucus racemosa*) and California blackberry (*Rubus ursinus*), that is utilized by several passerine bird species for hiding, foraging, and breeding habitat. Due to access rights, this area was surveyed externally only.

A blue line stream, known as Wolverton Gulch, is located on the eastern margin of the survey area. This small, low gradient and narrow stream flows from north to south and is dominated by an open canopy of red alder (*Alnus rubra*), coastal willow (*Salix hookeriana*), arroyo willow (*Salix lasiolepis*) and sandbar willow (*Salix exigua*). The narrow riparian corridor is immediately adjacent to a cultivated corn field to the west and dense grassland (fallow hay field) to the east. The stream channel of Wolverton Gulch within the survey area, is dominated by fine substrates such as silt and fine sands. Small gravel areas occur in small riffles as well as a small number of small cobbles in isolated areas along the stream banks. Water depth varies from a few inches at the end of a pool-tail-crest to a few feet in its deepest pool habitats. The margins of the stream are in places dominated by dense patches of aquatic vegetation (*Ludwigia sp.*) and obligate wetland species such as rushes (*Juncus sp.*) and sedges (*Cyperus sp.*).

#### **Field Survey:**

A pedestrian reconnaissance-level survey was conducted by Kristiaan Stuart on March 22, 2020 between the hours of 0930 and 1630 and again on October 15, 2022 between the hours of 0900 and 1330 to evaluate the project site for biological resources, including on-site vegetation communities, potentially jurisdictional waters of the U.S., and to assess the potential for occurrence of special-status plant and wildlife species within the project site. Vegetation communities and other biological resources were noted on an aerial photograph of the project site. Photographs were taken within the project during the reconnaissance-level survey (Exhibit 8, October 2022). All species observed in both surveys within and adjacent to the project site were noted in a field notebook and are included in Tables 5 and 6. Special attention was directed to portions of the survey area that may contain native vegetation, suitable habitat for sensitive plant and wildlife species, and potential waters and wetlands subject to regulatory agency jurisdiction. The undeveloped land surrounding the project was visually surveyed in order to confirm the adjacent vegetation community/land cover types, and account for any potential indirect impacts associated with the project.

# **CNDDB Rarefind Database, IPAC and Literature Review Results:**

A thorough review of the California Natural Diversity Database (CNDDB) and the US Fish and Wildlife Service's Information for Planning and Consultation (IPaC) web-based database was conducted to determine which species occur within an adjoining nine quadrangle area of the site (Tables 1, 2, and 3 of Appendix A). Forty-seven (47) sensitive species and two (2) sensitive habitat types were detected within the search radius. Multiple habitat types fall within the nine-quadrangle search radius: annual/ruderal grassland, willow scrub, pasture, cropland, and mixed riparian woodland. Therefore, several species fall out of range/habitat limits given the specific characteristics of the site (See Tables 1 & 2 for habitat potential for all sensitive species).

Twelve (12) special-status species have the potential to occur in the project's survey area. No sensitive habitat types are known to occur within the project area.

**Table 1: CNDDB Results for Special-status Plant Species** 

Scientific Name Common Name	USFWS	CDFW	CNPS	Life & Habitat Description	Potential to Occur
Abronia umbellata var. breviflora pink sand-verbena			1B.1	Perennial herb. Coastal dune habitat. Bloom period: June-October 0-10m	No potential to occur. No suitable habitat in or near project area.
Cardamine angulata seaside bittercress			2B.1	Perennial herb. Occurs in mesic areas and streambanks in coniferous forest. Blooming period: March-July 25-915m	No potential to occur. No suitable habitat in or near project area.
Carex arcta northern clustered sedge			2B.2	Perennial herb. Occurs in hydric areas in coniferous forest. Blooming period: March-July 60-1400m	No potential to occur. No suitable habitat in or near project area.
Carex leptalea bristle-stalked sedge			2B.2	Perennial herb. Occurs in hydric areas incl. meadows, seeps, marshes and bogs. Bloom period: March-July 0-700m	No potential to occur. No suitable habitat in or near project area.
Carex lyngbyei Lyngbye's sedge			2B.2	Perennial herb. Occurs in hydric areas incl. marshes and swamps. Bloom period: April-August 0-10m	No potential to occur. No suitable habitat in or near project area.

Castilleja ambigua var. humboldtiensis Humboldt Bay owl's-clover			1B.2	Annual herb. Occurs in saline marshes and swamps. Blooming period: April-August 0-3m	No potential to occur. No suitable habitat in or near project area.
Castilleja litoralis Oregon coast paintbrush			2B.2	Perennial herb. Occurs in coastal dune and scrub habitats. Blooming period: June-July 15-100m	No potential to occur. No suitable habitat in or near project area.
Chloropyron maritimum ssp. palustre Point Reyes salty bird's- beak			1B.2	Annual herb. Occurs in coastal saline marshes and swamps. Blooming period: June-Oct. 0-10m	No potential to occur. No suitable habitat in or near project area.
Clarkia amoena ssp. whitneyi Whitney's farewell-to- spring			1B.1	Annual herb. Occurs in coastal bluff and scrub habitats. Blooming period: June-August 10-100m	No potential to occur. No suitable habitat in or near project area.
Coptis laciniata Oregon goldthread			4.2	Perennial herb. Occurs in mesic meadows, seeps and streambanks in coniferous forest.  Blooming period: March-May 0-1000m	No potential to occur. No suitable habitat in or near project area.
Erysimum menziesii Menzies' wallflower	FE	SE	1B.1	Perennial herb. Coastal dune habitat. Bloom period: March-Sept. 0-35m	No potential to occur. No suitable habitat in or near project area.
Erythronium oregonum giant fawn lily			2B.2	Perennial herb. Rocky, serpentine, openings in meadows and seeps of cismontane woodlands. Blooming period: March-June 100-1150m	No potential to occur. No suitable habitat in or near project area.
Erythronium revolutum coast fawn lily			2B.2	Perennial herb. Mesic habitats within streambanks, bogs, fens of broadleaf and north coast coniferous forests. Blooming period: March-July 0-1600m	Low potential to occur.  Marginal habitat may occur in the margins of the agricultural fields and immediate area around Wolverton Gulch.
Fissidens pauperculus minute pocket moss			1B.2	Moss. Mesic conditions in north coast coniferous forest. Blooming period: NA 10-1024m	No potential to occur. No suitable habitat in or near project area.

Gilia capitata ssp. pacifica Pacific gilia			18.2	Annual herb. Occurs in coastal bluff scrub, chaparral, prairie and valley and foothill grassland habitats. Blooming period: April-Aug. 5-1665m	Low potential to occur.  Marginal habitat may occur in the margins of the agricultural fields and immediate area around Wolverton Gulch.
Gilia millefoliata dark-eyed gilia			habitat.		No potential to occur. No suitable habitat in or near project area.
Hesperevax sparsiflora var. brevifolia short-leaved evax			bluff scrub and prairie su		No potential to occur. No suitable habitat in or near project area.
Lathyrus japonicus seaside pea			2B.1	Perennial herb. Coastal dune habitat. Bloom period: May-Aug. 1-30m	No potential to occur. No suitable habitat in or near project area.
Lathyrus palustris marsh pea			2B.2	Perennial herb. Mesic sites in marshes, swamps, lower montane and north coast coniferous forests.  Bloom period: March-Aug. 1-100m	No potential to occur. No suitable habitat in or near project area.
Layia carnosa beach layia	FE	SE	1B.1	Annual herb. Coastal dune and scrub habitat. Bloom period: March-July 0-60m	No potential to occur. No suitable habitat in or near project area.
Lycopodium clavatum running-pine			4.1	Perennial herb. Mesic areas of openings and roadsides of lower montane and north coast coniferous forest and marshes and swamps.  Blooming period: June-Aug. 45-1225m	No potential to occur. No suitable habitat in or near project area.
Mitellastra caulescens leafy-stemmed mitrewort			4.2	Perennial herb. Mesic areas, broadleaf upland forests, lower montane and north coast coniferous forest and marshes and swamps. Blooming period: April-Oct. 5-1700m	No potential to occur. No suitable habitat in or near project area.
<i>Montia howellii</i> Howell's montia			2B.2	Annual herb. Vernally mesic: vernal pool, meadow and seep and north coast coniferous forest habitats. Bloom period: March-May 0-835m	No potential to occur. No suitable habitat in or near project area.

Noccaea fendleri ssp. californica Kneeland Prairie pennycress	FE	 1B.1	Annual herb. Coastal prairie habitat. Bloom period: May-June 760-815m	No potential to occur. No suitable habitat in or near project area. Outside of known elevation range.
Packera bolanderi var. bolanderi seacoast ragwort		 2B.2	Perennial herb. Coastal scrub and north coast coniferous forest. Blooming period: May-July 30-650m	Low potential to occur.  Marginal habitat may occur in the margins of the agricultural fields and immediate area around Wolverton Gulch.
Piperia candida white-flowered rein orchid		 1B.2	Perennial herb. Broadleaf upland forests, lower montane and north coast coniferous forest and marshes and swamps. Blooming period: May-Sept. 30-1310m	No potential to occur. No suitable habitat in or near project area.
Polemonium carneum Oregon polemonium		 2B.2	Perennial herb. Coastal prairie and scrub, and lower montane coniferous forest habitats. Bloom period: April-Sept. 0-1830m	Low potential to occur.  Marginal habitat may occur in the margins of the agricultural fields and immediate area around Wolverton Gulch.
Sidalcea malachroides maple-leaved checkerbloom		 4.2	Perennial herb. Broadleaf upland forest, coastal prairie and scrub, north coast coniferous forest and riparian woodland. Blooming period: April-Aug. 0-730m	Low potential to occur.  Marginal habitat may occur in the margins of the agricultural fields and immediate area around Wolverton Gulch.
Sidalcea malviflora ssp. patula Siskiyou checkerbloom		 1B.2	Perennial herb. Coastal prairie and bluff scrub, north coast coniferous forest. Blooming period: May-Aug. 15-880m	Low potential to occur. Marginal habitat may occur in the margins of the agricultural fields and immediate area around Wolverton Gulch.
Sidalcea oregana ssp. eximia coast checkerbloom		 1B.2	Perennial herb. Meadows and seeps, lower montane and north coast coniferous forest. Blooming period: June-Aug. 5-1340m	Low potential to occur.  Marginal habitat may occur in areas between the upper grazing and lower agricultural fields.
Spergularia canadensis var. occidentalis western sand-spurrey		 2B.1	Annual herb. Coastal saline march and swamp habitat. Bloom period: June-Aug. 0-3m	No potential to occur. No suitable habitat in or near project area. Outside of known elevation range.
Usnea longissima Methuselah's beard lichen		 4.2	Lichen. Broadleaf upland and north coast coniferous forest. Blooming period: NA 50-1460m	No potential to occur. No suitable habitat in or near project area. Outside of known elevation range.

#### **Table Key**

- = No listing
- FE = Listed as Endangered under the Endangered Species Act
- FT = Listed as Threatened under the Endangered Species Act
- FC = Candidate for listing (Threatened or Endangered) under Endangered Species Act
- **FD** = Delisted in accordance with the Endangered Species Act

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- **SE** = Listed as Endangered under the California Endangered Species Act
- ST = Listed as Threatened under the California Endangered Species Act
- **SSC** = Species of Special Concern as identified by CDFW
- FP = Listed as Fully Protected under California FGC
- **SR** = Species identified as Rare by CDFW

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#### CNPS - California Rare Plant Rank (CRPR)

- 1A Presumed Extinct in California
- 1B Rare, Threatened, or Endangered in California and elsewhere
- 2A Plants Presumed Extirpated in California, but common elsewhere
- 2B Rare, Threatened, or Endangered in California, but more common elsewhere
- 3 Need more information (a Review List)
- 4 Plants of Limited Distribution (a Watch List)

#### **CRPR Threat Code Extension**

- .1 Seriously endangered in California (over 80% of occurrences threatened / high degree and immediacy of threat)
- .2 Fairly endangered in California (20-80% occurrences threatened)
- .3 Not very endangered in California (<20% of occurrences threatened)

**Table 2: CNDDB Results for Special-status Wildlife Species** 

Scientific Name	Common Name	USFWS	CDFW	Habitat Potential
Amphibians/Reptiles				
Emys marmorata	western pond turtle		SSC	Marginal habitat is present in and adjacent to Wolverton Gulch. Upland habitat to the west of Wolverton Gulch is absent due to active agricultural practices, marginal upland habitat is present to the east of Wolverton Gulch as a narrow grassland habitat adjacent to River Bar Rd. Wolverton Gulch is presumed to be a perennial stream due to historic reports and observed fish species in the wetted channel. However, the low flow and minimal depth conditions of Wolveton Gulch in the project area does not provide adequate hiding cover for this species. Wolverton Gulch within the project area, if utilized, would likely be limited to a dispersal corridor.
Rana aurora	northern red- legged frog		SSC	Marginal habitat is present in and adjacent to Wolverton Gulch. Wolverton Gulch is a channelized low gradient stream with few vegetated low flow areas adjacent to the channel that could be utilized as breeding habitat.
Rana boylii	foothill yellow- legged frog		SSC	Suitable habitat for this species is absent in or near the project area. Wolverton Gulch is a channelized low gradient stream with a mostly embedded small particle substrate (silt, sand and fine gravel) and is effectively absent of larger cobble sized wetted substrate utilized by the foothill yellow-legged frog for breeding substrate.
Birds		•	•	
Accipiter cooperii	Cooper's hawk		WL	Marginal foraging habitat is present along the willow scrub habitat areas where songbirds are most numerous. Marginal nesting habitat is present but more suitable nesting habitat is plentiful in the project's vicinity.
Accipiter striatus	sharp-shinned hawk		WL	Suitable foraging habitat is present along the willow scrub habitat areas where songbirds are most numerous. Suitable nesting habitat is not present in or near the project area.
Agelaius tricolor	tricolored blackbird		SSC	Suitable habitat for this species is absent in or near the project area. This species is a colonial nester found almost exclusively in bulrush and cattail dominated wetlands.

Athene cuncicularia	Burrowing owl		SSC	There are limited records of this species in Humboldt County. Marginal habitat is present along the project edges and along the berm on site. Since the majority of the site is actively plowed habitat potential is low.
Brachyramphus marmoratus	marbled murrelet	FT	SE	Suitable habitat for this species is absent in or near the project area. This species is an oceanic bird that nests in mature old-growth forest of norther California and southern Oregon. Nest trees will have a minimum diameter at breast height of 36-inches. Nest tree species include Douglas fir and coastal redwoods.
Pandion haliaetus	osprey		WL	Suitable habitat for this species is absent in or near the project area. This species may traverse the project area while taking prey from the Van Duzen or Eel Rivers to potential nesting sites north of the project area.
Riparia riparia	bank swallow		ST	Suitable habitat for this species is absent in or near the project area. A colonial nester found exclusively in riparian cliff habitats along streams, rivers and lakes.
Fish	•			
Oncorhynchus clarkii clarkii	coast cutthroat trout		SSC	Present. Wolverton Gulch is known occupied habitat for the coast cutthroat trout. Several small salmonid fish (≤ 7.5cm) were observed in the stream during the reconnaissance survey.
Spirinchus thaleichthys	longfin smelt	FC	ST/SSC	Suitable habitat for this species is absent in Wolverton Gulch. Closest recorded observation was at the mouth of the Van Duzen River recorded in 1956 (CNDDB).
Mammals	•	•	· ·	
Arborimus pomo	Sonoma tree vole		SSC	Suitable habitat for this species is absent in the project area. Occupies Douglas fir dominated forest habitats.
Corynorhinus townsendii	Townsend's big- eared bat		SCT/ SSC	Suitable habitat for this species is absent in the project area. Requires caves, mines, or manmade structures with little to no disturbance.
Martes caurina humboldtensis	Humboldt marten		SCE/ SSC	Project is outside of this species known current range. Only two occurrences were recorded within the 9-quadrangle CNDDB query and with observation dates of 1913 and 1927.
Pekania pennanti	fisher - West Coast DPS	FPT	SCT/ SSC	Suitable habitat for this species is absent in the project area. Known only to occupy low to mid-elevation coniferous or mixed conifer and hardwood forests. Prefers these habitats with a high degree of seral heterogeneity.

#### **Table Key**

- = No listing
- **FE** = Listed as Endangered under the Endangered Species Act
- FT = Listed as Threatened under the Endangered Species Act
- FC = Candidate for listing (Threatened or Endangered) under Endangered Species Act
- **FD** = Delisted in accordance with the Endangered Species Act
- **FPT** = Federally Proposed Threatened

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- **SE** = Listed as Endangered under the California Endangered Species Act
- **ST** = Listed as Threatened under the California Endangered Species Act
- **SSC** = Species of Special Concern as identified by CDFW
- WL = Watch List
- **FP** = Listed as Fully Protected under California Fish and Game Code
- **SR** = Species identified as Rare by CDFW
- **SCT** = State Candidate Threatened
- **SCE** = State Candidate Endangered

**Table 3: CNDDB Results for Sensitive Habitat Types** 

Sensitive Habitat Type	Habitat Description	Rarity (CA/Global)	Potential to Occur
Northern Coastal Salt	Salt-tolerant herbaceous and woody	G3/S3.2	This habitat type is not
Marsh (52110)*	stemmed species forming moderate		present in the Project
	to dense stands up to 3 feet tall.		area.
	Typically found along protected		
	inland margins of bays, lagoons and		
	estuaries. Soils are hydric and subject		
	to regular tidal inundation by salt		
	water. Representative species may		
	include: salt grass ( <i>Distichlis spicata</i> ),		
	dwarf spikerush (Eleocharis parvula),		
	frankenia ( <i>Frankenia sp.</i> ), dune rush		
	(Juncus lescurii), and glass wort		
	(Salicornia pacifica).		
Upland Douglas Fir Forest	A tall mixed aged forest dominated by	G4/S3.1	This habitat type is not
(82420)*	Douglas fir (Pseudotsuga menziesii).		present in the Project
	Sites are sub-mesic to sub-xeric on		area.
	moderately deep, well drained soils.		
	Range extends from Mendocino		
	County north to British Columbia in		
	elevations up to 6,000 feet. Annual		
	precipitation ranges from 23 to 120		
	inches.		

G-Rank/S-Rank = Global Rank and State Rank as per NatureServe and CDFW's CNDDB RareFind 5.

G1 or S1 - Critically Imperiled Globally or Subnationally (state)

G2 or S2 - Imperiled Globally or Subnationally (state)

G3 or S3 - Vulnerable to extirpation or extinction Globally or Subnationally (state)

G4 or S4 - Apparently secure Globally or Subnationally (state)

G5 or S5 - Secure Globally or Subnationally (state)

<sup>\* -</sup> community codes per Holland (1986) as used in the CNDDB.

# **Target Sensitive Species**

# **Special-status Plants**

The project has the low potential to support 7 different special-status plant species that are known to occupy one of two different vegetation communities: coastal willow scrub and mixed riparian. Table 1 summarizes the potential for occurrence and rationale for each special-status plant species occurring in or near the project, based on the CNDDB database search, the field survey results and expert knowledge of the species themselves.

# **Special-status Wildlife**

The project has the potential to support, either seasonally or year-round, 5 special-status wildlife species. Table 2 summarizes the potential for occurrence and rationale for each special-status wildlife species occurring in the vicinity of the project, based on the CNDDB records search. The section below is a discussion of each potential target species' natural history.

#### **Amphibians**

# Northern red-legged frog

The northern red-legged frog (*Rana aurora*) is a reddish brown medium sized frog with long legs and prominent dorsolateral ridges. The lower abdomen, legs and forearms are red with a speckled white abdomen on its ventral surface. During the non-breeding season, the northern red-legged frog is a habitat generalist and may venture far (>300 m) from standing water (Evelyn and Sweet, 2018). Breeding habitat is more specific with stagnant to low flow water with ample emergent vegetation on the margins of ponds, wetlands, rivers and streams. Seasonal water sources must hold water long enough during the breeding and maturation season for larvae to complete metamorphosis. Breeding season extends from January through March. Maturity, from the time of egg deposition to complete metamorphosis, may take up to 20 weeks. Eggs are laid in dense and sturdy vegetation such as cattails, rush and dense willow stands.

# Reptiles

# Western pond turtle

The western pond turtle (*Emys marmorata*) is a medium sized turtle that is somewhat common throughout most of California in suitable aquatic habitats. This species prefers perennial waters with adequate basking sites that may include mats of floating vegetation, partially submerged logs and boulders and stream banks that allow for quick escape to water. The western pond turtle is omnivorous. Female pond turtle may migrate up to 100 meters from a water source during its breeding season, March through August, to deposit its eggs in an earthen nest.

#### Birds

# Cooper's hawk

The Cooper's hawk (*Accipiter cooperii*) is a medium sized hawk with lighter under parts and darker wings and cape. This species prefers riparian habitats with dense tree stands adjacent to open fields or shrubby habitats that have a higher density of song birds which are selected by the Cooper's hawk as prey. Nesting occurs in deciduous and conifer trees from 10 to 80 feet above ground level. The Cooper's hawk is typically a year round resident but may migrate to lower elevations during winter months and return in the spring. This species breeds March through August.

### Sharp-shinned hawk

The sharp-shinned hawk (*Accipiter striatus*) is a small, long tailed hawk with curved wings and a slight build. Like the Cooper's hawk, the sharp-shinned hawk primarily feeds on smaller birds yet will also prey upon small rodents, and insects and prefers dense forest habitats where it uses ambush tactics from tree to tree to capture prey. The sharp-shinned hawk is a year round resident of north coastal California. Nest are usually found in small stands of conifers near water at 6 to 80 feet above ground level. Breeds from April through August.

# Fish

#### Coast cutthroat trout

The coastal cutthroat trout (*Oncorhynchus clarkii clarkii*) is unique among salmonid species in that it is plastic in its life strategies, taking on amphidromous, anadromous, potadromous and lacustrine behaviors. Their freshwater habitats include gravelly streams, in cool well-oxygenated waters with access to deep pools for hiding cover. Streams with large woody debris and undercut banks are preferred habitats also. Natal streams are typically small and have low velocities with dense overhead canopies and cool summer temperatures. The Wolverton Gulch is a documented natal stream for the coastal cutthroat trout (CDFG 2013).

#### **Sensitive Habitats**

A pedestrian survey was performed to evaluate the current environmental setting of the project area. Weather conditions during the survey were sunny with temperatures of 58.5 degrees Fahrenheit with winds at 0-2 mph.

The project occurs within portions of five vegetation community types: ruderal, pasture, cropland, willow scrub and willow-alder riparian. The active pasture and cropland communities are co-dominant plant communities in the project area. The pasture areas are on the upper terrace of the survey area and north of the cropland. Whereas the cropland, currently planted as a mustard (*Brassica sp.*) crop, is located below the pasture areas on the relict Van Duzen

River floodplain. The willow scrub habitat is located within the historic railway parcel that extends from east to west through the survey area. The dominant species is the coastal willow (Salix hookeriana) with subdominant species including red elderberry (Sambucus racemosa) and blackberry (Rubus sp.). The willow-alder riparian vegetation community follows and comprises the riparian corridor of the Wolverton Gulch and is dominated by red alder (Alnus rubra), arroyo willow (Salix lasiolepis) and sandbar willow (Salix exigua). The ruderal vegetation type occurred in disturbed areas along Hwy 36 and the along the topographic break between the pasture and cropland areas. Of these five different plant communities there were no signs of either the Northern Coastal Salt Marsh or Upland Douglas Fir Forest communities. Riparian communities in California, however, they are a protected habitat type under Section 1600 et seq. of the California Fish and Game Code.

# **Wildlife Corridors**

Wolverton Gulch provides adequate cover and habitat areas within the project area to be utilized as a wildlife corridor for the migration of fish, reptiles, amphibian and mammal species.

# **Proximity to Conservation Areas:**

There is no designated critical habitat within the project area or in the vicinity of the project area. There are no other known conservation areas within the vicinity of the project area.

# **Jurisdictional Drainages:**

The U.S. Army Corps of Engineers (USACE), Regional Water Quality Control Board (RWQCB), and California Department of Fish and Wildlife (CDFW) collectively regulate jurisdictional waters of the U.S. and state. Overton Gulch is a blue line stream that flows from north to south along the eastern margin of the survey area. This natural stream is a tributary of the Van Duzen and Eel Rivers. Overton Gulch is within the jurisdiction sections 401 and 404 of the US Clean Water Act and its channel and riparian area from outer drip line to outer drip line is under the jurisdiction of Section 1600 *et seq.* of the California Fish and Game Code.

#### **Habitat Assessment Results:**

The results of the habitat assessment indicate that the site is situated within two farmed areas i.e. an active pasture and an active mustard crop area. Native but degraded habitats surround these areas to the north and east but based on the present layout plan these areas can largely be avoided.

The habitat assessment determined the potential for rare plants to exist on site within the non-cultivated, native communities and ruderal areas (Exhibit 4). A floristic level botanical survey is

required to determine presence/absence of sensitive plant species, prior to any ground disturbing activities, in the non-cultivated, native communities and ruderal areas found within the project area.

There is some nesting habitat on the site and foraging habitat may exist for passerine and raptor species. All nesting birds are covered under the Migratory Bird Treaty Act (MBTA). All potential bird species should be included in a pre-construction nesting bird survey, conducted within 30 days of ground disturbance, if the project occurs during the spring.

The reconnaissance level survey suggested that perennial waters of the US are located within the project area. A jurisdiction delineation survey has been conducted and will be available with this habitat assessment report.

**Table 4: Survey Recommendations:** 

Below are survey recommendations based on the results of the habitat assessment.

Species	Federal Status	State Status	Survey Requirements	Legal Authority
Nesting Birds	Migratory Bird Treaty Act (MBTA)	CESA, CA FGC	No ground disturbance to occur during nesting season (between February and August) without a clearance survey by a qualified biologist, conducted within 30 days of ground disturbance, to ensure that no nesting birds are impacted.	MBTA, CA FGC, CEQA
<u>Wildlife</u>	FESA	CESA	None	FESA/CESA
<u>Plants</u>	FESA	CESA	A general floristic botanical inventory in non-cultivated, native communities and ruderal areas prior to ground disturbing activities.	FESA/CESA
State and Federally Jurisdictional Waters and Wetlands	Section 401/404 Clean Water Act (CWA)	Porter- Cologne Water Quality Control Act	Jurisdictional delineation	CWA, Porter- Cologne

**Table 5: Mitigation Measures:** 

Mitigation Measures	Survey Description	Requirements
BIO-1	Floristic plant survey is required during the appropriate time of year, typically spring blooming period (April-June) in non-cultivated, native communities and ruderal areas found within the project area.	If the presence of rare plants is detected the project proponent will need to address avoidance measures with the lead agency. These may include avoidance, top soil preservation and/or offsite mitigation.
BIO-2	30 Day Preconstruction survey	If nesting birds are observed, the location of the nest shall be marked with 100 foot offset flagging. The nest shall be monitored bi-weekly until the nest has fledged.

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Rohnerville Airport Alton 70 **Topographic Map: Northcoast Solar Project Survey Area** Legend 2023-0504-NC Project Area

**Exhibit 1: Topographic View** 



**Exhibit 2: Regional View** 

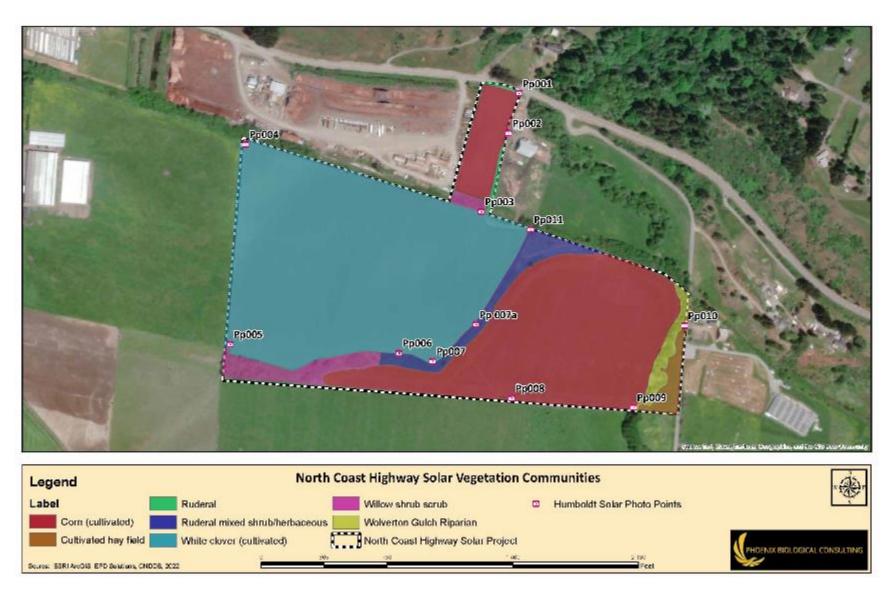
**Delineated Federal & State Waterways** Legend Northcoast Solar Survey Area --- 2023-0504-NC Project Area USFWS National Wetland Inventory Data

Source: ESRI ArcGIS, EPD Solutions March, 2020

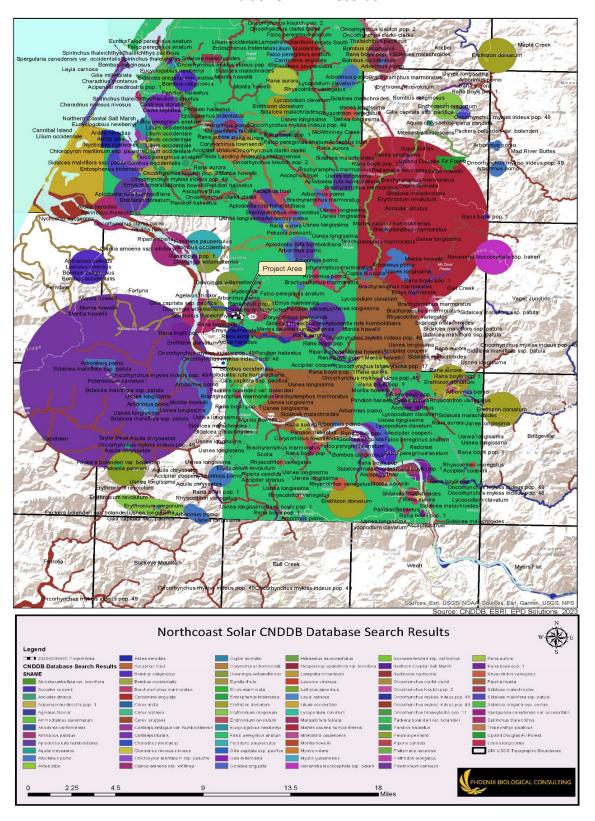
**Exhibit 3: Aerial View – USFWS Drainage Database** 

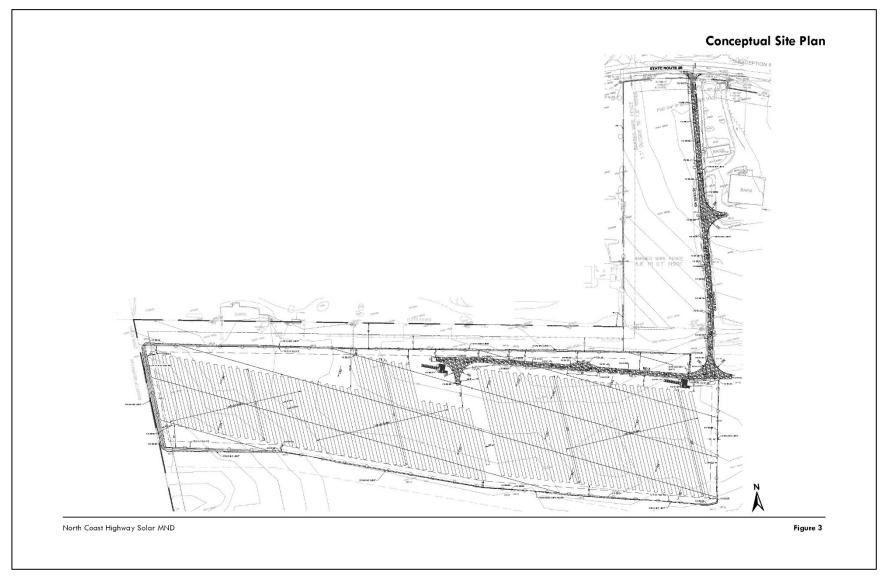
2,025 Feet

**Exhibit 4: Plant Communities** 



**Exhibit 5: CNDDB Records** 





**Exhibit 6: Preliminary Site Plan** 

**Exhibit 7: Site Photos** 



Property entrance. Facing south across Hwy 36.



Photo Point
1 – At
property
entrance
looking
west.



Photo Point
1 - At
property
entrance
looking
south.



Photo Point
1 – At
property
entrance
looking
east. Hwy
36 far left.



Photo Point
2 - View
south of
cultivated
corn field
and access
road.



Photo Point
2 - View
west of
cultivated
corn field.



View south of access road from upper corn field to upper white clover field. Coastal willow, Himalayan blackberry, poison oak and poison hemlock in foreground.



Photo Point
3 - View
west of
cultivated
white
clover field
and fence
line. White
clover,
poison oak,
poison
hemlock
and spike
bentgrass
in view.





**Photo Point** 3 – View east of cultivated white clover field, access road and fence line. White clover, poison hemlock and Himalayan blackberry in view.



Photo Point
4 - View
south of
adjacent
property at
fence line.
Coastal
willow and
poison
hemlock in
view.



Photo Point
4 - View
west of
white
clover field
and
adjacent
property at
fence line.



Photo Point
4 - View
east of
hidden
fence line
and white
clover field.
Coastal
willow and
white
clover in
view.



Photo Point
5 - View
north of
adjacent
property
(left) and
white
clover field.



Photo Point
5 - View
west of
adjacent
property
corner at
fence line.
Poison
hemlock
and
Himalayan
blackberry
in view.



Photo Point
5 - View
southeast
of upper
property
corner.
Coastal
willow and
Himalayan
blackberry
in view.



Photo Point
5 - View
east of
white
clover field
and upper
fence line
(far right).



Photo Point
6 - View
west of
upper
fence line
and white
clover field
(right).



Photo Point
6 - View
south of
fence line,
lower corn
field and
adjacent
property.



Photo Point
6 - View
east of
fence line,
white
clover field
(left), lower
corn field
and
adjacent
property.



Photo Point
7 – View
west of
fence line,
and clover
field (right).



Photo Point
7 - View
north of
fence line,
and clover
field (left).



Photo Point
7a - Access
road from
upper
white
clover field
to lower
corn field.



Photo Point 8 - View west of previous well head site and corn field.



Photo Point
8 - View
east of
southern
fence line,
corn field
and
adjacent
property.



Photo Point
9 - View
east of
Wolverton
Gulch and
access road
to eastern
field.



Photo Point
9 - View
north of
west bank
of
Wolverton
Gulch and
adjacent
corn field.
Red alder
riparian
corridor in
view.



East of
Photo Point
9 - View
north of
east bank
of
Wolverton
Gulch.



East of
Photo Point
9 - View
north of
east
riparian
margin of
Wolverton
Gulch and
adjacent
field.



Photo Point
10 - View
north of
fence line,
River Bar
Rd and
adjacent
property.
Red alder,
Himalayan
blackberry
in view.



Photo Point
10 - View
south of
fence line,
River Bar
Rd,
cultivated
hay field
and
Wolverton
Gulch
riparian
vegetation.



Photo Point
11 - View
south of
fence line,
lower corn
fields (left)
and upper
white
clover field.



Photo Point
11 - View
west of
fence line
and white
clover field.
Coastal
willow and
white
clover in
view.



Photo Point
11 - View
east of
fence line
(left),
ruderal
area and
lower corn
field.

**Table 5: Vertebrates Detected During Site Visit** 

Common Name	Scientific Name							
Amphibians								
Sierran Treefrog	Pseudacris sierra							
Birds								
American Crow	Corvus brachyrhynchos							
American Robin	Turdus migratorius							
Black Phoebe	Sayornis nigricans							
Black-capped Chickadee	Poecile atricapillus							
Bushtit	Psaltriparus minimus							
California Towhee	Melozone crissalis							
Canada goose	Branta canadensis							
Cedar Waxwing	Bombycilla cedrorum							
European Starling	Sturnus vulgaris							
Mourning Dove	Zenaida macroura							
Northern Flicker	Colaptes auratus							
Northern Harrier	Circus hudsonius							
Red-tailed Hawk	Buteo jamaicensis							
Song Sparrow	Melospiza melodia							
Tree Swallow	Tachycineta bicolor							
White-crowned Sparrow	Zonotrichia leucophrys							
Yellow Warbler	Setophaga petechia							
Fish								
Juvenile fish	Unkown							
Mammals								
Botta's Pocket Gopher	Thomomys bottae							
Columbian Black-tailed Deer	Odocoileus hemionus columbianus							
Coyote	Canis latrans							

Table 6: Vascular Plants Detected During Site Visit

Scientific Name	Common Name
Achillea millefolium	Yarrow
Agrostis exarata	Spike bentgrass
Alnus rubra	Red alder
Amaranthus retroflexus	Rough pigweed
Anthriscus caucalis	Bur chervil
Athyrium filix-femina var. cyclosorum	Western lady fern
Avena fatua	Wild oat
Baccharis pilularis	Coyote brush
Brassica rapa	Common mustard
Bromus catharticus	Rescue grass
Bromus diandrus	Ripgut brome
Bromus sitchensis var. carinatus	California brome
Capsella bursa-pastoris	Shepherd's purse
Cardamine oligosperma	Bitter cress
Cerastium glomeratum	Large mouse ears
Cerastium glomeratum	Large mouse ears
Cicuta douglasii	Western water hemlock
Cirsium vulgare	Bull thistle
Conium maculatum	Poison hemlock
Conium maculatum	Poison hemlock
Convolvulus arvensis	Field bindweed
Cortaderia jubata	Andean pampas grass
Cyperus esculentus	Yellow nutgrass
Datura stramonium	Jimsonweed
Daucus carota	Queen Anne's lace
Dipsacus fullonum	Wild teasel
Dryopteris arguta	California wood fern
Echinochloa crus-galli	Barnyard grass
Elymus triticoides	Beardless wild rye
Epilobium brachycarpum	Tall annual willowherb
Epilobium ciliatum	Slender willow herb
Equisetum arvense	Common horsetail
Equisetum hyemale ssp. affine	Giant scouring rush
Erigeron canadensis	Canada horseweed
Erodium cicutarium	Red stemmed filaree

Euphorbia maculata         Spotted spurge           Festuca perennis         Italian rye grass           Galium porrigens var. porrigens         Climbing bedstraw           Geranium molle         Dovefoot geranium           Gnaphalium palustre         Lowland cudweed           Hedera helix         English ivy           Helminthotheca echioides         Bristly ox-tongue           Heuchera micrantha         Alumroot           Juncus bufonius var. bufonius         Toad rush           Juncus effusus ssp. pacificus         Pacific rush           Juncus xiphioides         Iris leaved rush           Kickxia elatine         Fluellin           Lamium amplexicaule         Henbit deadnettle           Lemna minor         Smaller duckweed           Leucanthemum vulgare         Oxeye daisy           Ludwigia peploides         Marsh purslane           Ludwigia peploides         Marsh purslane           Ludwigia peploides         Marsh purslane           Malva parviflora         Cheeseweed mallow           Marcha oregana         Coast man-root           Matricaria discoidea         Pineapple weed           Mentha pulegium         Pennyroyal           Nasturtium officinale         Watercess           Plantago lanceo	Γ	Ta
Galium porrigens var. porrigens         Climbing bedstraw           Geranium molle         Dovefoot geranium           Gnaphalium palustre         Lowland cudweed           Hedera helix         English ivy           Helminthotheca echioides         Bristly ox-tongue           Heuchera micrantha         Alumroot           Juncus bufonius var. bufonius         Toad rush           Juncus effusus ssp. pacificus         Pacific rush           Juncus xiphioides         Iris leaved rush           Kickxia elatine         Fluellin           Lamium amplexicaule         Henbit deadnettle           Leman minor         Smaller duckweed           Leucanthemum vulgare         Oxeye daisy           Ludwigia peploides         Marsh purslane           Ludwigia peploides         Marsh purslane           Ludwigia sp.         Water primrose           Malva parviflora         Cheeseweed mallow           Marah oregana         Coast man-root           Marah oregana         Coast man-root           Matricaria discoidea         Pineapple weed           Mentha pulegium         Pennyroyal           Nasturtium officinale         Watercress           Plantago elongata         Coastal plantain           Plantago elongata	,	
Geranium molleDovefoot geraniumGnaphalium palustreLowland cudweedHedera helixEnglish ivyHelminthotheca echioidesBristly ox-tongueHeuchera micranthaAlumrootJuncus bufonius var. bufoniusToad rushJuncus effusus ssp. pacificusPacific rushJuncus xiphioidesIris leaved rushKickxia elatineFluellinLamium amplexicauleHenbit deadnettleLemna minorSmaller duckweedLeucanthemum vulgareOxeye daisyLudwigia peploidesMarsh purslaneLudwigia sp.Water primroseMalva parvifloraCheeseweed mallowMarah oreganaCoast man-rootMatricaria discoideaPineapple weedMentha pulegiumPennyroyalNasturtium officinaleWatercressPlantago elongataCoastal plantainPlantago lanceolataEnglish plantainPlantago majorCommon plantainPoa annuaAnnual blue grassPoa compressaCanada blue grassPolygonum austiniaeRebecca Austin's knotweedPolystichum munitumWestern swordfernPotamogeton epihydrusCreekgrassPrunus aviumSweet cherryRanuculus aquatilisWhitewater crowfootRanuculus muricatusButtercupRanuculus sativusJointed charlockRosa californicaCalifornia wild roseRubus armeniacusHimalayan blackberryRubus parviflorusThimbleberry	•	
Gnaphalium palustre  Hedera helix  English ivy  Helminthotheca echioides  Heuchera micrantha  Juncus bufonius var. bufonius  Juncus effusus ssp. pacificus  Juncus xiphioides  Kickxia elatine  Lamium amplexicaule  Leucanthemum vulgare  Ludwigia peploides  Marsh purslane  Ludwigia sp.  Water primrose  Malva parviflora  Masturtium officinale  Plantago elongata  Plantago major  Poa annua  Poa annua  Poa yendaya  Polygonum austiniae  Polygonum austiniae  Raphanus sativus  Raphanus sativus  Robe differsile  English rivy  English rivy  English rivy  English rote wordern  Western swordfern  Creekgrass  Prunus avium  Raphanus sativus  Rubus parviflorus  California wild rose  Rubus armeniacus  Rubus armeniacus  Rubus parviflorus  Chomon Dlantain  Pose  Rubus armeniacus  Himalayan blackberry  Rubus parviflorus  Thimbleberry  Thimbleberry  Thimbleberry  Thimbleberry  Thimbleberry		
Hedera helixEnglish ivyHelminthotheca echioidesBristly ox-tongueHeuchera micranthaAlumrootJuncus bufonius var. bufoniusToad rushJuncus effusus ssp. pacificusPacific rushJuncus xiphioidesIris leaved rushKickxia elatineFluellinLamium amplexicauleHenbit deadnettleLemna minorSmaller duckweedLeucanthemum vulgareOxeye daisyLudwigia peploidesMarsh purslaneLudwigia sp.Water primroseMalva parvifloraCheeseweed mallowMarah oreganaCoast man-rootMaricaria discoideaPineapple weedMentha pulegiumPennyroyalNasturtium officinaleWatercressPlantago elongataCoastal plantainPlantago lanceolataEnglish plantainPlantago majorCommon plantainPoa annuaAnnual blue grassPoa compressaCanada blue grassPoa compressaCanada blue grassPolystichum munitumWestern swordfernPotamogeton epihydrusCreekgrassPrunus aviumSweet cherryRanuculus aquatilisWhitewater crowfootRanuculus muricatusButtercupRanuculus muricatusButtercupRaphanus sativusJointed charlockRosa californicaCalifornia wild roseRubus parviflorusThimbleberry	Geranium molle	
Helminthotheca echioides Heuchera micrantha Alumroot Juncus bufonius var. bufonius Juncus effusus ssp. pacificus Pacific rush Juncus xiphioides Iris leaved rush Kickxia elatine Fluellin Lamium amplexicaule Lemna minor Leucanthemum vulgare Ludwigia peploides Marsh purslane Ludwigia sp. Water primrose Malva parviflora Cheeseweed mallow Marah oregana Coast man-root Matricaria discoidea Pineapple weed Mentha pulegium Pennyroyal Nasturtium officinale Plantago elongata Coastal plantain Plantago major Common plantain Poa annua Annual blue grass Poa compressa Polystichum munitum Western swordfern Potamogeton epihydrus Prunus avium Raphanus Sativus Raphanus sativus Rubus parviflorus Phimaleyan blackberry Rubus parviflorus Thimbleberry Rubus parviflorus Thimbleberry Rubus parviflorus Tinab luman Toad rush Toad rush Pacific rush Alumroot Toad rush Vater rush Vater primrose Cheeseweed mallow Coast man-root Water primrose Water primrose Coast man-root Pineapple weed Pineapple weed Pennyroyal Watercress Pennyroyal Watercress Castal plantain Plantago lanceolata English plantain Plantago lanceolata English plantain Plantago major Common plantain Vestern swordfern Potamogeton epihydrus Creekgrass Prunus avium Sweet cherry Ranunculus aquatilis Whitewater crowfoot Ranunculus muricatus Rubus armeniacus Himalayan blackberry Rubus parviflorus Thimbleberry	Gnaphalium palustre	Lowland cudweed
Heuchera micrantha Juncus bufonius var. bufonius Juncus effusus ssp. pacificus Juncus xiphioides Iris leaved rush Fluellin Lamium amplexicaule Lemna minor Leucanthemum vulgare Ludwigia peploides Marsh purslane Ludwigia sp. Malva parviflora Marah oregana Masturtium officinale Plantago elongata Plantago lanceolata Plantago major Poa annua Postyrichum munitum Potamogeton epihydrus Prunus avium Ranunculus aquatilis Raphanus sativus Rabus parviflora Rubus parviflora  Alumroot Pacific rush Iris leaved rush Fluellin Henbit deadnettle Lemna minor Smaller duckweed  Leucanthemum vulgare Oxeye daisy Water primrose Marsh purslane Cheeseweed mallow Cheeseweed mallow Marah oregana Coast man-root Matricaria discoidea Pineapple weed Pennyroyal Nasturtium officinale Watercress Plantago elongata Coastal plantain Plantago lanceolata English plantain Plantago major Common plantain Poa annua Annual blue grass Poa compressa Canada blue grass Polygonum austiniae Rebecca Austin's knotweed Polystichum munitum Western swordfern Vesterrs wordfern Verekgrass Vewet cherry Ranunculus aquatilis Whitewater crowfoot Ranunculus muricatus Buttercup Ranunculus muricatus Raphanus sativus Jointed charlock Rosa californica California wild rose Rubus armeniacus Himalayan blackberry Rubus parviflorus	Hedera helix	English ivy
Juncus bufonius var. bufonius Juncus effusus ssp. pacificus Pacific rush Juncus xiphioides Iris leaved rush Kickxia elatine Lamium amplexicaule Lemna minor Leucanthemum vulgare Ludwigia peploides Ludwigia sp. Water primrose Malva parviflora Marah oregana Marsh purslane Vatercress Plantago elongata Plantago major Poa annua Poa annua Poa compressa Polygonum austiniae Potamogeton epihydrus Prunus avium Ranunculus aquatilis Raphanus sativus Raphanus sativus Raphanus parviflorus Rabus parviflorus Plinis leaved rush Pacific rush Iris leaved rush Piluellin Plauellin Fluellin Fluellin Fluellin Fluellin Fluentago elaisy Uater primrose Water primrose Cast man-root Matricaria discoidea Pineapple weed Pineapple weed Watercress Pennyroyal Watercress Pennyroyal Watercress Pennyroyal Watercress Coastal plantain Plantago elongata English plantain Plantago major Common plantain Poa annua Annual blue grass Poa compressa Canada blue grass Polygonum austiniae Rebecca Austin's knotweed Polystichum munitum Western swordfern Potamogeton epihydrus Creekgrass Prunus avium Sweet cherry Ranunculus aquatilis Whitewater crowfoot Ranunculus muricatus Buttercup Raphanus sativus Annual blue grass Pointed charlock Rosa californica California wild rose Rubus armeniacus Himalayan blackberry Rubus parviflorus Thimbleberry	Helminthotheca echioides	Bristly ox-tongue
Juncus effusus ssp. pacificus  Juncus xiphioides  Iris leaved rush  Fluellin  Lamium amplexicaule  Lemna minor  Leucanthemum vulgare  Ludwigia peploides  Marsh purslane  Ludwigia sp.  Water primrose  Malva parviflora  Marsh oregana  Coast man-root  Matricaria discoidea  Mentha pulegium  Pennyroyal  Nasturtium officinale  Plantago elongata  Plantago lanceolata  Plantago major  Poa annua  Annual blue grass  Polygonum austiniae  Polystichum munitum  Potamogeton epihydrus  Prunus avium  Raphanus sativus  Raphanus sativus  Rubus armeniacus  Rubus parviflorus  Fluellin  Fluellin  Fluellin  Fluellin  Coxey daisy  Marsh purslane  Cheeseweed mallow  Marsh purslane  Coast man-root  Water cress  Pineapple weed  Pineapple weed  Ponnyroyal  Watercress  Coastal plantain  Pennyroyal  Watercress  Coastal plantain  English plantain  Polantago lanceolata  English plantain  Poa annua  Annual blue grass  Canada blue grass  Polygonum austiniae  Rebecca Austin's knotweed  Polystichum munitum  Western swordfern  Creekgrass  Prunus avium  Sweet cherry  Ranunculus aquatilis  Whitewater crowfoot  Ranunculus muricatus  Buttercup  Raphanus sativus  Jointed charlock  California wild rose  Rubus armeniacus  Himalayan blackberry  Rubus parviflorus  Thimbleberry	Heuchera micrantha	Alumroot
Juncus xiphioidesIris leaved rushKickxia elatineFluellinLamium amplexicauleHenbit deadnettleLemna minorSmaller duckweedLeucanthemum vulgareOxeye daisyLudwigia peploidesMarsh purslaneLudwigia sp.Water primroseMalva parvifloraCheeseweed mallowMarah oreganaCoast man-rootMatricaria discoideaPineapple weedMentha pulegiumPennyroyalNasturtium officinaleWatercressPlantago elongataCoastal plantainPlantago lanceolataEnglish plantainPlantago majorCommon plantainPoa annuaAnnual blue grassPoa compressaCanada blue grassPolygonum austiniaeRebecca Austin's knotweedPolystichum munitumWestern swordfernPotamogeton epihydrusCreekgrassPrunus aviumSweet cherryRanunculus aquatilisWhitewater crowfootRanunculus muricatusButtercupRanunculus muricatusButtercupRaphanus sativusJointed charlockRosa californicaCalifornia wild roseRubus armeniacusHimalayan blackberryRubus parviflorusThimbleberry	Juncus bufonius var. bufonius	Toad rush
Kickxia elatine  Lamium amplexicaule  Lemna minor  Smaller duckweed  Leucanthemum vulgare  Ludwigia peploides  Ludwigia sp.  Marsh purslane  Ludwigia sp.  Mater primrose  Malva parviflora  Cheeseweed mallow  Marah oregana  Coast man-root  Matricaria discoidea  Pineapple weed  Mentha pulegium  Pennyroyal  Nasturtium officinale  Vatercress  Plantago elongata  Coastal plantain  Plantago lanceolata  English plantain  Plantago major  Common plantain  Poa annua  Annual blue grass  Poa compressa  Canada blue grass  Polygonum austiniae  Potamogeton epihydrus  Prunus avium  Sweet cherry  Ranunculus aquatilis  Ranunculus muricatus  Ranunculus occidentalis  Raphanus sativus  Robect Californica  California wild rose  Rubus armeniacus  Himalayan blackberry  Rubus parviflorus	Juncus effusus ssp. pacificus	Pacific rush
Lamium amplexicauleHenbit deadnettleLemna minorSmaller duckweedLeucanthemum vulgareOxeye daisyLudwigia peploidesMarsh purslaneLudwigia sp.Water primroseMalva parvifloraCheeseweed mallowMarah oreganaCoast man-rootMatricaria discoideaPineapple weedMentha pulegiumPennyroyalNasturtium officinaleWatercressPlantago elongataCoastal plantainPlantago lanceolataEnglish plantainPlantago majorCommon plantainPoa annuaAnnual blue grassPoa compressaCanada blue grassPolysonum austiniaeRebecca Austin's knotweedPolystichum munitumWestern swordfernPotamogeton epihydrusCreekgrassPrunus aviumSweet cherryRanunculus aquatilisWhitewater crowfootRanunculus muricatusButtercupRanunculus occidentalisWestern buttercupRaphanus sativusJointed charlockRosa californicaCalifornia wild roseRubus armeniacusHimalayan blackberryRubus parviflorusThimbleberry	Juncus xiphioides	Iris leaved rush
Lemna minorSmaller duckweedLeucanthemum vulgareOxeye daisyLudwigia peploidesMarsh purslaneLudwigia sp.Water primroseMalva parvifloraCheeseweed mallowMarah oreganaCoast man-rootMatricaria discoideaPineapple weedMentha pulegiumPennyroyalNasturtium officinaleWatercressPlantago elongataCoastal plantainPlantago lanceolataEnglish plantainPlantago majorCommon plantainPoa annuaAnnual blue grassPoa compressaCanada blue grassPolygonum austiniaeRebecca Austin's knotweedPolystichum munitumWestern swordfernPotamogeton epihydrusCreekgrassPrunus aviumSweet cherryRanunculus aquatilisWhitewater crowfootRanunculus muricatusButtercupRanunculus occidentalisWestern buttercupRaphanus sativusJointed charlockRosa californicaCalifornia wild roseRubus armeniacusHimalayan blackberryRubus parviflorusThimbleberry	Kickxia elatine	Fluellin
Leucanthemum vulgareOxeye daisyLudwigia peploidesMarsh purslaneLudwigia sp.Water primroseMalva parvifloraCheeseweed mallowMarah oreganaCoast man-rootMatricaria discoideaPineapple weedMentha pulegiumPennyroyalNasturtium officinaleWatercressPlantago elongataCoastal plantainPlantago lanceolataEnglish plantainPlantago majorCommon plantainPoa annuaAnnual blue grassPoa compressaCanada blue grassPolygonum austiniaeRebecca Austin's knotweedPolystichum munitumWestern swordfernPotamogeton epihydrusCreekgrassPrunus aviumSweet cherryRanunculus aquatilisWhitewater crowfootRanunculus muricatusButtercupRanunculus occidentalisWestern buttercupRaphanus sativusJointed charlockRosa californicaCalifornia wild roseRubus armeniacusHimalayan blackberryRubus parviflorusThimbleberry	Lamium amplexicaule	Henbit deadnettle
Ludwigia peploidesMarsh purslaneLudwigia sp.Water primroseMalva parvifloraCheeseweed mallowMarah oreganaCoast man-rootMatricaria discoideaPineapple weedMentha pulegiumPennyroyalNasturtium officinaleWatercressPlantago elongataCoastal plantainPlantago lanceolataEnglish plantainPlantago majorCommon plantainPoa annuaAnnual blue grassPoa compressaCanada blue grassPolygonum austiniaeRebecca Austin's knotweedPolystichum munitumWestern swordfernPotamogeton epihydrusCreekgrassPrunus aviumSweet cherryRanunculus aquatilisWhitewater crowfootRanunculus muricatusButtercupRanunculus occidentalisWestern buttercupRaphanus sativusJointed charlockRosa californicaCalifornia wild roseRubus armeniacusHimalayan blackberryRubus parviflorusThimbleberry	Lemna minor	Smaller duckweed
Ludwigia sp. Water primrose  Malva parviflora Cheeseweed mallow  Marah oregana Coast man-root  Matricaria discoidea Pineapple weed  Mentha pulegium Pennyroyal  Nasturtium officinale Watercress  Plantago elongata Coastal plantain  Plantago lanceolata English plantain  Plantago major Common plantain  Poa annua Annual blue grass  Poa compressa Canada blue grass  Polygonum austiniae Rebecca Austin's knotweed  Polystichum munitum Western swordfern  Potamogeton epihydrus Creekgrass  Prunus avium Sweet cherry  Ranunculus aquatilis Whitewater crowfoot  Ranunculus muricatus Buttercup  Ranunculus occidentalis Western buttercup  Raphanus sativus  Rosa californica California wild rose  Rubus parviflorus Thimbleberry  Thimbleberry  Thimbleberry	Leucanthemum vulgare	Oxeye daisy
Malva parvifloraCheeseweed mallowMarah oreganaCoast man-rootMatricaria discoideaPineapple weedMentha pulegiumPennyroyalNasturtium officinaleWatercressPlantago elongataCoastal plantainPlantago lanceolataEnglish plantainPlantago majorCommon plantainPoa annuaAnnual blue grassPoa compressaCanada blue grassPolygonum austiniaeRebecca Austin's knotweedPolystichum munitumWestern swordfernPotamogeton epihydrusCreekgrassPrunus aviumSweet cherryRanunculus aquatilisWhitewater crowfootRanunculus muricatusButtercupRanunculus occidentalisWestern buttercupRaphanus sativusJointed charlockRosa californicaCalifornia wild roseRubus armeniacusHimalayan blackberryRubus parviflorusThimbleberry	Ludwigia peploides	Marsh purslane
Marah oreganaCoast man-rootMatricaria discoideaPineapple weedMentha pulegiumPennyroyalNasturtium officinaleWatercressPlantago elongataCoastal plantainPlantago lanceolataEnglish plantainPlantago majorCommon plantainPoa annuaAnnual blue grassPoa compressaCanada blue grassPolygonum austiniaeRebecca Austin's knotweedPolystichum munitumWestern swordfernPotamogeton epihydrusCreekgrassPrunus aviumSweet cherryRanunculus aquatilisWhitewater crowfootRanunculus muricatusButtercupRanunculus occidentalisWestern buttercupRaphanus sativusJointed charlockRosa californicaCalifornia wild roseRubus armeniacusHimalayan blackberryRubus parviflorusThimbleberry	Ludwigia sp.	Water primrose
Matricaria discoideaPineapple weedMentha pulegiumPennyroyalNasturtium officinaleWatercressPlantago elongataCoastal plantainPlantago lanceolataEnglish plantainPlantago majorCommon plantainPoa annuaAnnual blue grassPoa compressaCanada blue grassPolygonum austiniaeRebecca Austin's knotweedPolystichum munitumWestern swordfernPotamogeton epihydrusCreekgrassPrunus aviumSweet cherryRanunculus aquatilisWhitewater crowfootRanunculus muricatusButtercupRanunculus occidentalisWestern buttercupRaphanus sativusJointed charlockRosa californicaCalifornia wild roseRubus armeniacusHimalayan blackberryRubus parviflorusThimbleberry	Malva parviflora	Cheeseweed mallow
Mentha pulegiumPennyroyalNasturtium officinaleWatercressPlantago elongataCoastal plantainPlantago lanceolataEnglish plantainPlantago majorCommon plantainPoa annuaAnnual blue grassPoa compressaCanada blue grassPolygonum austiniaeRebecca Austin's knotweedPolystichum munitumWestern swordfernPotamogeton epihydrusCreekgrassPrunus aviumSweet cherryRanunculus aquatilisWhitewater crowfootRanunculus muricatusButtercupRanunculus occidentalisWestern buttercupRaphanus sativusJointed charlockRosa californicaCalifornia wild roseRubus armeniacusHimalayan blackberryRubus parviflorusThimbleberry	Marah oregana	Coast man-root
Nasturtium officinaleWatercressPlantago elongataCoastal plantainPlantago lanceolataEnglish plantainPlantago majorCommon plantainPoa annuaAnnual blue grassPoa compressaCanada blue grassPolygonum austiniaeRebecca Austin's knotweedPolystichum munitumWestern swordfernPotamogeton epihydrusCreekgrassPrunus aviumSweet cherryRanunculus aquatilisWhitewater crowfootRanunculus muricatusButtercupRanunculus occidentalisWestern buttercupRaphanus sativusJointed charlockRosa californicaCalifornia wild roseRubus armeniacusHimalayan blackberryRubus parviflorusThimbleberry	Matricaria discoidea	Pineapple weed
Plantago elongataCoastal plantainPlantago lanceolataEnglish plantainPlantago majorCommon plantainPoa annuaAnnual blue grassPoa compressaCanada blue grassPolygonum austiniaeRebecca Austin's knotweedPolystichum munitumWestern swordfernPotamogeton epihydrusCreekgrassPrunus aviumSweet cherryRanunculus aquatilisWhitewater crowfootRanunculus muricatusButtercupRanunculus occidentalisWestern buttercupRaphanus sativusJointed charlockRosa californicaCalifornia wild roseRubus armeniacusHimalayan blackberryRubus parviflorusThimbleberry	Mentha pulegium	Pennyroyal
Plantago lanceolataEnglish plantainPlantago majorCommon plantainPoa annuaAnnual blue grassPoa compressaCanada blue grassPolygonum austiniaeRebecca Austin's knotweedPolystichum munitumWestern swordfernPotamogeton epihydrusCreekgrassPrunus aviumSweet cherryRanunculus aquatilisWhitewater crowfootRanunculus muricatusButtercupRanunculus occidentalisWestern buttercupRaphanus sativusJointed charlockRosa californicaCalifornia wild roseRubus armeniacusHimalayan blackberryRubus parviflorusThimbleberry	Nasturtium officinale	Watercress
Plantago majorCommon plantainPoa annuaAnnual blue grassPoa compressaCanada blue grassPolygonum austiniaeRebecca Austin's knotweedPolystichum munitumWestern swordfernPotamogeton epihydrusCreekgrassPrunus aviumSweet cherryRanunculus aquatilisWhitewater crowfootRanunculus muricatusButtercupRanunculus occidentalisWestern buttercupRaphanus sativusJointed charlockRosa californicaCalifornia wild roseRubus armeniacusHimalayan blackberryRubus parviflorusThimbleberry	Plantago elongata	Coastal plantain
Poa annuaAnnual blue grassPoa compressaCanada blue grassPolygonum austiniaeRebecca Austin's knotweedPolystichum munitumWestern swordfernPotamogeton epihydrusCreekgrassPrunus aviumSweet cherryRanunculus aquatilisWhitewater crowfootRanunculus muricatusButtercupRanunculus occidentalisWestern buttercupRaphanus sativusJointed charlockRosa californicaCalifornia wild roseRubus armeniacusHimalayan blackberryRubus parviflorusThimbleberry	Plantago lanceolata	English plantain
Poa compressaCanada blue grassPolygonum austiniaeRebecca Austin's knotweedPolystichum munitumWestern swordfernPotamogeton epihydrusCreekgrassPrunus aviumSweet cherryRanunculus aquatilisWhitewater crowfootRanunculus muricatusButtercupRanunculus occidentalisWestern buttercupRaphanus sativusJointed charlockRosa californicaCalifornia wild roseRubus armeniacusHimalayan blackberryRubus parviflorusThimbleberry	Plantago major	Common plantain
Polygonum austiniaeRebecca Austin's knotweedPolystichum munitumWestern swordfernPotamogeton epihydrusCreekgrassPrunus aviumSweet cherryRanunculus aquatilisWhitewater crowfootRanunculus muricatusButtercupRanunculus occidentalisWestern buttercupRaphanus sativusJointed charlockRosa californicaCalifornia wild roseRubus armeniacusHimalayan blackberryRubus parviflorusThimbleberry	Poa annua	Annual blue grass
Polystichum munitum  Potamogeton epihydrus  Prunus avium  Ranunculus aquatilis  Ranunculus muricatus  Ranunculus occidentalis  Raphanus sativus  Rosa californica  Rubus armeniacus  Rubus parviflorus  Western swordfern  Creekgrass  Whitewater crowfoot  Buttercup  Western buttercup  California wild rose  Himalayan blackberry  Thimbleberry	Poa compressa	Canada blue grass
Potamogeton epihydrus  Prunus avium  Sweet cherry  Ranunculus aquatilis  Ranunculus muricatus  Ranunculus occidentalis  Raphanus sativus  Rosa californica  Rubus armeniacus  Rubus parviflorus  Creekgrass  Sweet cherry  Whitewater crowfoot  Buttercup  Western buttercup  California wild rose  Himalayan blackberry  Thimbleberry	Polygonum austiniae	Rebecca Austin's knotweed
Prunus avium  Ranunculus aquatilis  Ranunculus muricatus  Ranunculus occidentalis  Raphanus sativus  Rosa californica  Rubus armeniacus  Rubus parviflorus  Sweet cherry  Whitewater crowfoot  Western buttercup  Western buttercup  California wild rose  Himalayan blackberry  Thimbleberry	Polystichum munitum	Western swordfern
Ranunculus aquatilis Ranunculus muricatus Buttercup Ranunculus occidentalis Western buttercup Raphanus sativus Jointed charlock Rosa californica California wild rose Rubus armeniacus Himalayan blackberry Rubus parviflorus Thimbleberry	Potamogeton epihydrus	Creekgrass
Ranunculus muricatus  Ranunculus occidentalis  Raphanus sativus  Rosa californica  Rubus armeniacus  Rubus parviflorus  Buttercup  Western buttercup  California wild rose  Himalayan blackberry  Thimbleberry	Prunus avium	Sweet cherry
Ranunculus occidentalis  Raphanus sativus  Rosa californica  Rubus armeniacus  Rubus parviflorus  Western buttercup  Jointed charlock  California wild rose  Himalayan blackberry  Thimbleberry	Ranunculus aquatilis	Whitewater crowfoot
Raphanus sativus  Rosa californica  California wild rose  Rubus armeniacus  Himalayan blackberry  Rubus parviflorus  Thimbleberry	Ranunculus muricatus	Buttercup
Rosa californicaCalifornia wild roseRubus armeniacusHimalayan blackberryRubus parviflorusThimbleberry	Ranunculus occidentalis	Western buttercup
Rubus armeniacusHimalayan blackberryRubus parviflorusThimbleberry	Raphanus sativus	Jointed charlock
Rubus parviflorus Thimbleberry	Rosa californica	California wild rose
	Rubus armeniacus	Himalayan blackberry
Ruhus ursinus California blackherry	Rubus parviflorus	Thimbleberry
- Camorina blackberry	Rubus ursinus	California blackberry

	7
Rumex acetosella	Common sheep sorrel
Rumex crispus	Curly dock
Salix exigua	Sandbar willow
Salix hookeriana	Coastal willow
Salix lasiolepis	Arroyo willow
Sambucus racemosa var. racemosa	Pacific red elderberry
Silybum marianum	Milk thistle
Solanum americanum	White nightshade
Stachys ajugoides	Hedge nettle
Stachys mexicana	Mexican Hedge-nettle
Taraxacum officinale ssp. officinale	Common dandelion
Toxicodendron diversilobum	Poison oak
Trifolium dubium	Shamrock clover
Trifolium hirtum	Rose clover
Trifolium repens	White clover
Umbellularia californica	California bay
Urtica dioica	Stinging nettle
Veronica persica	Bird's eye speedwell
Vicia sativa	Spring vetch
Xanthium spinosum	Spiny cocklebur
Xanthium strumarium	Rough cockleburr
Zea mays	Cultivated corn

**Appendix A: CNDDB Results** 

Appendix A: CNDDB Results									
		Occur		Fede		Glo	Sta	_	CDF
0.1		rence		ral		bal	te	Rare	W
Scientific	Common	Numb	Key Quad	Stat	State	Ran	Ra	Plant	Stat
Name	Name	er	Name	us	Status	k	nk	Rank	us
Abronia						G4			
umbellata var.	pink sand-		Fields	Non		G5			
breviflora	verbena	64	Landing	е	None	T2	S2	1B.1	
Abronia						G4			
umbellata var.	pink sand-		Fields	Non		G5			
breviflora	verbena	38	Landing	е	None	T2	S2	1B.1	
Abronia						G4			
umbellata var.	pink sand-		Fields	Non		G5			
breviflora	verbena	16	Landing	е	None	T2	S2	1B.1	
Accipiter				Non					
cooperii	Cooper's hawk	80	Owl Creek	е	None	G5	S4		WL
Accipiter				Non					
cooperii	Cooper's hawk	83	Taylor Peak	е	None	G5	S4		WL
Accipiter				Non					
cooperii	Cooper's hawk	76	Redcrest	е	None	G5	S4		WL
Accipiter				Non					
cooperii	Cooper's hawk	74	Hydesville	е	None	G5	S4		WL
Accipiter				Non					
cooperii	Cooper's hawk	79	Redcrest	e	None	G5	S4		WL
Accipiter				Non					
cooperii	Cooper's hawk	77	Redcrest	e	None	G5	<b>S4</b>		WL
Accipiter	sharp-shinned			Non					
striatus	hawk	16	Hydesville	e	None	G5	<b>S4</b>		WL
Accipiter	sharp-shinned			Non					
striatus	hawk	17	laqua Buttes	e	None	G5	<b>S4</b>		WL
Accipiter	sharp-shinned		Fields	Non					
striatus	hawk	18	Landing	е	None	G5	<b>S4</b>		WL
Accipiter	sharp-shinned		Fields	Non					
striatus	hawk	19	Landing	е	None	G5	<b>S4</b>		WL
Accipiter	sharp-shinned		-	Non					
striatus	hawk	21	Scotia	e	None	G5	<b>S4</b>		WL
Accipiter	sharp-shinned			Non					
striatus	hawk	20	Scotia	e	None	G5	<b>S4</b>		WL
Accipiter	sharp-shinned			Non					
striatus	hawk	15	Redcrest	e	None	G5	S4		WL
Accipiter	sharp-shinned			Non					
striatus	hawk	8	Scotia	е	None	G5	<b>S</b> 4		WL
Accipiter	sharp-shinned			Non		<u> </u>			
striatus	hawk	7	laqua Buttes	е	None	G5	<b>S</b> 4		WL
Accipiter	sharp-shinned		, , ,,,,,,,,	Non			-		
striatus	hawk	6	laqua Buttes	е	None	G5	<b>S</b> 4		WL
							<u> </u>		

Medirostris   green sturgeon   pop. 1	Acipenser				Thre				
Dop. 1	•	green sturgeon					G2		
Agelaius tricolored tricolor blackbird         tricolored tricolored blackbird         247         Fortuna e ned G2         SSZ         SSC           Ammodramus grasshopper savannarum         sparsow         26         Fortuna e Non Savannarum         Non Sayarow         26         Fortuna e Non Sayarow         63         SSZ           Andodorta California californiensis floater         4         Landing e Non Sayarow         Non Sayarow         9         Non Sayarow         Non Sayaro		-	13	Eureka		None		S1	
Tricolor   blackbird   247   Fortuna   e   ned   G2   S2   SSC						Threate	G1		
savannarum         Sparrow         26         Fortuna         e         None         G5         S3         SSC           Anodonta         California         Fields         Non         G3         S2           Californiensis         floater         4         Landing         e         None         Q         ?           Antrozous         Borname         Non         Non         TN         SSC           Aplodontia         Humboldt         G5         SSC         SSC           Aplodontia         Humboldt         G5         RR           Aplodontia         Humboldt         G5         RR           Aplodontia         Humboldt         G5         RR           rufa         mountain         McWhinney         Non         TN         SN           humboldtiana         beaver         9         Landing         e         None         R         R           Aplodontia         Humboldt         G5         G5         G5         G5         G5         G5           rufa         mountain         McWhinney         Non         TN         SN         None         R         R         R         Aplodontia         Humboldt         G5 <td>-</td> <td>blackbird</td> <td>247</td> <td>Fortuna</td> <td>e</td> <td>ned</td> <td>G2</td> <td>S2</td> <td>SSC</td>	-	blackbird	247	Fortuna	e	ned	G2	S2	SSC
Anodonta   California   California   Californiensis   Floater   4   Landing   e   None   Q   ?	Ammodramus	grasshopper			Non				
Californiensis   Floater   4	savannarum	sparrow	26	Fortuna	е	None	G5	S3	SSC
Antrozous	Anodonta	California		Fields	Non		G3	S2	
pallidus         pallid bat         148         Ferndale         e         None         G4         S3         SSC           Aplodontia         Humboldt         mountain         Non         TN         SN           humboldtiana         beaver         5         Scotia         e         None         R         R           Aplodontia         Humboldt         McWhinney         Non         TN         SN         None         R         R           Aplodontia         Humboldt         G5         G6	californiensis	floater	4	Landing	е	None	Q	?	
Aplodontia         Humboldt         Non         TN         SN           humboldtiana         beaver         5         Scotia         e         Non         R         R           Aplodontia         Humboldt         G5         G5         G5         G5         G5         G5           rufa         mountain         McWhinney         Non         TN         SN         SN         Non         Non         R         R         R         A         Aplodontia         Humboldt         G5         G6         G5         G6         G6         G6         G6         G6					Non				
rufa humboldtiana         mountain beaver         5         Scotia         e         Non         TN         SN           Aplodontia rufa         Humboldt mountain         McWhinney         Non         TN         SN           Aplodontia rufa         Humboldt mountain         Fields         Non         R         R           Aplodontia rufa         Humboldt mountain         Fields         Non         TN         SN           Aplodontia rufa         Humboldt mountain         McWhinney         Non         TN         SN           Aplodontia rufa         Humboldt mountain         McWhinney         Non         TN         SN           Aplodontia rufa         Humboldt mountain         McWhinney         Non         TN         SN           Aplodontia rufa         Humboldt mountain         G5         G5           rufa         mountain         Non         TN         SN           humboldtiana         beaver         6         Hydesville         e         None         R         R           Aplodontia rufa         Humboldt         G5         G5 <t< td=""><td></td><td>· ·</td><td>148</td><td>Ferndale</td><td>е</td><td>None</td><td></td><td>S3</td><td>SSC</td></t<>		· ·	148	Ferndale	е	None		S3	SSC
Numboldtiana   Deaver   S   Scotia   E   None   R   R   R	•								
Aplodontia			_						
rufa         mountain         McWhinney         Non         TN         SN           humboldtiana         beaver         8         Creek         e         None         R         R           Aplodontia         Humboldt         Fields         Non         TN         SN           humboldtiana         beaver         9         Landing         e         None         R         R           Aplodontia         Humboldt         G5         G6         G6 <td></td> <td></td> <td>5</td> <td>Scotia</td> <td>е</td> <td>None</td> <td></td> <td>R</td> <td></td>			5	Scotia	е	None		R	
humboldtiana         beaver         8         Creek         e         None         R         R           Aplodontia         Humboldt         Fields         Non         TN         SN           humboldtiana         beaver         9         Landing         e         None         R         R           Aplodontia         Humboldt         G5         TN         SN         SN         None         TN         SN           humboldtiana         beaver         7         Creek         e         None         R         R           Aplodontia         Humboldt         TN         SN         None         TN         SN           humboldtiana         beaver         6         Hydesville         e         None         R         R           Aplodontia         Humboldt         TN         SN         TN         SN         None         TN         SN           humboldtiana         beaver         6         Hydesville         e         None         R         R         R           Aquila         None         TN         SN         FP;         Chrysaetos         golden eagle         130         Taylor Peak         e         None         G5<	•			N / a \ A / la :	Nisa			CNI	
Aplodontia         Humboldt         Fields         Non         TN         SN           Aplodontia         Humboldt         GS         TN         SN           Aplodontia         Humboldt         GS         TN         SN           In Imboldtiana         Humboldt         GS         TN         SN           In Imboldtiana         Humboldt         GS         TN         SN           Aplodontia         Humboldt         GS         GS         TN         SN           Aplodontia         Humboldt         GS         TN         SN         Non         TN         SN           Aplodontia         Humboldt         GS         GS         TN         SN         Non         TN         SN           Aplodontia         Humboldt         GS         GS         TN         SN         Non         FP;         CN         TN         SN         Non         FP;         CN         FP;         CN         FP;         CN         S3         WL         WL         AQuila         Non         FP;         CN			0	•		Nama			
rufa humboldtiana         mountain beaver         9 Landing         e None         R R         R           Aplodontia rufa         Humboldt mountain         McWhinney         Non         TN SN			8	Creek	е	none		К	
humboldtiana         beaver         9         Landing         e         None         R         R           Aplodontia         Humboldt         McWhinney         Non         TN         SN           humboldtiana         beaver         7         Creek         e         None         R         R           Aplodontia         Humboldt         Non         TN         SN         None         R         R           Aplodontia         Humboldt         G5         G6         G5         S3         ML         MN         MN </td <td></td> <td></td> <td></td> <td>Eiolds</td> <td>Non</td> <td></td> <td></td> <td>CNI</td> <td></td>				Eiolds	Non			CNI	
Aplodontia         Humboldt rufa         McWhinney hon         Non         TN         SN           Aplodontia         Humboldt Humboldt rufa         G5         G5         G5         G5           Aplodontia         Humboldt mountain humboldt rufa         Non         TN         SN         Non         TN         SN           Aplodontia         Humboldt         G5         G6         G5         G5         G5         G7         G7         GP         G6         M9			۵			None			
rufa         mountain         McWhinney         Non         TN         SN           humboldtiana         beaver         7         Creek         e         None         R         R           Aplodontia         Humboldt         Non         TN         SN         None         R         R           Aplodontia         Humboldt         G5         G5         G5         G5         G5         G5         G5         G5         G5         G6         G7         G7 <td></td> <td></td> <td></td> <td>Landing</td> <td></td> <td>None</td> <td></td> <td></td> <td></td>				Landing		None			
humboldtiana         beaver         7         Creek         e         None         R         R           Aplodontia         Humboldt         Non         TN         SN           humboldtiana         beaver         6         Hydesville         e         None         R         R           Aplodontia         Humboldt         G5         G5         G5         G5         G5         G5         G5         G5         G5         G6         G6         G6         Mone         R         R         R         A<	•			McWhinney	Non			SN	
Aplodontia Humboldt rufa mountain beaver 6 Hydesville e None R R Aplodontia Humboldt rufa mountain beaver 6 Hydesville e None R R Aplodontia Humboldt rufa mountain Non TN SN humboldtiana beaver 1 Hydesville e None R R Aquila Non FP; chrysaetos golden eagle 130 Taylor Peak e None G5 S3 WL Aquila Non FP; chrysaetos golden eagle 131 Taylor Peak e None G5 S3 WL Aquila Non FP; chrysaetos golden eagle 128 Iaqua Buttes e None G5 S3 WL Aquila Non FP; chrysaetos golden eagle 95 Taylor Peak e None G5 S3 WL Aquila Non FP; chrysaetos golden eagle 88 Taylor Peak e None G5 S3 WL Aquila Non FP; chrysaetos golden eagle 88 Taylor Peak e None G5 S3 WL Aquila Non FP; chrysaetos golden eagle 89 Taylor Peak e None G5 S3 WL Aquila Non FP; chrysaetos golden eagle 89 Taylor Peak e None G5 S3 WL Aquila Non FP; chrysaetos golden eagle 89 Taylor Peak e None G5 S3 WL Aquila Non FP; chrysaetos golden eagle 89 Taylor Peak e None G5 S3 WL Aquila Non FP; chrysaetos golden eagle 89 Taylor Peak e None G5 S3 WL Aquila Non FP; chrysaetos golden eagle 89 Taylor Peak e None G5 S3 WL Aquila Non FP; chrysaetos golden eagle 89 Taylor Peak e None G5 S3 WL Aquila Non FP; chrysaetos golden eagle 89 Taylor Peak e None G5 S3 WL Aquila Non FP; chrysaetos golden eagle 89 Taylor Peak e None G5 S3 WL Aquila Non FP; chrysaetos golden eagle 89 Taylor Peak e None G5 S3 WL Aquila Non FP; chrysaetos golden eagle 92 Taylor Peak e None G5 S3 WL Arborimus Sonoma tree None R R R			7	•		None			
rufa mountain beaver 6 Hydesville e None R R R  Aplodontia Humboldt G5 rufa mountain beaver 1 Hydesville e None R R R  Aquila beaver 1 Hydesville e None R R R  Aquila Non G5 S3 WL	-	Humboldt							
Aplodontia Humboldt rufa mountain humboldtiana beaver 1 Hydesville e None R R Aquila Non FP; chrysaetos golden eagle 130 Taylor Peak e None G5 S3 WL Aquila Non FP; chrysaetos golden eagle 128 Iaqua Buttes e None G5 S3 WL Aquila Non FP; chrysaetos golden eagle 95 Taylor Peak e None G5 S3 WL Aquila Non FP; chrysaetos golden eagle 88 Taylor Peak e None G5 S3 WL Aquila Non FP; chrysaetos golden eagle 89 Taylor Peak e None G5 S3 WL Aquila Non FP; chrysaetos golden eagle 89 Taylor Peak e None G5 S3 WL Aquila Non FP; chrysaetos golden eagle 89 Taylor Peak e None G5 S3 WL Aquila Non FP; chrysaetos golden eagle 89 Taylor Peak e None G5 S3 WL Aquila Non FP; chrysaetos golden eagle 89 Taylor Peak e None G5 S3 WL Aquila Non FP; chrysaetos golden eagle 89 Taylor Peak e None G5 S3 WL Aquila Non FP; chrysaetos golden eagle 92 Taylor Peak e None G5 S3 WL Arborimus Sonoma tree Non Non FP; chrysaetos golden eagle 92 Taylor Peak e None G5 S3 WL Arborimus Sonoma tree Non Non SSC	•	mountain			Non		TN	SN	
rufa mountain humboldtiana beaver 1 Hydesville e None R R R  Aquila Non FP; chrysaetos golden eagle 130 Taylor Peak e None G5 S3 WL  Aquila Non FP; chrysaetos golden eagle 131 Taylor Peak e None G5 S3 WL  Aquila Non FP; chrysaetos golden eagle 128 laqua Buttes e None G5 S3 WL  Aquila Non FP; chrysaetos golden eagle 95 Taylor Peak e None G5 S3 WL  Aquila Non FP; chrysaetos golden eagle 88 Taylor Peak e None G5 S3 WL  Aquila Non FP; chrysaetos golden eagle 88 Taylor Peak e None G5 S3 WL  Aquila Non FP; chrysaetos golden eagle 89 Taylor Peak e None G5 S3 WL  Aquila Non FP; chrysaetos golden eagle 89 Taylor Peak e None G5 S3 WL  Aquila Non FP; chrysaetos golden eagle 89 Taylor Peak e None G5 S3 WL  Aquila Non FP; chrysaetos golden eagle 89 Taylor Peak e None G5 S3 WL  Aquila Non FP; chrysaetos golden eagle 92 Taylor Peak e None G5 S3 WL  Arborimus Sonoma tree Non Non FP; chrysaetos golden eagle 92 Taylor Peak e None G5 S3 WL  Arborimus Sonoma tree Non Non SSSC	humboldtiana	beaver	6	Hydesville	e	None	R	R	
humboldtianabeaver1HydesvilleeNonRRAquila chrysaetosgolden eagle130Taylor PeakeNonG5S3WLAquila chrysaetosgolden eagle131Taylor PeakeNonG5S3WLAquila chrysaetosgolden eagle128laqua ButteseNonFP;chrysaetosgolden eagle95Taylor PeakeNonFP;chrysaetosgolden eagle95Taylor PeakeNoneG5S3WLAquila chrysaetosgolden eagle88Taylor PeakeNoneG5S3WLAquila chrysaetosgolden eagle89Taylor PeakeNoneG5S3WLAquila chrysaetosgolden eagle92Taylor PeakeNoneG5S3WLArborimus pomoSonoma tree yoneNonRedcresteNoneG5S3SCArborimus pomoSonoma treeNonRedcresteNoneG3S3SSC	Aplodontia	Humboldt					G5		
Aquila golden eagle 130 Taylor Peak e None G5 S3 WL Aquila Non FP; chrysaetos golden eagle 131 Taylor Peak e None G5 S3 WL Aquila Non FP; chrysaetos golden eagle 128 Iaqua Buttes e None G5 S3 WL Aquila Non FP; chrysaetos golden eagle 95 Taylor Peak e None G5 S3 WL Aquila Non FP; chrysaetos golden eagle 95 Taylor Peak e None G5 S3 WL Aquila Non FP; chrysaetos golden eagle 88 Taylor Peak e None G5 S3 WL Aquila Non FP; chrysaetos golden eagle 89 Taylor Peak e None G5 S3 WL Aquila Non FP; chrysaetos golden eagle 89 Taylor Peak e None G5 S3 WL Aquila Non FP; chrysaetos golden eagle 92 Taylor Peak e None G5 S3 WL Arborimus Sonoma tree None G5 S3 SSC Arborimus Sonoma tree None None G3 S3 SSC	rufa	mountain			Non		TN	SN	
chrysaetosgolden eagle130Taylor PeakeNoneG5S3WLAquila chrysaetosgolden eagle131Taylor PeakeNoneG5S3WLAquila chrysaetosgolden eagle128laqua ButteseNoneG5S3WLAquila chrysaetosgolden eagle95Taylor PeakeNoneG5S3WLAquila chrysaetosgolden eagle88Taylor PeakeNoneG5S3WLAquila chrysaetosgolden eagle89Taylor PeakeNoneG5S3WLAquila chrysaetosgolden eagle89Taylor PeakeNoneG5S3WLAquila chrysaetosgolden eagle92Taylor PeakeNoneG5S3WLArborimusSonoma tree pomovole203RedcresteNoneG3S3SSCArborimusSonoma treeNoneG3S3SSC	humboldtiana	beaver	1	Hydesville	е	None	R	R	
Aquila golden eagle 131 Taylor Peak e None G5 S3 WL  Aquila Non FP; Chrysaetos golden eagle 128 laqua Buttes e None G5 S3 WL  Aquila Non FP; Chrysaetos golden eagle 95 Taylor Peak e None G5 S3 WL  Aquila Non FP; Chrysaetos golden eagle 88 Taylor Peak e None G5 S3 WL  Aquila Non FP; Chrysaetos golden eagle 88 Taylor Peak e None G5 S3 WL  Aquila Non FP; Chrysaetos golden eagle 89 Taylor Peak e None G5 S3 WL  Aquila Non FP; Chrysaetos golden eagle 89 Taylor Peak e None G5 S3 WL  Aquila Non FP; Chrysaetos golden eagle 92 Taylor Peak e None G5 S3 WL  Arborimus Sonoma tree None G5 S3 WL  Arborimus Sonoma tree None G5 S3 SSC  Arborimus Sonoma tree None S5 S3 SSC	Aquila				Non				· ·
chrysaetosgolden eagle131Taylor PeakeNoneG5S3WLAquila chrysaetosgolden eagle128laqua ButteseNoneG5S3WLAquila chrysaetosgolden eagle95Taylor PeakeNoneG5S3WLAquila chrysaetosgolden eagle88Taylor PeakeNoneG5S3WLAquila chrysaetosgolden eagle89Taylor PeakeNoneG5S3WLAquila chrysaetosgolden eagle92Taylor PeakeNoneG5S3WLArborimusSonoma tree pomovole203RedcresteNoneG3S3SSCArborimusSonoma treeNonF0NoneG3S3SSC		golden eagle	130	Taylor Peak		None	G5	S3	
Aquila chrysaetos golden eagle 128 Iaqua Buttes e None G5 S3 WL  Aquila Non FP;  Chrysaetos golden eagle 95 Taylor Peak e None G5 S3 WL  Aquila Non FP;  Chrysaetos golden eagle 88 Taylor Peak e None G5 S3 WL  Aquila Non FP;  Chrysaetos golden eagle 89 Taylor Peak e None G5 S3 WL  Aquila Non FP;  Chrysaetos golden eagle 89 Taylor Peak e None G5 S3 WL  Aquila Non FP;  Chrysaetos golden eagle 92 Taylor Peak e None G5 S3 WL  Arborimus Sonoma tree None G5 S3 WL  Arborimus Sonoma tree None G5 S3 SSC  Arborimus Sonoma tree None G3 S3 SSC	•								
chrysaetosgolden eagle128laqua ButteseNoneG5S3WLAquilaNonFP;chrysaetosgolden eagle95Taylor PeakeNoneG5S3WLAquilaNonFP;chrysaetosgolden eagle88Taylor PeakeNoneG5S3WLAquilaNonFP;chrysaetosgolden eagle89Taylor PeakeNoneG5S3WLAquilaNonFP;chrysaetosgolden eagle92Taylor PeakeNoneG5S3WLArborimusSonoma treeNonNoneG3S3SSCArborimusSonoma treeNoneG3S3SSC		golden eagle	131	Taylor Peak		None	G5	S3	
Aquila golden eagle 95 Taylor Peak e None G5 S3 WL  Aquila Non FP; chrysaetos golden eagle 88 Taylor Peak e None G5 S3 WL  Aquila Non FP; chrysaetos golden eagle 89 Taylor Peak e None G5 S3 WL  Aquila Non FP; chrysaetos golden eagle 89 Taylor Peak e None G5 S3 WL  Aquila Non FP; chrysaetos golden eagle 92 Taylor Peak e None G5 S3 WL  Arborimus Sonoma tree Non G5 S3 WL  Arborimus Sonoma tree Non G5 S3 SSC  Arborimus Sonoma tree Non SSC	•		400				0.5	60	
chrysaetosgolden eagle95Taylor PeakeNoneG5S3WLAquila chrysaetosgolden eagle88Taylor PeakeNoneG5S3WLAquila chrysaetosgolden eagle89Taylor PeakeNoneG5S3WLAquila chrysaetosgolden eagle92Taylor PeakeNoneG5S3WLArborimusSonoma tree pomoNonNoneG5S3SSCArborimusSonoma treeNoneG3S3SSC		golden eagle	128	laqua Buttes		None	G5	53	
Aquila solden eagle 88 Taylor Peak e None G5 S3 WL  Aquila Non FP; chrysaetos golden eagle 89 Taylor Peak e None G5 S3 WL  Aquila Non FP; chrysaetos golden eagle 92 Taylor Peak e None G5 S3 WL  Arborimus Sonoma tree Non Non FP; pomo vole 203 Redcrest e None G3 S3 SSC  Arborimus Sonoma tree Non	•		0.5	Taylor Dool		Nama	C.E.	CO	
chrysaetosgolden eagle88Taylor PeakeNoneG5S3WLAquila chrysaetosgolden eagle89Taylor PeakeNoneG5S3WLAquila chrysaetosgolden eagle92Taylor PeakeNoneG5S3WLArborimusSonoma tree pomoNonNoneG3S3SSCArborimusSonoma treeNoneG3S3SSC		golden eagle	95	rayior Peak		none	GS	33	
Aquila chrysaetos golden eagle 89 Taylor Peak e None G5 S3 WL  Aquila Non FP; chrysaetos golden eagle 92 Taylor Peak e None G5 S3 WL  Arborimus Sonoma tree Non Pomo vole 203 Redcrest e None G3 S3 SSC  Arborimus Sonoma tree Non	•	golden eagle	00	Taylor Peak		None	G5	<b>C</b> 2	
chrysaetosgolden eagle89Taylor PeakeNoneG5S3WLAquila chrysaetosgolden eagle92Taylor PeakeNoneG5S3WLArborimus pomoSonoma tree voleNoneRedcresteNoneG3S3SSCArborimusSonoma treeNon		golden eagle	- 00	Taylor Feak		None	03		
Aquila Sonoma tree Pomo Vole Sonoma tree None Sonoma tree Sonoma	•	golden eagle	89	Taylor Peak		None	G5	<b>S</b> 3	
chrysaetosgolden eagle92Taylor PeakeNoneG5S3WLArborimusSonoma treeNoneNoneSSCArborimusSonoma treeNoneNoneSSC		polacii cagic		. a y lot i cak		110110			
Arborimus Sonoma tree Non pomo vole 203 Redcrest e None G3 S3 SSC Arborimus Sonoma tree Non	•	golden eagle	92	Tavlor Peak		None	G5	S3	
pomovole203RedcresteNoneG3S3SSCArborimusSonoma treeNon				. a j. c can					
Arborimus Sonoma tree Non			203	Redcrest		None	G3	S3	SSC
			190	Owl Creek		None	G3	S3	SSC

Arborimus	Sonoma tree		Mad River	Non				
pomo	vole	84	Buttes	e	None	G3	<b>S</b> 3	SSC
Arborimus	Sonoma tree		Mad River	Non				
pomo	vole	83	Buttes	e	None	G3	S3	SSC
Arborimus	Sonoma tree			Non				
pomo	vole	85	Owl Creek	e	None	G3	S3	SSC
Arborimus	Sonoma tree			Non				
pomo	vole	69	Hydesville	е	None	G3	S3	SSC
Arborimus	Sonoma tree		,	Non				
pomo	vole	77	Scotia	e	None	G3	S3	SSC
Arborimus	Sonoma tree			Non				
pomo	vole	70	Hydesville	е	None	G3	S3	SSC
Arborimus	Sonoma tree			Non				
pomo	vole	72	Taylor Peak	e	None	G3	S3	SSC
Arborimus	Sonoma tree			Non				
pomo	vole	74	Taylor Peak	e	None	G3	S3	SSC
Arborimus	Sonoma tree		,	Non				
pomo	vole	73	Taylor Peak	e	None	G3	<b>S</b> 3	SSC
Arborimus	Sonoma tree		,	Non				
pomo	vole	75	Taylor Peak	e	None	G3	<b>S</b> 3	SSC
Arborimus	Sonoma tree		,	Non				
pomo	vole	71	Hydesville	e	None	G3	S3	SSC
Arborimus	Sonoma tree	· · ·	, acsviiic	Non	110110			
pomo	vole	76	Scotia	e	None	G3	S3	SSC
Arborimus	Sonoma tree		McWhinney	Non				
pomo	vole	64	Creek	e	None	G3	<b>S</b> 3	SSC
Arborimus	Sonoma tree	0.	O. CCI.	Non	110110			
pomo	vole	66	Hydesville	e	None	G3	S3	SSC
Arborimus	Sonoma tree		, acsviiic	Non	110110			
pomo	vole	67	Hydesville	e	None	G3	S3	SSC
Arborimus	Sonoma tree	<u> </u>	,	Non				
pomo	vole	68	Hydesville	e	None	G3	<b>S</b> 3	SSC
Arborimus	Sonoma tree		Fields	Non				
pomo	vole	61	Landing	e	None	G3	S3	SSC
Arborimus	Sonoma tree		McWhinney	Non				
pomo	vole	62	Creek	e	None	G3	S3	SSC
Arborimus	Sonoma tree		McWhinney	Non				
pomo	vole	63	Creek	e	None	G3	S3	SSC
Arborimus	Sonoma tree			Non				
pomo	vole	50	Redcrest	e	None	G3	S3	SSC
Arborimus	Sonoma tree		<del>-</del>	Non				
pomo	vole	38	Fortuna	е	None	G3	S3	SSC
Arborimus	Sonoma tree			Non				
pomo	vole	37	Hydesville	e	None	G3	<b>S</b> 3	SSC
Arborimus	Sonoma tree		,	Non				
pomo	vole	43	Korbel	e	None	G3	<b>S</b> 3	SSC

Arborimus	Sonoma tree			Non				
pomo	vole	8	Iaqua Buttes	е	None	G3	S3	SSC
			Fields	Non				
Ardea alba	great egret	22	Landing	е	None	G5	S4	
			Fields	Non				
Ardea alba	great egret	39	Landing	е	None	G5	S4	
			Fields	Non				
Ardea alba	great egret	21	Landing	e	None	G5	S4	
Ardea	great blue		Cannibal	Non				
herodias	heron	144	Island	е	None	G5	S4	
Ardea	great blue		Fields	Non				
herodias	heron	53	Landing	е	None	G5	S4	
Ardea	great blue		Fields	Non				
herodias	heron	143	Landing	е	None	G5	S4	
Ardea	great blue			Non				
herodias	heron	134	Fortuna	е	None	G5	S4	
Ardea	great blue			Non				
herodias	heron	56	Fortuna	e	None	G5	S4	
Ardea	great blue			Non				
herodias	heron	62	Hydesville	e	None	G5	S4	
Ardea	great blue		Fields	Non				
herodias	heron	52	Landing	e	None	G5	S4	
Ascaphus	Pacific tailed			Non			S3	
truei	frog	211	Redcrest	e	None	G4	<b>S</b> 4	SSC
Ascaphus	Pacific tailed			Non			S3	
truei	frog	414	Weott	e	None	G4	S4	SSC
Ascaphus	Pacific tailed			Non			S3	
truei	frog	204	Arcata South	е	None	G4	S4	SSC
Ascaphus	Pacific tailed		McWhinney	Non			S3	
truei	frog	381	Creek	е	None	G4	<b>S</b> 4	SSC
Ascaphus	Pacific tailed		McWhinney	Non			S3	
truei	frog	382	Creek	е	None	G4	S4	SSC
Ascaphus	Pacific tailed		Fields	Non			S3	
truei	frog	6	Landing	е	None	G4	<b>S</b> 4	SSC
Ascaphus	Pacific tailed		McWhinney	Non			S3	
truei	frog	190	Creek	е	None	G4	<b>S4</b>	SSC
Ascaphus	Pacific tailed			Non			S3	
truei	frog	125	Scotia	е	None	G4	S4	SSC
Bombus	obscure			Non		G2	S1	
caliginosus	bumble bee	30	Korbel	e	None	G3	S2	
Bombus	obscure			Non		G2	S1	
caliginosus	bumble bee	31	laqua Buttes	e	None	G3	S2	
Bombus	obscure	<u> </u>	.aqaa battes	Non	110110	G2	S1	
caliginosus	bumble bee	34	Redcrest	e	None	G3	S2	
Bombus	obscure	J <del>-1</del>	neactest	Non	HOHE	G2	S1	
caliginosus	bumble bee	33	Ferndale		None	G2 G3	S2	
caligiliosus	טטוווטופ טפפ	33	i ci iluale	е	NOTIC	03	JZ	

Bombus	obscure		Fields	Non		G2	S1
caliginosus	bumble bee	28	Landing	е	None	G3	S2
Bombus	obscure		Fields	Non		G2	S1
caliginosus	bumble bee	29	Landing	e	None	G3	S2
					Candida		
					te		
Bombus	western			Non	Endang		
occidentalis	bumble bee	43	Korbel	e	ered	G3	S1
					Candida		
					te		
Bombus	western			Non	Endang		
occidentalis	bumble bee	45	Ferndale	e	ered	G3	S1
					Candida		
					te		
Bombus	western			Non	Endang		
occidentalis	bumble bee	48	Scotia	е	ered	G3	S1
					Candida		
					te		
Bombus	western		Fields	Non	Endang		
occidentalis	bumble bee	44	Landing	e	ered	G3	S1
Occidentalis	Bullible Bee		Lanang		Candida	- 05	
					te		
Bombus	western			Non	Endang		
occidentalis	bumble bee	47	Fortuna	e	ered	G3	S1
occidentalis	barrible bee	7/	Tortana	Thre	Cica	03	
Brachyramphu	marbled		McWhinney	aten	Endang		
s marmoratus	murrelet	72	Creek	ed	ered	G3	S2
3 marmoratus	munelet	/ 2	CIECK	Thre	ereu	03	32
Drachyramphy	marbled		MaMhinnay		Endana		
Brachyramphu	murrelet	72	McWhinney	aten	Endang	C	ca
s marmoratus	munelet	73	Creek	ed	ered	G3	S2
Dun alayera li	له م اماسم مس			Thre	F.m. al		
Brachyramphu	marbled	<b>C</b> 2	Janua Dutte	aten	Endang	<b>C</b> 2	C)
s marmoratus	murrelet	62	laqua Buttes	ed	ered	G3	S2
D l				Thre	<b>5</b> l		
Brachyramphu	marbled	70	11 1 11	aten	Endang	63	63
s marmoratus	murrelet	70	Hydesville	ed	ered	G3	S2
				Thre			
Brachyramphu	marbled			aten	Endang		
s marmoratus	murrelet	69	Scotia	ed	ered	G3	S2
				Thre			
Brachyramphu	marbled			aten	Endang		
s marmoratus	murrelet	65	Iaqua Buttes	ed	ered	G3	S2
				Thre			
Brachyramphu	marbled			aten	Endang		
s marmoratus	murrelet	64	laqua Buttes	ed	ered	G3	S2
				_			

				Thre			
Brachyramphu	marbled			aten	Endang		
s marmoratus	murrelet	67	Scotia	ed	ered	G3	S2
				Thre			
Brachyramphu	marbled			aten	Endang		
s marmoratus	murrelet	66	Iaqua Buttes	ed	ered	G3	S2
				Thre			
Brachyramphu	marbled			aten	Endang		
s marmoratus	murrelet	68	Scotia	ed	ered	G3	S2
				Thre			
Brachyramphu	marbled			aten	Endang		
s marmoratus	murrelet	71	Hydesville	ed	ered	G3	S2
				Thre			
Brachyramphu	marbled			aten	Endang		
s marmoratus	murrelet	63	laqua Buttes	ed	ered	G3	S2
				Thre			
Brachyramphu	marbled			aten	Endang		
s marmoratus	murrelet	54	Owl Creek	ed	ered	G3	S2
				Thre			
Brachyramphu	marbled			aten	Endang		
s marmoratus	murrelet	60	Owl Creek	ed	ered	G3	S2
				Thre			
Brachyramphu	marbled			aten	Endang		
s marmoratus	murrelet	59	Owl Creek	ed	ered	G3	S2
				Thre			
Brachyramphu	marbled			aten	Endang		
s marmoratus	murrelet	57	Owl Creek	ed	ered	G3	S2
				Thre			
Brachyramphu	marbled			aten	Endang		
s marmoratus	murrelet	55	Owl Creek	ed	ered	G3	S2
				Thre			
Brachyramphu	marbled			aten	Endang		
s marmoratus	murrelet	50	Redcrest	ed	ered	G3	S2
				Thre			
Brachyramphu	marbled			aten	Endang		
s marmoratus	murrelet	52	Redcrest	ed	ered	G3	S2
				Thre			
Brachyramphu	marbled			aten	Endang		
s marmoratus	murrelet	56	Owl Creek	ed	ered	G3	S2
				Thre			
Brachyramphu	marbled			aten	Endang		
s marmoratus	murrelet	58	Owl Creek	ed	ered	G3	S2
				Thre			
Brachyramphu	marbled			aten	Endang		
s marmoratus	murrelet	53	Redcrest	ed	ered	G3	S2
	·					·	

				Thre					
Brachyramphu	marbled		_	aten	Endang				
s marmoratus	murrelet	61	laqua Buttes	ed	ered	G3	S2		
				Thre					
Brachyramphu	marbled			aten	Endang				
s marmoratus	murrelet	49	Redcrest	ed	ered	G3	S2		
				Thre					
Brachyramphu	marbled			aten	Endang				
s marmoratus	murrelet	51	Redcrest	ed	ered	G3	S2		
Cardamine	seaside			Non		G4			
angulata	bittercress	2	Arcata South	e	None	G5	S3	2B.1	
	northern								
	clustered			Non					
Carex arcta	sedge	9	Owl Creek	e	None	G5	<b>S1</b>	2B.2	
	northern								
	clustered			Non					
Carex arcta	sedge	3	Owl Creek	e	None	G5	<b>S1</b>	2B.2	
	northern								
	clustered			Non					
Carex arcta	sedge	8	Redcrest	e	None	G5	S1	2B.2	
	bristle-stalked		Fields	Non					
Carex leptalea	sedge	3	Landing	e	None	G5	<b>S1</b>	2B.2	
<u> </u>	Lyngbye's			Non					
Carex lyngbyei	sedge	9	Eureka	e	None	G5	S3	2B.2	
Castilleja									
ambigua var.									
humboldtiensi	Humboldt Bay		Fields	Non		G4			
S	owl's-clover	34	Landing	e	None	T2	S2	1B.2	
Castilleja	Oregon coast		Fields	Non					
litoralis	paintbrush	17	Landing	e	None	G3	<b>S</b> 3	2B.2	
Charadrius	mountain		Fields	Non			S2		
montanus	plover	96	Landing	e	None	G3	S3		SSC
Charadrius	piote:		241141118	Thre	110110				
nivosus	western snowy		Cannibal	aten		G3			
nivosus	plover	78	Island	ed	None	T3	S3		SSC
Chloropyron	Point Reyes		isiaria		TTOTIC				
maritimum	salty bird's-		Fields	Non		G4?			
ssp. palustre	beak	15	Landing	e	None	T2	S2	1B.2	
Chloropyron	Point Reyes		-ananig		140110		<u> </u>	10.2	
maritimum	salty bird's-		Fields	Non		G4?			
ssp. palustre	beak	16	Landing	e	None	T2	S2	1B.2	
Clarkia	Whitney's		Larrania		140110	٠,۷	J2	10.2	
amoena ssp.	farewell-to-			Non		G5			
whitneyi	spring	8	Fortuna	e	None	T1	<b>S1</b>	1B.1	
Coptis	Oregon		TOTALIA	Non	140110		S3	10.1	
Coptis	•						33 ?	4.2	
laciniata	goldthread	113	laqua Buttes	e	None	G4?	7	4,	

Coptis	Oregon			Non			S3		
laciniata	goldthread	59	laqua Buttes	e	None	G4?	?	4.2	
Coptis	Oregon			Non			S3		
laciniata	goldthread	7	Owl Creek	e	None	G4?	?	4.2	
Corynorhinus	Townsend's		McWhinney	Non					
townsendii	big-eared bat	568	Creek	е	None	G4	<b>S2</b>		SSC
Corynorhinus	Townsend's			Non					
townsendii	big-eared bat	567	Hydesville	е	None	G4	<b>S2</b>		SSC
Corynorhinus	Townsend's		-	Non					
townsendii	big-eared bat	146	Redcrest	e	None	G4	S2		SSC
Corynorhinus	Townsend's			Non					
townsendii	big-eared bat	139	Redcrest	е	None	G4	<b>S2</b>		SSC
Corynorhinus	Townsend's			Non					
townsendii	big-eared bat	124	Scotia	e	None	G4	<b>S2</b>		SSC
Downingia	Cascade			Non					
willamettensis	downingia	5	Fortuna	e	None	G4	S2	2B.2	
Downingia	Cascade			Non					
willamettensis	downingia	6	Fortuna	е	None	G4	S2	2B.2	
Downingia	Cascade			Non					
willamettensis	downingia	7	Fortuna	е	None	G4	S2	2B.2	
Downingia	Cascade			Non					
willamettensis	downingia	4	Hydesville	е	None	G4	S2	2B.2	
			Fields	Non					
Egretta thula	snowy egret	6	Landing	е	None	G5	S4		
Emys	western pond			Non		G3			
marmorata	turtle	1,375	Redcrest	e	None	G4	<b>S</b> 3		SSC
Emys	western pond		Fields	Non		G3			
marmorata	turtle	1,367	Landing	e	None	G4	<b>S</b> 3		SSC
Emys	western pond			Non		G3			
marmorata	turtle	560	Redcrest	e	None	G4	<b>S</b> 3		SSC
Emys	western pond			Non		G3			
marmorata	turtle	740	Hydesville	e	None	G4	S3		SSC
Emys	western pond		•	Non		G3			
marmorata	turtle	738	Redcrest	e	None	G4	S3		SSC
Emys	western pond			Non		G3			
marmorata	turtle	737	Redcrest	e	None	G4	S3		SSC
Emys	western pond			Non		G3			
, marmorata	turtle	739	Hydesville	e	None	G4	S3		SSC
Emys	western pond		McWhinney	Non		G3			
, marmorata	turtle	742	Creek	e	None	G4	S3		SSC
Emys	western pond		Fields	Non		G3			
, marmorata	turtle	743	Landing	e	None	G4	S3		SSC
Emys	western pond			Non		G3			
marmorata	turtle	741	Owl Creek	е	None	G4	S3		SSC
Emys	western pond			Non		G3			

Marmorata   Turtle   T34   Redcrest   e   None   G4   S3   SSC		wastara nand			Non		G3		
Emys marmorata         western pond turtle         735         Redcrest         e         None         G3         SSC           Emys marmorata         western pond turtle         732         Redcrest         e         None         G3         SSC           Emys western pond marmorata         turtle         522         Redcrest         e         None         G4         S3         SSC           Emys western pond marmorata         turtle         419         Hydesville         e         None         G4         S3         SSC           Emys western pond marmorata         turtle         419         Hydesville         e         None         G4         S3         SSC           Emtosphenus tridentatus         Pacific lamprey         4         Arcata South         e         None         G4         S3         SSC           Entosphenus tridentatus         Pacific lamprey         4         Arcata South         e         None         G4         S3         SSC           Entosphenus tridentatus         Pacific lamprey         5         Landing         e         None         G4         S3         SSC           Entosphenus tridentatus         Pacific lamprey         5         Landing         e         None	Emys	western pond	724	Dodovost		Nama		ca	ccc
marmorata         turtle         735         Redcrest         e         Non         G4         \$3         SSC           Emys         western pond         732         Redcrest         e         Non         G3         SSC           Emys         western pond         Non         G3         SSC           Emys         western pond         Non         G3         SSC           Emys         western pond         Non         G4         \$33         SSC           Emys         western pond         Non         Non         G4         \$33         SSC           Emys         western pond         Non         Non         G4         \$33         SSC           Emtosphenus         Fields         Non         Fields         Non         Fields         Non           Entosphenus         Fields         Non         Fields         Non         G4         \$33         SSC           Entosphenus         Fields         Non         Non         G4         \$33         SSC           Entosphenus         Fields         Non         Non         G4         \$33         SSC           Entosphenus         Fields         Non         Non         G4 <td></td> <td></td> <td>/34</td> <td>Redcrest</td> <td></td> <td>None</td> <td></td> <td>33</td> <td>330</td>			/34	Redcrest		None		33	330
Emys marmorata turtle         western pond marmorata         732         Redcrest e None         G3 G	•	· ·	725	Dodorost		None		ca	ccc
marmorata         turtle         732         Redcrest         e         Non         G4         S3         SSC           Emys         western pond         Non         G3         SSC           Emys         western pond         Non         G3         SSC           Emys         western pond         Hydesville         e         None         G4         S3         SSC           Entosphenus tridentatus         Pacific lamprey         6         Landing         e         None         G4         S3         SSC           Entosphenus tridentatus         Pacific lamprey         4         Arcata South         e         None         G4         S3         SSC           Entosphenus tridentatus         Pacific lamprey         4         Arcata South         e         None         G4         S3         SSC           Entosphenus tridentatus         Pacific lamprey         5         Landing         e         None         G4         S3         SSC           Entosphenus tridentatus         Pacific lamprey         5         Landing         e         None         G4         S3         SSC           Entosphenus tridentatus         Pacific lamprey         5         Landing         e			/35	Redcrest		None		33	330
Emys marmorata turtle         western pond marmorata         Non marmorata         G3 mone G4 mone G3 mone G3 mone G3 mone G3 mone G3 mone G4 mone G5 mone G5 mone G4 mone G4 mone G4 mone G4 mone G4 mone G4 mone G5 mone G4 mone Mone Mone Mone Mone Mone Mone Mone M	•	•	722	Dodovost		Nama		ca	ccc
marmorata         turtle         522         Redcrest         e         None         G3         SSC           Emys         western pond         The property         Non         G3         SSC           Emys         western pond         Non         G3         SSC           Entosphenus         Fields         Non         None         G4         S3         SSC           Entosphenus tridentatus         Pacific lamprey         4         Arcata South         e         None         G4         S3         SSC           Entosphenus tridentatus         Pacific lamprey         5         Landing         e         None         G4         S3         SSC           Entosphenus tridentatus         Pacific lamprey         5         Landing         e         None         G4         S3         SSC           Entosphenus tridentatus         Pacific lamprey         5         Landing         e         None         G4         S3         SSC           Entosphenus tridentatus         Pacific lamprey         5         Landing         e         None         G4         S3         SSC           Entosphenus tridentatus         Pacific lamprey         5         Landing         e         None			/32	Reacrest		None		53	SSC
Emys marmorata turtlewestern pond turtle419Hydesville eNon eG3 NoneG3 G4SSCEntosphenus tridentatusPacific lamprey Pacific lamprey6Landing eeNone None HoneG4S3SSCEntosphenus tridentatusPacific lamprey Pacific lamprey North4Arcata South FieldsNon eNone MoneG4S3SSCNorth Erethizon dorsatumPacific lamprey American Morth5Landing Pacific lamprey MorthNon Hone MorthNon Mone Mone MorthG4S3SSCNorth Erethizon American Morsatum Moroth Erethizon American MorthAmerican Morth MorthNon Mone MorthNon Mone Mone MorthG5S3Erethizon Morsatum Moratum Erethizon American Morth Erethizon American MorthAmerican Morth Morth Morth Morth Morth Morth Morth Morth Morth Erethizon American MorotupineMcWhinney Mone McWhinney Mone Mone Morotupine Morth Morth Morth Erethizon American Morth Morth Morth Erethizon American Morth Morth Morth Erethizon American Morth Morth Morth Erethizon American Morth Morth Morth Erethizon American Morth	•	· ·	522	D. d		<b>N</b> 1		62	666
marmorataturtle419HydesvilleeNoneG4S3SSCEntosphenus tridentatusPacific lamprey6LandingeNoneG4S3SSCEntosphenus tridentatusPacific lamprey4Arcata SoutheNoneG4S3SSCEntosphenus tridentatusPacific lamprey5LandingeNoneG4S3SSCEntosphenus tridentatusPacific lamprey5LandingeNoneG4S3SSCNorth Erethizon dorsatumAmerican porcupine471RedcresteNoneG5S3North Erethizon dorsatumAmerican porcupine479Maple CreekeNoneG5S3North Erethizon dorsatumAmerican porcupine474ScotiaeNoneG5S3North Erethizon dorsatumAmerican porcupine472BridgevilleeNoneG5S3North Erethizon dorsatumAmerican porcupineMcWhinney porcupineNone McWhinney NoneNone eNone G5S3North Erethizon dorsatumAmerican porcupineMcWhinney 189None FortunaeNone eNone G5S3North Erethizon American dorsatumMcWhinney porcupineNone eNone eG5S3North Erethizon American dorsatumMcWhinney porcupineNone eNone e </td <td>-</td> <td></td> <td>522</td> <td>Reacrest</td> <td></td> <td>None</td> <td></td> <td>53</td> <td>SSC</td>	-		522	Reacrest		None		53	SSC
Entosphenus tridentatusPacific lamprey6LandingNon eNon eNoneG4S3SSCEntosphenus tridentatusPacific lamprey4Arcata SoutheNoneG4S3SSCEntosphenus tridentatusPacific lamprey5LandingeNoneG4S3SSCNorth ErethizonAmerican dorsatumAmerican porcupineMonNoneG5S3North ErethizonAmerican dorsatumAmerican porcupineNoneMoneG5S3North Erethizon dorsatumAmerican porcupineAmerican 474ScotiaeNoneG5S3North Erethizon dorsatumAmerican porcupineAmerican 472NoneNoneG5S3North Erethizon dorsatumAmerican porcupineMcWhinney 182None PortunaNone eNone eNone G5S3North Erethizon dorsatumAmerican American dorsatumMcWhinney porcupineNone eNone eNone eNone G5S3North Erethizon dorsatumAmerican porcupineMcWhinney 189None FortunaNone eNone eS3SSCNorth Erethizon dorsatumAmerican porcupineMcWhinney 181Creek eNone eNone eS3SSCNorth Erethizon American dorsatum180Scotia eNone eNone eNone e </td <td>•</td> <td>•</td> <td>440</td> <td>11 4</td> <td></td> <td><b>N</b>1</td> <td></td> <td>62</td> <td>666</td>	•	•	440	11 4		<b>N</b> 1		62	666
tridentatusPacific lamprey6LandingeNoneG4S3SSCEntosphenus tridentatusPacific lamprey4Arcata SoutheNoneG4S3SSCEntosphenus tridentatusPacific lamprey5LandingeNoneG4S3SSCNorth Erethizon dorsatumAmerican porcupineAmerican dorsatumNon porcupineNone American dorsatumAmerican porcupineNone American dorsatumNone porcupineG5S3North Erethizon dorsatumAmerican porcupineNone American dorsatumNone porcupineG5S3North Erethizon dorsatumAmerican porcupineNone American dorsatumNone porcupineG5S3North Erethizon dorsatumAmerican porcupineNone American dorsatumNone porcupineG5S3North Erethizon dorsatumAmerican porcupineMcWhinney American dorsatumNone porcupineRocupine American McWhinney MorthNone None eNone G5S3Erethizon dorsatumAmerican porcupineMcWhinney American McWhinney MorthNone eNone G5S3North Erethizon American dorsatumNone porcupine181 CreekCreek eNone eNone None eG5S3North Erethizon American dorsatumForcupine porcupine190 Porcupine American NorthNone <b< td=""><td></td><td>turtie</td><td>419</td><td>•</td><td></td><td>None</td><td>G4</td><td>53</td><td>SSC</td></b<>		turtie	419	•		None	G4	53	SSC
Entosphenus tridentatus Pacific lamprey 4 Arcata South e None G4 S3 SSC Entosphenus tridentatus Pacific lamprey 5 Landing e None G4 S3 SSC North Erethizon American dorsatum porcupine 471 Redcrest e None G5 S3 North Erethizon American dorsatum porcupine 474 Scotia e None G5 S3 North Erethizon American dorsatum porcupine 474 Scotia e None G5 S3 North Erethizon American dorsatum porcupine 474 Scotia e None G5 S3 North Erethizon American dorsatum porcupine 474 Scotia e None G5 S3 North Erethizon American dorsatum porcupine 474 Bridgeville e None G5 S3 North Erethizon American North Erethizon American None G5 S3 North Erethizon American North North Erethizon American	•	Desiffe Leaves				<b>N</b> 1	64	62	666
tridentatusPacific lamprey4Arcata SoutheNoneG4S3SSCEntosphenus tridentatusPacific lamprey5LandingeNoneG4S3SSCErethizon American dorsatumAmerican porcupine471RedcresteNoneG5S3North Erethizon American dorsatumAmerican porcupine479Maple CreekeNoneG5S3North Erethizon American dorsatumAmerican porcupineNoneG5S3North Erethizon American dorsatumAmerican porcupineNone 472BridgevilleeNone NoneG5S3North Erethizon American dorsatumAmerican porcupineNone 191Redcrest eeNone NoneG5S3North Erethizon American dorsatumMcWhinney porcupineNone 182Creek eeNone None G5S3North Erethizon American dorsatumMcWhinney porcupineNone 183Fortuna CreekeNone None eG5S3North Erethizon American dorsatum181 porcupineCreek eNone eNone None eG5S3North Erethizon American dorsatum181 porcupineCreek eNone eNone None eG5S3North Erethizon American dorsatum190 porcupineScotia eNone eNone eG5S3		Pacific lamprey	6	Landing		None	G4	53	SSC
Entosphenus tridentatus Pacific lamprey 5 Landing e None G4 S3 SSC  North  Erethizon American dorsatum porcupine 471 Redcrest e None G5 S3  North  Erethizon American dorsatum porcupine 479 Maple Creek e None G5 S3  North  Erethizon American dorsatum porcupine 474 Scotia e None G5 S3  North  Erethizon American dorsatum porcupine 472 Bridgeville e None G5 S3  North  Erethizon American dorsatum porcupine 191 Redcrest e None G5 S3  North  Erethizon American dorsatum porcupine 191 Redcrest e None G5 S3  North  Erethizon American dorsatum porcupine 191 Redcrest e None G5 S3  North  Erethizon American dorsatum porcupine 182 Creek e None G5 S3  North  Erethizon American dorsatum porcupine 182 Creek e None G5 S3  North  Erethizon American McWhinney Non dorsatum porcupine 189 Fortuna e None G5 S3  North  Erethizon American Morth  Erethizon American Morth  Erethizon American Morsatum porcupine 180 Fortuna e None G5 S3  North  Erethizon American McWhinney Non dorsatum porcupine 181 Creek e None G5 S3  North  Erethizon American McWhinney Non Morsatum porcupine 181 Creek e None G5 S3  North  Erethizon American Morth E	•	D :(: 1						60	666
tridentatus Pacific lamprey 5 Landing e None G4 S3 SSC  North Erethizon American dorsatum porcupine 471 Redcrest e None G5 S3  North  Erethizon American dorsatum porcupine 479 Maple Creek e None G5 S3  North Erethizon American dorsatum porcupine 474 Scotia e None G5 S3  North  Erethizon American dorsatum porcupine 472 Bridgeville e None G5 S3  North  Erethizon American dorsatum porcupine 191 Redcrest e None G5 S3  North  Erethizon American dorsatum porcupine 191 Redcrest e None G5 S3  North  Erethizon American dorsatum porcupine 182 Creek e None G5 S3  North  Erethizon American dorsatum porcupine 182 Creek e None G5 S3  North  Erethizon American dorsatum porcupine 189 Fortuna e None G5 S3  North  Erethizon American dorsatum porcupine 181 Creek e None G5 S3  North  Erethizon American dorsatum porcupine 181 Creek e None G5 S3  North  Erethizon American McWhinney Non dorsatum porcupine 181 Creek e None G5 S3  North  Erethizon American Mowthinney Non dorsatum porcupine 181 Creek e None G5 S3  North  Erethizon American Morth Erethizon American Morth Erethizon American Dorcupine 181 Creek e None G5 S3  North Erethizon American Morth Erethizon American Morth Erethizon American Morth Erethizon American Horth Erethizon Horth Eret		Pacific lamprey	4			None	G4	53	SSC
Rethizon American dorsatum porcupine 471 Redcrest e None G5 S3  North  Erethizon American dorsatum porcupine 479 Maple Creek e None G5 S3  North  Erethizon American American dorsatum porcupine 474 Scotia e None G5 S3  North  Erethizon American Non McWhinney Non G5 S3  North  Erethizon American Non McWhinney Non G5 S3  North  Erethizon American	•	- · · · · ·	_						
Erethizon American porcupine 471 Redcrest e None G5 S3  North Erethizon American dorsatum porcupine 479 Maple Creek e None G5 S3  North Erethizon American North Erethizon American American None G5 S3  North Erethizon American North Erethizon North Erethizon American North Erethizon North Erethizon North Erethizon North	tridentatus		5	Landing	е	None	G4	S3	SSC
dorsatum porcupine 471 Redcrest e None G5 S3  North Erethizon American dorsatum porcupine 479 Maple Creek e None G5 S3  North Erethizon American dorsatum porcupine 474 Scotia e None G5 S3  North Erethizon American dorsatum porcupine 474 Scotia e None G5 S3  North Erethizon American dorsatum porcupine 472 Bridgeville e None G5 S3  North Erethizon American dorsatum porcupine 191 Redcrest e None G5 S3  North Erethizon American dorsatum porcupine 182 Creek e None G5 S3  North Erethizon American dorsatum porcupine 182 Creek e None G5 S3  North Erethizon American dorsatum porcupine 189 Fortuna e Non dorsatum porcupine 181 Creek e None G5 S3  North Erethizon American dorsatum porcupine 189 Fortuna e None G5 S3  North Erethizon American dorsatum porcupine 181 Creek e None G5 S3  North Erethizon American dorsatum porcupine 181 Creek e None G5 S3  North Erethizon American dorsatum porcupine 181 Creek e None G5 S3  North Erethizon American dorsatum porcupine 181 Creek e None G5 S3  North Erethizon American dorsatum porcupine 181 Creek e None G5 S3  North Erethizon American dorsatum porcupine 190 Scotia e None G5 S3  North Erethizon American dorsatum porcupine 190 Scotia e None G5 S3									
North Erethizon American dorsatum porcupine 479 Maple Creek e None G5 S3  North Erethizon American dorsatum porcupine 474 Scotia e None G5 S3  North Erethizon American dorsatum porcupine 472 Bridgeville e None G5 S3  North Erethizon American dorsatum porcupine 191 Redcrest e None G5 S3  North Erethizon American dorsatum porcupine 182 Creek e None G5 S3  North Erethizon American dorsatum porcupine 182 Creek e None G5 S3  North Erethizon American dorsatum porcupine 182 Creek e None G5 S3  North Erethizon American dorsatum porcupine 189 Fortuna e None G5 S3  North Erethizon American dorsatum porcupine 181 Creek e None G5 S3  North Erethizon American dorsatum porcupine 181 Creek e None G5 S3  North Erethizon American dorsatum porcupine 181 Creek e None G5 S3  North Erethizon American dorsatum porcupine 181 Creek e None G5 S3  North Erethizon American dorsatum porcupine 190 Scotia e None G5 S3  North Erethizon American Ronn dorsatum porcupine 190 Scotia e None G5 S3									
Erethizon American dorsatum porcupine 479 Maple Creek e None G5 S3  North  Erethizon American Non dorsatum porcupine 474 Scotia e None G5 S3  North  Erethizon American Non Non dorsatum porcupine 472 Bridgeville e None G5 S3  North  Erethizon American Non Non Non Non Non Non Non Non Non No	dorsatum	· · · · · · · · · · · · · · · · · · ·	471	Redcrest	е	None	G5	S3	
dorsatumporcupine479Maple CreekeNoneG5S3Rethizon dorsatumAmerican dorsatumAmerican dorsatumNoneG5S3North Erethizon American dorsatumAmerican dorsatumNoneG5S3North Erethizon American dorsatumAmerican dorsatumNoneG5S3North Erethizon American dorsatumMorthNoneG5S3North Erethizon American dorsatumMcWhinney NoneNoneG5S3North Erethizon American dorsatumNoneG5S3North Erethizon American dorsatumMcWhinney NoneNoneG5S3North Erethizon American dorsatumMcWhinney NoneNoneG5S3North Erethizon American dorsatumNorthNoneG5S3North Erethizon American dorsatumNoneG5S3North Erethizon American dorsatumNoneG5S3North Erethizon American dorsatumFieldsNoneG5S3									
North Erethizon American dorsatum porcupine 474 Scotia e None G5 S3  North Erethizon American dorsatum porcupine 472 Bridgeville e None G5 S3  North Erethizon American dorsatum porcupine 191 Redcrest e None G5 S3  North Erethizon American dorsatum porcupine 182 Creek e None G5 S3  North Erethizon American Morth Erethizon American Fields Non									
Erethizon American porcupine 474 Scotia e None G5 S3  North Erethizon American porcupine 472 Bridgeville e None G5 S3  North Erethizon American American porcupine 191 Redcrest e None G5 S3  North Erethizon American McWhinney Non G5 S3  North Erethizon American North Erethizon American McWhinney Non G5 S3  North Erethizon American Non McWhinney Non G5 S3  North Erethizon American Non McWhinney Non G5 S3  North Erethizon American Non McWhinney Non Mon McWhinney Non McWhinney McWhinney McWhinney McWhinney McWhinney McWhinney McWhinney McWhinney	dorsatum	•	479	Maple Creek	е	None	G5	S3	
dorsatumporcupine474ScotiaeNoneG5S3Erethizon Admerican dorsatumAmerican American porcupineA72BridgevilleeNoneG5S3NorthErethizon American dorsatumMorthErethizon American dorsatumMorthErethizon American dorsatumNorthErethizon American dorsatumMorthErethizon American dorsatumMorthErethizon American dorsatumMorthErethizon American dorsatumMorthErethizon American dorsatumNorthErethizon American dorsatumNorthErethizon American dorsatumNorthErethizon American dorsatumNorthErethizon American dorsatumFieldsNoneG5S3NorthErethizon AmericanNorthErethizon AmericanAmerican AmericanNoneG5S3NorthErethizon AmericanNoneG5S3NorthErethizon AmericanAmerican AmericanNoneG5S3NorthErethizonAmerican American									

	N i.							
E. de	North		et data					
Erethizon	American	100	Fields	Non	Nana	C.F.	63	
dorsatum	porcupine	180	Landing	e	None	G5	S3	
Erythronium		4.2	Carlin	Non	<b>N</b> 1	C.F.	62	20.2
oregonum	giant fawn lily	12	Scotia	e	None	G5	S2	2B.2
Erythronium		_		Non				
oregonum	giant fawn lily	7	Taylor Peak	е	None	G5	S2	2B.2
Erythronium			_	Non				
oregonum	giant fawn lily	8	laqua Buttes	е	None	G5	S2	2B.2
Erythronium				Non		G4		
revolutum	coast fawn lily	145	laqua Buttes	е	None	G5	S3	2B.2
Erythronium			Yager	Non		G4		
revolutum	coast fawn lily	179	Junction	е	None	G5	S3	2B.2
Erythronium				Non		G4		
revolutum	coast fawn lily	116	Iaqua Buttes	е	None	G5	S3	2B.2
Erythronium				Non		G4		
revolutum	coast fawn lily	26	laqua Buttes	е	None	G5	S3	2B.2
Erythronium				Non		G4		
revolutum	coast fawn lily	8	Iaqua Buttes	e	None	G5	<b>S3</b>	2B.2
Erythronium				Non		G4		
revolutum	coast fawn lily	173	Taylor Peak	e	None	G5	S3	2B.2
Erythronium	-		-	Non		G4		
revolutum	coast fawn lily	114	laqua Buttes	e	None	G5	<b>S</b> 3	2B.2
Erythronium	•		•	Non		G4		
revolutum	coast fawn lily	84	Scotia	e	None	G5	S3	2B.2
Erythronium	•			Non		G4		
revolutum	coast fawn lily	33	Scotia	e	None	G5	S3	2B.2
Erythronium	,			Non		G4		
, revolutum	coast fawn lily	153	Owl Creek	е	None	G5	S3	2B.2
Erythronium	, , , , , , , , , , , , , , , , , , ,			Non		G4		
revolutum	coast fawn lily	146	laqua Buttes	e	None	G5	S3	2B.2
Erythronium	,			Non		G4		
revolutum	coast fawn lily	149	Scotia	е	None	G5	<b>S</b> 3	2B.2
Erythronium	,			Non		G4		
revolutum	coast fawn lily	35	Iaqua Buttes	e	None	G5	S3	2B.2
Erythronium	- couse rawn my		iaqua Buttes	Non	110110	G4		
revolutum	coast fawn lily	42	Taylor Peak	e	None	G5	S3	2B.2
Erythronium				Non		G4	- 55	
revolutum	coast fawn lily	98	Owl Creek	e	None	G5	S3	2B.2
Erythronium	Soust lawii iiiy	- 50	JWI CICCK	Non	140110	G4		
revolutum	coast fawn lily	99	Owl Creek	e	None	G5	S3	2B.2
Erythronium	COUSE INVIT IIIY		OWI CICCK	Non	TAOTIC	G4		_U.L
revolutum	coast fawn lily	97	Owl Creek	e	None	G5	S3	2B.2
Erythronium	Coast lawii iiiy	31	OWICIECK	Non	INOIIC	G4	JJ	LU.L
revolutum	coast fawn lily	117	laqua Buttes		None	G5	S3	2B.2
Erythronium	Coast lawii iiiy	11/	iaqua bulles	e Non	NOHE	G4	33	۷۵.۷
•	coast faves like	115	lagua Buttos		None		co	20.2
revolutum	coast fawn lily	115	laqua Buttes	е	None	G5	S3	2B.2

Erythronium				Non		G4			
revolutum	coast fawn lily	66	laqua Buttes	е	None	G5	S3	2B.2	
Erythronium				Non		G4			
revolutum	coast fawn lily	41	Taylor Peak	е	None	G5	S3	2B.2	
Erythronium				Non		G4			
revolutum	coast fawn lily	83	Scotia	e	None	G5	S3	2B.2	
Erythronium				Non		G4			
revolutum	coast fawn lily	61	Owl Creek	e	None	G5	S3	2B.2	
Erythronium	-			Non		G4			
revolutum	coast fawn lily	43	Taylor Peak	e	None	G5	<b>S</b> 3	2B.2	
Erythronium	•		•	Non		G4			
revolutum	coast fawn lily	60	Taylor Peak	е	None	G5	S3	2B.2	
Erythronium	,		,	Non		G4			
revolutum	coast fawn lily	39	Taylor Peak	e	None	G5	S3	2B.2	
Erythronium	coust ravvii my		rayior reak	Non	110110	G4			
revolutum	coast fawn lily	38	Taylor Peak	e	None	G5	S3	2B.2	
Erythronium	coast ravvir my	- 50	Taylor Feak	Non	IVOITE	G4	- 55	20.2	
revolutum	coast fawn lily	40	Taylor Peak	e	None	G5	S3	2B.2	
Erythronium	Coast lawii iiiy	40	rayioi reak	Non	INOTIC	G4	33	20.2	
revolutum	coast fawn lily	12	Owl Creek		None	G5	S3	2B.2	
Erythronium	Coast lawii iiiy	12	OWICIEEK	e Non	None	G4	33	ZD.Z	
•	coast faves like	25	Jagua Buttas		None		ca	20.2	
revolutum	coast fawn lily	25	Iaqua Buttes	e Final	None	G5	S3	2B.2	
C			r: alda	End					
Eucyclogobius	Atalassa a a a lass	427	Fields	ange	Nama	<b>C</b> 2	63		
newberryi	tidewater goby	127	Landing	red	None	G3	S3		
				End					
Eucyclogobius		440	- 1	ange			60		
newberryi	tidewater goby	119	Eureka	red	None	G3	S3		
Falco	American								
peregrinus	peregrine		Fields	Delis		G4	S3		
anatum	falcon	77	Landing	ted	Delisted	T4	S4		FP
Falco	American								
peregrinus	peregrine			Delis		G4	S3		
anatum	falcon	59	Redcrest	ted	Delisted	T4	S4		FP
Falco	American								
peregrinus	peregrine			Delis		G4	S3		
anatum	falcon	76	Redcrest	ted	Delisted	T4	S4		FP
Falco	American								
peregrinus	peregrine			Delis		G4	S3		
anatum	falcon	75	Redcrest	ted	Delisted	T4	S4		FP
Falco	American								
peregrinus	peregrine			Delis		G4	<b>S3</b>		
anatum	falcon	71	Hydesville	ted	Delisted	T4	<b>S4</b>		FP
Falco	American								
peregrinus	peregrine		Fields	Delis		G4	<b>S3</b>		
anatum	falcon	74	Landing	ted	Delisted	T4	<b>S4</b>		FP
-									

Falsa	A								
Falco	American			D . I'.		C 4	60		
peregrinus	peregrine	66	Augusta Caustla	Delis	Dalistad	G4	S3		ED.
anatum	falcon	66	Arcata South	ted	Delisted	T4	S4		FP
Falco	American			D . I'.		C 4	60		
peregrinus	peregrine	<b>6</b> 7		Delis	5 11	G4	S3		
anatum	falcon	67	Arcata South	ted	Delisted	T4	S4		FP
Falco	American								
peregrinus	peregrine		McWhinney	Delis		G4	S3		
anatum	falcon	65	Creek	ted	Delisted	T4	S4		FP
Falco	American								
peregrinus	peregrine			Delis		G4	S3		
anatum	falcon	63	Eureka	ted	Delisted	T4	S4		FP
Falco	American								
peregrinus	peregrine			Delis		G4	S3		
anatum	falcon	64	Eureka	ted	Delisted	T4	S4		FP
Fissidens	minute pocket			Non					
pauperculus	moss	17	Fortuna	е	None	G3?	S2	1B.2	
Fissidens	minute pocket			Non					
pauperculus	moss	18	Arcata South	е	None	G3?	S2	1B.2	
Gilia capitata				Non		G5			
ssp. pacifica	Pacific gilia	87	laqua Buttes	е	None	T3	S2	1B.2	
Gilia capitata				Non		G5			
ssp. pacifica	Pacific gilia	77	Scotia	е	None	T3	S2	1B.2	
Gilia capitata				Non		G5			
ssp. pacifica	Pacific gilia	24	Taylor Peak	e	None	T3	S2	1B.2	
Gilia capitata				Non		G5			
ssp. pacifica	Pacific gilia	53	laqua Buttes	e	None	T3	S2	1B.2	
Gilia capitata				Non		G5			
ssp. pacifica	Pacific gilia	75	Scotia	e	None	T3	S2	1B.2	
Gilia capitata				Non		G5			
ssp. pacifica	Pacific gilia	76	Scotia	e	None	T3	S2	1B.2	
Gilia capitata				Non		G5			
ssp. pacifica	Pacific gilia	23	Scotia	e	None	T3	S2	1B.2	
Gilia capitata				Non		G5			_
ssp. pacifica	Pacific gilia	50	Owl Creek	e	None	T3	S2	1B.2	
Gilia capitata				Non		G5			
ssp. pacifica	Pacific gilia	63	Hydesville	e	None	T3	S2	1B.2	
Gilia capitata				Non		G5			
ssp. pacifica	Pacific gilia	62	Taylor Peak	e	None	T3	S2	1B.2	
Gilia capitata				Non		G5			
ssp. pacifica	Pacific gilia	61	Taylor Peak	e	None	T3	S2	1B.2	
Gilia capitata				Non		G5			
ssp. pacifica	Pacific gilia	54	laqua Buttes	e	None	T3	<b>S2</b>	1B.2	
Gilia capitata	-		-	Non		G5			
ssp. pacifica	Pacific gilia	10	laqua Buttes	e	None	T3	S2	1B.2	
Gilia capitata	<u> </u>		•	Non		G5			
ssp. pacifica	Pacific gilia	37	laqua Buttes	e	None	T3	S2	1B.2	
	<u>5</u>		1		_	•			

Gilia capitata				Non		G5			
ssp. pacifica	Pacific gilia	34	Taylor Peak	е	None	T3	S2	1B.2	
Gilia capitata				Non		G5			
ssp. pacifica	Pacific gilia	36	Hydesville	e	None	T3	S2	1B.2	
Gilia capitata				Non		G5			
ssp. pacifica	Pacific gilia	12	Fortuna	e	None	T3	S2	1B.2	
Gilia capitata				Non		G5			
ssp. pacifica	Pacific gilia	25	Taylor Peak	e	None	T3	S2	1B.2	
Gilia capitata				Non		G5			
ssp. pacifica	Pacific gilia	26	Taylor Peak	e	None	T3	S2	1B.2	
Gilia			Fields	Non					
millefoliata	dark-eyed gilia	51	Landing	e	None	G2	S2	1B.2	
Gonidea	western ridged			Non					
angulata	mussel	156	Redcrest	e	None	G3	S2		
Haliaeetus			Fields	Delis	Endang				
leucocephalus	bald eagle	250	Landing	ted	ered	G5	S3		FP
Hesperevax									
sparsiflora	short-leaved			Non		G4			
var. brevifolia	evax	34	Taylor Peak	e	None	T3	S3	1B.2	
Lampetra	western brook		McWhinney	Non		G4	S3		
richardsoni	lamprey	2	Creek	e	None	G5	S4		SSC
Lampetra	western brook		Fields	Non		G4	S3		
richardsoni	lamprey	4	Landing	e	None	G5	S4		SSC
Lampetra	western brook			Non		G4	S3		
richardsoni	lamprey	1	Arcata South	e	None	G5	S4		SSC
Lasiurus				Non		G3			
cinereus	hoary bat	29	Ferndale	e	None	G4	S4		
Lathyrus				Non					
japonicus	seaside pea	1	Eureka	e	None	G5	S2	2B.1	
				Thre					
			Fields	aten	Endang				
Layia carnosa	beach layia	27	Landing	ed	ered	G2	S2	1B.1	
				End					
Lilium				ange	Endang	G1			
occidentale	western lily	18	Arcata South	red	ered	G2	S1	1B.1	
				End					
Lilium			Fields	ange	Endang	G1			
occidentale	western lily	24	Landing	red	ered	G2	S1	1B.1	
				End					
Lilium			Cannibal	ange	Endang	G1			
occidentale	western lily	22	Island	red	ered	G2	S1	1B.1	
				End					
Lilium			Fields	ange	Endang	G1			
occidentale	western lily	21	Landing	red	ered	G2	S1	1B.1	
				End					
Lilium			Fields	ange	Endang	G1			
occidentale	western lily	32	Landing	red	ered	G2	S1	1B.1	

1.00			r: . l.d.	End	C. d	C1		
Lilium occidentale	wostorn lily	10	Fields	ange	Endang ered	G1 G2	<b>S1</b>	1B.1
occidentale	western lily	10	Landing	red End	ereu	GZ	31	1D.1
Lilium				ange	Endang	G1		
occidentale	western lily	14	Arcata South	red	ered	G2	S1	1B.1
occidentale	Westerning		7 ii cata soutii	End	crea		<u> </u>	
Lilium			Fields	ange	Endang	G1		
occidentale	western lily	4	Landing	red	ered	G2	<b>S1</b>	1B.1
Lycopodium	•			Non				
clavatum	running-pine	116	Redcrest	e	None	G5	S3	4.1
Lycopodium				Non				
clavatum	running-pine	119	Redcrest	е	None	G5	S3	4.1
Lycopodium				Non				
clavatum	running-pine	118	Redcrest	e	None	G5	S3	4.1
Lycopodium				Non				
clavatum	running-pine	117	Redcrest	е	None	G5	S3	4.1
Lycopodium				Non				
clavatum	running-pine	23	Redcrest	е	None	G5	S3	4.1
Lycopodium			McWhinney	Non				
clavatum	running-pine	79	Creek	e	None	G5	S3	4.1
Lycopodium		67	Janua Duttas	Non	Nana	CF	ca	4.1
clavatum	running-pine	67	laqua Buttes	e Na:	None	G5	S3	4.1
Lycopodium clavatum	running-pine	65	McWhinney Creek	Non e	None	G5	S3	4.1
Lycopodium	rummig-pine	03	McWhinney	Non	None	<u>G3</u>	33	4.1
clavatum	running-pine	66	Creek	e	None	G5	S3	4.1
Lycopodium	ranning pine	- 00	McWhinney	Non	TVOTIC	- 05	- 55	7.1
clavatum	running-pine	68	Creek	e	None	G5	S3	4.1
Lycopodium			McWhinney	Non				
clavatum	running-pine	61	Creek	e	None	G5	S3	4.1
Lycopodium	<u> </u>		McWhinney	Non				
clavatum	running-pine	62	Creek	e	None	G5	<b>S</b> 3	4.1
Lycopodium			McWhinney	Non				
clavatum	running-pine	64	Creek	e	None	G5	S3	4.1
Lycopodium				Non				-
clavatum	running-pine	35	laqua Buttes	е	None	G5	S3	4.1
Lycopodium			McWhinney	Non				
clavatum	running-pine	59	Creek	е	None	G5	S3	4.1
Lycopodium				Non				
clavatum	running-pine	56	Hydesville	е	None	G5	S3	4.1
Lycopodium				Non				
clavatum	running-pine	55	Hydesville	e	None	G5	S3	4.1
Lycopodium		60	McWhinney	Non	NI	<b>6</b> 5	63	4.4
clavatum	running-pine	60	Creek	e Nan	None	G5	S3	4.1
Lycopodium	running ning	ΕO	McWhinney	Non	None	C.F.	ca	4.1
clavatum	running-pine	58	Creek	е	None	G5	S3	4.1

Lycopodium			McWhinney	Non					
clavatum	running-pine	57	Creek	e	None	G5	S3	4.1	
Lycopodium				Non					
clavatum	running-pine	53	Scotia	е	None	G5	S3	4.1	
Lycopodium				Non					
clavatum	running-pine	54	Scotia	e	None	G5	<b>S3</b>	4.1	
Lycopodium			McWhinney	Non					
clavatum	running-pine	34	Creek	e	None	G5	<b>S3</b>	4.1	
Lycopodium				Non					
clavatum	running-pine	30	Owl Creek	e	None	G5	<b>S3</b>	4.1	
Lycopodium				Non					
clavatum	running-pine	33	<b>laqua Buttes</b>	e	None	G5	S3	4.1	
Lycopodium				Non					
clavatum	running-pine	24	Redcrest	e	None	G5	S3	4.1	
Lycopodium				Non					
clavatum	running-pine	26	Redcrest	e	None	G5	S3	4.1	
Lycopodium	0 1			Non					
clavatum	running-pine	29	Owl Creek	e	None	G5	S3	4.1	
Lycopodium	0.1			Non					
clavatum	running-pine	32	laqua Buttes	е	None	G5	S3	4.1	
Lycopodium	- 61			Non					
clavatum	running-pine	27	Owl Creek	e	None	G5	S3	4.1	
Lycopodium				Non					
clavatum	running-pine	28	Owl Creek	e	None	G5	S3	4.1	
Lycopodium				Non					
clavatum	running-pine	25	Redcrest	e	None	G5	S3	4.1	
Lycopodium				Non					
clavatum	running-pine	31	Owl Creek	e	None	G5	S3	4.1	
Lycopodium	ranning pine		o iii oi ceit	Non	110110				
clavatum	running-pine	22	Bridgeville	e	None	G5	S3	4.1	
Margaritifera	western		Fields	Non	110110	G4	S1		
falcata	pearlshell	83	Landing	e	None	G5	S2		
Martes	pearionen		24.14.118		110110				
caurina				Thre		G4			
humboldtensi	Humboldt			aten	Endang	G5			
S	marten	28	Owl Creek	ed	ered	T1	S1		SSC
Martes	marten		OWICICER	<u> </u>	Crea				
caurina				Thre		G4			
humboldtensi	Humboldt			aten	Endang	G5			
S	marten	29	Hydesville	ed	ered	T1	<b>S1</b>		SSC
Mitellastra	leafy-stemmed		Tyacsviic	Non	C. Cu		<u> </u>		
caulescens	mitrewort	11	laqua Buttes	e	None	G5	<b>S</b> 4	4.2	
Montia	Howell's	11	Fields	Non	140116	G3	J <del>-1</del>	7.4	
howellii	montia	49	Landing	e	None	G4	S2	2B.2	
Montia	Howell's	77	Lanung	Non	INOTIC	G3	JZ	۷۵.۷	
howellii	montia	15	Owl Creek	e	None	G3 G4	S2	2B.2	
HOWEIIII	попиа	10	OWI CIEEK	<b>c</b>	INOTIC	U4	3۷	۷۵.۷	

Montia	Mantin	Hamalla			Nan				
Montia   Howell's   montia   19   Scotia   e   None   G3     S2   2B.2   Montia   Howellis   montia   12   Redcrest   e   None   G4   S2   2B.2   Montia   Howellis   montia   12   Redcrest   e   None   G4   S2   2B.2   Montia   Howellis   montia   45   Hydesville   e   None   G4   S2   2B.2   Montia   Howellis   montia   40   Scotia   e   None   G4   S2   2B.2   Montia   Howellis   montia   40   Scotia   e   None   G4   S2   2B.2   Montia   Howellis   montia   22   Redcrest   e   None   G4   S2   2B.2   Montia   Howell's   montia   35   laqua Buttes   e   None   G4   S2   2B.2   Montia   Howellis   montia   48   Landing   e   None   G4   S2   2B.2   Montia   Howellis   montia   48   Landing   e   None   G4   S2   2B.2   Montia   Howellis   montia   48   Landing   e   None   G4   S2   2B.2   Montia   Howellis   montia   48   Landing   e   None   G4   S2   2B.2   Montia   Howellis   montia   48   Landing   e   None   G4   S2   2B.2   Montia   Howellis   montia   10   Redcrest   e   None   G4   S2   2B.2   Montia   Howellis   montia   10   Redcrest   e   None   G4   S2   2B.2   Montia   Howellis   montia   11   Redcrest   e   None   G4   S2   2B.2   Montia   Howellis   montia   11   Redcrest   e   None   G4   S2   2B.2   Montia   Howellis   montia   11   Redcrest   e   None   G4   S2   2B.2   Montia   Howellis   montia   10   Scotia   e   None   G4   S2   2B.2   Montia   Howellis   montia   10   Creek   e   None   G4   S2   2B.2   Montia   Howellis   montia   10   Creek   e   None   G4   S2   2B.2   Montia   Howellis   montia   118   Owl Creek   e   None   G4   S2   2B.2   Montia   Howellis   montia   118   Owl Creek   e   None   G4   S2   2B.2   Montia   Howellis   montia   118   Owl Creek   e   None   G4   S2   2B.2   Montia   Howellis   montia   118   Owl Creek   e   None   G4   S2   2B.2   Montia   Howellis   montia   127   Creek   e   None   G4   S2   2B.2   Montia   Howellis   montia   127   Creek   e   None   G4   S2   2B.2   Montia   Howellis   montia   129   Owl Creek   e   None   G4   S2   2B.2   Monti	Montia	Howell's	4.4	0 101	Non	<b>N</b> 1	G3	62	20.2
Nowellii			14	Owi Creek		None		52	2B.2
Montia   Howell's   Non   Montia   Howell's   Non   Montia   Howell's   Montia   Howell's   Non   Montia   Howell's   Montia   Howell's   Non   Montia   Howell's   Montia   Howell's   Montia   Howell's   Non   Montia   Howell's   Montia   Howell's   Non   Montia   Howell's   Montia   Howell's   Non   Montia   Howell's			40	6				60	20.2
Nowellii			19	Scotia		None		52	2B.2
Montia   Howell's   Mont									
Nowellii			12	Redcrest		None		S2	2B.2
Montia   Howell's   Mont					Non				
Nowellii			45	Hydesville		None		S2	2B.2
Montia   Howell's   montia   22   Redcrest   e   None   G4   S2   2B.2					Non				
howellii         montia         22         Redcrest         e         None         G4         S2         2B.2           Montia         Howell's         Fields         Non         G3         G4         S2         2B.2           Montia         Howell's         Fields         Non         G3         None         G4         S2         2B.2           Montia         Howell's         Non         G3         None         G4         S2         2B.2           Montia         Howell's<			40	Scotia		None		S2	2B.2
Montia   Howell's   Montia   Montia   Howell's   Fields   Non   G3   S2   ZB.2		Howell's			Non				
howellii         montia         35         laqua Buttes         e         None         G4         S2         2B.2           Montia         Howell's         Fields         Non         G3         Howell's           Montia         Howell's         Non         G3         Howell's           Mowellii         montia         30         Owl Creek         e         None         G4         S2         2B.2           Montia         Howell's         Non         G3         Howell's         Non         G3         Howell's           Mowellii         montia         120         Scotia         e         None         G4         S2         2B.2           Montia         Howell's         McWhinney         Non         G3         Howell's         G3         Howell's	howellii	montia	22	Redcrest	е	None	G4	S2	2B.2
Montia					Non				
howellii         montia         48         Landing         e         None         G4         S2         2B.2           Montia         Howell's         76         Scotia         e         None         G4         S2         2B.2           Montia         Howell's         Non         G3         Howell's         S2         2B.2           Montia         Howell's         Non         G3         S2         2B.2           Montia         Howell's         McWhinney         Non         G3         S2         2B.2           Montia         Howell's         McWhinney         Non         G3         S2         2B.2           Montia         Howell's         Non         G3         S2         2B.2           Montia         Howell's         Non         G3         S2         2B.2	howellii	montia	35	Iaqua Buttes	е	None	G4	S2	2B.2
Montia	Montia	Howell's		Fields	Non		G3		
howellii         montia         76         Scotia         e         None         G4         \$2         2B.2           Montia         Howell's         Non         G3         None         G4         \$2         2B.2           Montia         Howell's         Non         G3         S2         2B.2           Montia         Howell's         Non         G3         S2         2B.2           Montia         Howell's         Non         G3         None         G4         \$2         2B.2           Montia         Howell's         Non         G3         None         G4         \$2         2B.2           Montia         Howell's         Non         G3         None         G4         \$2         2B.2           Montia         Howell's         McWhinney         Non         G3         None         G4         \$2         2B.2           Montia         Howell's         McWhinney         Non         G3         None         G3         None         G4         \$2         2B.2           Montia         Howell's         Non         G3         None         G3         None         G4         \$2         2B.2           Montia<	howellii	montia	48	Landing	е	None	G4	S2	2B.2
Montia	Montia	Howell's			Non		G3		
howellii         montia         10         Redcrest         e         None         G4         S2         2B.2           Montia         Howell's         Non         G3         None         G4         S2         2B.2           Montia         Howell's         McWhinney         Non         G3         None         G4         S2         2B.2           Montia         Howell's         McWhinney         Non         G3         None         G4         S2         2B.2           Montia         Howell's         Non         G3         None         G4         S2         2B.2           Montia         Howell's         Non         G3         None         G4         S2         2B.2           Montia         Howell's         McWhinney         Non         G3         None         G4         S2         2B.2	howellii	montia	76	Scotia	e	None	G4	S2	2B.2
Montia         Howell's montia         11         Redcrest         e         None         G4         S2         2B.2           Montia         Howell's montia         30         Owl Creek         e         None         G4         S2         2B.2           Montia         Howell's montia         120         Scotia         e         None         G4         S2         2B.2           Montia         Howell's montia         107         Creek         e         None         G4         S2         2B.2           Montia         Howell's montia         107         Creek         e         None         G4         S2         2B.2           Montia         Howell's montia         118         Owl Creek         e         None         G4         S2         2B.2           Montia         Howell's montia         83         Redcrest         e         None         G4         S2         2B.2           Montia         Howell's montia         127         Creek         e         None         G4         S2         2B.2           Montia         Howell's montia         119         Owl Creek         e         None         G4         S2         2B.2	Montia	Howell's			Non		G3		
howellii         montia         11         Redcrest         e         None         G4         S2         2B.2           Montia         Howell's         Non         G3         None         G4         S2         2B.2           Montia         Howell's         Non         G3         None         G4         S2         2B.2           Montia         Howell's         McWhinney         Non         G3         None         G4         S2         2B.2           Montia         Howell's         McWhinney         Non         G3         None         G4         S2         2B.2           Montia         Howell's         McWhinney         Non         G3         None         G4         S2         2B.2           Montia         Howell's         McWhinney         Non         G3         None         G4         S2	howellii	montia	10	Redcrest	e	None	G4	S2	2B.2
Montia         Howell's         Non         G3           howellii         montia         30         Owl Creek         e         None         G4         \$2         2B.2           Montia         Howell's         Non         G3         Howell's         McWhinney         Non         G3         Howel	Montia	Howell's			Non		G3		
howellii         montia         30         Owl Creek         e         None         G4         S2         2B.2           Montia         Howell's         Non         G3         Howell's         None         G4         S2         2B.2           Montia         Howell's         McWhinney         Non         G3         Howell's         None         G4         S2         2B.2           Montia         Howell's         Non         G3         Howell's         None         G4         S2         2B.2           Montia         Howell's         Non         G3         Howell's         None         G4         S2         2B.2           Montia         Howell's         Non         G3         Howell's         None         G4         S2         2B.2           Montia         Howell's         McWhinney         Non         G3         Howell's         None         G4         S2         2B.2           Montia         Howell's         McWhinney         Non         G3         Howell's         S2         2B.2           Montia         Howell's         Non         G3         Howell's         None         G4         S2         2B.2           Monti	howellii	montia	11	Redcrest	e	None	G4	S2	2B.2
Montia         Howell's montia         120         Scotia         e         None         G3           howellii         montia         120         Scotia         e         None         G4         S2         2B.2           Montia         Howell's         McWhinney         Non         G3         Howell's         None         G4         S2         2B.2           Montia         Howell's         Non         G3         Howell's         None         G4         S2         2B.2           Montia         Howell's         Non         G3         Howell's         None         G4         S2         2B.2           Montia         Howell's         McWhinney         Non         G3         Howell's         None         G4         S2         2B.2           Montia         Howell's         McWhinney         Non         G3         Howell's         None         G4         S2         2B.2           Montia         Howell's         Non         G3         Howell's         None         G4         S2         2B.2           Montia         Howell's         Non         G3         Howell's         None         G4         S2         2B.2           Mon	Montia	Howell's			Non		G3		
howellii         montia         120         Scotia         e         None         G4         S2         2B.2           Montia         Howelli's         McWhinney         Non         G3         Howelli           howellii         montia         107         Creek         e         None         G4         S2         2B.2           Montia         Howelli's         Non         G3         Howelli's         None         G4         S2         2B.2           Montia         Howell's         Non         G3         Howelli's         None         G3         Howelli's         S2         2B.2           Montia         Howell's         McWhinney         Non         G3         Howelli's         G4         S2         2B.2           Montia         Howell's         McWhinney         Non         G3         Howell's         G4         S2         2B.2           Montia         Howell's         Non         G3         S2         2B.2         2B.2           Montia         Howell's         Non         G3         S2         2B.2         2B.2           Montia         Howell's         Non         G3         S2         2B.2         2B.2      <	howellii	montia	30	Owl Creek	e	None	G4	S2	2B.2
Montia         Howell's         McWhinney         Non         G3           howellii         montia         107         Creek         e         None         G4         S2         2B.2           Montia         Howell's         Non         G3         Howell's         None         G4         S2         2B.2           Montia         Howell's         Non         G3         Howell's         None         G4         S2         2B.2           Montia         Howell's         McWhinney         Non         G3         Howell's         None         G4         S2         2B.2           Montia         Howell's         Non         G3         Howell's         None         G4         S2         2B.2           Montia         Howell's         Non         G3         Howell's         None         G4         S2         2B.2           Montia         Howell's         Non         G3         Howell's         None         G4         S2         2B.2           Montia         Howell's         Non         G3         S2         2B.2           Montia         Howell's         Non         G3         S2         2B.2           Montia	Montia	Howell's			Non		G3		
howellii         montia         107         Creek         e         None         G4         S2         2B.2           Montia         Howell's         Non         G3           howellii         montia         118         Owl Creek         e         None         G4         S2         2B.2           Montia         Howell's         Non         G3         None         G4         S2         2B.2           Montia         Howell's         McWhinney         Non         G3         None         G4         S2         2B.2           Montia         Howell's         Non         G3         N	howellii	montia	120	Scotia	e	None	G4	S2	2B.2
Montia howelliiHowell's montia118Owl CreekeNonG3Montia howelliiHowell's montia83Redcrest McWhinneyeNone Mone McWhinneyG3Montia howelliiHowell's montiaMcWhinney McWhinneyNon McWhinneyG3Montia howelliiHowell's montiaNon McWhinneyG4 McWhinneyS2 Mone McWhinneyMontia howelliiHowell's montiaNon McWhinneyG3 Mone McWhinneyMontia howelliiHowell's montiaNon McWhinneyNon McWhinney McWhinneyMontia howelliiHowell's montiaNon McWhinney 	Montia	Howell's		McWhinney	Non		G3		
Montia howelliiHowell's montia118Owl CreekeNonG3Montia howelliiHowell's montia83Redcrest McWhinneyeNone Mone McWhinneyG3Montia howelliiHowell's montiaMcWhinney McWhinneyNon McWhinneyG3Montia howelliiHowell's montiaNon McWhinneyG4 McWhinneyS2 Mone McWhinneyMontia howelliiHowell's montiaNon McWhinneyG3 Mone McWhinneyMontia howelliiHowell's montiaNon McWhinneyNon McWhinney McWhinneyMontia howelliiHowell's montiaNon McWhinney 	howellii	montia	107	Creek	e	None	G4	S2	2B.2
howelliimontia118Owl CreekeNoneG4S22B.2MontiaHowell'sNoneG3S22B.2MontiaHowell'sMcWhinneyNoneG3S22B.2MontiaHowellisMcWhinneyNoneG4S22B.2MontiaHowell'sNoneG4S22B.2MontiaHowell'sNoneG4S22B.2MontiaHowell'sNoneG4S22B.2MontiaHowell'sNoneG4S22B.2MontiaHowell'sNoneG4S22B.2MontiaHowell'sNoneG4S22B.2MontiaHowell'sNoneG4S22B.2MontiaHowell'sNoneG4S22B.2MontiaHowell'sNoneG4S22B.2MontiaHowell'sNoneG4S22B.2MontiaHowell'sNoneG4S22B.2MontiaHowell'sNoneG4S22B.2	Montia	Howell's			Non		G3		
howelliimontia83RedcresteNoneG4S22B.2MontiaHowell'sMcWhinneyNonG3howelliimontia127CreekeNoneG4S22B.2MontiaHowell'sNonG3howelliimontia119Owl CreekeNoneG4S22B.2MontiaHowell'sNonG3howelliimontia92laqua ButteseNoneG4S22B.2MontiaHowell'sNonG3howelliimontia63Owl CreekeNoneG4S22B.2MontiaHowell'sNonG3howelliimontia46FerndaleeNoneG4S22B.2MontiaHowell'sNonG3howelliimontia32Owl CreekeNoneG4S22B.2MontiaHowell'sNonG3	howellii	montia	118	Owl Creek	e	None	G4	S2	2B.2
Montia howelliiHowell's montiaMcWhinney 127Non CreekG3 e NoneG4 G4 G3S2 G3 CREEK28.2 CREEKMontia howelliiHowell's montia119Owl Creek E Owl Creeke e None E None None G3 None G3G3 CREEKMontia howelliiHowell's montiaNone G3 CREEKG4 E None G4 CREEKS2 CREEK28.2 CREEKMontia howelliiHowell's montiaNone G4 A6G4 A7 A7 A7 A7 A7 A7 A7 A8 <br< td=""><td>Montia</td><td>Howell's</td><td></td><td></td><td>Non</td><td></td><td>G3</td><td></td><td></td></br<>	Montia	Howell's			Non		G3		
Montia howelliiHowell's montiaMcWhinney 127Non CreekG3 e NoneG4 G4 G3S2 G3 CREEK28.2 CREEKMontia howelliiHowell's montia119Owl Creek E Owl Creeke e None E None None G3 None G3G3 CREEKMontia howelliiHowell's montiaNone G3 CREEKG4 E None G4 CREEKS2 CREEK28.2 CREEKMontia howelliiHowell's montiaNone G4 A6G4 A7 A7 A7 A7 A7 A7 A7 A8 <br< td=""><td>howellii</td><td>montia</td><td>83</td><td>Redcrest</td><td>е</td><td>None</td><td>G4</td><td>S2</td><td>2B.2</td></br<>	howellii	montia	83	Redcrest	е	None	G4	S2	2B.2
howelliimontia127CreekeNoneG4S22B.2MontiaHowell'sNonG3howelliimontia119Owl CreekeNoneG4S22B.2MontiaHowell'sNonG3howelliimontia92Iaqua ButteseNoneG4S22B.2MontiaHowell'sNonG3howelliimontia63Owl CreekeNoneG4S22B.2MontiaHowell'sNonG3howelliimontia46FerndaleeNoneG4S22B.2MontiaHowell'sNonG3howelliimontia32Owl CreekeNoneG4S22B.2MontiaHowell'sNonG3	Montia						G3		
MontiaHowell'sNonG3howelliimontia119Owl CreekeNoneG4S22B.2MontiaHowell'sNonG3howelliimontia92laqua ButteseNoneG4S22B.2MontiaHowell'sNonG3howelliimontia63Owl CreekeNoneG4S22B.2MontiaHowell'sNonG3howelliimontia46FerndaleeNoneG4S22B.2MontiaHowell'sNonG3howelliimontia32Owl CreekeNoneG4S22B.2MontiaHowell'sNonG3			127	,		None		S2	2B.2
howelliimontia119Owl CreekeNoneG4S22B.2MontiaHowellisNoneG3S22B.2MontiaHowellisNoneG4S22B.2MontiaHowellisNoneG3S22B.2MontiaHowellisNoneG4S22B.2MontiaHowellisNoneG4S22B.2MontiaHowellisNoneG3S22B.2MontiaHowellisNoneG4S22B.2MontiaHowellisNoneG4S22B.2MontiaHowellisNoneG3S22B.2									
MontiaHowell'sNonG3howelliimontia92laqua ButteseNoneG4S22B.2MontiaHowell'sNonG3howelliimontia63Owl CreekeNoneG4S22B.2MontiaHowell'sNonG3howelliimontia46FerndaleeNoneG4S22B.2MontiaHowell'sNonG3howelliimontia32Owl CreekeNoneG4S22B.2MontiaHowell'sNonG3			119	Owl Creek		None		S2	2B.2
howelliimontia92laqua ButteseNoneG4S22B.2MontiaHowell'sNoneG3S22B.2MontiaHowell'sNoneG4S22B.2MontiaHowell'sNoneG3S22B.2MontiaHowell'sNoneG4S22B.2MontiaHowell'sNoneG3S22B.2MontiaHowell'sNoneG4S22B.2MontiaHowell'sNoneG3S22B.2				2					
MontiaHowell'sNonG3howelliimontia63Owl CreekeNoneG4S22B.2MontiaHowell'sNonG3howelliimontia46FerndaleeNoneG4S22B.2MontiaHowell'sNonG3howelliimontia32Owl CreekeNoneG4S22B.2MontiaHowell'sNonG3			92	lagua Buttes		None		<b>S</b> 2	2B.2
howelliimontia63Owl CreekeNoneG4S22B.2MontiaHowell'sNoneG3howelliimontia46FerndaleeNoneG4S22B.2MontiaHowell'sNonG3howelliimontia32Owl CreekeNoneG4S22B.2MontiaHowell'sNonG3			<u> </u>						
MontiaHowell'sNonG3howelliimontia46FerndaleeNoneG4S22B.2MontiaHowell'sNonG3howelliimontia32Owl CreekeNoneG4S22B.2MontiaHowell'sNonG3			63	Owl Creek		None		52	2B.2
howelliimontia46FerndaleeNoneG4S22B.2MontiaHowell'sNoneG3howelliimontia32Owl CreekeNoneG4S22B.2MontiaHowell'sNonG3			- 05	J W C C C C C		110110		- 52	
Montia howellis montiaHowell's 32Non e NoneG3 G4 G4S2 S2 SB.2MontiaHowell'sNonG3			46	Ferndale		None		52	2B 2
howelliimontia32Owl CreekeNoneG4S22B.2MontiaHowell'sNonG3			40	Terridate		NOHE		JZ	<u> </u>
Montia Howell's Non G3			27	Owl Creek		None		52	2B 2
			JL	OWI CIECK		INOTIC		J <u>Z</u>	LU.L
HOWCHII HIGHLIA SI OWI CIECK C NOTIC G4 32 ZB.Z			21	Owl Creek		None		52	2B 2
	HOWEIIII	IIIUIILIa	21	OWICIEEK	e	NOHE	04	32	<b>Δ</b> D. <b>Δ</b>

Montia	Howell's	0.4	D. d	Non	<b>N</b> 1	G3	62	20.2
howellii	montia	84	Redcrest	<u>е</u>	None	G4	S2	2B.2
Montia	Howell's	2.6		Non		G3	60	20.2
howellii	montia	36	laqua Buttes	e	None	G4	S2	2B.2
Montia	Howell's			Non		G3		
howellii	montia	41	Scotia	е	None	G4	S2	2B.2
Montia	Howell's			Non		G3		
howellii	montia	122	Redcrest	е	None	G4	S2	2B.2
Montia	Howell's			Non		G3		
howellii	montia	123	laqua Buttes	е	None	G4	S2	2B.2
Montia	Howell's			Non		G3		
howellii	montia	85	Redcrest	е	None	G4	S2	2B.2
Montia	Howell's			Non		G3		
howellii	montia	17	Owl Creek	е	None	G4	S2	2B.2
Montia	Howell's			Non		G3		
howellii	montia	28	Redcrest	е	None	G4	S2	2B.2
Montia	Howell's			Non		G3		
howellii	montia	42	Taylor Peak	е	None	G4	S2	2B.2
Montia	Howell's			Non		G3		
howellii	montia	95	Scotia	e	None	G4	S2	2B.2
Montia	Howell's			Non		G3		
howellii	montia	99	Scotia	e	None	G4	S2	2B.2
Montia	Howell's			Non		G3		
howellii	montia	29	Redcrest	е	None	G4	S2	2B.2
Montia	Howell's			Non		G3		
howellii	montia	113	laqua Buttes	e	None	G4	S2	2B.2
Montia	Howell's		•	Non		G3		
howellii	montia	82	Redcrest	e	None	G4	S2	2B.2
Montia	Howell's			Non		G3		
howellii	montia	94	Scotia	e	None	G4	S2	2B.2
Montia	Howell's			Non		G3		
howellii	montia	27	Redcrest	e	None	G4	S2	2B.2
Montia	Howell's			Non		G3		
howellii	montia	20	Scotia	е	None	G4	S2	2B.2
Montia	Howell's	-		Non		G3		
howellii	montia	43	Taylor Peak	е	None	G4	S2	2B.2
Montia	Howell's		.,	Non		G3		
howellii	montia	25	Bridgeville	e	None	G4	S2	2B.2
Montia	Howell's			Non		G3		
howellii	montia	34	laqua Buttes	e	None	G4	S2	2B.2
Montia	Howell's	<u> </u>	McWhinney	Non		G3		
howellii	montia	97	Creek	e	None	G4	S2	2B.2
Montia	Howell's		McWhinney	Non	110110	G3	<u> </u>	
howellii	montia	96	Creek	e	None	G4	S2	2B.2
Montia	Howell's	- 30	J. CCR	Non	110110	G3	- J_	
howellii	montia	55	Arcata South	e	None	G3 G4	S2	2B.2
HOWEIIII	monta	J.J.	Aicata Juutil	Ċ.	INOTIC	04	JZ	۷۵.۷

Montia	Howell's		McWhinney	Non		G3			
howellii	montia	68	Creek	е	None	G4	S2	2B.2	
Montia	Howell's		Fields	Non		G3			
howellii	montia	70	Landing	е	None	G4	S2	2B.2	
Montia	Howell's		Fields	Non		G3			
howellii	montia	53	Landing	е	None	G4	S2	2B.2	
	long-legged			Non		G4			
Myotis volans	myotis	44	Redcrest	е	None	G5	S3		
Myotis				Non					
yumanensis	Yuma myotis	35	Scotia	е	None	G5	S4		
Myotis				Non					
yumanensis	Yuma myotis	34	Redcrest	e	None	G5	S4		
Navarretia									_
leucocephala	Baker's		Yager	Non		G4			
ssp. bakeri	navarretia	68	Junction	e	None	T2	S2	1B.1	
Noccaea	Kneeland			End					
fendleri ssp.	Prairie			ange		G5?			
californica	pennycress	1	Iaqua Buttes	red	None	T1	<b>S1</b>	1B.1	
Northern	Northern								
Coastal Salt	Coastal Salt		Fields	Non			S3.		
Marsh	Marsh	42	Landing	e	None	G3	2		
Northern	Northern								
Coastal Salt	Coastal Salt			Non			S3.		
Marsh	Marsh	39	Eureka	e	None	G3	2		
Nycticorax	black-crowned		Cannibal	Non					
nycticorax	night heron	34	Island	e	None	G5	<b>S4</b>		
Nycticorax	black-crowned		Fields	Non					
nycticorax	night heron	28	Landing	e	None	G5	<b>S4</b>		
Nycticorax	black-crowned		Fields	Non					
nycticorax	night heron	5	Landing	e	None	G5	<b>S4</b>		
Oncorhynchus	coast cutthroat		Fields	Non		G5			
clarkii clarkii	trout	56	Landing	e	None	T4	<b>S3</b>		SSC
Oncorhynchus	coast cutthroat			Non		G5			
clarkii clarkii	trout	59	Arcata South	e	None	T4	<b>S3</b>		SSC
Oncorhynchus	coast cutthroat			Non		G5			
clarkii clarkii	trout	15	Arcata South	e	None	T4	<b>S3</b>		SSC
Oncorhynchus	coast cutthroat			Non		G5			
clarkii clarkii	trout	80	Owl Creek	е	None	T4	S3		SSC
Oncorhynchus	coast cutthroat		Fields	Non		G5			
clarkii clarkii	trout	55	Landing	e	None	T4	S3		SSC
Oncorhynchus	coast cutthroat			Non		G5			
clarkii clarkii	trout	42	Eureka	е	None	T4	S3		SSC
Oncorhynchus	coast cutthroat		<u> </u>	Non		G5			
clarkii clarkii	trout	13	Fortuna	e	None	T4	S3		SSC
	coho salmon -		<u>-</u>	Thre		G5			
Oncorhynchus	southern		Fields	aten	Threate	T2			
kisutch pop. 2	Oregon /	7	Landing	ed	ned	Q	S2		
	01	-			- <del></del>		<i>-</i> -		

	northern						
	California ESU						
	coho salmon -						
	southern						
	Oregon /			Thre		G5	
Oncorhynchus	northern			aten	Threate	T2	
kisutch pop. 2	California ESU	8	Arcata South	ed	ned	Q	S2
	coho salmon -						
	southern						
	Oregon /			Thre		G5	
Oncorhynchus	northern			aten	Threate	T2	
kisutch pop. 2	California ESU	10	Arcata South	ed	ned	Q	S2
	coho salmon -						<del>-</del>
	southern						
	Oregon /			Thre		G5	
Oncorhynchus	northern		Fields	aten	Threate	T2	
kisutch pop. 2	California ESU	6	Landing	ed	ned	Q	S2
Risuteri pop. 2	steelhead -		Landing	Cu	ricu	<u> </u>	<u> </u>
Oncorhynchus	northern			Thre		G5	
mykiss irideus	California DPS			aten	Endang	T2	
pop. 48		8	Blocksburg	ed	ered	Q	S2
pop. 46	summer-run steelhead -	0	Diocksburg	eu	ereu	ų_	32
Oncorbynobys				Thro		CE	
Oncorhynchus	northern			Thre	C.,	G5	
mykiss irideus	California DPS	2	Duidessille	aten	Endang	T2	<b>C</b> 2
pop. 48	summer-run	3	Bridgeville	ed	ered	Q	S2
	steelhead -						
Oncorhynchus	northern			Thre		G5	
mykiss irideus	California DPS	_	Mad River	aten	Endang	T2	
pop. 48	summer-run	2	Buttes	ed	ered	Q	S2
	steelhead -						
Oncorhynchus	northern			Thre		G5	
mykiss irideus	California DPS			aten	Endang	T2	
pop. 48	summer-run	5	Bridgeville	ed	ered	Q	S2
	steelhead -						
Oncorhynchus	northern			Thre		G5	
mykiss irideus	California DPS			aten		T3	
pop. 49	winter-run	19	Bridgeville	ed	None	Q	S3
	steelhead -						
Oncorhynchus	northern			Thre		G5	
mykiss irideus	California DPS			aten		T3	
pop. 49	winter-run	16	Fortuna	ed	None	Q	S3
	steelhead -						
Oncorhynchus	northern			Thre		G5	
mykiss irideus	California DPS			aten		T3	
pop. 49	winter-run	13	Arcata South	ed	None	Q	S3
							<del></del>

Oncorbynabys	steelhead - northern			Thro		CF		
Oncorhynchus mykiss irideus	California DPS			Thre aten		G5 T3		
pop. 49	winter-run	17	Redcrest	ed	None	Q	S3	
μορ. 49	steelhead -	1/	Reuciest	eu	None	ų .	33	_
Oncorbynchus	northern			Thro		CE		
Oncorhynchus				Thre		G5		
mykiss irideus	California DPS	26	Tandan Baali	aten	Mana	T3	63	
pop. 49	winter-run	36	Taylor Peak	ed	None	Q	S3	
•	steelhead -					0.5		
Oncorhynchus	northern			Thre		G5		
mykiss irideus	California DPS		McWhinney	aten		T3		
pop. 49	winter-run	14	Creek	ed	None	Q	S3	
	steelhead -							
Oncorhynchus	northern			Thre		G5		
mykiss irideus	California DPS			aten		T3		
pop. 49	winter-run	40	Honeydew	ed	None	Q	S3	
	steelhead -							
Oncorhynchus	northern			Thre		G5		
mykiss irideus	California DPS			aten		T3		
pop. 49	winter-run	18	Taylor Peak	ed	None	Q	S3	
	steelhead -							
Oncorhynchus	northern			Thre		G5		
mykiss irideus	California DPS		Showers	aten		Т3		
pop. 49	winter-run	11	Mtn.	ed	None	Q	<b>S3</b>	
	steelhead -							
Oncorhynchus	northern			Thre		G5		
mykiss irideus	California DPS		Fields	aten		T3		
pop. 49	winter-run	15	Landing	ed	None	Q	S3	
	chinook							
Oncorhynchus	salmon -			Thre		G5		
tshawytscha	California			aten		T2		
pop. 17	coastal ESU	1	Owl Creek	ed	None	Q	S2	
Packera								
bolanderi var.	seacoast			Non		G4	S2	
bolanderi	ragwort	62	Owl Creek	е	None	T4	S3	2B.2
Packera								
bolanderi var.	seacoast			Non		G4	S2	
bolanderi	ragwort	59	Owl Creek	e	None	T4	S3	2B.2
Packera	. ~ 6 0.1		J.I. CICCK			. T		
bolanderi var.	seacoast			Non		G4	S2	
bolanderi bolanderi	ragwort	12	Owl Creek	e	None	T4	S3	2B.2
Packera	. 45**01 (	14	OW CICCK		140110	1-7		
bolanderi var.	seacoast			Non		G4	S2	
bolanderi	ragwort	19	Scotia	e	None	T4	32 S3	2B.2
Packera	iagwoit	13	Jeotia		NOTIE	14	J.J.	۷۵،۷
bolanderi var.	ceaceact			Non		G4	S2	
bolanderi var. bolanderi	seacoast	54	Scotia		None	G4 T4	S2 S3	2B.2
Dolanuem	ragwort	J4	JULIA	е	None	14	აა	ZD.Z

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Packera								
bolanderi var.	seacoast			Non		G4	S2	
bolanderi	ragwort	11	Scotia	e	None	T4	S3	2B.2
Packera								
bolanderi var.	seacoast			Non		G4	S2	
bolanderi	ragwort	55	Redcrest	e	None	T4	<b>S</b> 3	2B.2
Packera								
bolanderi var.	seacoast			Non		G4	S2	
bolanderi	ragwort	35	Redcrest	e	None	T4	<b>S</b> 3	2B.2
Packera								
bolanderi var.	seacoast			Non		G4	S2	
bolanderi	ragwort	76	Redcrest	e	None	T4	<b>S</b> 3	2B.2
Packera								
bolanderi var.	seacoast			Non		G4	S2	
bolanderi	ragwort	73	Redcrest	e	None	T4	<b>S3</b>	2B.2
Packera								
bolanderi var.	seacoast			Non		G4	S2	
bolanderi	ragwort	42	Owl Creek	e	None	T4	<b>S</b> 3	2B.2
Packera								
bolanderi var.	seacoast			Non		G4	S2	
bolanderi	ragwort	63	laqua Buttes	e	None	T4	<b>S3</b>	2B.2
Packera			,					,
bolanderi var.	seacoast			Non		G4	S2	
bolanderi	ragwort	2	Redcrest	e	None	T4	<b>S</b> 3	2B.2
Packera								
bolanderi var.	seacoast			Non		G4	S2	
bolanderi	ragwort	58	Owl Creek	e	None	T4	S3	2B.2
Packera								
bolanderi var.	seacoast			Non		G4	S2	
bolanderi	ragwort	40	Owl Creek	e	None	T4	<b>S3</b>	2B.2
Packera								
bolanderi var.	seacoast			Non		G4	S2	
bolanderi	ragwort	14	Owl Creek	e	None	T4	<b>S</b> 3	2B.2
Packera								
bolanderi var.	seacoast			Non		G4	S2	
bolanderi	ragwort	70	Owl Creek	e	None	T4	<b>S</b> 3	2B.2
Packera								
bolanderi var.	seacoast			Non		G4	S2	
bolanderi	ragwort	61	Owl Creek	e	None	T4	S3	2B.2
Packera								
bolanderi var.	seacoast			Non		G4	S2	
bolanderi	ragwort	69	<b>laqua Buttes</b>	e	None	T4	<b>S</b> 3	2B.2
Packera								
bolanderi var.	seacoast			Non		G4	<b>S2</b>	
bolanderi	ragwort	68	Owl Creek	е	None	T4	S3	2B.2
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Packera								
bolanderi var.	seacoast			Non		G4	S2	
bolanderi	ragwort	66	Scotia	е	None	T4	S3	2B.2
Packera								
bolanderi var.	seacoast			Non		G4	S2	
bolanderi	ragwort	39	Owl Creek	е	None	T4	S3	2B.2
Packera								
bolanderi var.	seacoast			Non		G4	S2	
bolanderi	ragwort	67	Owl Creek	е	None	T4	S3	2B.2
Packera								
bolanderi var.	seacoast			Non		G4	S2	
bolanderi	ragwort	60	Owl Creek	е	None	T4	S3	2B.2
Packera								
bolanderi var.	seacoast			Non		G4	S2	
bolanderi	ragwort	37	Taylor Peak	е	None	T4	S3	2B.2
Packera	<u> </u>	-	,					
bolanderi var.	seacoast			Non		G4	S2	
bolanderi	ragwort	56	Redcrest	e	None	T4	S3	2B.2
Packera	14811011		ricuo. est		110110			25.2
bolanderi var.	seacoast			Non		G4	S2	
bolanderi	ragwort	57	Owl Creek	e	None	T4	S3	2B.2
Packera	ragwort		OWICICER		HOHE		- 55	20.2
bolanderi var.	seacoast			Non		G4	S2	
bolanderi bolanderi	ragwort	36	Scotia	e	None	T4	S3	2B.2
Packera	ragwort	30	Scotia		NOTIC	14	33	20.2
bolanderi var.	seacoast			Non		G4	S2	
bolanderi		9	Redcrest		None	T4	S3	2B.2
Packera	ragwort	9	Reuciest	е	None	14	33	ZD.Z
bolanderi var.	cooccet			Non		C1	<b>S2</b>	
bolanderi bolanderi	seacoast	24	Dadarast		None	G4		20.2
	ragwort	34	Redcrest	е	None	T4	S3	2B.2
Packera				NI		C 4	63	
bolanderi var.	seacoast	F2	Castia	Non	NIa	G4	S2	20.2
bolanderi	ragwort	53	Scotia	е	None	T4	S3	2B.2
Packera						<b>6</b> 4	60	
bolanderi var.	seacoast	2.2		Non		G4	S2	25.2
bolanderi	ragwort	38	Taylor Peak	е	None	T4	S3	2B.2
Packera								
bolanderi var.	seacoast	ē -		Non		G4	S2	
bolanderi	ragwort	41	Owl Creek	е	None	T4	S3	2B.2
Packera								
bolanderi var.	seacoast			Non		G4	S2	
bolanderi	ragwort	43	Hydesville	е	None	T4	S3	2B.2
Packera								
bolanderi var.	seacoast			Non		G4	S2	
bolanderi	ragwort	44	Hydesville	е	None	T4	S3	2B.2
	-							

Packera									
bolanderi var.	seacoast			Non		G4	S2		
bolanderi	ragwort	20	Hydesville	e	None	T4	<b>S</b> 3	2B.2	
Pandion			Fields	Non					
haliaetus	osprey	85	Landing	e	None	G5	<b>S4</b>		WL
Pandion			Fields	Non					
haliaetus	osprey	89	Landing	e	None	G5	<b>S4</b>		WL
Pandion			Fields	Non					
haliaetus	osprey	352	Landing	e	None	G5	<b>S4</b>		WL
Pandion			Fields	Non					
haliaetus	osprey	90	Landing	е	None	G5	S4		WL
Pandion			McWhinney	Non					
haliaetus	osprey	321	Creek	е	None	G5	S4		WL
Pandion			Fields	Non					
haliaetus	osprey	322	Landing	e	None	G5	S4		WL
Pandion			McWhinney	Non					
haliaetus	osprey	288	Creek	e	None	G5	S4		WL
Pandion			McWhinney	Non					
haliaetus	osprey	287	Creek	е	None	G5	S4		WL
Pandion			McWhinney	Non					
haliaetus	osprey	289	Creek	е	None	G5	S4		WL
Pandion			McWhinney	Non					
haliaetus	osprey	290	Creek	е	None	G5	S4		WL
Pandion			Fields	Non					
haliaetus	osprey	263	Landing	е	None	G5	S4		WL
Pandion			McWhinney	Non					
haliaetus	osprey	259	Creek	е	None	G5	S4		WL
Pandion			McWhinney	Non					
haliaetus	osprey	262	Creek	е	None	G5	S4		WL
Pandion			McWhinney	Non					
haliaetus	osprey	260	Creek	e	None	G5	S4		WL
Pandion		224	McWhinney	Non					
haliaetus	osprey	261	Creek	e	None	G5	S4		WL
Pandion		470	Fields	Non		0.5			
haliaetus	osprey	178	Landing	e	None	G5	S4		WL
Pandion		250	Fields	Non	Nama	C.F.	C 4		14/1
haliaetus	osprey	258	Landing	e	None	G5	S4		WL
Pandion		252	Fields	Non	Nana	C.F.	C 4		14/1
haliaetus	osprey	253	Landing	e Na:	None	G5	S4		WL
Pandion	ocnro.	257	Fields	Non	None	CF	C A		14/1
haliaetus	osprey	257	Landing	e Non	None	G5	S4		WL
Pandion haliaetus	ocnrov	246	Fields	Non	None	C.E.	C/I		WL
-	osprey	240	Landing Fields	e Non	None	G5	S4		VVL
Pandion haliaetus	ocnrey	245	Landing	Non	None	GE	<b>S</b> 4		۱۸/۱
Pandion	osprey	243	Fields	e Non	None	G5	34		WL
haliaetus	osnrev	248	Landing		None	G5	<b>S</b> 4		WL
iiaiiaetus	osprey	240	Lanung	е	INOTIE	33	J4		VV L

Pandion									
Pandion			254				05		
Pandion		osprey	251			None	G5	54	WL
Pandion			252				0.5		
Maliaetus		osprey	252			None	G5	54	WL
Pandion									
haliaetus         osprey         247         Landing         e         None         G5         S4         WL           Pandion         Fields         Non         Handing         e         None         G5         S4         WL           Pandion         Fields         Non         Handing         e         None         G5         S4         WL           Pandion         Fields         Non         Handing         e         None         G5         S4         WL           Pandion         Fields         Non         Handing         e         None         G5         S4         WL           Pandion         Fields         Non         Handing         e         None         G5         S4         WL           Pandion         Fields         Non         Fields         None         G5         S4         WL           Pandion         Fields         Non         G5 <td< td=""><td></td><td>osprey</td><td>244</td><td></td><td></td><td>None</td><td>G5</td><td>S4</td><td>WL</td></td<>		osprey	244			None	G5	S4	WL
Pandion haliaetus         osprey         249 Landing e None G5 S4         WL           Pandion haliaetus         osprey         250 Landing e None G5 S4         WL           Pandion haliaetus         osprey         250 Landing e None G5 S4         WL           Pandion haliaetus         osprey         243 Landing e None G5 S4         WL           Pandion haliaetus         osprey         242 Landing e None G5 S4         WL           Pandion haliaetus         osprey         242 Landing e None G5 S4         WL           Pandion haliaetus         osprey         239 Landing e None G5 S4         WL           Pandion haliaetus         osprey         237 Landing e None G5 S4         WL           Pandion haliaetus         osprey         231 Landing e None G5 S4         WL           Pandion haliaetus         osprey         231 Landing e None G5 S4         WL           Pandion haliaetus         osprey         238 Landing e None G5 S4         WL           Pandion haliaetus         osprey         238 Landing e None G5 S4         WL           Pandion haliaetus         osprey         236 Landing e None G5 S4         WL           Pandion haliaetus         osprey         236 Landing e None G5 S4         WL           Pandion haliaetus         osprey         87 L									
haliaetus         osprey         249         Landing         e         None         G5         S4         WL           Pandion         Fields         Non         None         G5         S4         WL           Pandion         Fields         None         G5         S4         WL           Pandion         Fields         None         G5         S4         WL <td></td> <td>osprey</td> <td>247</td> <td></td> <td></td> <td>None</td> <td>G5</td> <td>S4</td> <td>WL</td>		osprey	247			None	G5	S4	WL
Pandion haliaetus					Non				
haliaetus         osprey         250         Landing         e         None         G5         S4         WL           Pandion         Fields         Non         None         G5 </td <td></td> <td>osprey</td> <td>249</td> <td></td> <td></td> <td>None</td> <td>G5</td> <td>S4</td> <td>WL</td>		osprey	249			None	G5	S4	WL
Pandion haliaetus osprey	Pandion			Fields	Non				
haliaetus         osprey         243         Landing         e         None         G5         S4         WL           Pandion haliaetus         osprey         242         Landing         e         None         G5         S4         WL           Pandion haliaetus         osprey         239         Landing         e         None         G5         S4         WL           Pandion haliaetus         osprey         237         Landing         e         None         G5         S4         WL           Pandion haliaetus         osprey         241         Landing         e         None         G5         S4         WL           Pandion haliaetus         osprey         238         Landing         e         None         G5         S4         WL           Pandion haliaetus         osprey         235         Hydesville         e         None         G5         S4         WL           Pandion haliaetus         osprey         235         Hydesville         e         None         G5         S4         WL           Pandion haliaetus         osprey         93         Landing         e         None         G5         S4         WL           P	haliaetus	osprey	250	Landing	е	None	G5	S4	WL
Pandion haliaetus	Pandion			Fields	Non				
haliaetus         osprey         242         Landing         e         None         G5         S4         WL           Pandion haliaetus         osprey         239         Landing         e         None         G5         S4         WL           Pandion haliaetus         osprey         237         Landing         e         None         G5         S4         WL           Pandion haliaetus         osprey         241         Landing         e         None         G5         S4         WL           Pandion haliaetus         osprey         238         Landing         e         None         G5         S4         WL           Pandion haliaetus         osprey         238         Landing         e         None         G5         S4         WL           Pandion haliaetus         osprey         235         Hydesville         e         None         G5         S4         WL           Pandion haliaetus         osprey         236         Landing         e         None         G5         S4         WL           Pandion haliaetus         osprey         93         Landing         e         None         G5         S4         WL           Pand	haliaetus	osprey	243	Landing	е	None	G5	S4	WL
Pandion	Pandion			Fields	Non				
haliaetus         osprey         239         Landing         e         None         G5         S4         WL           Pandion haliaetus         osprey         237         Landing         e         None         G5         S4         WL           Pandion haliaetus         osprey         241         Landing         e         None         G5         S4         WL           Pandion haliaetus         osprey         238         Landing         e         None         G5         S4         WL           Pandion haliaetus         osprey         235         Hydesville         e         None         G5         S4         WL           Pandion haliaetus         osprey         236         Landing         e         None         G5         S4         WL           Pandion haliaetus         osprey         236         Landing         e         None         G5         S4         WL           Pandion haliaetus         osprey         93         Landing         e         None         G5         S4         WL           Pandion haliaetus         osprey         87         Landing         e         None         G5         S4         WL           Pandi	haliaetus	osprey	242	Landing	е	None	G5	S4	WL
Pandion haliaetus         Fields         Non haliaetus         G5         S4         WL           Pandion haliaetus         Osprey         241         Landing         e         None         G5         S4         WL           Pandion haliaetus         Osprey         241         Landing         e         None         G5         S4         WL           Pandion haliaetus         Osprey         238         Landing         e         None         G5         S4         WL           Pandion haliaetus         Osprey         235         Hydesville         e         None         G5         S4         WL           Pandion haliaetus         Osprey         236         Landing         e         None         G5         S4         WL           Pandion haliaetus         Osprey         93         Landing         e         None         G5         S4         WL           Pandion haliaetus         Osprey         87         Landing         e         None         G5         S4         WL           Pandion haliaetus         Osprey         234         Scotia         e         None         G5         S4         WL           Pandion haliaetus         Osprey	Pandion			Fields	Non				
haliaetus         osprey         237         Landing         e         None         G5         S4         WL           Pandion haliaetus         osprey         241         Landing         e         None         G5         S4         WL           Pandion haliaetus         osprey         238         Landing         e         None         G5         S4         WL           Pandion haliaetus         osprey         235         Hydesville         e         None         G5         S4         WL           Pandion haliaetus         osprey         236         Landing         e         None         G5         S4         WL           Pandion haliaetus         osprey         236         Landing         e         None         G5         S4         WL           Pandion haliaetus         osprey         93         Landing         e         None         G5         S4         WL           Pandion haliaetus         osprey         87         Landing         e         None         G5         S4         WL           Pandion haliaetus         osprey         234         Scotia         e         None         G5         S4         WL           Pandio	haliaetus	osprey	239	Landing	е	None	G5	S4	WL
Pandion haliaetus osprey 241 Landing e None G5 S4 WL Pandion Fields Non haliaetus osprey 238 Landing e None G5 S4 WL Pandion Non Haliaetus osprey 238 Landing e None G5 S4 WL Pandion Haliaetus osprey 235 Hydesville e None G5 S4 WL Pandion Fields Non Haliaetus osprey 236 Landing e None G5 S4 WL Pandion Fields Non Haliaetus osprey 93 Landing e None G5 S4 WL Pandion Fields Non Haliaetus osprey 93 Landing e None G5 S4 WL Pandion Haliaetus osprey 87 Landing e None G5 S4 WL Pandion Non Haliaetus osprey 234 Scotia e None G5 S4 WL Pandion Non Haliaetus osprey 232 Scotia e None G5 S4 WL Pandion Non Haliaetus osprey 233 Scotia e None G5 S4 WL Pandion Non Haliaetus osprey 233 Scotia e None G5 S4 WL Pandion Non Haliaetus osprey 233 Scotia e None G5 S4 WL Pandion Non Haliaetus osprey 233 Scotia e None G5 S4 WL Pandion Non Haliaetus osprey 233 Scotia e None G5 S4 WL Pandion Non Haliaetus osprey 233 Scotia e None G5 S4 WL Pandion Non Haliaetus osprey 233 Scotia e None G5 S4 WL Pandion Non Haliaetus osprey 233 Scotia e None G5 S4 WL Pandion Non Haliaetus osprey 233 Scotia e None G5 S4 WL Pandion Non Haliaetus osprey R1 Scotia e None G5 S4 WL Pandion Non Haliaetus osprey R1 Scotia e None G5 S4 WL Pandion Non Haliaetus osprey R1 Scotia e None G5 S4 WL Pandion Non Haliaetus osprey R1 Scotia e None G5 S4 WL	Pandion			Fields	Non				
haliaetus         osprey         241         Landing         e         None         G5         S4         WL           Pandion haliaetus         osprey         238         Landing         e         None         G5         S4         WL           Pandion haliaetus         osprey         235         Hydesville         e         None         G5         S4         WL           Pandion haliaetus         osprey         236         Landing         e         None         G5         S4         WL           Pandion haliaetus         osprey         93         Landing         e         None         G5         S4         WL           Pandion haliaetus         osprey         93         Landing         e         None         G5         S4         WL           Pandion haliaetus         osprey         87         Landing         e         None         G5         S4         WL           Pandion haliaetus         osprey         234         Scotia         e         None         G5         S4         WL           Pandion haliaetus         osprey         231         Scotia         e         None         G5         S4         WL           Pandion	haliaetus	osprey	237	Landing	е	None	G5	<b>S4</b>	WL
Pandion haliaetus osprey 238 Landing e None G5 S4 WL Pandion Non Non Non None None None None None	Pandion			Fields	Non				
Pandion haliaetus osprey 238 Landing e None G5 S4 WL Pandion Non Haliaetus osprey 235 Hydesville e None G5 S4 WL Pandion Fields Non Haliaetus osprey 236 Landing e None G5 S4 WL Pandion Fields Non Haliaetus osprey 93 Landing e None G5 S4 WL Pandion Fields Non Haliaetus osprey 93 Landing e None G5 S4 WL Pandion Fields Non Haliaetus osprey 87 Landing e None G5 S4 WL Pandion Non Haliaetus osprey 234 Scotia e None G5 S4 WL Pandion Non Haliaetus osprey 232 Scotia e None G5 S4 WL Pandion Non Haliaetus osprey 233 Scotia e None G5 S4 WL Pandion Non Haliaetus osprey 231 Scotia e None G5 S4 WL Pandion Non Haliaetus osprey 233 Scotia e None G5 S4 WL Pandion Non Non Non Haliaetus osprey 233 Scotia e None G5 S4 WL Pandion Non Non Non Non Non Non Non Non Non N	haliaetus	osprey	241	Landing	е	None	G5	<b>S4</b>	WL
haliaetusosprey238LandingeNoneG5S4WLPandion haliaetusosprey235HydesvilleeNoneG5S4WLPandion haliaetusosprey236LandingeNoneG5S4WLPandion haliaetusosprey93LandingeNoneG5S4WLPandion haliaetusosprey87LandingeNoneG5S4WLPandion haliaetusosprey234ScotiaeNoneG5S4WLPandion haliaetusosprey232ScotiaeNoneG5S4WLPandion haliaetusosprey231ScotiaeNoneG5S4WLPandion haliaetusosprey233ScotiaeNoneG5S4WLPandion haliaetusosprey81ScotiaeNoneG5S4WLPandion haliaetusosprey79ScotiaeNoneG5S4WLPandion haliaetusosprey79ScotiaeNoneG5S4WLPandion haliaetusosprey79ScotiaeNoneG5S4WL	Pandion	• •			Non				
Pandion haliaetus osprey 235 Hydesville e None G5 S4 WL Pandion haliaetus osprey 236 Landing e None G5 S4 WL Pandion haliaetus osprey 93 Landing e None G5 S4 WL Pandion haliaetus osprey 93 Landing e None G5 S4 WL Pandion haliaetus osprey 87 Landing e None G5 S4 WL Pandion haliaetus osprey 234 Scotia e None G5 S4 WL Pandion haliaetus osprey 232 Scotia e None G5 S4 WL Pandion haliaetus osprey 233 Scotia e None G5 S4 WL Pandion haliaetus osprey 231 Scotia e None G5 S4 WL Pandion haliaetus osprey 233 Scotia e None G5 S4 WL Pandion haliaetus osprey 233 Scotia e None G5 S4 WL Pandion haliaetus osprey 233 Scotia e None G5 S4 WL Pandion haliaetus osprey 233 Scotia e None G5 S4 WL Pandion haliaetus osprey 233 Scotia e None G5 S4 WL Pandion haliaetus osprey 233 Scotia e None G5 S4 WL Pandion haliaetus osprey 81 Scotia e None G5 S4 WL Pandion haliaetus osprey 81 Scotia e None G5 S4 WL Pandion haliaetus osprey 79 Scotia e None G5 S4 WL	haliaetus	osprey	238	Landing	е	None	G5	S4	WL
haliaetusosprey235HydesvilleeNoneG5S4WLPandion haliaetusFields FieldsNon FieldsNone FieldsRone NoneG5S4WLPandion haliaetusFields FieldsNon FieldsNone FieldsNone RoneG5S4WLPandion haliaetusOsprey87Landing EndingeNone RoneG5S4WLPandion haliaetusOsprey234ScotiaeNone RoneG5S4WLPandion haliaetusOsprey232ScotiaeNone RoneG5S4WLPandion haliaetusOsprey231ScotiaeNone RoneG5S4WLPandion haliaetusOsprey233ScotiaeNone RoneG5S4WLPandion haliaetusOsprey81ScotiaeNone RoneG5S4WLPandion haliaetusOsprey79ScotiaeNone RoneG5S4WLPandion haliaetusOsprey79ScotiaeNone RoneG5S4WLPandionNoneG5S4WLPandionNoneG5S4WL		. ,			Non				
Pandion haliaetus osprey 236 Landing e None G5 S4 WL Pandion haliaetus osprey 93 Landing e None G5 S4 WL Pandion haliaetus osprey 93 Landing e None G5 S4 WL Pandion haliaetus osprey 87 Landing e None G5 S4 WL Pandion haliaetus osprey 234 Scotia e None G5 S4 WL Pandion haliaetus osprey 232 Scotia e None G5 S4 WL Pandion haliaetus osprey 232 Scotia e None G5 S4 WL Pandion haliaetus osprey 231 Scotia e None G5 S4 WL Pandion haliaetus osprey 233 Scotia e None G5 S4 WL Pandion haliaetus osprey 233 Scotia e None G5 S4 WL Pandion haliaetus osprey 233 Scotia e None G5 S4 WL Pandion haliaetus osprey 233 Scotia e None G5 S4 WL Pandion haliaetus osprey 79 Scotia e None G5 S4 WL Pandion haliaetus osprey 81 Scotia e None G5 S4 WL Pandion haliaetus osprey 79 Scotia e None G5 S4 WL		osprev	235	Hvdesville		None	G5	<b>S4</b>	WL
haliaetusosprey236LandingeNoneG5S4WLPandion haliaetusosprey93LandingeNoneG5S4WLPandion haliaetusosprey87LandingeNoneG5S4WLPandion haliaetusosprey234ScotiaeNoneG5S4WLPandion haliaetusosprey232ScotiaeNoneG5S4WLPandion haliaetusosprey231ScotiaeNoneG5S4WLPandion haliaetusosprey233ScotiaeNoneG5S4WLPandion haliaetusosprey81ScotiaeNoneG5S4WLPandion haliaetusosprey79ScotiaeNoneG5S4WLPandion haliaetusosprey79ScotiaeNoneG5S4WLPandionNoneG5S4WLPandionNoneG5S4WL		. ,							
Pandion haliaetus osprey 93 Landing e None G5 S4 WL Pandion haliaetus osprey 87 Landing e None G5 S4 WL Pandion haliaetus osprey 87 Landing e None G5 S4 WL Pandion haliaetus osprey 234 Scotia e None G5 S4 WL Pandion haliaetus osprey 232 Scotia e None G5 S4 WL Pandion haliaetus osprey 233 Scotia e None G5 S4 WL Pandion haliaetus osprey 231 Scotia e None G5 S4 WL Pandion haliaetus osprey 233 Scotia e None G5 S4 WL Pandion haliaetus osprey 233 Scotia e None G5 S4 WL Pandion haliaetus osprey 81 Scotia e None G5 S4 WL Pandion haliaetus osprey 81 Scotia e None G5 S4 WL Pandion haliaetus osprey 82 Scotia e None G5 S4 WL Pandion Non haliaetus osprey 83 Scotia e None G5 S4 WL Pandion Non Non Non Non Non Non Non Non Non N		osprev	236			None	G5	<b>S4</b>	WL
haliaetusosprey93LandingeNoneG5S4WLPandion haliaetus87LandingeNoneG5S4WLPandion haliaetusosprey234ScotiaeNoneG5S4WLPandion haliaetusosprey232ScotiaeNoneG5S4WLPandion haliaetusosprey231ScotiaeNoneG5S4WLPandion haliaetusosprey233ScotiaeNoneG5S4WLPandion haliaetusosprey81ScotiaeNoneG5S4WLPandion haliaetusosprey79ScotiaeNoneG5S4WLPandion haliaetusosprey79ScotiaeNoneG5S4WLPandionNoneG5S4WL									
Pandion haliaetus osprey 87 Landing e None G5 S4 WL Pandion haliaetus osprey 234 Scotia e None G5 S4 WL Pandion haliaetus osprey 232 Scotia e None G5 S4 WL Pandion haliaetus osprey 232 Scotia e None G5 S4 WL Pandion haliaetus osprey 231 Scotia e None G5 S4 WL Pandion haliaetus osprey 233 Scotia e None G5 S4 WL Pandion haliaetus osprey 233 Scotia e None G5 S4 WL Pandion haliaetus osprey 233 Scotia e None G5 S4 WL Pandion haliaetus osprey 81 Scotia e None G5 S4 WL Pandion haliaetus osprey 81 Scotia e None G5 S4 WL Pandion haliaetus osprey 79 Scotia e None G5 S4 WL Pandion		osprev	93			None	G5	S4	WL
haliaetusosprey87LandingeNoneG5S4WLPandion haliaetusosprey234ScotiaeNoneG5S4WLPandion haliaetusosprey232ScotiaeNoneG5S4WLPandion haliaetusosprey231ScotiaeNoneG5S4WLPandion haliaetusosprey233ScotiaeNoneG5S4WLPandion haliaetusosprey81ScotiaeNoneG5S4WLPandion haliaetusosprey79ScotiaeNoneG5S4WLPandionNonNoneG5S4WLPandionNoneG5S4WL		35p. 57							
Pandion haliaetus osprey 234 Scotia e None G5 S4 WL  Pandion haliaetus osprey 232 Scotia e None G5 S4 WL  Pandion haliaetus osprey 231 Scotia e None G5 S4 WL  Pandion haliaetus osprey 231 Scotia e None G5 S4 WL  Pandion haliaetus osprey 233 Scotia e None G5 S4 WL  Pandion haliaetus osprey 81 Scotia e None G5 S4 WL  Pandion haliaetus osprey 81 Scotia e None G5 S4 WL  Pandion haliaetus osprey 79 Scotia e None G5 S4 WL  Pandion Non haliaetus osprey 79 Scotia e None G5 S4 WL		osprev	87			None	G5	<b>S</b> 4	WI
haliaetus osprey 234 Scotia e None G5 S4 WL Pandion haliaetus osprey 232 Scotia e None G5 S4 WL Pandion haliaetus osprey 231 Scotia e None G5 S4 WL Pandion haliaetus osprey 233 Scotia e None G5 S4 WL Pandion haliaetus osprey 233 Scotia e None G5 S4 WL Pandion haliaetus osprey 81 Scotia e None G5 S4 WL Pandion haliaetus osprey 81 Scotia e None G5 S4 WL Pandion Non haliaetus osprey 79 Scotia e None G5 S4 WL Pandion Non		03p.cy	<u> </u>	Larramb		110110		<u> </u>	***
Pandion haliaetus osprey 232 Scotia e None G5 S4 WL Pandion haliaetus osprey 231 Scotia e None G5 S4 WL Pandion haliaetus osprey 231 Scotia e None G5 S4 WL Pandion haliaetus osprey 233 Scotia e None G5 S4 WL Pandion haliaetus osprey 81 Scotia e None G5 S4 WL Pandion haliaetus osprey 79 Scotia e None G5 S4 WL Pandion Non haliaetus Non Non Non		osprev	234	Scotia		None	G5	<b>S</b> 4	\\/I
haliaetus osprey 232 Scotia e None G5 S4 WL Pandion haliaetus osprey 231 Scotia e None G5 S4 WL Pandion haliaetus osprey 233 Scotia e None G5 S4 WL Pandion haliaetus osprey 81 Scotia e None G5 S4 WL Pandion haliaetus osprey 81 Scotia e None G5 S4 WL Pandion haliaetus osprey 79 Scotia e None G5 S4 WL Pandion Non haliaetus osprey 79 Scotia e None G5 S4 WL Pandion		озрісу	254	300010		None	- 05	J-T	VV L
Pandion haliaetus osprey 231 Scotia e None G5 S4 WL Pandion haliaetus osprey 233 Scotia e None G5 S4 WL Pandion haliaetus osprey 81 Scotia e None G5 S4 WL Pandion haliaetus osprey 79 Scotia e None G5 S4 WL Pandion haliaetus osprey 79 Scotia e None G5 S4 WL Pandion Non haliaetus osprey 79 Scotia e None G5 S4 WL Pandion		osprev	232	Scotia		None	G5	S/I	\\/\
haliaetusosprey231ScotiaeNoneG5S4WLPandion haliaetusosprey233ScotiaeNoneG5S4WLPandion haliaetusosprey81ScotiaeNoneG5S4WLPandion haliaetusNon osprey79ScotiaeNoneG5S4WLPandionNonNoneG5S4WL		озрісу	232	Jeotia		None	- 03	<u> </u>	VVL
Pandion haliaetus osprey 233 Scotia e None G5 S4 WL Pandion haliaetus osprey 81 Scotia e None G5 S4 WL Pandion haliaetus osprey 79 Scotia e None G5 S4 WL Pandion haliaetus osprey 79 Scotia e None G5 S4 WL Pandion		ocnrev	221	Scotia		None	G5	SΛ	\\/\
haliaetusosprey233ScotiaeNoneG5S4WLPandion haliaetusosprey81ScotiaeNoneG5S4WLPandion haliaetusNon osprey79ScotiaeNoneG5S4WLPandionNonNoneG5S4WL		озрісу	231	Jeona		NONE	0.0	J <del>+</del>	VVL
Pandion haliaetus osprey 81 Scotia e None G5 S4 WL Pandion haliaetus osprey 79 Scotia e None G5 S4 WL Pandion Non Non		ocarov	າວວ	Scotia		None	CE	ÇΛ	14/1
haliaetusosprey81ScotiaeNoneG5S4WLPandionNoneNoneG5S4WLPandionNoneNoneNoneNoneNoneNone		ospiey	233	Scotla		none	دی	34	VVL
Pandion Non haliaetus osprey 79 Scotia e None G5 S4 WL Pandion Non		ocnrov.	01	Scotic		None	CF	C A	14/1
haliaetus osprey 79 Scotia e None G5 S4 WL Pandion Non		osprey	81	SCOULD		none	ک	54	VVL
Pandion Non		000000	70	Scotic		None	CF	C A	14/1
		osprey	/9	Scotia		none	<b>G</b> 5	54	VVL
nanaetus osprey 83 Scotia e None G5 S4 WL		ocnre:	0.2	Coatic		Mara	CF	C 4	14/1
	nanaetus	osprey	<b>გ</b> 3	SCOTIA	е	none	G5	54	VVL

Pandion				Non				
haliaetus	ocprov	0.1	Scotia		None	G5	<b>S</b> 4	WL
Pandion	osprey	84	Scotia	e Non	None	GS	34	VVL
	o corov	76	Dodorost	Non	None	CF	C 4	14/1
haliaetus	osprey	76	Redcrest	e Nan	None	G5	S4	WL
Pandion		240	McWhinney	Non	Nama	C.F.	C 4	14/1
haliaetus	osprey	210	Creek	e	None	G5	S4	WL
Pandion				Non				
haliaetus	osprey	73	Redcrest	e	None	G5	S4	WL
Pandion		400		Non				
haliaetus	osprey	100	Hydesville	е	None	G5	S4	WL
Pandion			McWhinney	Non				
haliaetus	osprey	185	Creek	е	None	G5	S4	WL
Pandion				Non				
haliaetus	osprey	174	Eureka	е	None	G5	S4	WL
Pandion			Fields	Non				
haliaetus	osprey	86	Landing	е	None	G5	S4	WL
Pandion				Non				
haliaetus	osprey	82	Scotia	е	None	G5	S4	WL
Pandion				Non				
haliaetus	osprey	75	Redcrest	e	None	G5	S4	WL
Pandion				Non				
haliaetus	osprey	80	Scotia	e	None	G5	S4	WL
Pandion			Fields	Non				_
haliaetus	osprey	91	Landing	e	None	G5	S4	WL
Pandion			Fields	Non				
haliaetus	osprey	92	Landing	e	None	G5	S4	WL
Pandion			Fields	Non				
haliaetus	osprey	94	Landing	e	None	G5	<b>S4</b>	WL
Pandion			Fields	Non				
haliaetus	osprey	95	Landing	e	None	G5	<b>S4</b>	WL
Pandion			Fields	Non				
haliaetus	osprey	97	Landing	e	None	G5	<b>S</b> 4	WL
Pandion	· ·		Fields	Non				_
haliaetus	osprey	96	Landing	e	None	G5	<b>S</b> 4	WL
Pandion	' '			Non				
haliaetus	osprey	74	Redcrest	e	None	G5	<b>S</b> 4	WL
Pandion			Fields	Non				
haliaetus	osprey	98	Landing	е	None	G5	<b>S</b> 4	WL
Pandion			Fields	Non				
haliaetus	osprey	88	Landing	e	None	G5	S4	WL
Pandion				Non			<u> </u>	***
haliaetus	osprey	72	Redcrest	e	None	G5	S4	WL
Pekania	озрісу	12	reactest	Non	TAOTIC	33	S2	VVL
pennanti	Fisher	647	Taylor Peak	e	None	G5	S3	SSC
Pekania	1 131101	047	rayioi reak	Non	NONE	0.5	S2	330
pennanti	Fisher	611	Hydesville	e	None	G5	S3	SSC
Permanti	1 131101	011	Trydesville	-	NONE	0.0	<i>J</i> J	330

	white-								
Piperia 	flowered rein			Non					
candida	orchid	75	laqua Buttes	е	None	G3?	S3	1B.2	
	white-								
Piperia	flowered rein			Non					
candida	orchid	117	Scotia	е	None	G3?	S3	1B.2	
	white-								
Piperia	flowered rein			Non					
candida	orchid	154	Scotia	е	None	G3?	S3	1B.2	
	white-								
Piperia	flowered rein			Non					
candida	orchid	118	Scotia	е	None	G3?	S3	1B.2	
	white-								
Piperia	flowered rein			Non					
candida	orchid	119	Scotia	е	None	G3?	S3	1B.2	
	white-								
Piperia	flowered rein			Non					
candida	orchid	51	Scotia	е	None	G3?	S3	1B.2	
	white-								
Piperia	flowered rein			Non					
candida	orchid	52	Scotia	е	None	G3?	S3	1B.2	
Platismatia	crinkled rag			Non					
lacunosa	lichen	1	Iaqua Buttes	e	None	G4	<b>S1</b>	2B.3	
Plethodon	Del Norte			Non					
elongatus	salamander	44	Iaqua Buttes	e	None	G4	<b>S3</b>		WL
Polemonium	Oregon			Non		G3			
carneum	polemonium	7	<b>Taylor Peak</b>	e	None	G4	<b>S2</b>	2B.2	
	northern red-		Fields	Non					
Rana aurora	legged frog	293	Landing	e	None	G4	<b>S3</b>		SSC
	northern red-		McWhinney	Non					
Rana aurora	legged frog	292	Creek	e	None	G4	S3		SSC
	northern red-		Fields	Non					
Rana aurora	legged frog	179	Landing	e	None	G4	S3		SSC
	northern red-		Fields	Non					
Rana aurora	legged frog	178	Landing	e	None	G4	S3		SSC
	northern red-		Fields	Non					
Rana aurora	legged frog	180	Landing	e	None	G4	S3		SSC
	northern red-		McWhinney	Non					
Rana aurora	legged frog	90	Creek	e	None	G4	S3		SSC
	northern red-		McWhinney	Non					
Rana aurora	legged frog	176	Creek	е	None	G4	<b>S</b> 3		SSC
	northern red-			Non					
Rana aurora	legged frog	168	Fortuna	e	None	G4	<b>S</b> 3		SSC
	northern red-		Fields	Non					
Rana aurora	legged frog	177	Landing	e	None	G4	<b>S</b> 3		SSC
	northern red-	,	McWhinney	Non					
Rana aurora	legged frog	175	Creek	e	None	G4	<b>S</b> 3		SSC
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				Nen				
Dana a	northern red-	167	t to callage of the	Non	Nama	C 4	62	
Rana aurora	legged frog	167	Hydesville	e Na:	None	G4	S3	SSC
D	northern red-	162	C+:-	Non	Mana	C 4	62	
Rana aurora	legged frog	162	Scotia	e	None	G4	S3	SSC
_	northern red-	4.0=		Non		٠.		
Rana aurora	legged frog	165	Hydesville	е	None	G4	S3	SSC
_	northern red-		_	Non				
Rana aurora	legged frog	163	Scotia	е	None	G4	S3	SSC
	northern red-			Non				
Rana aurora	legged frog	166	Hydesville	е	None	G4	S3	SSC
	northern red-			Non				
Rana aurora	legged frog	164	Taylor Peak	е	None	G4	S3	SSC
	northern red-			Non				
Rana aurora	legged frog	136	Redcrest	е	None	G4	S3	SSC
	northern red-			Non				
Rana aurora	legged frog	137	Redcrest	е	None	G4	S3	SSC
	northern red-			Non				
Rana aurora	legged frog	138	Redcrest	e	None	G4	S3	SSC
	northern red-			Non				
Rana aurora	legged frog	139	Owl Creek	е	None	G4	S3	SSC
	northern red-			Non				
Rana aurora	legged frog	140	Owl Creek	e	None	G4	S3	SSC
-	northern red-		Fields	Non				
Rana aurora	legged frog	2	Landing	e	None	G4	S3	SSC
	northern red-			Non				
Rana aurora	legged frog	4	laqua Buttes	е	None	G4	S3	SSC
-	northern red-		Fields	Non				
Rana aurora	legged frog	40	Landing	е	None	G4	S3	SSC
	northern red-			Non				
Rana aurora	legged frog	37	Redcrest	e	None	G4	S3	SSC
- Haria aarora	northern red-	<u> </u>	110001000	Non	110110	<u> </u>		
Rana aurora	legged frog	33	Owl Creek	e	None	G4	S3	SSC
Tana aarora	northern red-		McWhinney	Non	110110	<u> </u>		330
Rana aurora	legged frog	28	Creek	e	None	G4	S3	SSC
Maria aurora	northern red-		McWhinney	Non	None	<u> </u>		350
Rana aurora	legged frog	27	Creek	e	None	G4	S3	SSC
Maria aurora	northern red-	21	CIEEK	Non	None	- 04		330
Rana aurora	legged frog	26	Scotia		None	G4	S3	SSC
Nalia autora	northern red-	20	Fields	e Non	None	04	33	330
Dana aurara		1.4		Non	None	C 1	ca	ccc
Rana aurora	legged frog	14	Landing	e Non	None	G4	S3	SSC
Dana aa	northern red-	12	Lludos: :llo	Non	Marsa	C 4	CO	ccc
Rana aurora	legged frog	13	Hydesville	е	None	G4	S3	SSC
	foothill yellow-							
Dama ka 122	legged frog -			N1		63		
Rana boylii	north coast	202	Castia	Non	Na:	G3	C 4	
pop. 1	DPS	283	Scotia	е	None	T4	S4	SSC

	foothill yellow-							
	legged frog -							
Rana boylii	north coast			Non		G3		
pop. 1	DPS	421	Redcrest	e	None	T4	S4	SSC
рор. 1	foothill yellow-	721	Rederest		None	17	<u> </u>	330
	legged frog -							
Pana havlii	north coast			Non		G3		
Rana boylii		427	Dadarast		None		C /	222
pop. 1	DPS	427	Redcrest	е	None	T4	S4	SSC
	foothill yellow-							
5 1 1"	legged frog -							
Rana boylii	north coast			Non		G3		
pop. 1	DPS	386	Owl Creek	е	None	T4	S4	SSC
	foothill yellow-							
	legged frog -							
Rana boylii	north coast			Non		G3		
pop. 1	DPS	385	Owl Creek	е	None	T4	S4	SSC
	foothill yellow-							
	legged frog -							
Rana boylii	north coast			Non		G3		
pop. 1	DPS	276	Taylor Peak	е	None	T4	S4	SSC
	foothill yellow-							
	legged frog -							
Rana boylii	north coast		Fields	Non		G3		
pop. 1	DPS	259	Landing	e	None	T4	S4	SSC
	foothill yellow-							
	legged frog -							
Rana boylii	north coast			Non		G3		
pop. 1	DPS	418	Redcrest	e	None	T4	<b>S4</b>	SSC
	foothill yellow-							
	legged frog -							
Rana boylii	north coast		McWhinney	Non		G3		
pop. 1	DPS	261	Creek	e	None	T4	<b>S</b> 4	SSC
	foothill yellow-							
	legged frog -							
Rana boylii	north coast			Non		G3		
pop. 1	DPS	387	Owl Creek	е	None	T4	<b>S</b> 4	SSC
Pob	foothill yellow-							
	legged frog -							
Rana boylii	north coast			Non		G3		
pop. 1	DPS	366	Iaqua Buttes	e	None	T4	<b>S</b> 4	SSC
<u> </u>	foothill yellow-		.aqua battes				<u> </u>	336
	legged frog -							
Rana boylii	north coast			Non		G3		
pop. 1	DPS	280	Scotia	e	None	T4	S4	SSC
Rana boylii	foothill yellow-	200	Jeona	Non	INOTIC	G3	J <del>-1</del>	330
pop. 1	legged frog -	278	Scotia		None	T4	S4	SSC
рор. т	ieggeu ii og -	2/0	Jedua	е	NOHE	14	J <del>4</del>	330

	north coast							
	DPS							
	foothill yellow-							
D l 1''	legged frog -			N1		63		
Rana boylii	north coast			Non		G3		
pop. 1	DPS	425	Redcrest	е	None	T4	S4	SSC
	foothill yellow-							
	legged frog -							
Rana boylii	north coast			Non		G3		
pop. 1	DPS	428	Redcrest	е	None	T4	S4	SSC
	foothill yellow-							
	legged frog -							
Rana boylii	north coast			Non		G3		
pop. 1	DPS	388	Owl Creek	e	None	T4	S4	SSC
	foothill yellow-							
	legged frog -							
Rana boylii	north coast			Non		G3		
pop. 1	DPS	268	Hydesville	е	None	T4	<b>S4</b>	SSC
	foothill yellow-		,					
	legged frog -							
Rana boylii	north coast			Non		G3		
pop. 1	DPS	279	Scotia	e	None	T4	<b>S</b> 4	SSC
рор. 1	foothill yellow-	273	300010		HOHE		<u> </u>	330
	legged frog -							
Rana boylii	north coast			Non		G3		
pop. 1	DPS	277	Taylor Peak	e	None	T4	<b>S</b> 4	SSC
рор. 1	foothill yellow-	211	rayior r cak		NOTIC	- 17	<u> </u>	330
	legged frog -							
Rana boylii	north coast			Non		G3		
pop. 1	DPS	269	Hydesville	e	None	T4	S4	SSC
рор. 1		209	Tiyuesville		NOTIC	14	- 34	330
	foothill yellow-							
Dana baylii	legged frog -			Non		C		
Rana boylii	north coast	204	Cootio	Non	Nana	G3	C 4	ccc
pop. 1	DPS	284	Scotia	е	None	T4	S4	SSC
	foothill yellow-							
- I III	legged frog -							
Rana boylii	north coast			Non		G3		
pop. 1	DPS	265	Fortuna	е	None	T4	S4	SSC
	foothill yellow-							
	legged frog -							
Rana boylii	north coast			Non		G3		
pop. 1	DPS	426	Redcrest	е	None	T4	S4	SSC
	foothill yellow-							
	legged frog -							
Rana boylii	north coast			Non		G3		
pop. 1	DPS	424	Redcrest	е	None	T4	S4	SSC
		•		•			•	

	foothill yellow-							
	legged frog -							
Rana boylii	north coast			Non		G3		
pop. 1	DPS	282	Scotia	e	None	T4	<b>S</b> 4	SSC
Pob. =	foothill yellow-							
	legged frog -							
Rana boylii	north coast			Non		G3		
pop. 1	DPS	419	Redcrest	e	None	T4	<b>S</b> 4	SSC
Pop. 1	foothill yellow-	123	ricuo. est		110110		<u> </u>	
	legged frog -							
Rana boylii	north coast			Non		G3		
pop. 1	DPS	422	Redcrest	e	None	T4	<b>S</b> 4	SSC
Pob	foothill yellow-							
	legged frog -							
Rana boylii	north coast			Non		G3		
pop. 1	DPS	281	Scotia	е	None	T4	<b>S</b> 4	SSC
Pob. =	foothill yellow-							
	legged frog -							
Rana boylii	north coast			Non		G3		
pop. 1	DPS	272	Hydesville	e	None	T4	<b>S</b> 4	SSC
pop. =	foothill yellow-		,					
	legged frog -							
Rana boylii	north coast			Non		G3		
pop. 1	DPS	420	Redcrest	е	None	T4	<b>S</b> 4	SSC
	foothill yellow-							
	legged frog -							
Rana boylii	north coast			Non		G3		
pop. 1	DPS	271	Hydesville	е	None	T4	<b>S4</b>	SSC
	foothill yellow-							
	legged frog -							
Rana boylii	north coast			Non		G3		
pop. 1	DPS	417	Redcrest	е	None	T4	S4	SSC
	foothill yellow-							
	legged frog -							
Rana boylii	north coast			Non		G3		
pop. 1	DPS	273	Hydesville	е	None	T4	S4	SSC
	foothill yellow-							
	legged frog -							
Rana boylii	north coast			Non		G3		
pop. 1	DPS	266	Hydesville	е	None	T4	S4	SSC
	foothill yellow-							
	legged frog -							
Rana boylii	north coast			Non		G3		
pop. 1	DPS	416	Redcrest	е	None	T4	S4	SSC
Rana boylii	foothill yellow-			Non		G3	•	
pop. 1	legged frog -	263	Fortuna	е	None	T4	S4	SSC

	north coast DPS							
	foothill yellow-							
	legged frog -							
Rana boylii	north coast			Non		G3		
pop. 1	DPS	270	Hydesville	e	None	T4	S4	SSC
P 0 P 1	foothill yellow-		,					
	legged frog -							
Rana boylii	north coast			Non		G3		
pop. 1	DPS	267	Hydesville	e	None	T4	S4	SSC
рор. 1	foothill yellow-	207	Trydesville		TTOTIC		J-1	350
	legged frog -							
Rana boylii	north coast			Non		G3		
pop. 1	DPS	389	Owl Creek	e	None	T4	S4	SSC
рор. 1	foothill yellow-	303	OWICICCK		NOTIC		<u> </u>	330
	legged frog -							
Rana boylii	north coast			Non		G3		
•	DPS	365	lagua Puttos		None	T4	<b>S</b> 4	SSC
pop. 1		303	laqua Buttes	е	None	14	34	330
	foothill yellow-							
Dana havilii	legged frog -			Nan		63		
Rana boylii	north coast	264	Faut	Non	Nisas	G3	C 4	
pop. 1	DPS	264	Fortuna	е	None	T4	S4	SSC
	foothill yellow-							
D l l''	legged frog -					63		
Rana boylii	north coast	262	F	Non	<b>N</b> 1	G3	6.4	556
pop. 1	DPS	262	Fortuna	е	None	T4	S4	SSC
	foothill yellow-							
	legged frog -							
Rana boylii	north coast	244	IZ - J I	Non	<b>N</b> 1	G3	6.4	666
pop. 1	DPS	341	Korbel	е	None	T4	S4	SSC
	foothill yellow-							
	legged frog -							
Rana boylii	north coast		Fields	Non		G3		
pop. 1	DPS	260	Landing	е	None	T4	S4	SSC
	foothill yellow-							
	legged frog -							
Rana boylii	north coast		Fields	Non		G3		
pop. 1	DPS	258	Landing	е	None	T4	S4	SSC
	foothill yellow-							
	legged frog -							
Rana boylii	north coast			Non		G3		
pop. 1	DPS	364	Iaqua Buttes	е	None	T4	S4	SSC
	foothill yellow-							
	legged frog -							
Rana boylii	north coast			Non		G3		
	DPS			NOII		03		SSC

	6 .1 .11 .11							
	foothill yellow-							
	legged frog -							
Rana boylii	north coast			Non		G3		
pop. 1	DPS	384	Owl Creek	е	None	T4	S4	SSC
	foothill yellow-							
	legged frog -							
Rana boylii	north coast			Non		G3		
pop. 1	DPS	430	Bridgeville	е	None	T4	S4	SSC
	southern							
Rhyacotriton	torrent			Non			S2	
variegatus	salamander	274	Scotia	е	None	G3?	S3	SSC
	southern							
Rhyacotriton	torrent			Non			S2	
variegatus	salamander	276	Taylor Peak	e	None	G3?	S3	SSC
	southern							
Rhyacotriton	torrent		McWhinney	Non			S2	
variegatus	salamander	277	Creek	e	None	G3?	S3	SSC
	southern							
Rhyacotriton	torrent		McWhinney	Non			S2	
variegatus	salamander	278	Creek	е	None	G3?	S3	SSC
	southern							
Rhyacotriton	torrent			Non			S2	
variegatus	salamander	275	Scotia	e	None	G3?	S3	SSC
variegatas	southern	273	Scotia		TTOTIC	<u> </u>		330
Rhyacotriton	torrent			Non			S2	
variegatus	salamander	273	Scotia	e	None	G3?	S3	SSC
variegatus	southern	2/3	Scotia		None	05:	33	330
Rhyacotriton	torrent			Non			S2	
•	salamander	228	Redcrest		None	G3?	S3	SSC
variegatus	southern	220	Reuciest	е	None	G3:	33	330
Dhyacatritan				Non			ca	
Rhyacotriton	torrent	222	Ovel Croals	Non	Nana	C22	S2	ccc
variegatus	salamander	233	Owl Creek	е	None	G3?	S3	SSC
Discount disco	southern						60	
Rhyacotriton 	torrent	220	5 .	Non		622	S2	666
variegatus	salamander	230	Redcrest	е	None	G3?	S3	SSC
	southern							
Rhyacotriton	torrent			Non			S2	
variegatus	salamander	232	Owl Creek	е	None	G3?	S3	SSC
	southern							
Rhyacotriton	torrent			Non			S2	
variegatus	salamander	231	Weott	е	None	G3?	S3	SSC
	southern							
Rhyacotriton	torrent			Non			S2	
variegatus	salamander	229	Redcrest	е	None	G3?	S3	SSC
	southern							
Rhyacotriton	southern torrent			Non			S2	

	southern								
Rhyacotriton	torrent			Non			S2		
variegatus	salamander	239	laqua Buttes	e	None	G3?	S3		SSC
variegatas	southern	233	laqua Battes		None	05.	- 55		330
Rhyacotriton	torrent			Non			S2		
variegatus	salamander	226	Redcrest	e	None	G3?	S3		SSC
variegatus	southern	220	Redcrest		None	05:	33		330
Rhyacotriton	torrent		McWhinney	Non			S2		
•	salamander	140	Creek		None	G3?	S3		SSC
variegatus	southern	140	Cleek	е	ivone	U3:	33		330
Dhyacatritan				Non			S2		
Rhyacotriton	torrent	42	Janua Duttas	Non	Nama	C22	52 S3		ccc
variegatus	salamander	43	laqua Buttes	e Nan	None	G3?	33		SSC
Dinania ninania	hand, accellance	225	Faut	Non	Threate	C.F.	62		
Riparia riparia	bank swallow	235	Fortuna	e	ned	G5	S3		
Discolar de la como	1 1 11 .	222	F	Non	Threate	<b>6</b> 5	60		
Riparia riparia	bank swallow	333	Fortuna	e	ned	G5	S3		
<u>.</u>				Non	Threate				
Riparia riparia	bank swallow	234	Fortuna	е	ned	G5	S3		
				Non	Threate				
Riparia riparia	bank swallow	297	Hydesville	е	ned	G5	S3		
Sidalcea	maple-leaved			Non					
malachroides	checkerbloom	61	Redcrest	е	None	G3	S3	4.2	
Sidalcea	maple-leaved			Non					
malachroides	checkerbloom	109	Scotia	е	None	G3	S3	4.2	
Sidalcea	maple-leaved		McWhinney	Non					
malachroides	checkerbloom	81	Creek	е	None	G3	S3	4.2	
Sidalcea	maple-leaved			Non					
malachroides	checkerbloom	26	Hydesville	е	None	G3	S3	4.2	
Sidalcea	maple-leaved			Non					
malachroides	checkerbloom	43	Hydesville	e	None	G3	<b>S3</b>	4.2	
Sidalcea	maple-leaved			Non					
malachroides	checkerbloom	92	Redcrest	e	None	G3	S3	4.2	
Sidalcea	maple-leaved			Non					
malachroides	checkerbloom	50	Redcrest	e	None	G3	S3	4.2	
Sidalcea	maple-leaved			Non					
malachroides	checkerbloom	64	Owl Creek	e	None	G3	S3	4.2	
Sidalcea	maple-leaved			Non					
malachroides	checkerbloom	70	laqua Buttes	e	None	G3	S3	4.2	
Sidalcea	maple-leaved			Non					
malachroides	checkerbloom	51	Redcrest	e	None	G3	S3	4.2	
Sidalcea	maple-leaved		Fields	Non					
malachroides	checkerbloom	144	Landing	е	None	G3	S3	4.2	
Sidalcea	maple-leaved	- ' '	-aap	Non					
malachroides	checkerbloom	71	laqua Buttes	e	None	G3	S3	4.2	
Sidalcea	maple-leaved	, 1	iaqua Duttes	Non	INOTIC	0.5	<i></i>	7.2	
malachroides	checkerbloom	110	Redcrest	e	None	G3	S3	4.2	
THAIACHI OIUES	CHECKEIDIOOHI	110	NCUCI EST	·	NOTIC	<u> </u>	JJ	7.4	

Sidalcea	maple-leaved			Non				
malachroides	checkerbloom	91	Arcata South	е	None	G3	S3	4.2
Sidalcea	maple-leaved			Non				
malachroides	checkerbloom	73	Scotia	е	None	G3	S3	4.2
Sidalcea	maple-leaved			Non				
malachroides	checkerbloom	130	Scotia	e	None	G3	S3	4.2
Sidalcea	maple-leaved		McWhinney	Non				
malachroides	checkerbloom	136	Creek	e	None	G3	S3	4.2
Sidalcea	maple-leaved			Non				
malachroides	checkerbloom	131	Taylor Peak	e	None	G3	S3	4.2
Sidalcea	maple-leaved		,	Non				
malachroides	checkerbloom	132	Taylor Peak	е	None	G3	S3	4.2
Sidalcea	maple-leaved		McWhinney	Non				
malachroides	checkerbloom	133	Creek	e	None	G3	S3	4.2
Sidalcea	maple-leaved	133	McWhinney	Non	TVOTIC	- 05		7.2
malachroides	checkerbloom	135	Creek		None	G3	S3	4.2
Sidalcea		133		e Non	None	G3	33	4.2
	maple-leaved	124	McWhinney	Non	None	C	ca	4.2
malachroides	checkerbloom	134	Creek	e Nan	None	G3	S3	4.2
Sidalcea	maple-leaved	420		Non			60	4.0
malachroides	checkerbloom	129	laqua Buttes	е	None	G3	S3	4.2
Sidalcea	maple-leaved		_	Non				
malachroides	checkerbloom	127	laqua Buttes	е	None	G3	S3	4.2
Sidalcea	maple-leaved			Non				
malachroides	checkerbloom	126	Iaqua Buttes	е	None	G3	S3	4.2
Sidalcea	maple-leaved			Non				
malachroides	checkerbloom	114	Redcrest	е	None	G3	S3	4.2
Sidalcea	maple-leaved			Non				
malachroides	checkerbloom	115	Redcrest	е	None	G3	S3	4.2
Sidalcea	maple-leaved			Non				
malachroides	checkerbloom	112	Redcrest	e	None	G3	S3	4.2
Sidalcea	maple-leaved			Non				
malachroides	checkerbloom	105	Eureka	e	None	G3	S3	4.2
Sidalcea	maple-leaved			Non				
malachroides	checkerbloom	76	Taylor Peak	e	None	G3	S3	4.2
Sidalcea	maple-leaved			Non				
malachroides	checkerbloom	107	Redcrest	e	None	G3	S3	4.2
Sidalcea	maple-leaved			Non				
malachroides	checkerbloom	108	Owl Creek	е	None	G3	S3	4.2
Sidalcea	maple-leaved		Fields	Non				
malachroides	checkerbloom	103	Landing	e	None	G3	S3	4.2
Sidalcea	maple-leaved	-55	McWhinney	Non		- 55		
malachroides	checkerbloom	102	Creek	e	None	G3	S3	4.2
Sidalcea	maple-leaved	102	CICCR	Non	HOHE	0.5		7.4
malachroides	checkerbloom	55	Redcrest	e	None	G3	S3	4.2
Sidalcea		J.J.	Neuclest	Non	NOTIE	us	JJ	7.4
malachroides	maple-leaved checkerbloom	99	Redcrest		None	G3	S3	4.2
iliaiacili OlueS	CHECKELDIOOHI	33	neucrest	е	NOTIE	u3	აა	4.4

Sidalcea	maple-leaved			Non				
malachroides	checkerbloom	19	Redcrest	е	None	G3	S3	4.2
Sidalcea	maple-leaved		McWhinney	Non				
malachroides	checkerbloom	82	Creek	е	None	G3	S3	4.2
Sidalcea	maple-leaved		McWhinney	Non				
malachroides	checkerbloom	79	Creek	e	None	G3	S3	4.2
Sidalcea	maple-leaved		McWhinney	Non				
malachroides	checkerbloom	77	Creek	e	None	G3	<b>S</b> 3	4.2
Sidalcea	maple-leaved			Non				
malachroides	checkerbloom	75	Taylor Peak	е	None	G3	S3	4.2
Sidalcea	maple-leaved		McWhinney	Non				
malachroides	checkerbloom	78	Creek	е	None	G3	S3	4.2
Sidalcea	maple-leaved		McWhinney	Non				
malachroides	checkerbloom	80	Creek	e	None	G3	S3	4.2
Sidalcea	maple-leaved	- 00	CICCK	Non	NOTIC	- 03		7.2
malachroides	checkerbloom	74	Scotia		None	G3	S3	4.2
Sidalcea		/4	Scotia	e Non	None	U3	33	4.2
	maple-leaved checkerbloom	72	Cootio	Non	Nana	<b>C</b> 2	CO	4.2
malachroides		72	Scotia	e	None	G3	S3	4.2
Sidalcea	maple-leaved	65	0.10.1	Non			60	4.0
malachroides	checkerbloom	65	Owl Creek	е	None	G3	S3	4.2
Sidalcea	maple-leaved			Non				
malachroides	checkerbloom	88	laqua Buttes	е	None	G3	S3	4.2
Sidalcea	maple-leaved			Non				
malachroides	checkerbloom	66	Owl Creek	е	None	G3	S3	4.2
Sidalcea	maple-leaved			Non				
malachroides	checkerbloom	68	Owl Creek	е	None	G3	S3	4.2
Sidalcea	maple-leaved			Non				
malachroides	checkerbloom	69	Owl Creek	е	None	G3	S3	4.2
Sidalcea	maple-leaved			Non				
malachroides	checkerbloom	67	Owl Creek	e	None	G3	<b>S3</b>	4.2
Sidalcea	maple-leaved			Non				
malachroides	checkerbloom	63	Owl Creek	e	None	G3	S3	4.2
Sidalcea	maple-leaved			Non				
malachroides	checkerbloom	60	Redcrest	e	None	G3	<b>S</b> 3	4.2
Sidalcea	maple-leaved			Non				
malachroides	checkerbloom	57	Redcrest	e	None	G3	<b>S</b> 3	4.2
Sidalcea	maple-leaved			Non				
malachroides	checkerbloom	53	Redcrest	е	None	G3	S3	4.2
Sidalcea	maple-leaved			Non				
malachroides	checkerbloom	52	Redcrest	e	None	G3	S3	4.2
Sidalcea	maple-leaved			Non		- 55		
malachroides	checkerbloom	54	Redcrest	e	None	G3	S3	4.2
Sidalcea	maple-leaved	J-t	nederest	Non	HOHE	<u> </u>	JJ	7.4
malachroides	checkerbloom	59	Redcrest	e	None	G3	S3	4.2
Sidalcea		JJ	Neucrest	Non	NOTIE	us	JJ	7.4
malachroides	maple-leaved checkerbloom	56	Redcrest		None	G3	S3	4.2
iliaiaCIII UIUES	CHECKEINIOOIII	טכ	Neuciest	е	NOTIE	G3	JJ	4.4

Sidalcea	maple-leaved			Non				
malachroides	checkerbloom	58	Redcrest	е	None	G3	S3	4.2
Sidalcea	maple-leaved			Non				
malachroides	checkerbloom	24	Korbel	е	None	G3	S3	4.2
Sidalcea	maple-leaved			Non				
malachroides	checkerbloom	41	Scotia	е	None	G3	S3	4.2
Sidalcea								
malviflora ssp.	Siskiyou			Non		G5		
patula	checkerbloom	16	Fortuna	е	None	T2	S2	1B.2
Sidalcea								
malviflora ssp.	Siskiyou			Non		G5		
patula	checkerbloom	25	Scotia	e	None	T2	S2	1B.2
Sidalcea								
malviflora ssp.	Siskiyou			Non		G5		
patula	checkerbloom	38	Taylor Peak	e	None	T2	S2	1B.2
Sidalcea								
malviflora ssp.	Siskiyou			Non		G5		
patula	checkerbloom	1	Owl Creek	e	None	T2	S2	1B.2
Sidalcea								
malviflora ssp.	Siskiyou			Non		G5		
patula	checkerbloom	2	Hydesville	e	None	T2	S2	1B.2
Sidalcea			•					
malviflora ssp.	Siskiyou			Non		G5		
patula .	checkerbloom	48	laqua Buttes	e	None	T2	S2	1B.2
Sidalcea			•					
malviflora ssp.	Siskiyou			Non		G5		
patula .	checkerbloom	43	laqua Buttes	e	None	T2	S2	1B.2
Sidalcea			•					
malviflora ssp.	Siskiyou		Yager	Non		G5		
patula .	checkerbloom	40	Junction	e	None	T2	S2	1B.2
Sidalcea								
malviflora ssp.	Siskiyou			Non		G5		
patula	checkerbloom	41	Owl Creek	e	None	T2	S2	1B.2
Sidalcea								
malviflora ssp.	Siskiyou			Non		G5		
patula .	checkerbloom	32	Capetown	e	None	T2	S2	1B.2
Sidalcea			•					
malviflora ssp.	Siskiyou			Non		G5		
patula	checkerbloom	35	Taylor Peak	е	None	T2	S2	1B.2
Sidalcea			.,	-				
malviflora ssp.	Siskiyou			Non		G5		
patula	checkerbloom	34	Taylor Peak	e	None	T2	S2	1B.2
Sidalcea	2		- a j.c. i can					
malviflora ssp.	Siskiyou			Non		G5		
patula	checkerbloom	42	Owl Creek	e	None	T2	S2	1B.2
Patala	CHECKEI DIOUTI	74	OWI CICCK		140110	14	J_	10.2

Sidalcea								
malviflora ssp.	Siskiyou			Non		G5		
patula	checkerbloom	33	Taylor Peak	e	None	T2	S2	1B.2
Sidalcea	CHECKEIDIOOHI		rayior r cak		None	12	32	10.2
malviflora ssp.	Siskiyou		Fields	Non		G5		
patula	checkerbloom	17	Landing	e	None	T2	S2	1B.2
Sidalcea	CHECKETOIOOTTI		Larianig		IVOITE	12	- 52	10.2
oregana ssp.	coast		Fields	Non		G5		
eximia	checkerbloom	4	Landing	e	None	T1	<b>S1</b>	1B.2
Sidalcea		<u> </u>						
oregana ssp.	coast		Fields	Non		G5		
eximia	checkerbloom	17	Landing	e	None	T1	<b>S1</b>	1B.2
Sidalcea								
oregana ssp.	coast		Fields	Non		G5		
eximia	checkerbloom	3	Landing	e	None	T1	<b>S1</b>	1B.2
Sidalcea		-	<u> </u>					
oregana ssp.	coast			Non		G5		
eximia	checkerbloom	11	laqua Buttes	е	None	T1	<b>S1</b>	1B.2
Spergularia								
canadensis								
var.	western sand-		Fields	Non		G5		
occidentalis	spurrey	3	Landing	e	None	T4	<b>S1</b>	2B.1
	· · ·		<u> </u>	Can				
Spirinchus			Fields	dida	Threate			
thaleichthys	longfin smelt	4	Landing	te	ned	G5	<b>S1</b>	
				Can				
Spirinchus				dida	Threate			
thaleichthys	longfin smelt	2	Eureka	te	ned	G5	S1	
				Can				
Spirinchus			Fields	dida	Threate			
thaleichthys	longfin smelt	9	Landing	te	ned	G5	S1	
				Can				
Spirinchus				dida	Threate			
thaleichthys	longfin smelt	8	Eureka	te	ned	G5	S1	
				Can				
Spirinchus				dida	Threate			
thaleichthys	longfin smelt	5	Fortuna	te	ned	G5	S1	
				Thre				
Thaleichthys				aten				
pacificus	eulachon	4	Arcata South	ed	None	G5	S1	
Upland	Upland							
Douglas Fir	Douglas Fir			Non			S3.	
Forest	Forest	11	laqua Buttes	е	None	G4	1	
Usnea	Methuselah's			Non				
longissima	beard lichen	15	Redcrest	е	None	G4	S4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	192	Taylor Peak	е	None	G4	S4	4.2

Usnea	Methuselah's			Non				
longissima	beard lichen	211	Taylor Peak	е	None	G4	S4	4.2
Usnea	Methuselah's		McWhinney	Non				
longissima	beard lichen	104	Creek	е	None	G4	S4	4.2
Usnea	Methuselah's		Yager	Non				
longissima	beard lichen	171	Junction	е	None	G4	S4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	194	Taylor Peak	е	None	G4	S4	4.2
Usnea	Methuselah's		McWhinney	Non				
longissima	beard lichen	199	Creek	е	None	G4	S4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	198	Hydesville	е	None	G4	S4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	210	Hydesville	e	None	G4	S4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	172	Owl Creek	e	None	G4	<b>S4</b>	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	88	Taylor Peak	e	None	G4	<b>S4</b>	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	82	Taylor Peak	e	None	G4	<b>S4</b>	4.2
Usnea	Methuselah's		,	Non				
longissima	beard lichen	84	Taylor Peak	е	None	G4	<b>S</b> 4	4.2
Usnea	Methuselah's		.,	Non				
longissima	beard lichen	86	Taylor Peak	е	None	G4	<b>S</b> 4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	75	Scotia	e	None	G4	<b>S</b> 4	4.2
Usnea	Methuselah's		McWhinney	Non				
longissima	beard lichen	200	Creek	e	None	G4	<b>S</b> 4	4.2
Usnea	Methuselah's		O. CCI.	Non	110110	<u> </u>	<u> </u>	
longissima	beard lichen	72	Scotia	e	None	G4	<b>S</b> 4	4.2
Usnea	Methuselah's		3001.0	Non	110110	<u> </u>	<u> </u>	
longissima	beard lichen	193	Taylor Peak	e	None	G4	<b>S</b> 4	4.2
Usnea	Methuselah's	133	Taylor reak	Non	TTOTIC	<u> </u>	<del></del>	7.2
longissima	beard lichen	94	Hydesville	e	None	G4	<b>S</b> 4	4.2
Usnea	Methuselah's		Trydesville	Non	None	<u> </u>	J <del>-</del>	7.2
longissima	beard lichen	90	Hydesville	e	None	G4	<b>S</b> 4	4.2
Usnea	Methuselah's	30	Trydesville	Non	None	04	34	4.2
longissima	beard lichen	196	Hydesville		None	G4	<b>S</b> 4	4.2
Usnea	Methuselah's	190	Trydesville	e Non	None	04	34	4.2
	beard lichen	195	Hydesville		None	G4	C/I	4.2
longissima	Methuselah's	193	inyuesville	e Non	None	G4	S4	4.4
Usnea		101	Taylor Dools	Non	None	C 4	C A	4.2
longissima	beard lichen	191	Taylor Peak	e Non	None	G4	S4	4.2
Usnea	Methuselah's	60	Castia	Non	Maria	C 4	C 4	4.2
longissima	beard lichen	68	Scotia	e	None	G4	S4	4.2
Usnea	Methuselah's	407	11	Non	NI	C 4	C 4	4.3
longissima	beard lichen	197	Hydesville	е	None	G4	S4	4.2

Usnea	Methuselah's			Non				
longissima	beard lichen	58	laqua Buttes	е	None	G4	S4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	55	laqua Buttes	е	None	G4	S4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	188	Scotia	е	None	G4	S4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	186	Scotia	e	None	G4	S4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	187	Taylor Peak	е	None	G4	S4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	168	Redcrest	е	None	G4	S4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	57	laqua Buttes	e	None	G4	S4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	56	laqua Buttes	е	None	G4	S4	4.2
Usnea	Methuselah's		·	Non				
longissima	beard lichen	189	Scotia	e	None	G4	<b>S</b> 4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	160	Bridgeville	e	None	G4	S4	4.2
Usnea	Methuselah's		<u> </u>	Non				
longissima	beard lichen	184	Buckeye Mtn.	е	None	G4	S4	4.2
Usnea	Methuselah's		, , ,	Non				
longissima	beard lichen	166	Redcrest	е	None	G4	<b>S</b> 4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	169	Redcrest	e	None	G4	S4	4.2
Usnea	Methuselah's	103	ricuo.coc	Non	110116	<u> </u>	<u> </u>	
longissima	beard lichen	174	Owl Creek	e	None	G4	<b>S</b> 4	4.2
Usnea	Methuselah's		OWI CICCK	Non	140116		<u> </u>	1.2
longissima	beard lichen	170	Redcrest	e	None	G4	S4	4.2
Usnea	Methuselah's	170	Rederest	Non	IVOITE		J-1	7.2
longissima	beard lichen	173	Owl Creek	e	None	G4	S4	4.2
Usnea	Methuselah's	1/3	OWICICER	Non	IVOITC	<u> </u>	<u> </u>	7.2
longissima	beard lichen	167	Redcrest	e	None	G4	S4	4.2
Usnea	Methuselah's	107	Reductest	Non	None	04	34	4.2
longissima	beard lichen	132	Hydesville	e	None	G4	<b>S</b> 4	4.2
Usnea	Methuselah's	132	пуцезуще	Non	None	04	34	4.2
	beard lichen	42	Oud Crook		None	C1	C 4	4.2
longissima		42	Owl Creek	e Non	none	G4	S4	4.2
Usnea	Methuselah's	124	McWhinney	Non	Mana	64	C 4	4.2
longissima	beard lichen	124	Creek	e Nan	None	G4	S4	4.2
Usnea	Methuselah's	407	McWhinney	Non	N1	~ 4	C 4	4.3
longissima	beard lichen	127	Creek	e	None	G4	S4	4.2
Usnea	Methuselah's	400	McWhinney	Non				4.0
longissima	beard lichen	123	Creek	e	None	G4	S4	4.2
Usnea	Methuselah's	46.		Non		٠.	•	
longissima	beard lichen	121	Hydesville	е	None	G4	S4	4.2

Usnea	Methuselah's		McWhinney	Non				
longissima	beard lichen	125	Creek	е	None	G4	S4	4.2
Usnea	Methuselah's		McWhinney	Non				
longissima	beard lichen	122	Creek	е	None	G4	S4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	126	Hydesville	е	None	G4	S4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	19	Taylor Peak	е	None	G4	S4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	110	Redcrest	е	None	G4	S4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	93	Hydesville	e	None	G4	S4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	109	Scotia	e	None	G4	S4	4.2
Usnea	Methuselah's		McWhinney	Non				
longissima	beard lichen	101	Creek	e	None	G4	<b>S4</b>	4.2
Usnea	Methuselah's		McWhinney	Non				
longissima	beard lichen	103	Creek	e	None	G4	<b>S4</b>	4.2
Usnea	Methuselah's		McWhinney	Non				
longissima	beard lichen	106	Creek	е	None	G4	<b>S</b> 4	4.2
Usnea	Methuselah's		McWhinney	Non				
longissima	beard lichen	102	Creek	e	None	G4	<b>S</b> 4	4.2
Usnea	Methuselah's		McWhinney	Non	110110	<u> </u>	<u> </u>	
longissima	beard lichen	105	Creek	e	None	G4	<b>S</b> 4	4.2
Usnea	Methuselah's	103	CICCR	Non	110110			1.2
longissima	beard lichen	100	Arcata South	e	None	G4	<b>S</b> 4	4.2
Usnea	Methuselah's	100	7 ii cata soutii	Non	110110			1.2
longissima	beard lichen	95	Hydesville	e	None	G4	<b>S</b> 4	4.2
Usnea	Methuselah's		Trydesville	Non	TVOTIC			7.2
longissima	beard lichen	91	Hydesville	e	None	G4	<b>S</b> 4	4.2
Usnea	Methuselah's		Trydesville	Non	TVOTIC			7.2
longissima	beard lichen	96	Hydesville	e	None	G4	<b>S</b> 4	4.2
Usnea	Methuselah's		Tryacsvine	Non	None	<u> </u>	J <del>-</del>	7.2
longissima	beard lichen	97	Hydesville	e	None	G4	<b>S</b> 4	4.2
Usnea	Methuselah's		Tryucsvine	Non	None	<u> </u>	<u> </u>	7.2
longissima	beard lichen	92	Hydesville	e	None	G4	<b>S</b> 4	4.2
Usnea	Methuselah's	32	Trydesville	Non	None	04	- 34	4.2
longissima	beard lichen	99	Hydesville	e	None	G4	<b>S</b> 4	4.2
Usnea	Methuselah's	33	Trydesville	Non	None	04	- 34	4.2
	beard lichen	98	Hydesville		None	G1	C/I	4.2
longissima Usnea	Methuselah's	30	ityuesville	e Non	None	G4	S4	4.4
		90	Owl Crook	Non	None	C 4	C A	4.2
longissima	beard lichen	89	Owl Creek	e Non	None	G4	S4	4.2
Usnea	Methuselah's	0.5	Taulan Daali	Non	Maria	C 4	C 4	4.2
longissima	beard lichen	85	Taylor Peak	e	None	G4	S4	4.2
Usnea	Methuselah's	07	Tauler Deel	Non	NI	C 4	C 4	4.3
longissima	beard lichen	87	Taylor Peak	е	None	G4	S4	4.2

Usnea	Methuselah's			Non				
longissima	beard lichen	83	Taylor Peak	е	None	G4	S4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	80	Scotia	е	None	G4	S4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	76	Scotia	е	None	G4	S4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	73	Scotia	е	None	G4	S4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	78	Scotia	е	None	G4	S4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	61	Scotia	е	None	G4	S4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	79	Scotia	e	None	G4	S4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	74	Scotia	е	None	G4	<b>S4</b>	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	77	Scotia	e	None	G4	<b>S4</b>	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	81	Scotia	е	None	G4	<b>S4</b>	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	67	Scotia	е	None	G4	<b>S</b> 4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	64	Redcrest	е	None	G4	<b>S</b> 4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	69	Scotia	e	None	G4	<b>S</b> 4	4.2
Usnea	Methuselah's		3001.0	Non	110110	<u> </u>	<u> </u>	
longissima	beard lichen	66	Hydesville	e	None	G4	<b>S</b> 4	4.2
Usnea	Methuselah's		Trydesville	Non	140116		<u> </u>	1.2
longissima	beard lichen	71	Scotia	e	None	G4	<b>S</b> 4	4.2
Usnea	Methuselah's	- , -	300114	Non	140116		<u> </u>	1.2
longissima	beard lichen	65	Scotia	e	None	G4	<b>S</b> 4	4.2
Usnea	Methuselah's	- 05	30000	Non	TTOTIC	<u> </u>	<del></del>	
longissima	beard lichen	70	Scotia	e	None	G4	<b>S</b> 4	4.2
Usnea	Methuselah's	70	Jeotia	Non	IVOITC	<u> </u>	J <del>-</del>	7.2
longissima	beard lichen	63	Redcrest	e	None	G4	<b>S</b> 4	4.2
Usnea	Methuselah's	03	Redcrest	Non	None	04	34	4.2
longissima	beard lichen	50	laqua Buttes		None	G4	<b>S</b> 4	4.2
Usnea	Methuselah's	30	laqua buttes	e Non	None	04	34	4.2
	beard lichen	53	lagua Puttos		None	G4	C/I	4.2
longissima Usnea	Methuselah's	JS	laqua Buttes	e Non	None	G4	S4	4.4
		E 4	lagua Buttar	Non	None	C 4	C A	4.2
longissima	beard lichen	54	Iaqua Buttes	e Non	None	G4	S4	4.2
Usnea	Methuselah's	F0	Janua Dutter	Non	Non-	C 4	C 4	4.2
longissima	beard lichen	59	laqua Buttes	e	None	G4	S4	4.2
Usnea	Methuselah's	60	Janua D. U.S.	Non	Main:	C 4	C 4	4.2
longissima	beard lichen	60	laqua Buttes	е	None	G4	S4	4.2

Usnea	Methuselah's			Non				
longissima	beard lichen	51	laqua Buttes	е	None	G4	S4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	52	laqua Buttes	е	None	G4	S4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	49	Owl Creek	е	None	G4	S4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	43	Owl Creek	е	None	G4	S4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	41	Owl Creek	е	None	G4	S4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	48	Owl Creek	e	None	G4	S4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	45	Owl Creek	е	None	G4	S4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	46	Owl Creek	е	None	G4	S4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	47	Owl Creek	е	None	G4	S4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	44	Owl Creek	e	None	G4	S4	4.2
Usnea	Methuselah's			Non				_
longissima	beard lichen	39	Redcrest	e	None	G4	S4	4.2
Usnea	Methuselah's			Non				_
longissima	beard lichen	25	Bridgeville	e	None	G4	S4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	40	Redcrest	e	None	G4	S4	4.2
Usnea	Methuselah's			Non				
longissima	beard lichen	37	Redcrest	e	None	G4	S4	4.2

## **Appendix B: IPAC Report**

**IPaC** 

U.S. Fish & Wildlife Service

# IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

## Location

Humboldt County, California



# Local office

Arcata Fish And Wildlife Office

(707) 822-7201

(707) 822-8411

# **Endangered species**

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

- 1. Draw the project location and click CONTINUE.
- 2. Click DEFINE PROJECT.
- 3. Log in (if directed to do so).
- 4. Provide a name and description for your project.
- 5. Click REQUEST SPECIES LIST.

Listed species<sup>1</sup> and their critical habitats are managed by the <u>Ecological Services Program</u> of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries<sup>2</sup>).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact <u>NOAA Fisheries</u> for <u>species under their jurisdiction</u>.

 Species listed under the <u>Endangered Species Act</u> are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the <u>listing status page</u> for more information. IPaC only shows species that are regulated by USFWS (see FAQ). 2. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

# Mammals

NAME STATUS Pacific Marten, Coastal Distinct Population Segment Threatened Martes caurina Wherever found ATION There is proposed critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/9081

# Birds

DITUS	.71
NAME	STATUS
Marbled Murrelet Brachyramphus marmoratus There is final critical habitat for this species. Your location does not overlap the critical habitat. <a href="https://ecos.fws.gov/ecp/species/4467">https://ecos.fws.gov/ecp/species/4467</a>	Threatened
Northern Spotted Owl Strix occidentalis caurina	Threatened
Wherever found	
There is final critical habitat for this species. Your location does not overlap the critical habitat.	
https://ecos.fws.gov/ecp/species/1123	
NO	122
Western Snowy Plover Charadrius nivosus nivosus There is final critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/8035	Threatened
Valley billed Custon Cosagus americanus	Threatened
Yellow-billed Cuckoo Coccyzus americanus  There is final critical habitat for this species. Your location does not overlap the critical habitat.	meatened
https://ecos.fws.gov/ecp/species/3911	
Insects	
NAME	STATUS

Monarch Butterfly Danaus plexippus

Wherever found

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecp/species/9743

Candidate

Flowering Plants

NAME STATUS

Western Lily Lilium occidentale

Endangered

Wherever found

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecp/species/998

## Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

# Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act<sup>1</sup> and the Bald and Golden Eagle Protection Act<sup>2</sup>.

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described <u>below</u>.

- The Migratory Birds Treaty Act of 1918.
- The Bald and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern <a href="https://www.fws.gov/program/migratory-birds/species">https://www.fws.gov/program/migratory-birds/species</a>
- Measures for avoiding and minimizing impacts to birds <a href="https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds">https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds</a>
- Nationwide conservation measures for birds <a href="https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-">https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-</a>

## measures.pdf

The birds listed below are birds of particular concern either because they occur on the <u>USFWS Birds of Conservation Concern</u> (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ <u>below</u>. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the <u>E-bird data mapping tool</u> (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found <u>below</u>.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Allen's Hummingbird   Sclasphorus sasin  This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/9637">https://ecos.fws.gov/ecp/species/9637</a>	Breeds Feb 1 to Jul 15
Bald Eagle Haliaeetus leucocephalus  This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds Jan 1 to Sep 30
Olive-sided Flycatcher Contopus cooperi This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/3914">https://ecos.fws.gov/ecp/species/3914</a>	Breeds May 20 to Aug 31
Rufous Hummingbird selasphorus rufus  This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.  https://ecos.fws.gov/ecp/species/8002	Breeds Apr 15 to Jul 15

Western Grebe aechmophorus occidentalis

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

https://ecos.fws.gov/ecp/species/6743

Wrentit Chamaea fasciata

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds Mar 15 to Aug 10

Breeds Jun 1 to Aug 31

# Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

## Probability of Presence (III)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

- 1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
- 2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
- 3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

## Breeding Season (\*)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

## Survey Effort (1)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

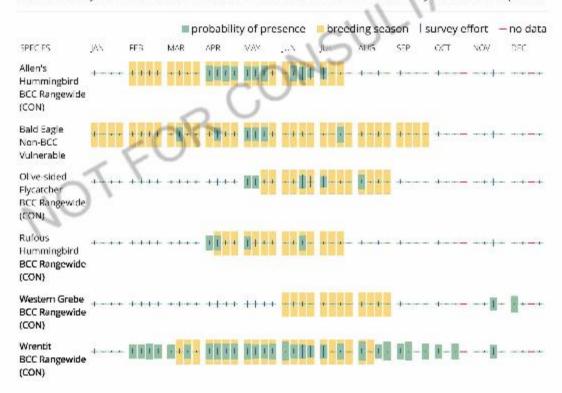
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

#### No Data (-)

A week is marked as having no data if there were no survey events for that week.

## Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

# What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of USPWS <u>Birds of Conservation Concern (BCC)</u> and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the <u>Avian Knowledge Network (AKN)</u>. The AKN data is based on a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the <u>Rapid Avian Information Locator (RAIL) Tool</u>.

# What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the <u>Avian Knowledge Network (AKN)</u>. This data is derived from a growing collection of <u>survey, banding, and citizen science datasets</u>.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

## How do I know if a bird is breeding, wintering or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the <u>RAIL Tool</u> and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

## What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

 "BCC Rangewide" birds are <u>Birds of Conservation Concern</u> (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);

- "BCC BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
- "Non-BCC Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the <u>Eagle Act</u> requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

#### Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the <u>Diving Bird Study</u> and the <u>nanotag studies</u> or contact <u>Caleb Spiegel</u> or <u>Pam Loring</u>.

#### What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur.

#### Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (Indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn

more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

# Coastal Barrier Resources System

Projects within the John H. Chafee Coastal Barrier Resources System (CBRS) may be subject to the restrictions on federal expenditures and financial assistance and the consultation requirements of the Coastal Barrier Resources Act (CBRA) (16 U.S.C. 3501 et seq.). For more information, please contact the local Ecological Services Field Office or visit the CBRA Consultations website. The CBRA website provides tools such as a flow chart to help determine whether consultation is required and a template to facilitate the consultation process.

There are no known coastal barriers at this location.

### **Data limitations**

The CBRS boundaries used in IPaC are representations of the controlling boundaries, which are depicted on the <u>official CBRS maps</u>. The boundaries depicted in this layer are not to be considered authoritative for in/out determinations close to a CBRS boundary (i.e., within the "CBRS Buffer Zone" that appears as a hatched area on either side of the boundary). For projects that are very close to a CBRS boundary but do not clearly intersect a unit, you may contact the Service for an official determination by following the instructions here: <a href="https://www.fws.gov/service/coastal-barrier-resources-system-property-documentation">https://www.fws.gov/service/coastal-barrier-resources-system-property-documentation</a>

#### Data exclusions

CBRS units extend seaward out to either the 20- or 30-foot bathymetric contour (depending on the location of the unit). The true seaward extent of the units is not shown in the CBRS data, therefore projects in the offshore areas of units (e.g., dredging, breakwaters, offshore wind energy or oil and gas projects) may be subject to CBRA even if they do not intersect the CBRS data. For additional information, please contact CBRA@fws.gov.

# **Facilities**

# National Wildlife Refuge lands

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

## Fish hatcheries

There are no fish hatcheries at this location.

# Wetlands in the National Wetlands Inventory (NWI)

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of</u>
<u>Engineers District</u>.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

This location overlaps the following wetlands:

FRESHWATER EMERGENT WETLAND

Palustrine

RIVERINE

Riverine

A full description for each wetland code can be found at the <u>National Wetlands Inventory</u> website

**NOTE**: This initial screening does **not** replace an on-site delineation to determine whether wetlands occur. Additional information on the NWI data is provided below.

#### **Data limitations**

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

#### Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

#### Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.