

Lost Creek Family Farms
Cultivation and Operations Manual
Site Address : Parcel #211-183-008`
Panther Gap Road

Protocols for proper storage and use of fertilizers pesticides and other regulated utilized.

As an organic farm LCFF uses minimal pesticides on our plants and never use pesticides on flowering plants . These chemicals are kept in a locked shipping container to ensure a controlled environment and unauthorized access. In the event an employee is asked to utilize these products they are provided with full protective suits, gloves , face protection and ventilation. LCFF does not use rodenticides.

Description of Site Drainage including run off and erosion control measures

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See Baird Engineering

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Lost Creek Family Farms is very excited to apply for commercial cannabis cultivation in Humboldt County. We look forward to partnering with the county to produce artisanal , high quality sun grown cannabis with a minimal impact to the environment. We plan to pursue the highest ethical standards in regard to cultivation and hiring practices at LCFF. LCFF anticipates vigilantly adhering to all guidelines set by the CMMLUO while simultaneously integrating our own practice of prioritizing local businesses and supporting the local economy. Everyone claims to love their farm and we are no exception . Having experienced so much love and loss on this land we are grateful for this opportunity to change the direction of the narrative and participate in this process and LCFF hopes to receive your blessing. We love living in Humboldt County and raising our family here and are so excited and are so thankful for your consideration.

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Site Address: Parcel #211-184-006

Description of Cultivation Activities

Lost Creek Family Farms is a outdoor mixed light greenhouse cultivation. We grow in plastic covered greenhouses which have supplemental lighting for the spring light deprivation harvest. This lighting is only utilized in the end of May, June, and July. during these times supplemental light is necessary LCFF makes sure to cover the greenhouses with blackout plastic to prevent light leakage and light pollution to the neighborhood. Our farm is limited to two harvests as there is no municipal power from which to draw. Dragging many gallons of diesel up unplowed unpaved mountain roads and insulating/ reinforcing the greenhouses to function during snow is completely impractical and virtually impossible.

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Processing Plan

All processing will be completed on Parcel A in the Pagoda which has ADA compliant bathrooms, access to hand washing stations and a water cooler for safe drinking water.

Emergency contacts (emergency responders , on site managers and poison control) will be posted in plain site. All LLCC employees shall be required to receive proper training on safety and cannabis handling protocol, and will be provided with gloves and face masks

After being harvested cannabis is taken to the Pagoda where it is hung to dry and and cured a process that usually takes 7-10 days. After drying it is trimmed and sorted using a Trinator trim machine by two or three seasonal employees.. All work surfaces and equipment are maintained in a clean and sanitary condition. Strict practices prevent contamination with bacteria and mold and mildew. The product is than tested for further microbes and pending that test distributed legally through True Humboldt.

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Schedule of Cultivation Activities

May - Start purchasing and acclimating clones last two weeks of May

June - Water, fertilize and up pot clones as needed. Put clear plastic back on greenhouse frames as needed for space. Maintenance generators and farm equipment.

July- Water, fertilize and up pot clones as needed. Big leaf plants (Pull Off excess sun leaves)

August - Harvest Light Deprivation cycle . See Processing Plan as well as continue Full Term cycle plant maintenance. Make room for Full Term plants in the greenhouses. Check that fans and wells are functioning in the heat.

September- Full Term plants only at this time. Water , fertilize , tie up plants and big leaf. There is no pest control other than mouse traps at this time.

October/November -Full Term Harvest culminates at this time. See Processing Plan. After the harvest is complete plastic is removed from the greenhouse frames and the property is prepared for dormancy.

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Cultivation cycles and Projected Generator Use

There will be two cycles annually , one in the midsummer and one in the autumn. The midsummer or Light Deprivation Cycle runs from May to August..The full term cycle runs from the end of May until October. During Light Deprivation Harvest supplemental lighting is used in each greenhouse that is powered by a portable Honda generator. These generators are fully compliant with current California regulations in regards to placement, exhaust and noise control .Both cycles use aforementioned generators for airflow as well. The Ranch residence and processing building (the Pagoda) are fully off grid solar panel equipped as part of LCFF's commitment to making environmentally responsible choices whenever possible as well as reducing noise pollution and provide power without the use of generators.

Cultivators shall comply with all applicable federal state and local laws governing California Agricultural Employers . Cultivators are responsible for maintaining sanitary conditions including equipment and preventing processing contamination.

They shall also have access to facemarks and gloves as applicable.

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Water Storage

Parcel "A" has 31,500 gallons of water storage consisting of regulation plastic potable water tanks. Parcel "B" has 31,500 gallons of water storage consisting of regulation plastic potable water tanks and two swaddled water bladders. In addition the ranch house has two 2,500 plastic water potable water tanks for homestead uses. All the water bladders will have a flow meter to accurately measure the well's output.

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Irrigation Plan

When LCFF irrigates our plants we have always tried to use water in a conservative manner, by hand, which allows LCFF to closely monitor the irrigation amount properly. Cultivators are instructed on proper irrigation techniques and how to avoid wasting water. Overwatering results in a host of problems including but not limited to mold, mildew, pests and rot.

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Water Usage

Table 3

May	4,000			
June	10000			
July	30000			
August	30000			
September	30000			
October	5000			
November	1000			

Total Water Usage :110,000 gallons

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Security Plan

LCFF is located behind a locked gate at the end of a dead end private road with access only available to deed holders. There will be a security camera at the only point of entry (aforementioned locked gate).



Lost Creek Farms, LLC
APN: 211-183-008
App# 10821
3/21/2023

Operations Plan Addendum

Power Source

The historic power source for this project has been generator power. This site was approved for a DCC power grant adding a standalone 18KW solar system (9KW of usable power – 50% of total system capacity) to the project. The grant agreement has been executed and submitted to the Humboldt County Planning Department for processing. Once installed the solar system will be the primary power source to support this project and the current low noise Honda 3000is generator will be maintained for back-up use in the event of lack of insolation or in the event of a need to boost batter load to avoid harming the solar system storage bank. Generator power will no longer be the primary power source by or before December 31, 2024.

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Lost Creek Farms, LLC
APN: 211-183-008
App# 10821
4/11/2023

Operations Plan Addendum

Water Source and Storage

This project relies on a hydrologically disconnected from surface water well and proposes the addition of rooftop gutter collection rainwater catchment. This project submitted a DCC water storage grant proposal and was ranked for funding. The proposal will add rooftop gutter collected rainwater to the water source as well as the addition of (13) 5,000 gallon hard poly water tanks adding 65,000 gallons of storage capacity to the existing system. The existing storage capacity is 25,000 gallons consisting of (2) 2,500 gallon hard poly water tanks and a 20,000 gallon water bladder that will be replaced by the proposed new tanks. Resulting total storage once the grant funded infrastructure is implemented will be 70,000 gallons of hard poly tank storage. The grant agreement as provided by the county has been executed and submitted to the Humboldt County Planning Department for processing. Once the grant funding issues, the new tanks and gutter collection system will be purchased and installed by the applicant.

Rain Catchment Water Source Sufficiency

Using rain fall data collected from the Prism Climate Group website averaging the low rain years only (eliminating all average to above average rain years from the table below) indicates an average rainfall for the Honeydew area during low rain years at 63.96 inches annually.

Year	Annual Rain Fall
1985	52.52
1991	62.95
1994	75.70
2007	80.28
2008	78.71
2013	30.78
2015	74.52
2020	56.25
Average rain fall in a low rain year	63.96



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Rain will be collected off the surface of the two canopy greenhouses on this site. Each Greenhouse is 34'x98' for a total proposed rainwater collection surface area of 6,664 square feet of collection area. During an average low rain fall year with 63.96 inches and a conversion factor of .6234, water collection capacity be 265,711 gallons during an average low rain year. During average to above average rain fall years additional rain would be collected. Once installed rain collection will become the primary water source with the well water source providing supplemental water as needed.

Irrigation

Lost Creek Farms, LLC maintains that a combination of hand watering for feeding and drip irrigation is the most effective method to ensure optimal hydration for plants while maintaining close attention to detail so no run off is allowed to occur. This technique benefits the plants by ensuring the plants get optimal hydration and near daily attention and problems can be identified and corrected immediately reducing or eliminating the need for harsh pest treatments.



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