



Seed and Seedlings Ordering Process

CAL FIRE Reforestation Services Program, Lewis A. Moran Reforestation Center

The California Department of Forestry and Fire Protection (“**CAL FIRE**”) is responsible for appropriately stewarding the seed and seedling production at the L.A. Moran Reforestation Center (“**Reforestation Center**” or “**LAMRC**”). The Reforestation Center must observe and comply with directives laid out by the Public Resources Code § 4681 and Board of Forestry Policy 0353.1 regarding seed and nursery operations. Given the year-to-year uncertainty in seed collections, the effort required to wild-collect conifer seed, and limited growing space at the nursery, it may not be possible to supply seed and/or seedlings for all projects in the year requested if at all.

Reforestation Services Program (“**RSP**”) reviews all seed/seedling requests received through the online interest form at regular intervals and prioritizes requests based on Program priorities (explained below).

All Requests:

Requests for seeds and seedlings are to be submitted via the request form on the RSP [webpage](#). RSP reviews all seed and seedling requests received through the online form at regular intervals. **Requests will be evaluated based on our ability to fill the request and by Program priorities (explained later)**. Orders will be matched with seeds from the same seed zone and elevation as the planting site or using the most-suitable alternative according to the [Climate-Adapted Seed Tool](#) developed by UC Davis and the United States Forest Service relative to projected future species migration.

Seed Requests: The seed order form is open from September 1st to December 31st. Sugar Pine, Red Fir and White fir seeds must be ordered by October 31st in the requested year due to longer stratification needs. Except for Research Projects, RSP will only ship seeds directly to an established conifer seedling nursery and not a personal address. The customer is responsible for acquiring their own nursery space. Any communication and related nursery fees are not something handled by CAL FIRE. A non-exhaustive list of conifer seedling nurseries is available on our website or at [this link](#). Nurseries proposed by customers not included there will require additional time for RSP to verify and consider adding to this list.

Seedling Requests: The seedling order form opens by April 1st and remains open until October 31st or when the RSP nursery has reached projected capacity. Please note, capacity is commonly reached by mid-summer. Prospective customers are encouraged to submit their order early and not wait until the October 31st deadline. This timeframe has been established to accommodate the planning, stratification, sowing, and growing timeframes necessary to provide adequately sized seedlings for outplanting. The RSP will grow seedlings at the Reforestation Center to be picked up on

site. Seedlings will either be refrigerated or frozen while in storage awaiting pickup. We will also ship seedlings via FedEx if pre-arranged and paid for by the customer.

Review Process: There is no minimum request quantity, however for efficient use of space and labor, requests under 1,000 seedlings may be denied unless a larger request comes in for the same seed lot. Requests are viewed upon receipt to address any follow up needs. A final review by a panel of RSP staff occurs bi-weekly. As such, requestors should allow up to three weeks to render a response from staff on the results of their request. Following review, prospective customers will be contacted via email to indicate if their request is approved or denied. Requests are accepted on a first come, first serve basis and are fulfilled based on the priority matrix below. Should communication attempts seeking follow up information go unanswered for a period of two weeks, the submitted request may be considered cancelled and the prospective customer will need to submit a new request. Notification of a cancelled order will be provided in writing via email.

First and foremost, RSP will evaluate our ability to fulfill the request based on seeds, space, and labor to fill the request in an economically efficient manner.

Priority for seed and seedling sales will then be based on the following in descending order of priority:

1. Projects intended to reforest land severely disturbed by fire, flooding, pest outbreaks, disease, or other natural events where a Registered Professional Forester (“RPF”) has been consulted and a management plan is in place.
2. Restoration of native tree and plant species threatened with extinction, watershed, and riparian protection.
3. Land being reforested as part of a forest management plan (Timber Harvest Plan, Non-Industrial Timber Management Plan, Working Forest Management Plan, etc.) tree farms, biomass plantations, short-rotation forest products.
4. Research and demonstration projects, including medical studies or trials, climate change adaptation and mitigation, public-benefit nursery start-ups, etc.
5. Windbreaks, revegetation of utility and transportation corridors, and other site stabilization

For all priorities listed or for other intended uses, land ownership will be given preference in the following order:

1. Privately-owned non-industrial and tribal lands
2. State, regional, local government, and public lands
3. Federal, privately-owned industrial and other lands

Trees intended for giveaways or public events are not considered due to seed scarcity.

Interested parties are encouraged to consult with local forestry and natural resource professionals to ensure requests include appropriate species selection, planting design, and other relevant reforestation considerations. Contact directories can be provided by RSP staff upon request.

Approved Requests:

If your request is approved, a formal order will be generated with the seed bank (for seeds that will be grown in another nursery) or the nursery (for seedlings grown at LAMRC).

Seed Bank or Nursery Staff will generate an invoice and email via DocuSign for the prospective customer to review and sign.

Payment is made via check and must be made out to “Reforestation Services Program at 5800 Chiles Road, Davis, CA 95618”. Payment must be received or post-marked within five (5) business days on the signed DocuSign invoice. Payment is required prior to seed shipment. A deposit of 50% for orders of 1,000 seedlings or more, or full payment on orders under 1,000 is required for starting nursery processes. CAL FIRE will not "hold" seed/seedling requests without payment. Should any timeframe not be adhered to by the buyer, the materials will be made available for other requests and a new request will need to be submitted by the original requestor.

Overrun (or excess seedlings) from the nursery may occasionally be available. If overrun exists, quantities will be listed, and an Overrun Interest Form will be posted to the RSP website. Orders are received via the form and are filled on a first come, first serve basis.

General Pricing Information

Pursuant to Public Resources Code (“**PRC**”) § 4684, CAL FIRE’s pricing schedule is subject to Board of Forestry consideration and approval, as are any adjustments or amendments that are made to that schedule. Prices were last updated and approved June 2023. Under no circumstances will seed or seedlings be provided for free, regardless of affiliation or purpose.

Seed Prices

All seed is sold by the pound. Additional species not listed below may be available. Please contact the Seed Bank Manager for more information.

Species	1.0 Pound	Average Seeds/pounds
Coast Redwood	\$832.00	95,364
Giant Sequoia	\$660.00	79,203

Douglas-Fir	\$497.00	30,455
Big Cone Douglas Fir	\$300.00	4,240
White Fir	\$223.00	10,651
Red Fir	\$205.00	5,113
Incense Ceder	\$420.00	15,137
Bishop Pine	\$257.00	45,004
Coulter Pine	\$257.00	1,365
Gray/Foothill Pine	\$257.00	649
Jeffrey Pine	\$230.00	3,585
Ponderosa Pine	\$230.00	9,269
NSTIA Ponderosa Pine*	\$230.00	9,269
Non-BRR Sugar Pine**	\$334.00	1,794
Western White Pine	\$268.00	13,717
Monterey Pine (New Zealand)	\$376.00	15,622
Monterey Pine (Native)	\$257.00	15,622
Knobcone x Monterey Pine	\$376.00	16,020

* NSTIA is the Northern Sierra Tree Improvement Association, of which CAL FIRE is a founding member.

** BRR refers to the Blister Rust Resistant variety of Sugar Pine

Shipping Prices

Pounds	Shipping Price
< 3 lbs.	\$15.00
>3-15 lbs.	\$25.00
>15-25 lbs.	\$35.00
>25-35 lbs.	\$45.00
>35 lbs.	\$45.00 plus \$20 per additional 20 lbs.

Seedling Prices

All seedlings are sold as one-year old plugs. Landowners are encouraged to work with adjacent property owners through their local Resource Conservation District to submit aggregate bulk orders. Orders over 1,000 seedlings are given higher preference and are charged a lesser amount per seedling.

Conifer Seedling Prices

Seedling Amount	Price
1,000 + Seedlings	\$0.50 / seedling
500-999	\$0.55 / seedling

Under 500 Seedlings	\$0.60 / seedling
---------------------	-------------------

Hardwood Seedling Prices

Container Size (cubic inches)	Seedling Age	Price/Seedling
10	1 -year	\$1.50
16	1-year	\$2.40
40	1-year	\$3.00
60	1-year	\$4.00

The Buyer will be charged based on the actual number of seedlings received; if RSP is unable to fill the entire order, the remaining balance owed will be adjusted accordingly while honoring all price per units agreed to in the signed invoice. If RSP can grow more seedlings than originally agreed to in the order, the customer can opt to purchase the additional seedlings.

A list of projected overrun (excess seedlings) will be available on our website along with the overrun request form, generally beginning mid-January and updated weekly until no more overrun exists.

Denied Requests:

Occasionally the RSP is unable to fill a request, either due to a high volume of higher priority requests or a lack of seed. If we are unable to fill your request, we will let you know why. A list of regional nurseries is available on our website.

Mapping Requirement:

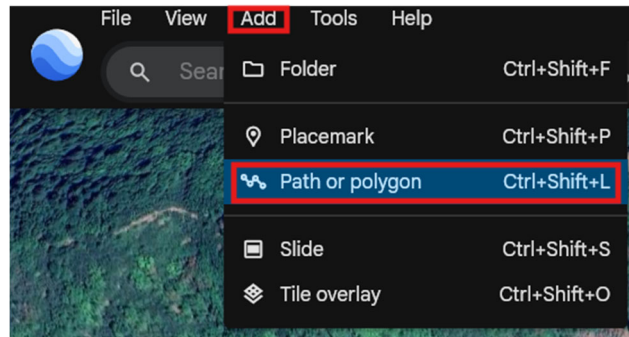
To better understand and track where our limited seed and seedling materials are being used, for all approved orders, RSP requires information on the precise location of the supported reforestation project. Once notification is made to the Buyer of an approved seed or seedling request, the Buyer will be asked to provide a georeferenced polygon of their planting project location.

Acceptable data formats include an ESRI Shapefile or a Google KMZ/L. The process described below details how to create a polygon in Google Earth for those who do not have access to GIS software. The process is simple and requires only a web browser.

1. Navigate to Google Earth in your favorite web browser by going to <http://earth.google.com>

2. You can search for your planting site by typing an address or coordinates into the search bar, or by zooming in on the map to your planting site location.

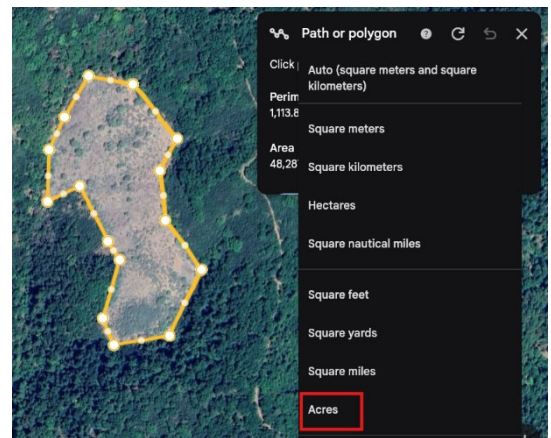
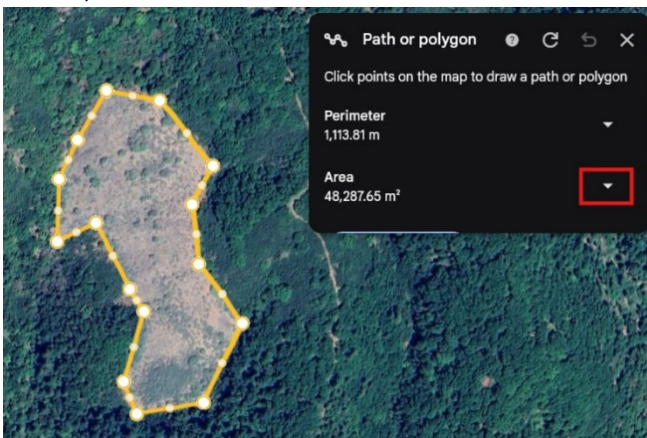
3. Click on the “Add” menu from the top toolbar and select “Path or polygon”



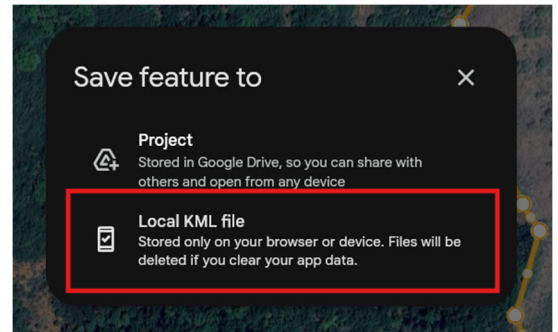
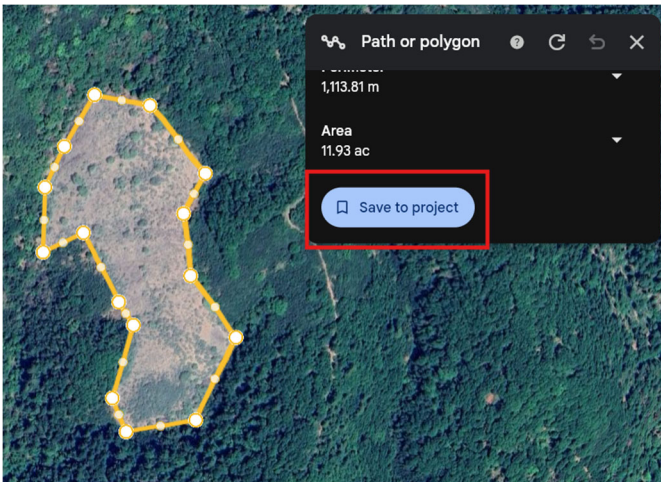
4. Click along the boundary of your planting area. Points will appear as you click. To complete the polygon, make your LAST click the first point you created. You’ll see a small text box that reads “Close shape”, indicating this will create a polygon.



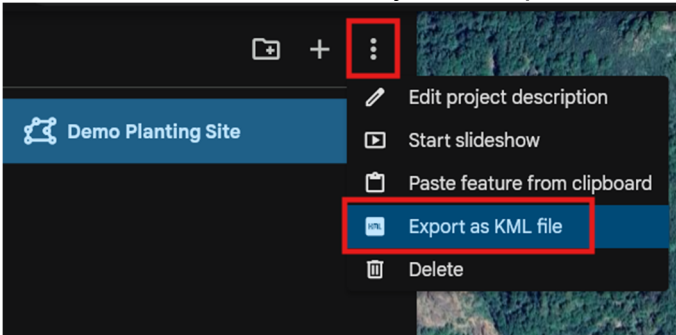
5. In the embedded window in Google Earth, you will see an area calculation. You can change the units from squared meters to acres by selecting the drop down menu, then “Acres”.



6. To export your polygon, scroll down in the popup window with the area calculation, select “Save to project”, then “Local KML file”.



7. You will be prompted to give your polygon a unique title, which we recommend. Once complete, select “Export as KML file” from the left-hand menu and save it to a convenient location on your computer.



8. Attached this KML file to your confirmation email from seed bank or nursery staff.