This attachment goes over how to use the AON, how to determine exceptions, and how to use the excel version instead of the online viewer.

2025 Assessment of Need:

https://experience.arcgis.com/experience/e338af3ee1584 5f5b6cc5a8e949fb390/page/Page/?org=CALFIRE-Forestry

About This Viewer



Video explanation of viewer: CAL FIRE Assessment of Needs (AON)

Welcome! This app is a lookup tool designed for individuals interested in California's reforestation efforts. The app maps statistics on the number of cone bushels needed to meet the 25 percent reforestation goal in non-federal conifer timberlands for 15 common conifer species in California. This information is broken down by seed zones and 500-foot elevation bands. For more information on the underlying analysis, use the **Layers** widget and click on details for the Seed Assessment of Needs layer. Displayed seed zone and elevation band areas are color-coded by collection priority. Priority ranges from the highest colored in red (level 1, more than 100 cone bushels needed across all species of interest to meet reforestation goals) to the lowest in yellow (level 3, 10 cone bushels or less). Areas that appear without a color do not grow any of the 15 conifer species included in this analysis.

The AON is a public-facing tool available on the <u>Reforestation Services Program | CAL FIRE</u> website that is updated yearly.

1. To use the online viewer version, enter your location or address:

Q LaTour Demonstration State Forest	X	Q Boggs Demonstration State Forest X
Search result	^	Boggs Mountain Demonstration State Forest, Cobb, CA,
Latour Demonstration State Forest		USA

2. The viewer will populate at the approximate location, indicated by a red flag, and parcel numbers. As indicated in the "About" window, the map will be color coded by need



3. Clicking the viewer will open a gray pop-up window (see sample screenshot at the top of the next page) with species statistics (the projected bushel need based on current seed inventory), for the selected Seed Zone and Elevation band (SZ.E), and display a smooth aqua-color contour line indicating the upper or lower boundary of the selected elevation band (at 500-ft intervals):



The species that display were generated by vegetation data. The AON does NOT reflect what is present at a location, only what the Seed Bank might be interested in if the species is present.

SZ 522, Elevation 5,501-6,00	00 ft ₽	SZ 380, Elevation 3,001-3,500 ft									
00 ⊕ Zoom to		88 ⊕ Zoom to									
Current Seed M LaTour	Need Statistics	Boggs Current Seed Need Statistics									
Total bushels needed:	316	Total bushels ne	eded:	15							
Bushels by species:	Douglas Fir: 2 Giant Sequoia: 1 Incense Cedar: 37 Jeffrey Pine: 82 Lodgepole Pine: 1 Ponderosa Pine: 30 Red Fir: 61 Sugar Pine: 16 Western White Pine: -1 White Fir: 86	Bushels by spec	ies:	Coast Redwood: Douglas Fir: 8 Incense Cedar: 1 Jeffrey Pine: 1 Knobcone Pine: Lodgepole Pine: Ponderosa Pine: Western White P White Fir: 1	1 1 -3 ine: 1						

- The values shown correspond to the bushels needed for the entirety of the selected Seed Zone and Elevation (SZ.E) band. Negative values indicate that the species is already represented in the Seed Bank inventory (for which we are not pursuing collections). Positive values indicate a need in the Seed Bank.
- The AON methodology is based on the forest acreage footprint and current density of any given species in any selected elevation band. While collections prioritize species with greater bushel need, "lower-need" species will still be considered for collection depending on survey data, resources available, and cone cut test results.
- 4. EXCEPTIONS Many species with "low need" per the AON, are located in lower elevation bands that are climate-adapted to hotter climates.
 - a. Currently, landowners reforesting after fire often find that there is no seed in the Seed Bank for their respective SZ.E. As such, we use the Climate-Adapted Seed Tool | Reforestation Tool (CAST) to identify seed that is climatically suitable.
 - b. Nurseries may use the

Find seed sources button

Coord

c. Foresters surveying in the field may find where that seed might be planted with

Find planting sites

and entering a coordinate or SZ.E

OR 🕻

Zone

- d. In the example of Boggs Demonstration State Forest, which showed "low" bushel need in the AON, the CAST tool reveals that the seeds sourced from that location are climatically-similar to an extensive area of the Coast Ranges (the orange and green areas have the lowest projected decline in productivity or "DP".)
- e. If crops are identified in these "low" but positive need areas, standard tree selection and cone collection standards apply.



To use the EXCEL version of the AON, you may use the "AON Main" tab to find raw data, or you may expand the pivot table to view information specific to your area

Sum of Bushel Need	Elevation band	1																
Seed Zones		500	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500 9
■ 090 Group - North Coast Redwood	 1	1059	2427	1846	821	172	88	97	59	54	9							
		-12	-26	56	65	39	-52	13	21	32	7							
⊞300 Series - North Coast Interior		50	427	484	859	791	822	1225	915	1236	1244	693	380	-3	69	15	6	
■500 Series - West Slope Sierra		9	48	68	58	766	1314	1023	1428	1710	3394	3365	2097	924	719	423	133	88
■700 Series - East Slope Sierra							24	-20	172	2008	1956	2235	3383	2347	1044	605	330	105
⊞952 - Great Basin										4	4	4	4					
■960 Group - Central Valley	1	. 8	8	9	11	13												
■980 Group - SoCal Desert						1	2	5	5	37	62	23	6	6	8	8	4	
⊞990 Group - SoCal Mountains		2	2	6	5	14	51	25	-68	-513	-501	-679	-704	27	-96	-80	-23	51

To find a list of your Unit's SZ, type your three-letter unit after the equal sign in any cell to the right of the pivot table. You may then elect to use the filters provided to find information relevant to your area.

Species						S IS	×		E LMU	524 525	
Big-Cone Douglas Fir				Coast	t Redwoo	bd				720	
Coulter Pine				Douglas Fir					Be sure "multi-select" is	731	
	Giant S	Sequoia		Incen	ise Cedai	r			off to start, or toggling the buttons will remove the	742	
	Seed Zo	ne				絙 🕅			selections from the table.	751	
	100	110	120	130	140	161				760	
	162	163	164	165	301	302			selections, be sure to	772	
	303	311	312	321	322	331			hold the control key down	952	
	332	340	351	352	360	371			criteria in the same filter.		
1											

2. Example for the 500 series in the 3001-3500 elevation band:

	Elevation band
Sum of Bushel Need	(top of band) , ∓
Seed Zones	T 3500
■500 Series - West Slope	Sierra
⊞ 522	195
⊞ 523	-102
≡ 524	
Incense Cedar	49
Jeffrey Pine	11
Ponderosa Pine	-289
Sugar Pine	66
≡ 525	
Incense Cedar	90
Jeffrey Pine	2
Ponderosa Pine	-28
Sugar Pine	2