

AB 1504 California Forest Ecosystem and Harvested Wood Product Carbon Inventory: 2006 – 2015

ERRATUM SHEET

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Erratum sheet - AB 1504 CA Forest Ecosystem and HWP C Inventory: 2006-2015

This erratum sheet serves to correct minor errors in the *AB 1504 California Forest Ecosystem and Harvested Wood Product Carbon Inventory: 2006 – 2015 FINAL REPORT* released in 2017 and posted on the California Board of Forestry and Fire Protection’s website at:

http://bof.fire.ca.gov/board_committees/ab_1504_process/

1. Title page:

Reference to the California Department of Forestry and Fire Protection agreement number should be amended to also reflect the U.S. Forest Service (USFS) agreement number. The following text is added in place of “California Department of Forestry and Fire Protection agreement no. 7CA02025”:

Report completed through an agreement between the U.S. Forest Service (Agreement No. 14-FI-11052021-220) and California Department of Forestry and Fire Protection (Agreement No. 7CA02025)

The 2015 report posted on the Board of Forestry and Fire Protection’s website has been updated with this information.

2. Second title page:

Suggested report citation should reflect USFS agreement number. Revise to:

Christensen, G.A.; Gray, A.N.; Kuegler, O.; Tase, N.A.; Rosenberg, M. 2017. AB 1504 California Forest Ecosystem and Harvested Wood Product Carbon Inventory: 2006 - 2015. Final Report. U.S. Forest Service agreement no. 14-FI-11052021-220 and California Department of Forestry and Fire Protection agreement no. 7CA02025. Sacramento, CA: California Department of Forestry and Fire Protection and California Board of Forestry and Fire Protection. 390 p.

The 2015 report posted on the Board of Forestry and Fire Protection’s website has been updated with this information.

3. Second title page:

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The 2015 report posted on the Board of Forestry and Fire Protection’s website has been updated with this information.

4. P. 3: Average net annual forest carbon dioxide sequestration – by owner:

The 4th bullet states that “State and local governments contribute 2.6% of the statewide annual flux at a rate of 2.6 ± 0.96 MMT CO₂e per year (figure 4.1).” The statewide annual flux value of 2.6% should be corrected to 8.0%.

5. P. 4: Average net annual forest carbon dioxide sequestration – by owner:

The 8th bullet states that, “The annual net rate of carbon sequestration per acre is greatest on timberland owned by private individuals at 1.33 ± 0.22 metric tons of CO₂e per acre per year (Figure 4.4, Table 4.4).”

This value is actually for all *forestland* for private individuals and is highest compared to the ownership categories depicted in Figure 4.4 and Table 4.4. However, the annual net per acre rate of sequestration on all forestland for state and local government is slightly higher at approximately 2.01 ± 0.79 metric tons of CO₂e per acre per year (see Erratum Appendix, Table B10).

6. P. 5: Carbon stocks for forest land remaining forest land (FF) by owner:

The 4th bullet states that “Approximately 62% of the forest carbon stores are found on unreserved timberland (273 MMT C, Figure 4.10).”

The value for unreserved timberland of 273 is actually the value for unreserved other forest land and should be corrected to 1,276 MMT C to reflect the correct value for unreserved timberland and represents approximately 62% of the carbon stores as listed. This correct value for unreserved timberland carbon stocks is correct in table 4.12.

7. P. 39 - Table 4.1:

Sampling Error (SE) for “belowground dead” incorrectly entered as 0.02 instead of 0.2. Correct in appendix tables.

8. P. 45 – Figure 4.4:

Private corporate and non-corporate bars display unreserved forestland, not timberland as the figure is labelled. USDA FS values and All Forest Land values correctly show timberland.

Correct figure to display unreserved timberland¹:

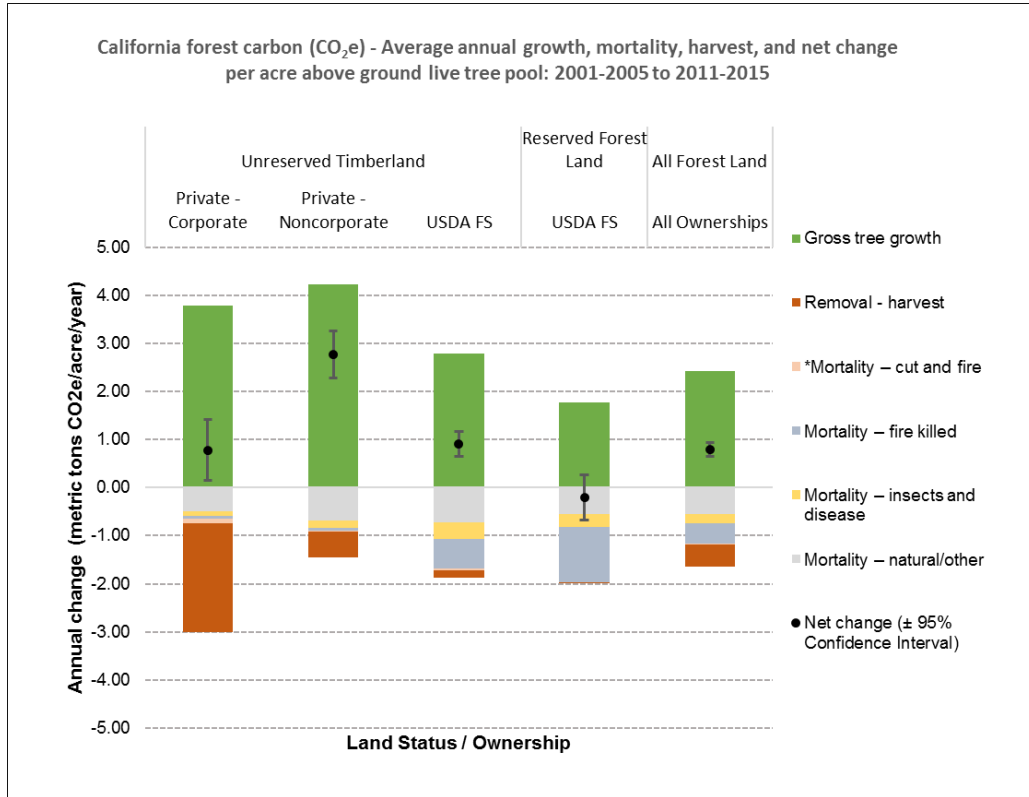
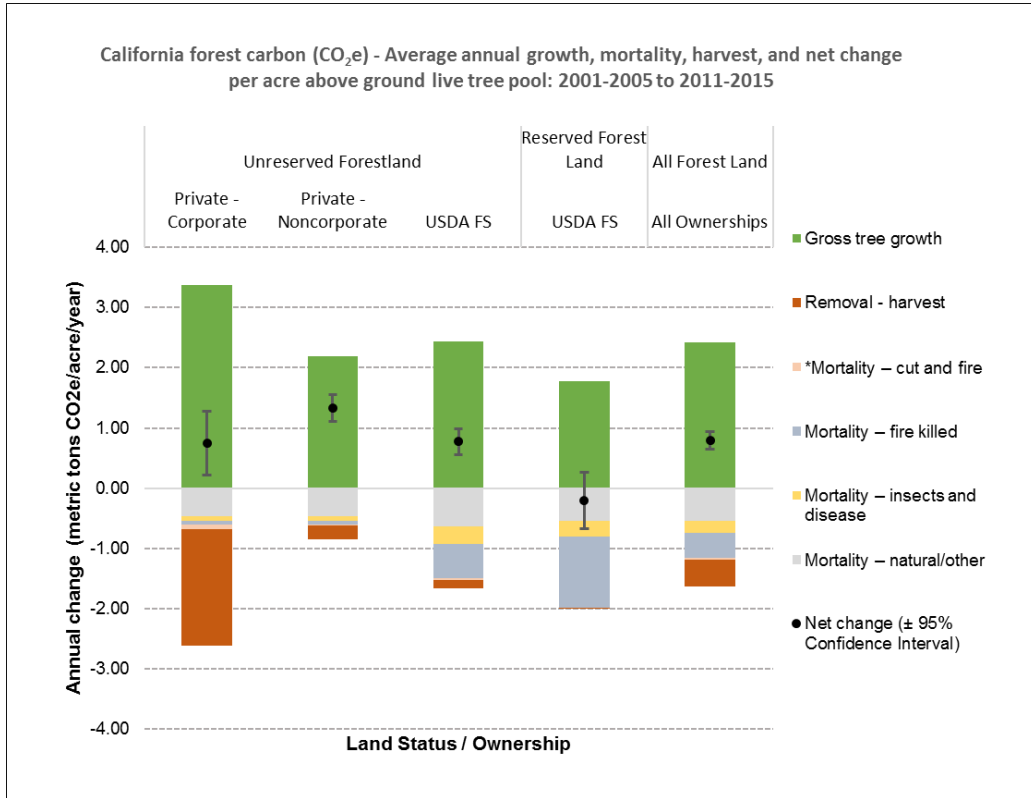


Figure 4.4. Average annual growth, mortality, harvest, and net change per acre in aboveground live tree carbon pool by ownership and land status of California’s forests (MT CO₂e/acre/year), 2001-2005 to 2011-2015. The “all ownerships” category includes all other state and federal agencies managing fewer overall acres of forest land in California. The error bars represent the 95% confidence interval of net change. Figure derived from Appendix 2, Table B10.

Correct figure to display unreserved forestland¹:

While the report figure is meant to display information for unreserved timberland, below is a figure depicting the correct data for unreserved forestland for comparison.



9. P. 46 – Table 4.4:

Values listed for National Forests are for unreserved timberland, not forestland as the table is labelled. Private corporate and non-corporate, USDA FS reserved and All Forest Land values correctly show forestland.

Correct table to display unreserved timberland¹:

Table 4.4. Average annual growth, mortality, harvest, and net change per acre in aboveground live tree carbon pool by ownership and land status of California’s forests, 2001-2005 to 2011-2015. The “all ownerships” category includes all other state and federal agencies managing fewer overall acres of forest land in California. Table derived from Appendix 2, Table B10. Average annual net change totals for the aboveground live tree carbon pool by ownership and land status found in table 4.6.

	Unreserved Timberland			Reserved Forest Land	All Forest Land
	Private - Corporate	Private - Noncorporate	USDA FS	USDA FS	All Ownerships
	<i>Metric tons CO2e/acre/year</i>				
Gross tree growth	3.77	4.23	2.78	1.78	2.42
Removal - harvest	-2.26	-0.54	-0.16	-0.01	-0.45
Mortality – fire killed	-0.05	-0.06	-0.62	-1.17	-0.42
*Mortality – cut and fire	-0.1	-0.02	-0.04	0	-0.03
Mortality – insects and disease	-0.09	-0.15	-0.34	-0.26	-0.19
Mortality – natural/other	-0.5	-0.68	-0.72	-0.55	-0.55
Net change (± 95% Confidence Interval)	0.78	2.77	0.9	-0.2	0.79
95% CI	0.63	0.49	0.26	0.47	0.15

Correct table to display unreserved forestland¹:

While the report table is meant to display information for unreserved timberland, below is a figure depicting the correct data for unreserved forestland for comparison.

	Unreserved Forestland			Reserved Forest Land	All Forest Land
	Private - Corporate	Private - Noncorporate	USDA FS	USDA FS	All Ownerships
	<i>Metric tons CO2e/acre/year</i>				
Gross tree growth	3.37	2.19	2.43	1.78	2.42
Removal - harvest	-1.93	-0.23	-0.14	-0.01	-0.45
Mortality – fire killed	-0.05	-0.07	-0.57	-1.17	-0.42
*Mortality – cut and fire	-0.08	-0.01	-0.03	0	-0.03
Mortality – insects and disease	-0.09	-0.07	-0.30	-0.26	-0.19
Mortality – natural/other	-0.46	-0.47	-0.63	-0.55	-0.55
Net change (± 95% Confidence Interval)	0.75	1.33	0.77	-0.2	0.79
95% CI	0.53	0.22	0.22	0.47	0.15

10. Table addition:

New Appendix 2, Table B11 added to show net flux totals by ownership for timberland.¹ This table was not originally included in the report. See Erratum Appendix for new table.

11. Table addition:

New Appendix 2, Table B12 added to show net flux per acre by ownership for timberland.¹ This table was not originally included in the report. See Erratum Appendix for new table.

12. P. 51, Table 4.6/Appendix 2, Table B9; also Appendix 2, Table B10

“Other forest” category included reserved land status productivity site class 7 and unreserved site class 7. Reserved site class 7 was also in “reserved” category, so this productivity site class was double counted. These tables also omitted a separate category for lands with less than 25% disturbance.

A corrected Appendix 2, Table B9 and B10 is included with “other forest” including unreserved site class 7 only, as well as a category for lands with less than 25% disturbance.¹

See Erratum Appendix for corrected tables.

13. P. 68-69, Figure 4.12 and Table 4.21:

Sampling errors are incorrect and lower than they should be. A corrected Table 4.21 is included, reflecting the correct sampling errors.¹

Consequently, in figure 4.13 the 95% confidence intervals are lower than they should be. An updated figure is included, reflecting the correct confidence interval.

See Erratum Appendix for corrected table and figure.

14. P. 70-71, Figure 4.13 and Table 4.22:

In table 4.22, sampling errors are incorrect and lower than they should be. A corrected Table 4.22 is included, reflecting the correct sampling errors.¹

Consequently, in figure 4.12 the 95% confidence intervals are lower than they should be. An updated figure is included, reflecting the correct confidence interval.

See Erratum Appendix for corrected table and figure.

15. P. 73, Table 4.24:

Table 4.24 summarizes aboveground live flux, but the table omitted flux associated with foliage. This value can be found in table 4.3 on p. 41. An updated table is included with flux from foliage.

See Erratum Appendix for corrected table.

16. P. 81, Table 4.32:

Table 4.32 is mislabeled and shows unreserved forestland values instead of timberland. A corrected Table 4.32 is included, reflecting the correct timberland values.¹

See Erratum Appendix for corrected table.

17. P. 82, Table 4.33:

Table 4.33 is mislabeled and shows unreserved forestland values instead of timberland. A corrected Table 4.33 is included, reflecting the correct timberland values.¹

See Erratum Appendix for corrected table.

18. Appendix 1, Tables A1.1.1 to A1.7.1 and Figures A1.1.1 to A1.7.1

In tables A1.1.1 to A1.7.1, sampling errors are incorrect and lower than they should be. Corrected tables are included to reflect correct sampling errors.¹

Consequently, in figures A1.1.1 to A7.1.1 the 95% confidence intervals are lower than they should be. Updated figures are included, reflecting the correct confidence interval.

See Erratum Appendix for corrected tables and figures.

19. Appendix 1, Tables A1.1.2 to A1.7.2 and Figures A1.1.2 to A1.7.2

In tables A1.1.2 to A1.7.2 sampling errors are incorrect and lower than they should be. Corrected tables are included to reflect correct sampling errors.¹

Consequently, in figures A1.1.2 to A7.1.2 the 95% confidence intervals are lower than they should be. Updated figures are included, reflecting the correct confidence interval.

See Erratum Appendix for corrected tables and figures.

20. Appendix 2, Table C42

Table C42 should have also included belowground understory vegetation carbon in addition to aboveground. See Erratum Appendix for corrected table.

¹For the 2015 measurement year, 41 out of 536 forested plots intended to be measured that year were actually measured in 2016. Updated data provided in this erratum include those plots. Overall, the complete 10-year cycle consists of 5425 forested plots, therefore including these additional 41 plots changed some of the updated estimates only slightly from what was provided in the original 2015 report.

2015 Erratum Appendix

Table B9: Annual Net Change in Carbon Stocks for Aboveground Pools on Forest Land by Disturbance, Forest Land Status and Owner Group, 2001-2005 to 2011-2015: All California

	USDA Forest Service						Other Public				Private				Total		Total			
	Timberland		Reserved		Low productive, unreserved		Total		Other federal		State and local govt.		Corporate						Non Corporate	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE		
<i>thousand metric tons CO2 equivalent per year</i>																				
Cut																				
Mortality	-184	93	-9	10	--	--	-193	94	--	--	--	--	-359	84	-177	71	-536	109	-728	144
Cut	-1,136	295	-5	5	--	--	-1,141	295	-8	9	--	--	-8,469	1,220	-937	380	-9,406	1,265	-10,555	1,299
Gross Growth	1,164	221	22	23	--	--	1,186	222	20	21	--	--	3,549	407	882	261	4,431	471	5,636	522
Net Live	-156	214	8	9	--	--	-148	214	11	12	--	--	-5,279	1,057	-231	331	-5,510	1,105	-5,647	1,126
Standing Dead Change	-174	99	--	--	--	--	-174	99	--	--	--	--	-116	88	29	46	-87	99	-261	140
Dead Woody Debris Change	-131	97	-2	2	--	--	-133	97	6	7	--	--	-582	294	37	187	-545	349	-672	362
Total Net ¹	-514	340	7	8	--	--	-507	340	20	21	--	--	-7,154	1,424	-211	431	-7,366	1,486	-7,852	1,525
Cut and Fire																				
Mortality	-326	180	--	--	--	--	-326	180	--	--	--	--	-466	197	-49	49	-515	203	-842	271
Cut	-110	58	--	--	--	--	-110	58	--	--	--	--	-1,172	543	--	--	-1,172	543	-1,282	546
Gross Growth	226	95	--	--	--	--	226	95	--	--	--	--	229	86	8	8	237	87	463	129
Net Live	-210	167	--	--	--	--	-210	167	--	--	--	--	-1,410	577	-41	41	-1,451	578	-1,661	602
Standing Dead Change	34	81	--	--	--	--	34	81	--	--	--	--	152	80	-11	11	141	81	175	115
Dead Woody Debris Change	-4	32	--	--	--	--	-4	32	--	--	--	--	62	142	-12	12	50	142	46	146
Total Net ¹	-217	165	--	--	--	--	-217	165	--	--	--	--	-1,458	613	-72	72	-1,530	617	-1,747	639
Fire																				
Mortality	-5,499	900	-4,689	923	-578	189	-10,766	1,302	-772	322	-302	164	-278	110	-449	154	-727	189	-12,566	1,364
Cut	-40	28	--	--	--	--	-40	28	--	--	--	--	-19	17	-56	35	-75	39	-115	49
Gross Growth	1,979	283	1,354	242	159	57	3,493	378	442	142	64	40	163	70	262	89	425	113	4,423	421
Net Live	-3,559	786	-3,335	814	-419	166	-7,313	1,143	-330	226	-238	129	-134	87	-243	113	-377	142	-8,258	1,181
Standing Dead Change	2,085	605	1,309	531	135	131	3,529	816	148	90	85	52	-12	90	3	69	-9	113	3,753	830
Dead Woody Debris Change	-559	225	182	209	-9	54	-385	312	-103	50	19	53	-136	68	217	117	81	136	-389	348
Total Net ¹	-2,402	612	-2,317	682	-375	184	-5,094	934	-380	261	-169	133	-311	182	-87	126	-398	222	-6,042	1,003
Insect and Disease																				
Mortality	-3,064	411	-1,039	298	-98	66	-4,201	511	-432	150	-172	107	-488	124	-435	122	-923	173	-5,728	568
Cut	-68	37	--	--	--	--	-68	37	--	--	--	--	-45	25	-44	30	-89	39	-156	54
Gross Growth	4,648	450	834	177	46	26	5,527	483	463	149	318	140	949	211	867	204	1,817	290	8,125	596
Net Live	1,516	384	-205	234	-52	42	1,259	452	31	98	146	91	417	118	388	111	805	160	2,241	497
Standing Dead Change	83	281	231	126	13	13	327	308	133	84	-57	115	-38	55	18	81	-20	97	383	353
Dead Woody Debris Change	333	285	266	207	26	22	626	353	131	99	90	126	10	77	7	64	17	100	863	399
Total Net ¹	2,347	475	325	194	-24	54	2,647	517	337	151	217	119	478	164	511	187	989	248	4,190	602
Other cut and weather																				
Mortality	-533	161	-292	107	-87	49	-911	198	-35	19	-1	1	-264	119	-262	73	-526	139	-1,474	243
Cut	-87	36	-16	16	--	--	-103	39	--	--	-5	5	-332	132	-175	88	-507	157	-615	162
Gross Growth	1,169	236	365	114	82	47	1,615	264	115	72	58	59	978	253	711	190	1,690	314	3,478	421
Net Live	549	168	57	92	-5	18	601	193	80	72	53	53	383	190	274	152	656	244	1,390	323
Standing Dead Change	-29	106	-66	119	28	18	-67	160	13	11	-19	21	17	12	125	46	142	47	68	169
Dead Woody Debris Change	115	143	127	84	37	46	278	172	10	22	59	48	-390	208	213	143	-177	253	170	310
Total Net ¹	753	214	101	143	56	48	910	259	121	94	99	63	83	243	689	239	772	342	1,901	443
Less than 25% disturbed																				
Mortality	-5,675	550	-1,902	288	-264	69	-7,842	618	-1,247	273	-802	328	-1,902	224	-2,549	242	-4,451	318	-14,341	812
Cut	-24	13	-1	1	-2	2	-27	14	--	--	-3	4	-627	166	-264	98	-891	191	-922	192
Gross Growth	15,584	694	4,614	427	926	159	21,124	775	3,419	400	2,857	380	12,686	851	11,041	735	23,727	974	51,127	1,318
Net Live	9,885	696	2,710	385	660	150	13,255	784	2,172	367	2,051	392	10,156	772	8,229	657	18,385	907	35,863	1,286
Standing Dead Change	381	362	-404	275	-101	52	-123	457	-305	198	49	46	285	205	201	171	486	267	107	568
Dead Woody Debris Change	-738	415	77	299	27	110	-635	522	143	313	-74	105	-306	378	-144	282	-450	471	-1,016	778
Total Net ¹	12,012	817	2,910	528	679	178	15,600	956	2,448	498	2,506	458	12,648	1,008	10,092	831	22,740	1,182	43,295	1,634
Total																				
Mortality	-15,281	1,065	-7,931	908	-1,026	216	-24,238	1,399	-2,486	420	-1,277	370	-3,757	354	-3,921	332	-7,678	464	-35,679	1,566
Cut	-1,464	305	-22	17	-2	2	-1,488	306	-9	9	-8	6	-10,664	1,341	-1,476	404	-12,140	1,381	-13,645	1,415
Gross Growth	24,770	674	7,188	435	1,213	176	33,171	706	4,459	407	3,297	367	18,554	883	13,772	794	32,326	911	73,253	1,187
Net Live	8,024	1,193	-764	949	184	231	7,444	1,531	1,964	460	2,012	420	4,133	1,497	8,375	769	12,508	1,661	23,928	2,334
Standing Dead Change	2,381	772	1,070	616	76	143	3,526	997	-11	237	58	139	289	260	364	211	653	335	4,225	1,087
Dead Woody Debris Change	-984	580	650	429	81	132	-253	732	186	337	93	178	-1,343	548	318	391	-1,025	674	-998	1,066
Total Net ¹	11,979	1,204	1,026	920	335	268	13,340	1,515	2,546	600	2,653	497	4,286	1,934	10,921	987	15,207	2,152	33,746	2,727

¹Total Net value includes change from roots and understory vegetation which are not enumerated in this table.

Table B10: Annual Net Change Per Acre in Carbon Stock for Aboveground Pools on Forest Land by Disturbance, Forest Land Status and Owner Group, 2001-2005 to 2011-2015:

	USDA Forest Service								Other Public				Private				Total			
	Timberland		Reserved		Low productive, unreserved		Total		Other federal		State and local govt.		Corporate		Non Corporate			Total		
	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE		Mean	SE	
<i>metric tons CO2 equivalent per year and acre</i>																				
Cut																				
Mortality	-0.0206	0.0105	-0.0023	0.0023	--	--	-0.0131	0.0064	--	--	--	--	-0.0651	0.0152	-0.0280	0.0112	-0.0453	0.0093	-0.0241	0.0048
Cut	-0.1274	0.0329	-0.0012	0.0012	--	--	-0.0775	0.0200	-0.0031	0.0031	--	--	-1.5366	0.2156	-0.1487	0.0601	-0.7962	0.1071	-0.3489	0.0429
Gross Growth	0.1306	0.0248	0.0055	0.0055	--	--	0.0806	0.0151	0.0072	0.0076	--	--	0.6439	0.0712	0.1400	0.0410	0.3751	0.0399	0.1863	0.0173
Net Live	-0.0175	0.0240	0.0020	0.0020	--	--	-0.0100	0.0146	0.0041	0.0042	--	--	-0.9579	0.1890	-0.0367	0.0525	-0.4665	0.0936	-0.1866	0.0372
Standing Dead Change	-0.0195	0.0111	--	--	--	--	-0.0118	0.0067	--	--	--	--	-0.0211	0.0159	0.0046	0.0073	-0.0074	0.0084	-0.0086	0.0046
Dead Woody Debris Change	-0.0147	0.0109	-0.0006	0.0006	--	--	-0.0090	0.0066	0.0021	0.0024	--	--	-0.1056	0.0532	0.0059	0.0297	-0.0461	0.0296	-0.0222	0.0120
Total Net	-0.0577	0.0381	0.0018	0.0018	--	--	-0.0345	0.0231	0.0074	0.0079	--	--	-1.2981	0.2545	-0.0335	0.0683	-0.6235	0.1258	-0.2595	0.0504
Cut and Fire																				
Mortality	-0.0366	0.0202	--	--	--	--	-0.0222	0.0123	--	--	--	--	-0.0846	0.0356	-0.0078	0.0078	-0.0436	0.0171	-0.0278	0.0090
Cut	-0.0124	0.0065	--	--	--	--	-0.0075	0.0040	--	--	--	--	-0.2127	0.0982	--	--	-0.0992	0.0459	-0.0424	0.0180
Gross Growth	0.0254	0.0107	--	--	--	--	0.0154	0.0065	--	--	--	--	0.0415	0.0156	0.0013	0.0013	0.0201	0.0073	0.0153	0.0043
Net Live	-0.0236	0.0187	--	--	--	--	-0.0143	0.0113	--	--	--	--	-0.2558	0.1043	-0.0065	0.0065	-0.1228	0.0489	-0.0549	0.0199
Standing Dead Change	0.0038	0.0091	--	--	--	--	0.0023	0.0055	--	--	--	--	0.0277	0.0145	-0.0018	0.0018	0.0119	0.0068	0.0058	0.0038
Dead Woody Debris Change	-0.0004	0.0036	--	--	--	--	-0.0003	0.0022	--	--	--	--	0.0112	0.0257	-0.0019	0.0019	0.0042	0.0120	0.0015	0.0048
Total Net	-0.0243	0.0185	--	--	--	--	-0.0147	0.0112	--	--	--	--	-0.2646	0.1109	-0.0114	0.0114	-0.1295	0.0522	-0.0577	0.0211
Fire																				
Mortality	-0.6170	0.1005	-1.1690	0.2313	-0.3242	0.1032	-0.7320	0.0883	-0.2826	0.1173	-0.3011	0.1638	-0.0505	0.0199	-0.0712	0.0243	-0.0615	0.0160	-0.4154	0.0451
Cut	-0.0044	0.0032	--	--	--	--	-0.0027	0.0019	--	--	--	--	-0.0034	0.0034	-0.0089	0.0056	-0.0064	0.0033	-0.0038	0.0016
Gross Growth	0.2221	0.0316	0.3376	0.0607	0.0892	0.0312	0.2375	0.0257	0.1618	0.0516	0.0636	0.0402	0.0295	0.0126	0.0416	0.0141	0.0360	0.0096	0.1462	0.0139
Net Live	-0.3993	0.0880	-0.8314	0.2035	-0.2350	0.0919	-0.4972	0.0776	-0.1208	0.0824	-0.2375	0.1281	-0.0243	0.0158	-0.0385	0.0178	-0.0319	0.0120	-0.2730	0.0390
Standing Dead Change	0.2339	0.0678	0.3263	0.1326	0.0759	0.0732	0.2399	0.0554	0.0542	0.0328	0.0848	0.0515	-0.0021	0.0163	0.0004	0.0110	-0.0008	0.0096	0.1241	0.0275
Dead Woody Debris Change	-0.0627	0.0253	0.0455	0.0521	-0.0050	0.0300	-0.0262	0.0212	-0.0379	0.0183	0.0188	0.0529	-0.0247	0.0123	0.0344	0.0186	0.0068	0.0115	-0.0129	0.0115
Total Net	-0.2695	0.0685	-0.5777	0.1703	-0.2105	0.1022	-0.3464	0.0634	-0.1392	0.0953	-0.1690	0.1327	-0.0565	0.0330	-0.0138	0.0200	-0.0337	0.0187	-0.1997	0.0331
Insect and Disease																				
Mortality	-0.3438	0.0458	-0.2590	0.0744	-0.0547	0.0367	-0.2856	0.0346	-0.1582	0.0547	-0.1719	0.1054	-0.0885	0.0223	-0.0691	0.0192	-0.0781	0.0146	-0.1893	0.0188
Cut	-0.0076	0.0042	--	--	--	--	-0.0046	0.0025	--	--	--	--	-0.0081	0.0045	-0.0070	0.0047	-0.0075	0.0033	-0.0052	0.0018
Gross Growth	0.5215	0.0495	0.2078	0.0440	0.0256	0.0144	0.3758	0.0327	0.1697	0.0541	0.3175	0.1398	0.1723	0.0378	0.1376	0.0319	0.1538	0.0245	0.2686	0.0197
Net Live	0.1701	0.0430	-0.0511	0.0583	-0.0291	0.0233	0.0856	0.0307	0.0114	0.0359	0.1456	0.0916	0.0756	0.0213	0.0616	0.0174	0.0681	0.0136	0.0741	0.0164
Standing Dead Change	0.0093	0.0315	0.0577	0.0313	0.0070	0.0070	0.0223	0.0209	0.0486	0.0308	-0.0571	0.1155	-0.0069	0.0099	0.0028	0.0128	-0.0017	0.0082	0.0127	0.0117
Dead Woody Debris Change	0.0374	0.0319	0.0664	0.0516	0.0147	0.0125	0.0426	0.0240	0.0480	0.0363	0.0897	0.1258	0.0018	0.0139	0.0010	0.0101	0.0014	0.0084	0.0285	0.0132
Total Net	0.2633	0.0530	0.0810	0.0483	-0.0136	0.0301	0.1800	0.0351	0.1234	0.0553	0.2166	0.1180	0.0868	0.0297	0.0811	0.0296	0.0837	0.0210	0.1385	0.0199
Other cut and weather																				
Mortality	-0.0598	0.0181	-0.0728	0.0265	-0.0486	0.0269	-0.0620	0.0135	-0.0129	0.0068	-0.0008	0.0008	-0.0479	0.0215	-0.0416	0.0114	-0.0446	0.0117	-0.0487	0.0080
Cut	-0.0098	0.0041	-0.0040	0.0039	--	--	-0.0070	0.0027	--	--	-0.0045	0.0045	-0.0602	0.0239	-0.0278	0.0139	-0.0429	0.0133	-0.0203	0.0054
Gross Growth	0.1311	0.0264	0.0910	0.0281	0.0458	0.0258	0.1098	0.0179	0.0421	0.0265	0.0582	0.0581	0.1775	0.0455	0.1129	0.0300	0.1430	0.0266	0.1150	0.0139
Net Live	0.0616	0.0189	0.0142	0.0229	-0.0028	0.0102	0.0409	0.0131	0.0292	0.0263	0.0528	0.0523	0.0694	0.0344	0.0434	0.0241	0.0556	0.0207	0.0459	0.0107
Standing Dead Change	-0.0033	0.0119	-0.0166	0.0297	0.0159	0.0101	-0.0046	0.0109	0.0047	0.0041	-0.0193	0.0193	0.0031	0.0021	0.0198	0.0072	0.0120	0.0040	0.0022	0.0056
Dead Woody Debris Change	0.0129	0.0161	0.0316	0.0209	0.0207	0.0255	0.0189	0.0117	0.0038	0.0080	0.0585	0.0475	-0.0708	0.0378	0.0338	0.0227	-0.0150	0.0214	0.0056	0.0103
Total Net	0.0845	0.0240	0.0253	0.0355	0.0314	0.0270	0.0619	0.0176	0.0442	0.0342	0.0986	0.0619	0.0150	0.0441	0.1093	0.0379	0.0653	0.0290	0.0629	0.0147
Less than 25% disturbed																				
Mortality	-0.6368	0.0610	-0.4743	0.0708	-0.1479	0.0376	-0.5332	0.0419	-0.4564	0.0978	-0.8005	0.3255	-0.3451	0.0391	-0.4044	0.0360	-0.3767	0.0264	-0.4740	0.0268
Cut	-0.0027	0.0015	-0.0003	0.0002	-0.0012	0.0012	-0.0018	0.0009	-0.0002	0.0002	-0.0034	0.0034	-0.1138	0.0299	-0.0419	0.0155	-0.0754	0.0162	-0.0305	0.0063
Gross Growth	1.7485	0.0736	1.1503	0.0976	0.5193	0.0802	1.4363	0.0524	1.2517	0.1334	2.8515	0.3429	2.3018	0.1376	1.7519	0.0992	2.0084	0.0803	1.6899	0.0434
Net Live	1.1091	0.0765	0.6757	0.0916	0.3701	0.0787	0.9013	0.0532	0.7951	0.1283	2.0477	0.3714	1.8429	0.1285	1.3056	0.0931	1.5563	0.0756	1.1854	0.0425
Standing Dead Change	0.0428	0.0406	-0.1007	0.0682	-0.0564	0.0285	-0.0084	0.0311	-0.1117	0.0724	0.0490	0.0459	0.0518	0.0372	0.0319	0.0272	0.0412	0.0226	0.0035	0.0188
Dead Woody Debris Change	-0.0829	0.0465	0.0192	0.0745	0.0149	0.0615	-0.0432	0.0355	0.0522	0.1146	-0.0742	0.1048	-0.0555	0.0686	-0.0228	0.0448	-0.0381	0.0399	-0.0336	0.0257
Total Net	1.3477	0.0898	0.7256	0.1287	0.3804	0.0960	1.0607	0.0654	0.8962	0.1756	2.5016	0.4314	2.2950	0.1694	1.6013	0.1190	1.9249	0.0988	1.4310	0.0541
Total																				
Mortality	-1.7145	0.1164	-1.9773	0.2261	-0.5755	0.1129	-1.6481	0.0945	-0.9103	0.1485	-1.2742	0.3639	-0.6818	0.0603	-0.6221	0.0483	-0.6499	0.0382	-1.1793	0.0517
Cut	-0.1643	0.0341	-0.0055	0.0041	-0.0012	0.0012	-0.1012	0.0208	-0.0032	0.0034	-0.0079	0.0062	-1.9349	0.2354	-0.2343	0.0636	-1.0276	0.1171	-0.4510	0.0468
Gross Growth	2.7792	0.0625	1.7922	0.0935	0.6799	0.0829	2.2554	0.0468	1.6325	0.1290	3.2908	0.3161	3.3666	0.1228	2.1852	0.1001	2.7363	0.0738	2.4212	0.0393
Net Live	0.9003	0.1333	-0.1906	0.2373	0.1032	0.1290	0.5061	0.1042	0.7190	0.1647	2.0086	0.4023	0.7499	0.2710	1.3289	0.1125	1.0588	0.1402	0.7909	0.0772
Standing Dead Change	0.2671	0.0866	0.2667	0.1540	0.0424	0.0799	0.2397	0.0678	-0.0041	0.0867	0.0574	0.1382	0.0525	0.0472	0.0577	0.0335	0.0553	0.0284	0.1396	0.0360
Dead Woody Debris Change	-0.1104	0.0651	0.1621	0.1069	0.0452	0.0740	-0.0172	0.0498	0.0682	0.1232	0.0928	0.1767	-0.2436	0.0990	0.0505	0.0620	-0.0867	0.0570	-0.0330	0.0352
Total Net	1.3440	0.1338	0.2559	0.2285	0.1878	0.1495	0.9070	0.1033	0.9320	0.2138	2.6479	0.4627	0.7777	0.						

Table B11: Annual Net Change in Carbon Stocks for Aboveground Pools on Timberland by Disturbance, and Owner Group, 2001-2005 to 2011-2015: All California

	USDA Forest Service		Other Public				Private				Total		Total	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons CO2 equivalent per year</i>														
Cut														
Mortality	-184	93	--	--	--	--	-359	84	-164	70	-523	109	-707	143
Cut	-1,136	295	-8	9	--	--	-8,469	1,220	-924	380	-9,393	1,265	-10,537	1,299
Gross Growth	1,164	221	19	21	--	--	3,549	407	875	261	4,424	471	5,606	521
Net Live	-156	214	10	12	--	--	-5,279	1,057	-213	331	-5,492	1,105	-5,638	1,126
Standing Dead Change	-174	99	--	--	--	--	-116	88	37	45	-79	99	-253	140
Dead Woody Debris Change	-131	97	6	7	--	--	-582	294	39	187	-543	349	-667	362
Total Net ¹	-514	340	19	21	--	--	-7,154	1,424	-175	430	-7,329	1,486	-7,824	1,525
Cut and Fire														
Mortality	-326	180	--	--	--	--	-466	197	-49	49	-515	203	-842	271
Cut	-110	58	--	--	--	--	-1,172	543	--	--	-1,172	543	-1,282	546
Gross Growth	226	95	--	--	--	--	229	86	8	8	237	87	463	129
Net Live	-210	167	--	--	--	--	-1,410	577	-41	41	-1,451	578	-1,661	602
Standing Dead Change	34	81	--	--	--	--	152	80	-11	11	141	81	175	115
Dead Woody Debris Change	-4	32	--	--	--	--	62	142	-12	12	50	142	46	146
Total Net ¹	-217	165	--	--	--	--	-1,458	613	-72	72	-1,530	617	-1,747	639
Fire														
Mortality	-5,499	900	--	--	--	--	-217	101	-157	105	-374	145	-5,873	911
Cut	-40	28	--	--	--	--	-19	17	-37	29	-56	34	-95	44
Gross Growth	1,979	283	22	20	--	--	143	69	151	77	295	103	2,297	302
Net Live	-3,559	786	22	20	--	--	-92	78	-43	68	-135	103	-3,672	793
Standing Dead Change	2,085	605	--	--	--	--	-44	85	42	56	-2	102	2,083	614
Dead Woody Debris Change	-559	225	-5	4	--	--	-134	68	9	33	-125	75	-689	238
Total Net ¹	-2,402	612	21	19	--	--	-293	181	10	92	-283	203	-2,664	645
Insect and Disease														
Mortality	-3,064	411	--	--	-70	80	-421	118	-367	118	-788	166	-3,922	451
Cut	-68	37	--	--	--	--	-45	25	-44	30	-89	39	-156	54
Gross Growth	4,648	450	--	--	72	71	836	203	744	199	1,580	282	6,300	536
Net Live	1,516	384	--	--	2	22	370	114	333	106	703	154	2,221	415
Standing Dead Change	83	281	--	--	-67	95	-34	48	-17	77	-51	91	-34	310
Dead Woody Debris Change	333	285	--	--	91	119	8	77	17	62	25	98	449	324
Total Net ¹	2,347	475	--	--	24	28	428	160	407	182	835	240	3,206	533
Other cut and weather														
Mortality	-533	161	-1	1	--	--	-257	119	-59	41	-315	126	-849	204
Cut	-87	36	--	--	--	--	-305	129	-161	87	-465	155	-552	159
Gross Growth	1,169	236	67	71	--	--	966	253	534	182	1,500	309	2,736	396
Net Live	549	168	66	70	--	--	405	188	314	146	719	238	1,334	300
Standing Dead Change	-29	106	6	6	--	--	15	12	-5	11	10	16	-14	107
Dead Woody Debris Change	115	143	-8	8	--	--	-427	205	173	142	-254	250	-147	288
Total Net ¹	753	214	83	88	--	--	76	243	554	235	631	339	1,467	410
Less than 25% disturbed														
Mortality	-5,675	550	-267	98	-81	38	-1,709	215	-1,441	204	-3,150	286	-9,173	629
Cut	-24	13	--	--	-3	4	-518	147	-162	73	-679	163	-707	164
Gross Growth	15,584	694	791	206	918	265	11,866	842	8,056	721	19,922	976	37,215	1,227
Net Live	9,885	696	524	167	834	244	9,640	762	6,453	631	16,093	890	27,335	1,155
Standing Dead Change	381	362	45	33	-12	18	263	202	159	104	422	227	836	430
Dead Woody Debris Change	-738	415	131	79	-56	44	-360	374	-174	249	-534	449	-1,198	618
Total Net ¹	12,012	817	817	228	948	278	12,003	995	7,975	800	19,977	1,162	33,754	1,449
Total														
Mortality	-15,281	1,065	-268	98	-151	89	-3,429	344	-2,238	280	-5,666	425	-21,366	1,150
Cut	-1,464	305	-8	9	-3	4	-10,527	1,340	-1,327	398	-11,854	1,379	-13,330	1,412
Gross Growth	24,770	674	899	219	990	275	17,589	877	10,368	784	27,958	930	54,617	1,167
Net Live	8,024	1,193	623	181	836	245	3,634	1,490	6,803	740	10,437	1,642	19,920	2,049
Standing Dead Change	2,381	772	51	34	-79	97	236	254	204	150	440	295	2,793	833
Dead Woody Debris Change	-984	580	124	80	34	127	-1,433	543	52	349	-1,381	645	-2,206	881
Total Net ¹	11,979	1,204	941	245	971	280	3,601	1,926	8,699	959	12,301	2,130	26,192	2,466

¹Total Net value includes change from roots and understory vegetation which are not enumerated in this table.

Table B12: Annual Net Change Per Acre in Carbon Stock for Aboveground Pools on Timberland by Disturbance, and Owner Group, 2001-2005 to 2011-2015: All California

	USDA Forest Service		Other Public				Private				Total		Total		
	Mean	SE	Other federal		State and local govt.		Corporate		Non Corporate		Mean	SE	Mean	SE	
			Mean	SE	Mean	SE	Mean	SE	Mean	SE					
	<i>metric tons CO2 equivalent per year and acre</i>														
Cut															
Mortality	-0.0206	0.0105	--	--	--	--	-0.0771	0.0179	-0.0670	0.0283	-0.0736	0.0152	-0.0430	0.0087	
Cut	-0.1274	0.0329	-0.0319	0.0319	--	--	-1.8175	0.2525	-0.3768	0.1530	-1.3206	0.1758	-0.6405	0.0785	
Gross Growth	0.1306	0.0248	0.0714	0.0714	--	--	0.7616	0.0831	0.3568	0.1039	0.6220	0.0654	0.3408	0.0315	
Net Live	-0.0175	0.0240	0.0395	0.0395	--	--	-1.1330	0.2224	-0.0870	0.1346	-0.7722	0.1545	-0.3427	0.0682	
Standing Dead Change	-0.0195	0.0111	--	--	--	--	-0.0250	0.0187	0.0151	0.0184	-0.0111	0.0139	-0.0154	0.0085	
Dead Woody Debris Change	-0.0147	0.0109	0.0229	0.0229	--	--	-0.1249	0.0628	0.0160	0.0763	-0.0763	0.0490	-0.0406	0.0220	
Total Net ¹	-0.0577	0.0381	0.0737	0.0737	--	--	-1.5354	0.2993	-0.0714	0.1751	-1.0304	0.2075	-0.4756	0.0924	
Cut and Fire															
Mortality	-0.0366	0.0202	--	--	--	--	-0.1001	0.0420	-0.0200	0.0200	-0.0725	0.0285	-0.0512	0.0165	
Cut	-0.0124	0.0065	--	--	--	--	-0.2516	0.1161	--	--	-0.1648	0.0762	-0.0779	0.0332	
Gross Growth	0.0254	0.0107	--	--	--	--	0.0491	0.0185	0.0032	0.0032	0.0333	0.0122	0.0282	0.0078	
Net Live	-0.0236	0.0187	--	--	--	--	-0.3025	0.1233	-0.0167	0.0167	-0.2040	0.0812	-0.1010	0.0366	
Standing Dead Change	0.0038	0.0091	--	--	--	--	0.0327	0.0171	-0.0046	0.0046	0.0198	0.0113	0.0106	0.0070	
Dead Woody Debris Change	-0.0004	0.0036	--	--	--	--	0.0132	0.0304	-0.0048	0.0048	0.0070	0.0200	0.0028	0.0089	
Total Net ¹	-0.0243	0.0185	--	--	--	--	-0.3129	0.1310	-0.0294	0.0294	-0.2151	0.0867	-0.1062	0.0388	
Fire															
Mortality	-0.6170	0.1005	--	--	--	--	-0.0466	0.0215	-0.0642	0.0425	-0.0526	0.0203	-0.3570	0.0553	
Cut	-0.0044	0.0032	--	--	--	--	-0.0041	0.0041	-0.0150	0.0119	-0.0078	0.0048	-0.0058	0.0027	
Gross Growth	0.2221	0.0316	0.0848	0.0848	--	--	0.0308	0.0147	0.0617	0.0310	0.0415	0.0144	0.1396	0.0183	
Net Live	-0.3993	0.0880	0.0848	0.0848	--	--	-0.0198	0.0168	-0.0174	0.0275	-0.0190	0.0145	-0.2232	0.0482	
Standing Dead Change	0.2339	0.0678	--	--	--	--	-0.0095	0.0183	0.0170	0.0229	-0.0003	0.0144	0.1266	0.0373	
Dead Woody Debris Change	-0.0627	0.0253	-0.0195	0.0195	--	--	-0.0287	0.0145	0.0035	0.0134	-0.0176	0.0106	-0.0419	0.0144	
Total Net ¹	-0.2695	0.0685	0.0807	0.0807	--	--	-0.0629	0.0388	0.0042	0.0375	-0.0398	0.0285	-0.1619	0.0392	
Insect and Disease															
Mortality	-0.3438	0.0458	--	--	-0.4301	0.4759	-0.0903	0.0252	-0.1496	0.0475	-0.1108	0.0232	-0.2384	0.0273	
Cut	-0.0076	0.0042	--	--	--	--	-0.0096	0.0054	-0.0179	0.0121	-0.0125	0.0054	-0.0095	0.0033	
Gross Growth	0.5215	0.0495	--	--	0.4432	0.4133	0.1794	0.0431	0.3031	0.0793	0.2221	0.0393	0.3829	0.0322	
Net Live	0.1701	0.0430	--	--	0.0131	0.1325	0.0795	0.0242	0.1356	0.0423	0.0989	0.0215	0.1350	0.0251	
Standing Dead Change	0.0093	0.0315	--	--	-0.4090	0.5704	-0.0073	0.0103	-0.0069	0.0315	-0.0071	0.0128	-0.0021	0.0189	
Dead Woody Debris Change	0.0374	0.0319	--	--	0.5552	0.7084	0.0017	0.0164	0.0071	0.0252	0.0035	0.0138	0.0273	0.0197	
Total Net ¹	0.2633	0.0530	--	--	0.1464	0.1684	0.0918	0.0341	0.1660	0.0734	0.1174	0.0337	0.1949	0.0323	
Other cut and weather															
Mortality	-0.0598	0.0181	-0.0026	0.0026	--	--	-0.0551	0.0254	-0.0239	0.0167	-0.0444	0.0176	-0.0516	0.0124	
Cut	-0.0098	0.0041	--	--	--	--	-0.0654	0.0276	-0.0655	0.0353	-0.0654	0.0217	-0.0336	0.0096	
Gross Growth	0.1311	0.0264	0.2549	0.2549	--	--	0.2073	0.0537	0.2176	0.0735	0.2109	0.0434	0.1663	0.0240	
Net Live	0.0616	0.0189	0.2523	0.2523	--	--	0.0869	0.0402	0.1282	0.0594	0.1011	0.0335	0.0811	0.0182	
Standing Dead Change	-0.0033	0.0119	0.0223	0.0223	--	--	0.0031	0.0025	-0.0020	0.0046	0.0014	0.0023	-0.0008	0.0065	
Dead Woody Debris Change	0.0129	0.0161	-0.0301	0.0301	--	--	-0.0916	0.0439	0.0707	0.0578	-0.0356	0.0351	-0.0089	0.0175	
Total Net ¹	0.0845	0.0240	0.3165	0.3165	--	--	0.0164	0.0522	0.2258	0.0955	0.0886	0.0477	0.0892	0.0249	
Less than 25% disturbed															
Mortality	-0.6368	0.0610	-1.0149	0.3036	-0.4967	0.1909	-0.3667	0.0442	-0.5875	0.0748	-0.4429	0.0388	-0.5576	0.0375	
Cut	-0.0027	0.0015	--	--	-0.0209	0.0209	-0.1111	0.0314	-0.0659	0.0295	-0.0955	0.0230	-0.0430	0.0100	
Gross Growth	1.7485	0.0736	3.0067	0.4646	5.6271	0.8265	2.5467	0.1588	3.2836	0.2123	2.8009	0.1259	2.2621	0.0692	
Net Live	1.1091	0.0765	1.9919	0.4804	5.1094	0.8045	2.0689	0.1480	2.6302	0.1978	2.2625	0.1175	1.6615	0.0673	
Standing Dead Change	0.0428	0.0406	0.1722	0.1182	-0.0759	0.1073	0.0565	0.0432	0.0647	0.0425	0.0593	0.0318	0.0508	0.0261	
Dead Woody Debris Change	-0.0829	0.0465	0.4981	0.2848	-0.3443	0.2624	-0.0772	0.0802	-0.0711	0.1014	-0.0751	0.0631	-0.0728	0.0375	
Total Net ¹	1.3477	0.0898	3.1078	0.5827	5.8086	0.9047	2.5760	0.1955	3.2505	0.2572	2.8086	0.1544	2.0517	0.0846	
Total															
Mortality	-1.7145	0.1164	-1.0175	0.3031	-0.9268	0.4768	-0.7358	0.0688	-0.9122	0.0999	-0.7966	0.0570	-1.2987	0.0683	
Cut	-0.1643	0.0341	-0.0319	0.0319	-0.0209	0.0209	-2.2592	0.2751	-0.5411	0.1590	-1.6666	0.1914	-0.8103	0.0853	
Gross Growth	2.7792	0.0625	3.4178	0.4061	6.0703	0.6978	3.7749	0.1354	4.2262	0.1889	3.9306	0.1069	3.3198	0.0588	
Net Live	0.9003	0.1333	2.3685	0.4705	5.1226	0.8183	0.7799	0.3193	2.7729	0.2484	1.4674	0.2294	1.2108	0.1236	
Standing Dead Change	0.2671	0.0866	0.1945	0.1185	-0.4849	0.5767	0.0506	0.0546	0.0832	0.0610	0.0619	0.0415	0.1698	0.0507	
Dead Woody Debris Change	-0.1104	0.0651	0.4714	0.2911	0.2109	0.7726	-0.3075	0.1159	0.0213	0.1422	-0.1941	0.0905	-0.1341	0.0535	
Total Net ¹	1.3440	0.1338	3.5787	0.5489	5.9550	0.8617	0.7729	0.4133	3.5458	0.3281	1.7294	0.2983	1.5921	0.1489	

¹Total Net value includes change from roots and understory vegetation which are not enumerated in this table.

Table 4.21: Forest land carbon stocks by forest type and pool, 2006-2015: All California.

	Live Trees		Dead Trees		Roots		Understory		Down wood		Soil		All pools	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand metric tons C</i>														
Softwoods:														
California mixed conifer	384,524	10,120	32,217	1,468	80,386	2,121	5,724	167	41,000	1,341	161,114	3,487	704,965	16,882
Douglas-fir	69,579	5,799	4,162	559	15,430	1,293	1,345	95	7,192	760	18,266	1,275	115,974	9,083
Fir / spruce / mountain hemlock	118,060	7,340	14,109	1,240	22,778	1,412	1,688	88	11,238	826	43,127	2,193	211,000	12,102
Western Hemlock / Sitka spruce	2,325	989	292	181	589	269	47	19	262	133	1,785	713	5,299	2,169
Lodgepole pine	31,228	2,717	3,330	390	7,219	622	783	69	4,305	518	14,586	1,062	61,451	4,895
Pinyon / juniper	6,431	561	522	71	1,472	124	2,776	163	1,821	205	16,524	972	29,547	1,836
Ponderosa pine	49,816	2,998	1,742	226	11,060	673	2,664	153	5,682	439	39,635	1,803	110,598	5,634
Redwood	82,683	9,977	3,237	552	16,367	1,906	801	70	7,416	949	16,583	1,401	127,087	13,870
Western white pine	3,657	837	588	146	841	189	182	41	379	98	3,399	629	9,045	1,790
Other western softwoods	17,516	1,602	1,311	196	3,671	363	4,728	286	3,088	330	41,182	2,117	71,495	4,108
Total	765,818	14,450	61,510	1,992	159,815	2,920	20,736	380	82,381	1,906	356,199	4,138	1,446,460	21,934
Hardwoods:														
Alder / maple	8,884	1,647	695	189	1,951	358	361	56	1,453	311	6,879	1,059	20,221	3,376
Aspen / birch	966	345	37	16	179	66	139	35	293	112	783	196	2,397	697
Elm / ash / cottonwood	659	325	19	15	122	63	51	19	51	25	681	253	1,583	672
Tanoak / laurel	98,641	6,345	5,693	771	20,418	1,312	2,998	161	10,119	786	20,644	1,106	158,512	9,572
Western oak	171,073	5,400	10,410	1,018	36,596	1,163	14,979	324	17,053	740	99,357	2,149	349,468	9,196
Woodland hardwoods	1,375	260	309	87	335	60	468	66	302	67	2,743	388	5,532	809
Exotic hardwoods	3	3	--	--		1	9	6	6	6	51	33	70	47
Other hardwoods	13,273	2,235	936	224	2,957	489	926	95	1,702	272	5,568	568	25,362	3,453
Total	294,874	8,256	18,099	1,301	62,559	1,745	19,929	360	30,980	1,128	136,705	2,551	563,146	13,160
Nonstocked	1,123	221	6,394	1,173	1,644	270	1,660	125	2,742	334	13,139	994	26,701	2,475
All forest types	1,061,815	13,735	86,003	2,480	224,017	2,743	42,325	433	116,103	1,999	506,043	3,422	2,036,307	19,298

Note: Totals may be of because of rounding

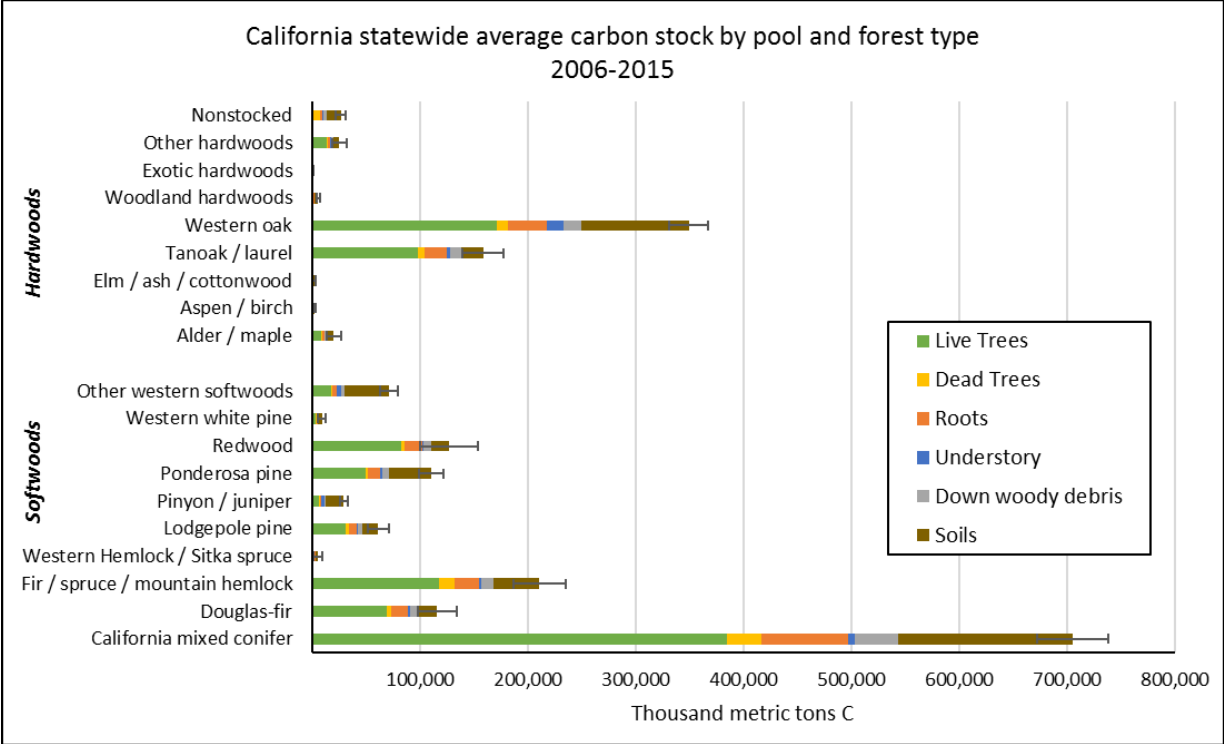


Figure 4.12. California statewide average carbon stock by pool and forest type, 2006-2015 (thousand metric tons C). Error bars represent the 95% confidence interval of total stock for each forest type. Figure derived from Table 4.21; compare to Appendix 2, D tables.

Table 4.22: Forest land carbon stocks (thousand metric tons C) by forest type and land status, 2006-2015: All California

	Unreserved Forests:				Reserved Forests:				All forest land	
	Timberland		Other Forest		Productive		Other Forest		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Thousand metric tons C</i>									
Softwoods:										
California mixed conifer	551,990	14,695	850	455	150,962	9,461	1,163	845	704,965	16,882
Douglas-fir	86,078	7,471	574	511	28,368	5,254	955	440	115,974	9,083
Fir / spruce / mountain hemlock	135,719	9,224	1,999	923	69,712	7,788	3,570	1,302	211,000	12,102
Western Hemlock / Sitka spruce	5,066	2,157	--	--	233	235	--	--	5,299	2,169
Lodgepole pine	17,505	2,600	2,933	1,061	30,248	3,738	10,765	1,957	61,451	4,895
Pinyon / juniper	256	186	19,675	1,475	--	--	9,616	1,128	29,547	1,836
Ponderosa pine	96,181	5,207	1,670	593	11,459	2,076	1,288	522	110,598	5,634
Redwood	87,252	8,724	--	--	39,835	10,967	--	--	127,087	13,870
Western white pine	1,223	647	220	225	5,511	1,483	2,090	738	9,045	1,790
Other western softwoods	11,862	2,116	37,827	2,503	6,823	1,543	14,983	2,079	71,495	4,108
Total	993,132	17,639	65,746	3,243	343,152	15,564	44,430	3,396	1,446,460	21,934
Hardwoods:										
Alder / maple	13,705	2,692	1,447	596	4,452	1,897	616	459	20,221	3,376
Aspen / birch	1,012	454	447	198	44	49	894	488	2,397	697
Elm / ash / cottonwood	--	--	1,157	592	13	14	413	318	1,583	672
Tanoak / laurel	116,974	8,121	7,664	1,791	29,069	4,646	4,805	1,706	158,512	9,572
Western oak	114,485	6,694	187,350	5,849	15,631	2,501	32,003	2,811	349,468	9,196
Woodland hardwoods	846	357	3,806	657	--	--	881	314	5,532	809
Exotic hardwoods	38	38	32	27	--	--	--	--	70	47
Other hardwoods	17,856	3,048	3,102	583	3,871	1,531	533	290	25,362	3,453
Total	264,916	10,742	205,005	6,154	53,081	5,683	40,145	3,375	563,146	13,160
Nonstocked	17,567	2,083	2,711	543	4,828	1,140	1,595	466	26,701	2,475
All forest types	1,275,615	16,751	273,462	6,786	401,060	15,516	86,170	4,702	2,036,307	19,298

Note: Totals may be of because of rounding

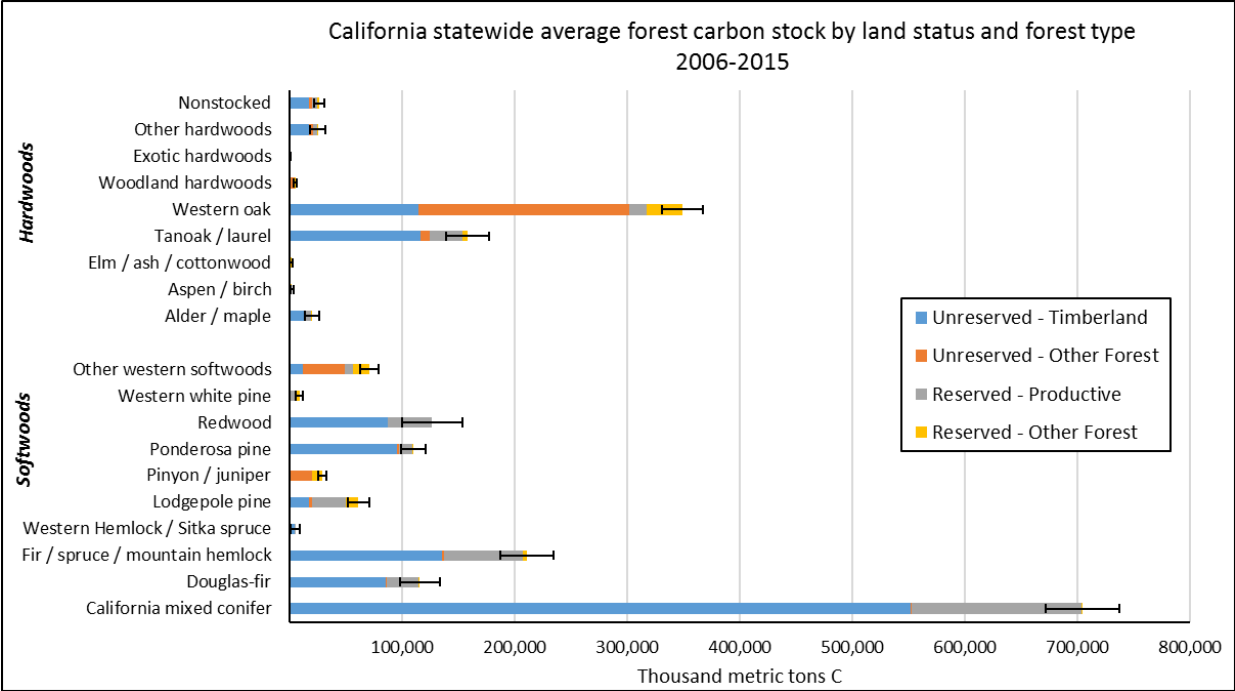


Figure 4.13. California statewide average forest carbon stock by land status and forest type, 2006-2015 (thousand metric tons C). Error bars represent the 95% confidence interval of total stock for each forest type. Figure derived from Table 4.22; compare to Appendix 2, D tables.

Table 4.24 Aboveground average annual live carbon flux (CO2e) on forest land by ownership, 2001-2005 to 2011-2015

	National forest		Public				Private				Total		Total	
			Other federal		State and local govt.		Corporate		Non Corporate					
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Million Metric Tons CO2 Equivalent Per Year</i>													
Live trees	7.44	1.53	1.96	0.46	2.01	0.42	4.13	1.50	8.38	0.77	12.51	1.66	23.93	2.33
Foliage	0.48	0.08	0.10	0.02	0.10	0.02	0.24	0.08	0.37	0.04	0.61	0.08	1.29	0.12
Live understory	-0.07	0.06	-0.02	0.03	-0.02	0.01	0.05	0.05	-0.05	0.02	0.01	0.06	-0.10	0.09

Table 4.32: Live tree carbon stocks by ownership and land status, 2001-2010 through 2006-2015. Compare to Appendix C tables.

	Unreserved timberland						Reserved forest land		All forest land	
	Private - corporate		Private - noncorporate		National forests		National forests		All ownerships	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Million metric tons C</i>									
2001-2010	138.89	5.51	136.19	6.59	371.26	8.11	138.76	5.89	1,012.48	13.41
2002-2011	138.64	5.50	139.09	6.70	374.22	8.14	139.98	5.95	1,020.75	13.44
2003-2012	139.11	5.55	140.29	6.80	378.67	8.10	142.59	6.06	1,029.82	13.66
2004-2013	142.99	5.69	141.43	6.92	381.57	8.11	143.03	6.15	1,039.51	13.89
2005-2014	145.09	5.68	139.27	6.88	384.53	8.11	143.84	6.16	1,047.27	13.75
2006-2015	151.70	5.95	136.30	6.76	384.71	8.06	148.25	6.15	1,061.82	13.73

Multiply carbon (C) by 3.667 to calculate equivalent carbon dioxide (CO₂e)

Table 4.33: Forest carbon stocks by ownership and land status, 2001-2010 through 2006-2015. Compare to Appendix C tables.

	Unreserved timberland						Reserved forest land		All forest land	
	Private - corporate		Private - noncorporate		National forests		National forests		All ownerships	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Million metric tons C</i>									
2001-2010	276.88	9.52	239.52	10.31	691.70	12.48	268.85	9.02	1,983.00	19.04
2002-2011	275.71	9.52	243.22	10.48	696.92	12.53	271.00	9.10	1,991.84	19.10
2003-2012	277.09	9.57	243.53	10.58	703.74	12.50	275.70	9.19	2,001.82	19.37
2004-2013	282.09	9.74	242.25	10.66	706.65	12.52	277.22	9.27	2,007.46	19.63
2005-2014	285.67	9.73	237.48	10.63	710.87	12.48	277.99	9.31	2,014.67	19.54
2006-2015	295.90	9.98	231.09	10.45	711.21	12.38	287.06	9.17	2,036.31	19.30

Multiply carbon (C) by 3.667 to calculate equivalent carbon dioxide (CO₂e)

Table A 1.1.1: Forest land carbon stocks (thousand metric tons C) by forest type and pool, 2006-2015: Central Coast and Interior Ranges

	Live Trees		Dead Trees		Roots		Understory		Down wood		Soil		All pools	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Thousand metric tons C</i>													
Softwoods:														
California mixed conifer	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Douglas-fir	1,094	747	5	3	233	161	22	12	46	32	237	157	1,631	1,105
Fir / spruce / mountain hemlock	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pinyon / juniper	178	56	11	5	38	11	246	53	37	20	1,054	254	1,495	366
Ponderosa pine	91	57	5	4	20	13	51	33	8	5	272	162	431	249
Redwood	19,154	4,414	439	144	3,551	806	197	39	1,097	306	3,120	634	27,496	6,157
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	543	438	46	37	141	114	4	4	35	28	207	167	976	788
Total	21,060	4,495	506	149	3,982	829	521	75	1,223	310	4,890	737	32,029	6,314
Hardwoods:														
Alder / maple	357	364	2	2	75	78	20	15	17	19	209	180	670	648
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	42	36	--	--	8	6	29	18	10	8	58	37	122	81
Tanoak / laurel	9,111	2,159	415	186	1,861	432	381	64	737	189	1,907	345	14,309	3,107
Western oak	22,135	1,752	933	218	4,310	331	3,410	200	1,804	218	14,403	886	45,759	3,093
Woodland hardwoods	8	8	21	21	5	4	25	18	8	8	32	23	80	58
Exotic hardwoods	--	--	--	--	--	--	18	15	--	--	27	22	32	27
Other hardwoods	2,975	1,259	117	65	620	257	189	47	265	108	848	228	4,964	1,836
Total	34,628	2,986	1,488	295	6,879	590	4,073	219	2,840	309	17,483	985	65,936	4,674
Nonstocked	18	18			4	4	28	18	5	4	104	74	144	107
All forest types	55,706	5,295	1,994	329	10,865	995	4,622	233	4,069	444	22,476	1,219	98,109	7,707

Note: Totals may be off because of rounding

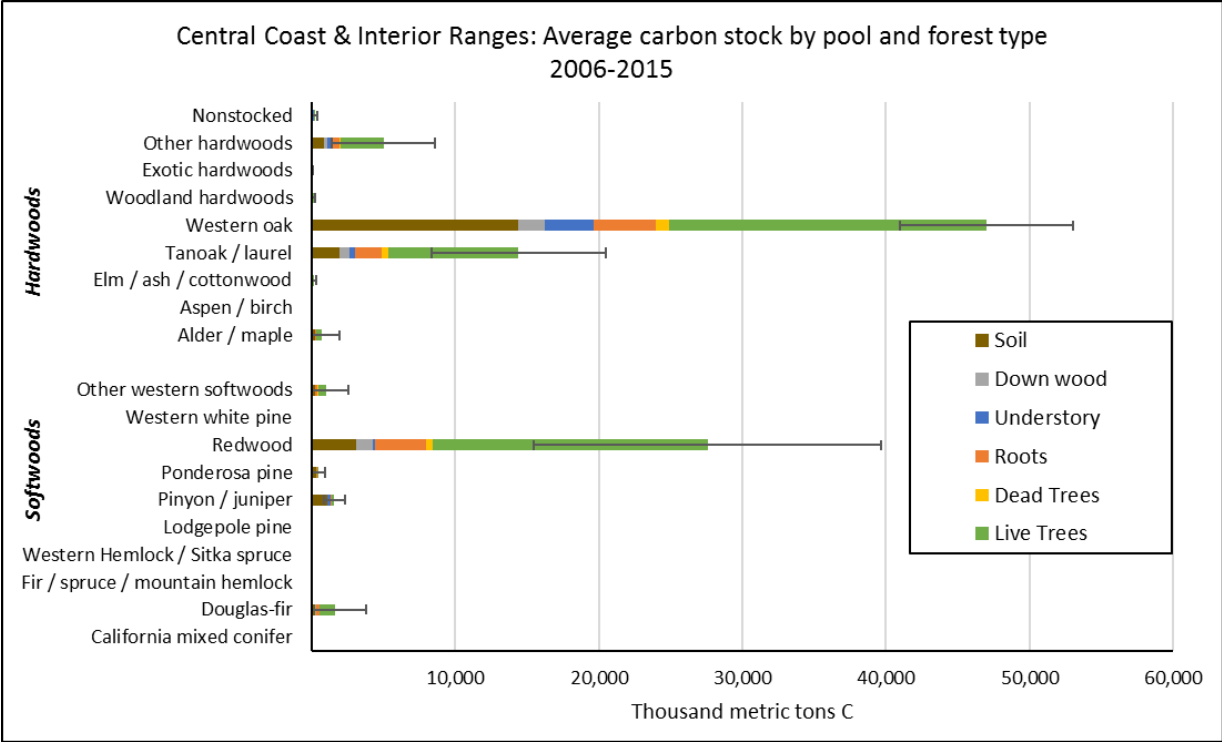


Figure A1.1.1. Central Coast and Interior Ranges: Average carbon stock by pool and forest type, 2006-2015 (thousand metric tons C). Error bars represent the 95% confidence interval of total stock for each forest type. Figure derived from Table A1.1.1.

Table A 1.2.1: Forest land carbon stocks (thousand metric tons C) by forest type and pool, 2006-2015: Central Valley

	Live Trees		Dead Trees		Roots		Understory		Down wood		Soil		All pools	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Thousand metric tons C</i>													
Softwoods:														
California mixed conifer	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pinyon / juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ponderosa pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hardwoods:														
Alder / maple	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	386	292	15	15	76	58	42	22	27	22	277	178	801	572
Tanoak / laurel	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western oak	866	280	16	10	176	56	236	51	55	27	864	219	2,109	574
Woodland hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Exotic hardwoods	--	--	--	--	--	--	12	12	--	--	1	1	1	1
Other hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	1,252	405	31	18	252	80	289	57	82	35	1,142	282	2,911	810
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--	--	--
All forest types	1,252	405	31	18	252	80	289	57	82	35	1,142	282	2,911	810

Note: Totals may be of because of rounding

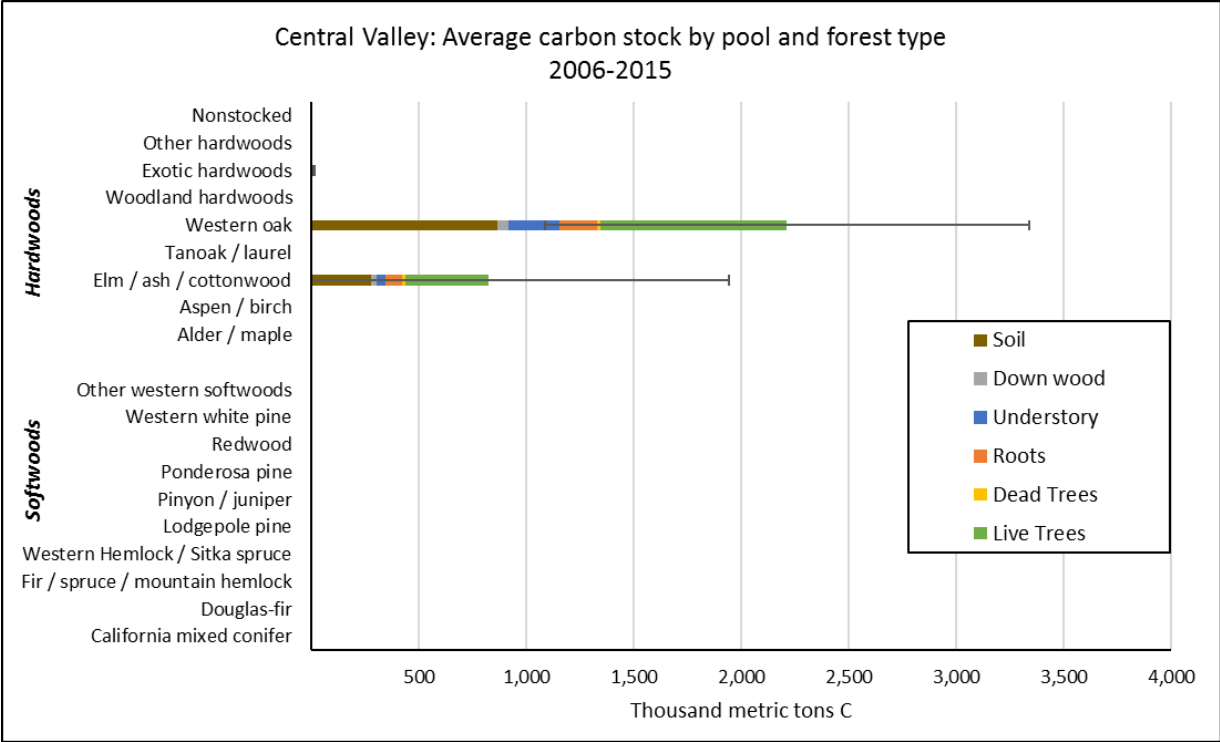


Figure A1.2.1. Central Valley: Average carbon stock by pool and forest type, 2006-2015 (thousand metric tons C). Error bars represent the 95% confidence interval of total stock for each forest type. Figure derived from Table A1.2.1.

Table A 1.3.1: Forest land carbon stocks (thousand metric tons C) by forest type and pool, 2006-2015: Eastside

	Live Trees		Dead Trees		Roots		Understory		Down wood		Soil		All pools	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Thousand metric tons C</i>													
Softwoods:														
California mixed conifer	6,410	950	362	80	1,278	190	327	47	1,114	204	5,921	825	15,327	2,176
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	4,814	1,331	611	210	901	246	138	34	558	150	2,238	518	9,211	2,344
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	1,219	538	43	24	268	120	57	27	173	88	566	220	2,296	959
Pinyon / juniper	3,003	356	214	42	682	79	1,294	117	768	112	7,126	655	12,987	1,233
Ponderosa pine	6,391	864	173	50	1,405	191	742	104	945	176	6,514	764	15,913	1,939
Redwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	6,207	641	262	60	1,206	142	3,339	261	966	136	21,670	1,556	33,199	2,463
Total	28,044	2,044	1,664	243	5,740	414	5,898	314	4,523	363	44,035	2,074	88,933	4,687
Hardwoods:														
Alder / maple	--	--	--	--	--	--	12	12	--	--	1	1	2	2
Aspen / birch	407	179	17	9	71	33	102	34	131	65	395	148	1,091	423
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tanoak / laurel	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western oak	174	102	6	5	43	25	52	24	50	28	225	121	533	288
Woodland hardwoods	444	140	196	82	131	41	170	43	116	42	851	224	1,881	516
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	62	51	211	163	55	37	76	30	122	56	363	147	879	412
Total	1,087	252	429	183	301	69	413	68	420	100	1,836	328	4,385	831
Nonstocked	80	29	155	91	50	20	359	64	156	50	1,968	393	2,654	541
All forest types	29,211	2,061	2,248	320	6,091	420	6,670	334	5,099	380	47,839	2,134	95,972	4,788

Note: Totals may be off because of rounding

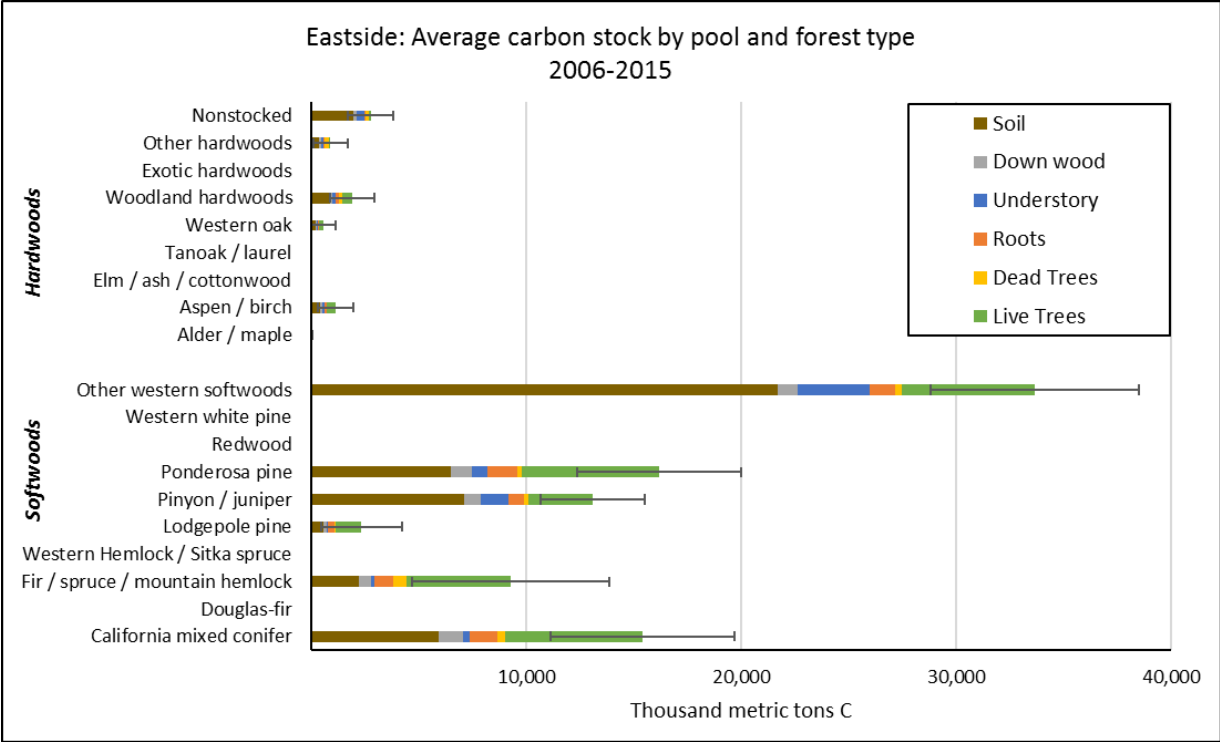


Figure A1.3.1. Eastside: Average carbon stock by pool and forest type, 2006-2015 (thousand metric tons C). Error bars represent the 95% confidence interval of total stock for each forest type. Figure derived from Table A1.3.1.

Table A 1.4.1: Forest land carbon stocks (thousand metric tons C) by forest type and pool, 2006-2015: Klamath Interior Coast Ranges

	Live Trees		Dead Trees		Roots		Understory		Down wood		Soil		All pools	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand metric tons C</i>														
Softwoods:														
California mixed conifer	141,187	7,147	12,131	953	31,499	1,611	2,311	136	13,796	817	53,881	2,324	254,302	12,001
Douglas-fir	31,802	3,888	2,383	457	7,210	889	873	93	2,747	472	8,056	859	52,785	6,167
Fir / spruce / mountain hemlock	15,349	2,707	2,430	542	3,075	520	400	60	1,530	305	7,027	941	29,712	4,536
Western Hemlock / Sitka spruce	117	118	--	--	23	23	14	14	2	2	88	89	233	235
Lodgepole pine	293	161	11	8	54	28	34	18	20	11	354	177	766	386
Pinyon / juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ponderosa pine	5,605	1,097	311	106	1,265	251	453	69	526	124	3,560	554	11,476	1,995
Redwood	7,096	3,817	249	130	1,336	697	43	20	509	291	693	314	9,919	5,169
Western white pine	609	266	124	58	130	58	125	44	104	45	1,093	353	2,165	745
Other western softwoods	559	202	45	20	110	37	217	64	226	86	1,396	399	2,489	715
Total	202,617	8,965	17,684	1,160	44,702	1,942	4,469	207	19,461	1,018	76,150	2,639	363,847	14,429
Hardwoods:														
Alder / maple	3,446	972	193	63	733	205	240	51	732	233	2,980	707	8,242	2,076
Aspen / birch	12	12	--	--	2	2	12	12	2	2	42	43	67	68
Elm / ash / cottonwood	65	63	3	3	12	11	24	17	6	6	68	56	158	142
Tanoak / laurel	36,673	4,209	2,816	623	7,893	906	1,247	116	3,719	498	7,068	671	59,196	6,415
Western oak	67,154	3,881	4,488	876	14,783	863	6,583	273	6,753	521	32,947	1,409	131,051	6,631
Woodland hardwoods	62	40	4	4	8	6	67	28	5	3	90	57	184	98
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	5,100	1,357	440	126	1,193	313	369	65	663	186	1,573	303	9,225	2,127
Total	112,511	5,850	7,945	1,080	24,624	1,281	8,541	308	11,880	778	44,769	1,712	208,123	9,488
Nonstocked	223	90	1,694	669	417	158	506	81	834	209	2,380	423	5,850	1,323
All forest types	315,352	10,204	27,323	1,667	69,743	2,207	13,517	379	32,175	1,252	123,299	3,010	577,820	16,313

Note: Totals may be of because of rounding

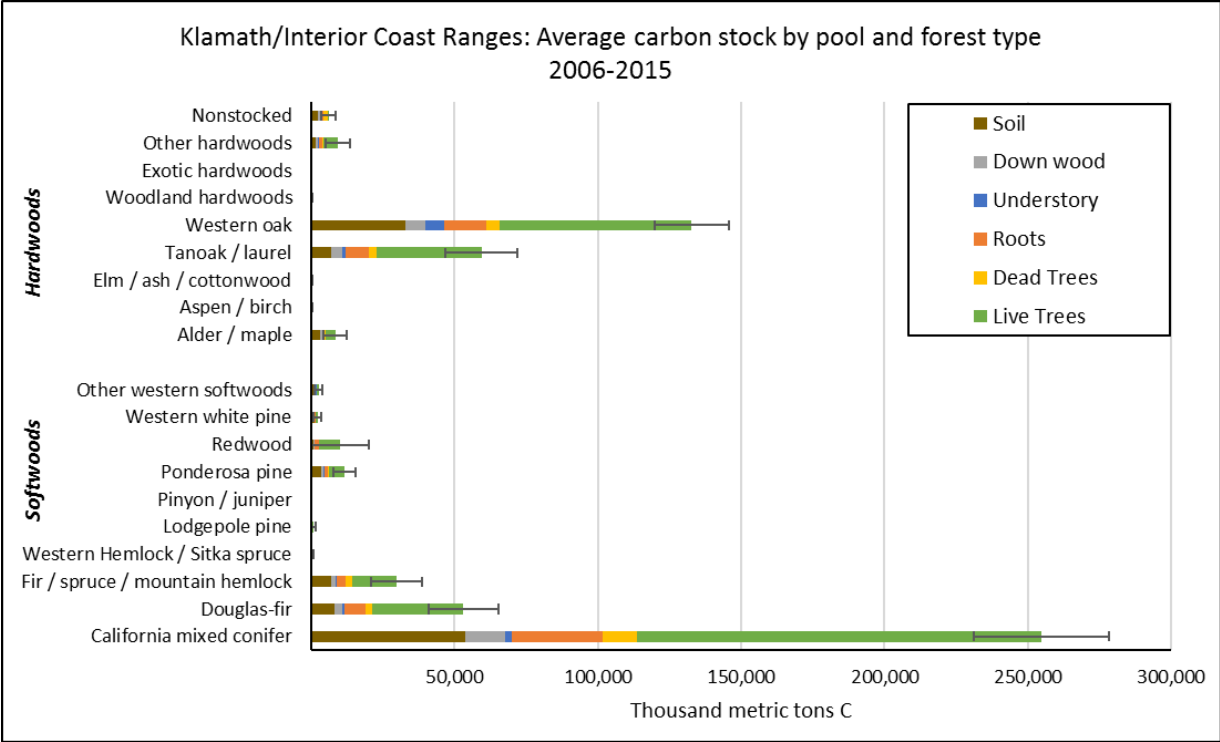


Figure A1.4.1. Klamath/Interior Coast Ranges: Average carbon stock by pool and forest type, 2006-2015 (thousand metric tons C). Error bars represent the 95% confidence interval of total stock for each forest type. Figure derived from Table A1.4.1.

Table A 1.5.1: Forest land carbon stocks (thousand metric tons C) by forest type and pool, 2006-2015: North Coast

	Live Trees		Dead Trees		Roots		Understory		Down wood		Soil		All pools	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand metric tons C</i>														
Softwoods:														
California mixed conifer	68	64	4	4	11	10	7	7	22	21	54	51	162	152
Douglas-fir	36,683	4,342	1,775	325	7,987	948	1,008	100	4,399	601	9,972	954	61,558	6,744
Fir / spruce / mountain hemlock	421	287	36	37	87	60	13	8	16	11	196	132	763	522
Western Hemlock / Sitka spruce	2,208	982	292	181	566	268	73	29	259	133	1,696	708	5,066	2,157
Lodgepole pine	28	28	8	8	7	8	8	9	2	2	51	52	101	103
Pinyon / juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ponderosa pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwood	56,405	8,302	2,549	519	11,474	1,620	843	84	5,769	858	12,697	1,235	89,519	11,603
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	1,307	914	64	52	296	204	52	27	161	115	509	244	2,373	1,429
Total	97,119	9,222	4,728	635	20,428	1,852	2,005	137	10,627	1,042	25,176	1,678	159,541	13,256
Hardwoods:														
Alder / maple	3,810	1,123	412	168	888	255	222	49	577	195	2,798	679	8,633	2,302
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tanoak / laurel	49,841	4,294	2,420	418	10,078	864	1,850	142	5,244	559	10,715	814	79,847	6,525
Western oak	8,737	1,275	231	64	1,759	262	753	92	690	191	3,433	455	15,353	2,154
Woodland hardwoods	94	85			20	18	13	11	6	6	14	13	137	124
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	3,237	1,028	59	28	674	214	157	41	195	69	686	199	4,959	1,523
Total	65,719	4,658	3,123	454	13,419	946	2,995	181	6,712	623	17,647	1,148	108,928	7,273
Nonstocked	18	18	10	10	6	4	25	17	39	31	85	60	169	119
All forest types	162,856	9,935	7,862	768	33,853	1,995	5,025	224	17,378	1,181	42,907	1,928	268,638	14,423

Note: Totals may be off because of rounding

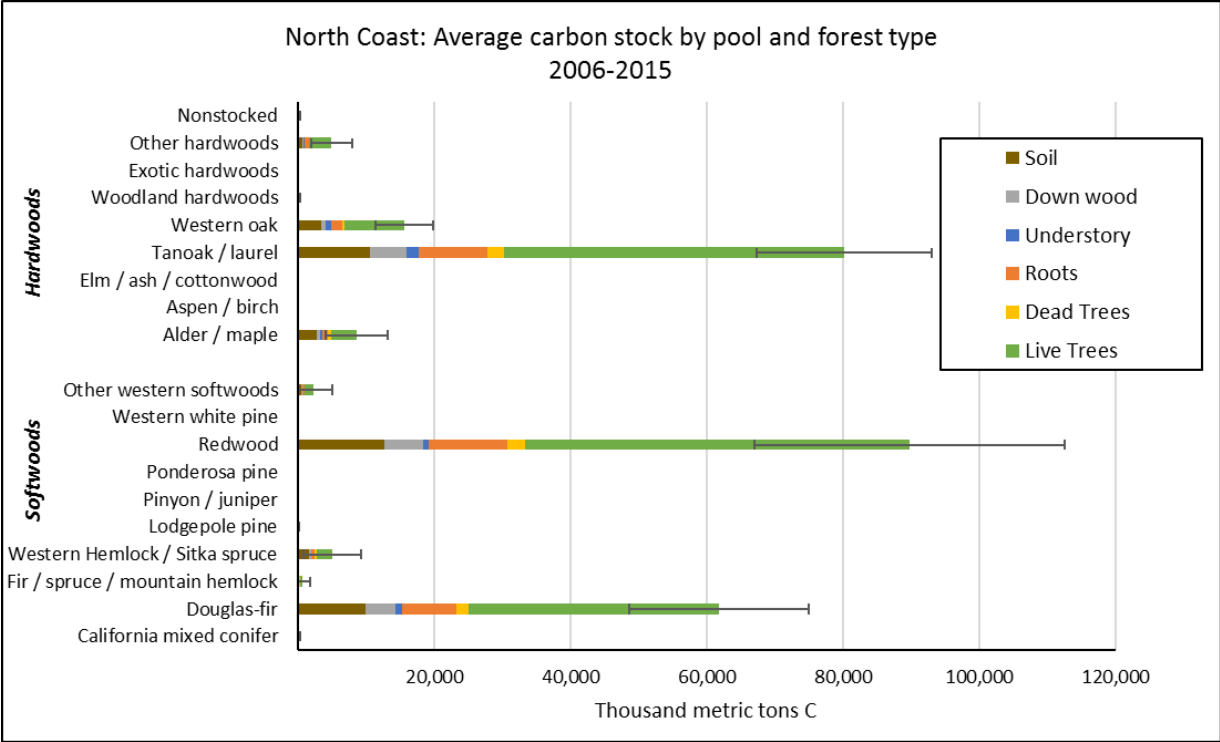


Figure A1.5.1. North Coast: Average carbon stock by pool and forest type, 2006-2015 (thousand metric tons C). Error bars represent the 95% confidence interval of total stock for each forest type. Figure derived from Table A1.5.1.

Table A 1.6.1: Forest land carbon stocks (thousand metric tons C) by forest type and pool, 2006-2015: Sierra Cascades

	Live Trees		Dead Trees		Roots		Understory		Down wood		Soil		All pools	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand metric tons C</i>														
Softwoods:														
California mixed conifer	234,419	8,697	19,366	1,176	47,145	1,738	4,573	189	25,696	1,142	99,708	3,032	429,946	14,561
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	96,953	6,789	10,991	1,108	18,625	1,308	1,635	101	9,090	762	33,444	1,953	170,386	11,164
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	29,416	2,659	3,193	386	6,812	609	876	84	4,021	508	13,359	1,017	57,508	4,777
Pinyon / juniper	2,268	394	156	41	513	88	756	94	609	142	3,788	491	7,971	1,108
Ponderosa pine	36,700	2,679	1,204	192	8,136	600	2,887	179	4,076	381	28,346	1,565	80,349	4,972
Redwood	28	26	--	--	6	5	10	9	41	38	73	67	153	140
Western white pine	3,048	793	463	135	711	180	138	33	274	87	2,305	520	6,879	1,628
Other western softwoods	8,597	1,042	856	172	1,857	236	1,939	185	1,649	263	16,967	1,396	31,550	2,814
Total	411,429	10,567	36,230	1,624	83,804	2,115	12,814	347	45,458	1,454	197,991	3,785	784,741	17,600
Hardwoods:														
Alder / maple	1,090	605	86	60	221	122	46	22	121	66	726	355	2,281	1,166
Aspen / birch	546	295	20	13	106	58	117	37	160	91	345	122	1,239	549
Elm / ash / cottonwood	132	113	1	1	21	18	45	22	7	7	215	145	392	276
Tanoak / laurel	2,966	1,139	39	16	574	213	182	44	415	205	877	229	5,003	1,663
Western oak	65,231	3,412	3,513	397	13,977	724	8,012	279	6,447	417	41,804	1,512	137,309	5,897
Woodland hardwoods	285	108	32	13	81	29	178	45	47	23	799	211	1,379	385
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	1,815	735	108	52	396	170	441	73	447	142	1,719	311	4,775	1,255
Total	72,065	3,710	3,800	405	15,375	781	9,021	298	7,643	497	46,486	1,611	152,379	6,351
Nonstocked	774	198	3,877	908	1,006	204	1,298	121	1,604	252	7,363	752	15,557	1,908
All forest types	484,268	10,605	43,906	1,855	100,184	2,123	23,134	456	54,705	1,510	251,840	3,861	952,676	17,528

Note: Totals may be of because of rounding

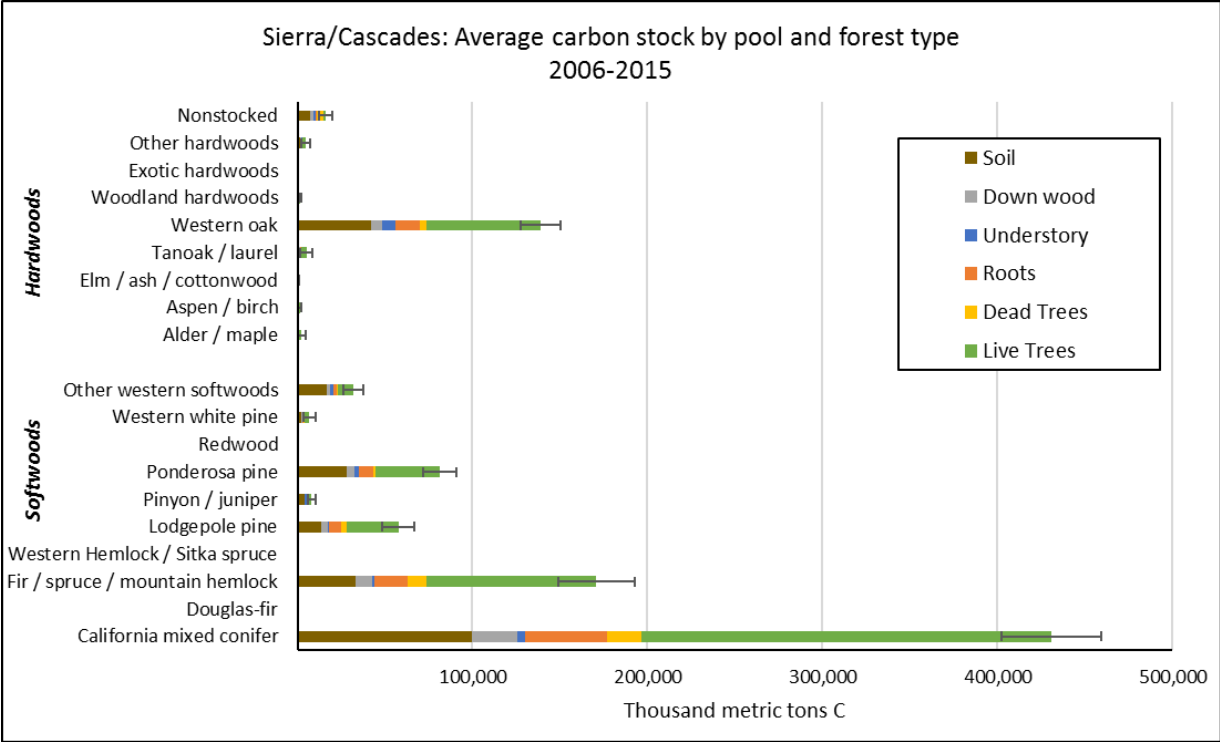


Figure A1.6.1. Sierra/Cascades: Average carbon stock by pool and forest type, 2006-2015 (thousand metric tons C). Error bars represent the 95% confidence interval of total stock for each forest type. Figure derived from Table A1.6.1.

Table A 1.7.1: Forest land carbon stocks (thousand metric tons C) by forest type and pool, 2006-2015: South Coast Mountains and Deserts

	Live Trees		Dead Trees		Roots		Understory		Down wood		Soil		All pools	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand metric tons C</i>														
Softwoods:														
California mixed conifer	2,440	859	354	192	453	151	61	20	371	133	1,550	451	5,227	1,620
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	524	392	41	37	91	68	8	6	44	41	221	161	928	696
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	272	167	76	48	79	48	11	7	89	64	255	156	782	481
Pinyon / juniper	983	233	141	40	240	50	863	100	407	105	4,557	543	7,094	905
Ponderosa pine	1,028	368	49	31	235	84	65	23	126	73	943	313	2,430	820
Redwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	303	181	38	33	61	39	26	15	52	29	433	226	909	498
Total	5,549	1,063	699	210	1,158	201	1,034	105	1,089	201	7,958	831	17,369	2,242
Hardwoods:														
Alder / maple	181	162	2	2	33	30	24	16	6	4	164	117	394	315
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	34	47	1	2	6	9	20	15	1	2	63	83	110	148
Tanoak / laurel	50	49	1	1	11	11	12	11	5	5	76	75	156	153
Western oak	6,777	961	1,222	270	1,549	209	1,266	121	1,253	219	5,682	590	17,355	2,001
Woodland hardwoods	481	166	56	18	90	27	271	60	120	45	957	230	1,870	465
Exotic hardwoods	3	3	--	--		1	11	11	6	6	23	24	38	38
Other hardwoods	84	54	1	1	19	12	85	32	10	6	379	151	560	222
Total	7,611	991	1,283	271	1,708	213	1,688	144	1,401	224	7,344	671	20,483	2,099
Nonstocked	10	10	657	321	162	78	185	46	103	41	1,239	319	2,328	708
All forest types	13,170	1,449	2,638	466	3,028	302	2,908	185	2,594	302	16,541	1,107	40,181	3,130

Note: Totals may be of because of rounding

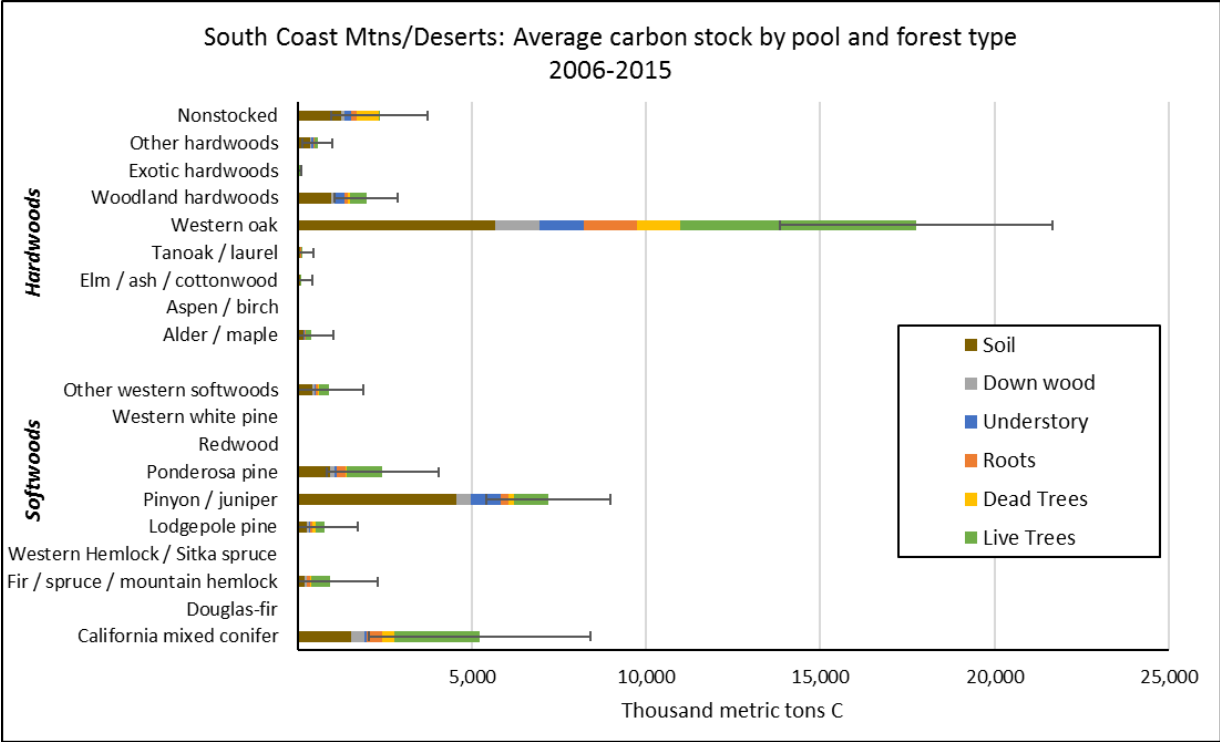


Figure A1.7.1. South Coast Mountains/Deserts: Average carbon stock by pool and forest type, 2006-2015 (thousand metric tons C). Error bars represent the 95% confidence interval of total stock for each forest type. Figure derived from Table A1.7.1.

Table A 1.1.2: Forest land carbon stocks (thousand metric tons C) by forest type and land status, 2006-2015: Central Coast and Interior Ranges

	Unreserved Forests:				Reserved Forests:				All forest land	
	Timberland		Other Forest		Productive		Other Forest		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE		
	<i>Thousand metric tons C</i>									
Softwoods:										
California mixed conifer	--	--	--	--	--	--	--	--	--	--
Douglas-fir	1,631	1,105	--	--	--	--	--	--	1,631	1,105
Fir / spruce / mountain hemlock	--	--	--	--	--	--	--	--	--	--
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	--	--	--	--	--	--	--	--
Pinyon / juniper	--	--	1,344	349	--	--	151	110	1,495	366
Ponderosa pine	--	--	299	214	--	--	131	129	431	249
Redwood	16,512	4,207	--	--	10,984	4,357	--	--	27,496	6,157
Western white pine	--	--	--	--	--	--	--	--	--	--
Other western softwoods	976	788	--	--	--	--	--	--	976	788
Total	19,119	4,413	1,643	409	10,984	4,357	282	169	32,029	6,314
Hardwoods:										
Alder / maple	--	--	94	93	576	641	--	--	670	648
Aspen / birch	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	106	78	--	--	16	22	122	81
Tanoak / laurel	4,964	1,798	3,255	1,004	3,903	2,109	2,186	995	14,309	3,107
Western oak	1,162	644	32,731	2,581	481	363	11,386	1,615	45,759	3,093
Woodland hardwoods	--	--	--	--	--	--	80	58	80	58
Exotic hardwoods	--	--	32	27	--	--	--	--	32	27
Other hardwoods	2,165	1,354	630	298	1,945	1,249	224	133	4,964	1,836
Total	8,291	2,339	36,847	2,784	6,906	2,497	13,892	1,926	65,936	4,674
Nonstocked	--	--	101	101	--	--	43	36	144	107
All forest types	27,410	4,965	38,592	2,817	17,889	4,919	14,218	1,933	98,109	7,707

Note: Totals may be of because of rounding

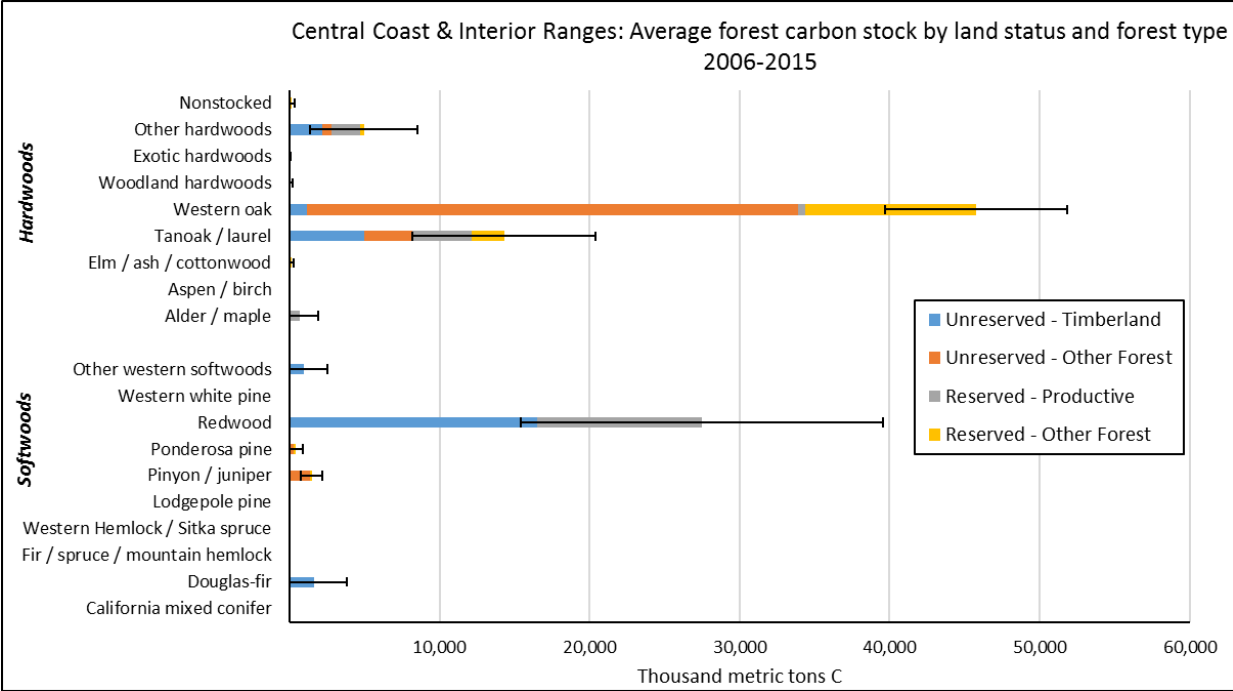


Figure A1.1.2. Central Coast and Interior Ranges: Average forest carbon stock by land status and forest type, 2006-2015 (thousand metric tons C). Error bars represent the 95% confidence interval of total stock for each forest type. Figure derived from Table A1.1.2.

Table A 1.2.2: Forest land carbon stocks (thousand metric tons C) by forest type and land status, 2006-2015: Central Valley

	Unreserved Forests:				Reserved Forests:				All forest land	
	Timberland		Other Forest		Productive		Other Forest		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE		
	<i>Thousand metric tons C</i>									
Softwoods:										
California mixed conifer	--	--	--	--			--	--	--	--
Douglas-fir	--	--	--	--			--	--	--	--
Fir / spruce / mountain hemlock	--	--	--	--			--	--	--	--
Western Hemlock / Sitka spruce	--	--	--	--			--	--	--	--
Lodgepole pine	--	--	--	--			--	--	--	--
Pinyon / juniper	--	--	--	--			--	--	--	--
Ponderosa pine	--	--	--	--			--	--	--	--
Redwood	--	--	--	--			--	--	--	--
Western white pine	--	--	--	--			--	--	--	--
Other western softwoods	--	--	--	--			--	--	--	--
Total	--	--	--	--			--	--	--	--
Hardwoods:										
Alder / maple	--	--	--	--			--	--	--	--
Aspen / birch	--	--	--	--			--	--	--	--
Elm / ash / cottonwood	--	--	513	498			289	282	801	572
Tanoak / laurel	--	--	--	--			--	--	--	--
Western oak	--	--	2,085	573			24	24	2,109	574
Woodland hardwoods	--	--	--	--			--	--	--	--
Exotic hardwoods	1	1	--	--			--	--	1	1
Other hardwoods	--	--	--	--			--	--	--	--
Total	1	1	2,598	760			312	283	2,911	810
Nonstocked	--	--	--	--			--	--	--	--
All forest types	1	1	2,598	760			312	283	2,911	810

Note: Totals may be off because of rounding

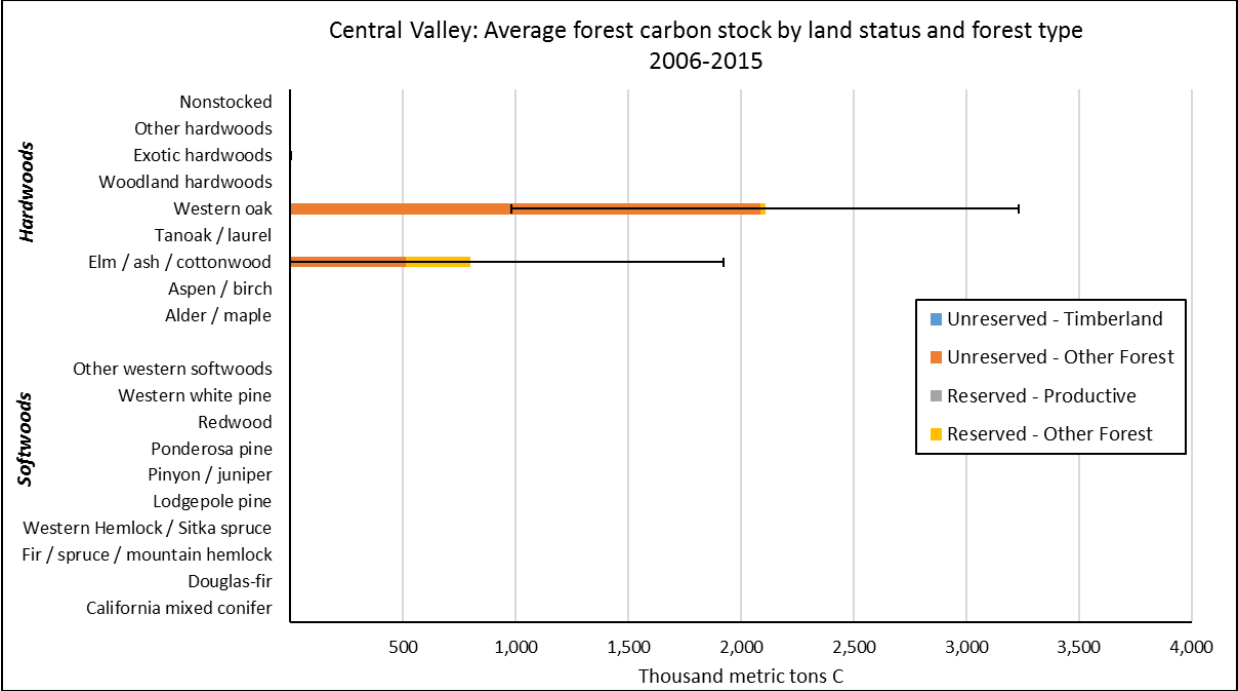


Figure A1.2.2. Central Valley: Average forest carbon stock by land status and forest type, 2006-2015 (thousand metric tons C). Error bars represent the 95% confidence interval of total stock for each forest type. Figure derived from Table A1.2.2.

Table A 1.3.2: Forest land carbon stocks (thousand metric tons C) by forest type and land status, 2006-2015: Eastside

	Unreserved Forests:				Reserved Forests:				All forest land	
	Timberland		Other Forest		Productive		Other Forest		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE		
	<i>Thousand metric tons C</i>									
Softwoods:										
California mixed conifer	14,857	2,144	469	386	--	--	--	--	15,327	2,176
Douglas-fir	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	6,609	1,905	--	--	2,602	1,364	--	--	9,211	2,344
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	970	516	1,326	808	--	--	--	--	2,296	959
Pinyon / juniper	102	102	9,477	1,044	--	--	3,409	685	12,987	1,233
Ponderosa pine	14,605	1,851	240	160	1,067	560	--	--	15,913	1,939
Redwood	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--
Other western softwoods	3,598	831	26,536	2,098	--	--	3,065	1,020	33,199	2,463
Total	40,741	3,522	38,048	2,479	3,670	1,475	6,474	1,228	88,933	4,687
Hardwoods:										
Alder / maple	--	--	--	--	--	--	2	2	2	2
Aspen / birch	732	380	314	180	44	49	1	1	1,091	423
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	--	--
Tanoak / laurel	--	--	--	--	--	--	--	--	--	--
Western oak	221	178	312	226	--	--	--	--	533	288
Woodland hardwoods	706	328	1,175	399	--	--	--	--	1,881	516
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--
Other hardwoods	429	227	46	46	404	341	--	--	879	412
Total	2,088	578	1,847	494	448	344	3	2	4,385	831
Nonstocked	1,840	454	725	281	--	--	89	90	2,654	541
All forest types	44,669	3,610	40,620	2,535	4,118	1,527	6,565	1,236	95,972	4,788

Note: Totals may be off because of rounding

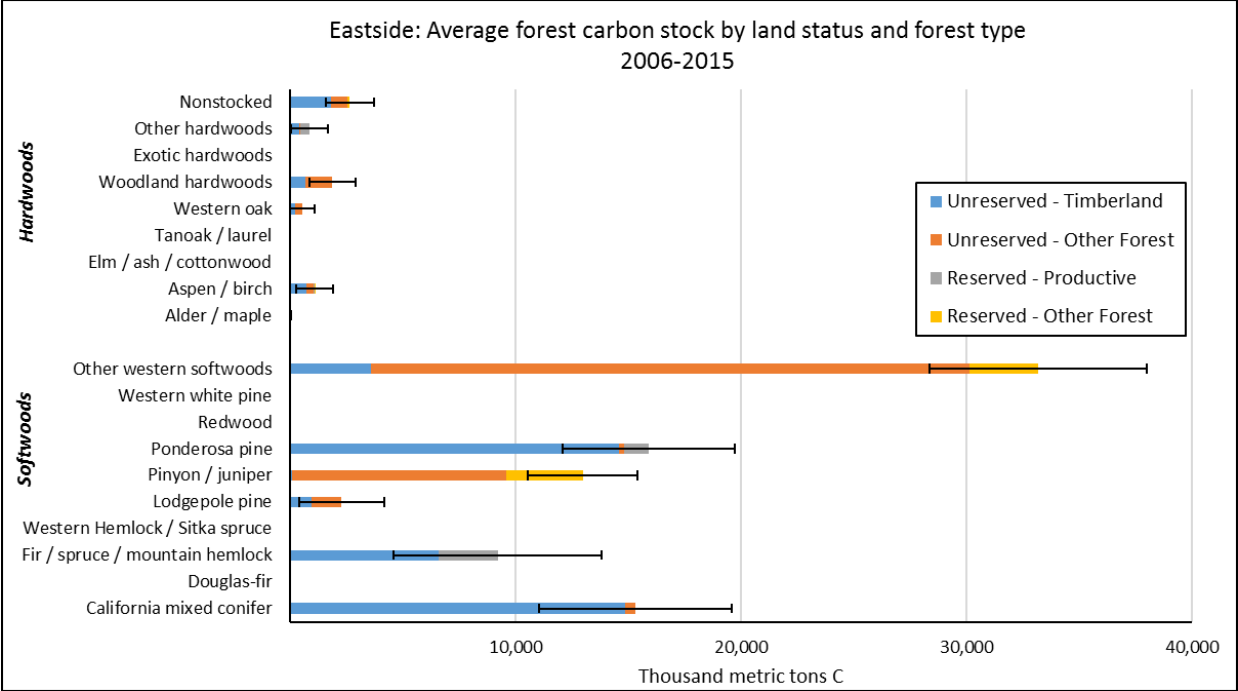


Figure A1.3.2. Eastside: Average forest carbon stock by land status and forest type, 2006-2015 (thousand metric tons C). Error bars represent the 95% confidence interval of total stock for each forest type. Figure derived from Table A1.3.2.

Table A 1.4.2: Forest land carbon stocks (thousand metric tons C) by forest type and land status, 2006-2015: Klamath Interior Coast Ranges

	Unreserved Forests:				Reserved Forests:				All forest land	
	Timberland		Other Forest		Productive		Other Forest		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE		
	<i>Thousand metric tons C</i>									
Softwoods:										
California mixed conifer	193,521	10,502	246	214	60,535	5,934	--	--	254,302	12,001
Douglas-fir	34,849	4,816	574	511	16,408	3,846	955	440	52,785	6,167
Fir / spruce / mountain hemlock	12,107	2,842	715	479	16,303	3,486	589	458	29,712	4,536
Western Hemlock / Sitka spruce	--	--	--	--	233	235	--	--	233	235
Lodgepole pine	258	248	--	--	329	233	178	182	766	386
Pinyon / juniper	--	--	--	--	--	--	--	--	--	--
Ponderosa pine	8,495	1,620	--	--	2,646	1,132	334	282	11,476	1,995
Redwood	1,720	1,236	--	--	8,199	5,019	--	--	9,919	5,169
Western white pine	446	460	220	225	1,140	481	360	247	2,165	745
Other western softwoods	474	330	1,601	575	227	200	186	190	2,489	715
Total	251,870	11,755	3,355	958	106,020	8,693	2,602	792	363,847	14,429
Hardwoods:										
Alder / maple	4,315	1,350	646	413	2,666	1,451	615	459	8,242	2,076
Aspen / birch	--	--	--	--	--	--	67	68	67	68
Elm / ash / cottonwood	--	--	145	142	13	14	--	--	158	142
Tanoak / laurel	41,578	5,437	819	432	16,120	3,386	679	473	59,196	6,415
Western oak	57,332	5,038	56,812	3,722	7,532	1,747	9,375	1,691	131,051	6,631
Woodland hardwoods	--	--	64	45	--	--	120	87	184	98
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--
Other hardwoods	8,415	2,096	117	68	454	253	238	246	9,225	2,127
Total	111,640	7,684	58,603	3,771	26,786	4,027	11,095	1,830	208,123	9,488
Nonstocked	2,860	983	250	147	2,741	874	--	--	5,850	1,323
All forest types	366,369	13,560	62,208	3,890	135,546	9,022	13,697	2,004	577,820	16,313

Note: Totals may be of because of rounding

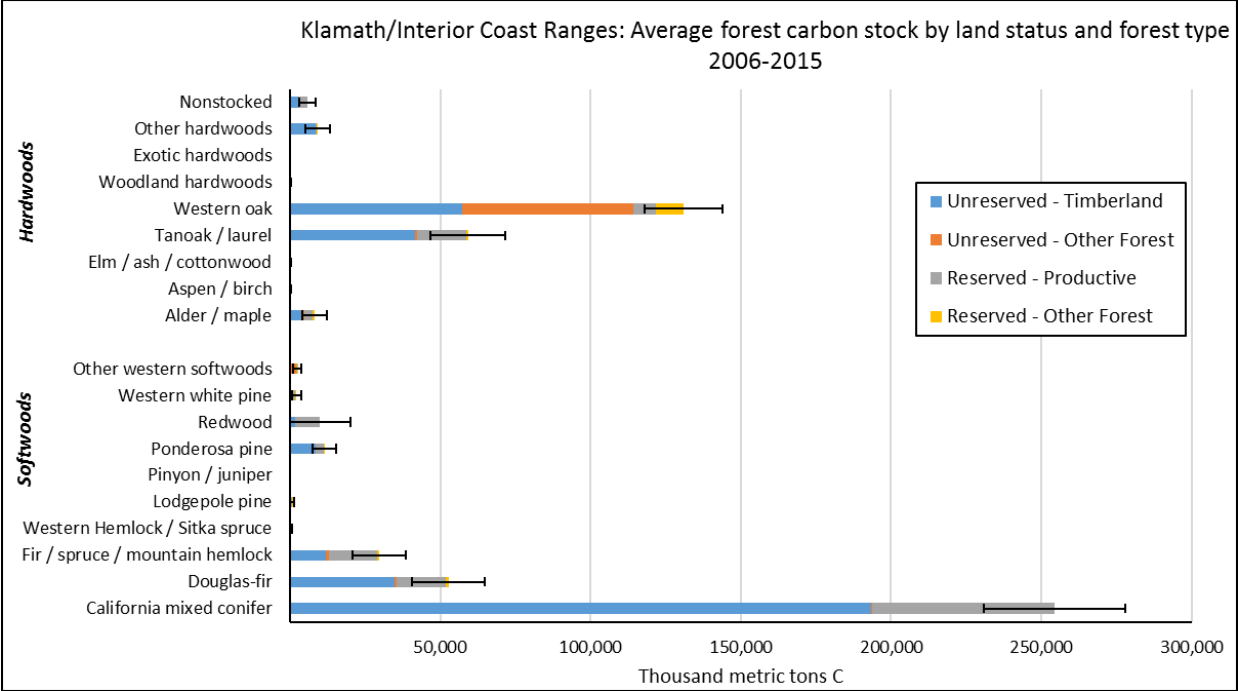


Figure A1.4.2. Klamath/Interior Coast Ranges: Average forest carbon stock by land status and forest type, 2006-2015 (thousand metric tons C). Error bars represent the 95% confidence interval of total stock for each forest type. Figure derived from Table A1.4.2.

Table A 1.5.2: Forest land carbon stocks (thousand metric tons C) by forest type and land status, 2006-2015: North Coast

	Unreserved Forests:				Reserved Forests:				All forest land	
	Timberland		Other Forest		Productive		Other Forest		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE		
	<i>Thousand metric tons C</i>									
Softwoods:										
California mixed conifer	162	152	--	--	--	--	--	--	162	152
Douglas-fir	49,598	5,727	--	--	11,960	3,652	--	--	61,558	6,744
Fir / spruce / mountain hemlock	763	522	--	--	--	--	--	--	763	522
Western Hemlock / Sitka spruce	5,066	2,157	--	--	--	--	--	--	5,066	2,157
Lodgepole pine	--	--	--	--	101	103	--	--	101	103
Pinyon / juniper	--	--	--	--	--	--	--	--	--	--
Ponderosa pine	--	--	--	--	--	--	--	--	--	--
Redwood	68,867	7,692	--	--	20,652	8,929	--	--	89,519	11,603
Western white pine	--	--	--	--	--	--	--	--	--	--
Other western softwoods	1,888	1,371	--	--	20	24	465	403	2,373	1,429
Total	126,344	9,696	--	--	32,732	9,463	465	403	159,541	13,256
Hardwoods:										
Alder / maple	7,109	2,036	313	277	1,210	1,039	--	--	8,633	2,302
Aspen / birch	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	--	--
Tanoak / laurel	65,753	5,798	3,293	1,416	9,045	2,461	1,756	1,293	79,847	6,525
Western oak	7,104	1,640	7,422	1,318	--	--	827	435	15,353	2,154
Woodland hardwoods	--	--	--	--	--	--	137	124	137	124
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--
Other hardwoods	3,799	1,290	93	87	1,067	803	--	--	4,959	1,523
Total	83,765	6,394	11,121	1,951	11,322	2,761	2,719	1,370	108,928	7,273
Nonstocked	169	119	--	--	--	--	--	--	169	119
All forest types	210,278	11,007	11,121	1,951	44,055	9,662	3,184	1,428	268,638	14,423

Note: Totals may be of because of rounding

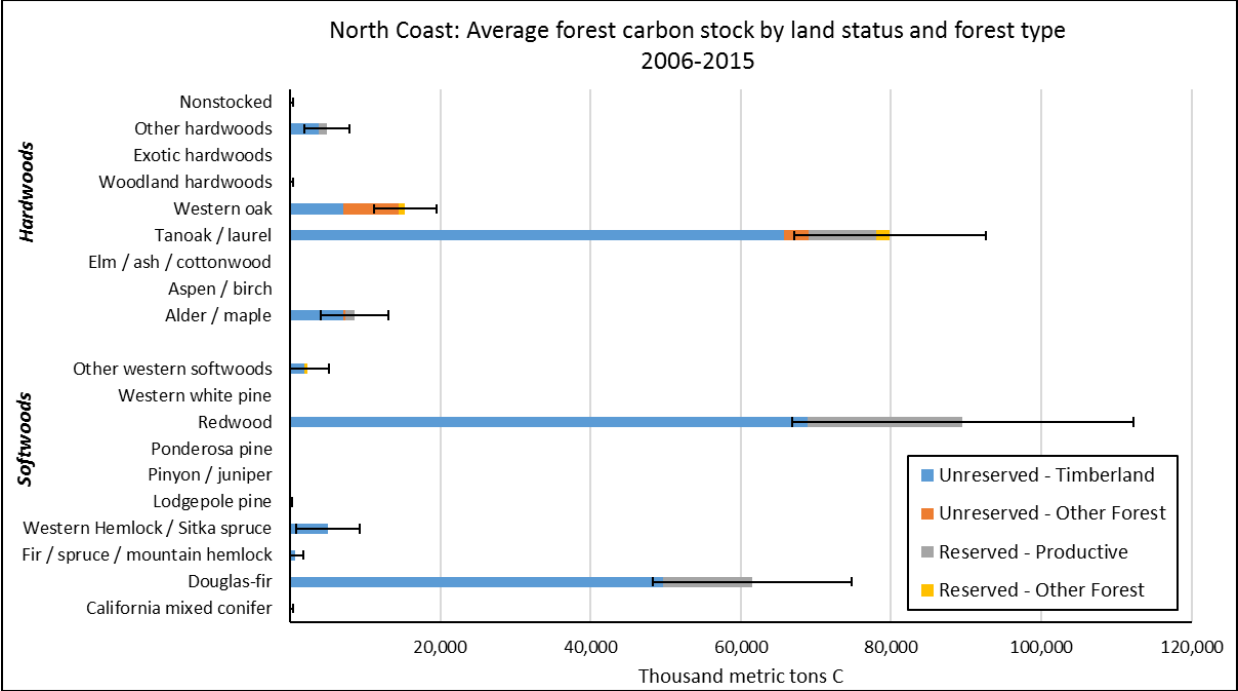


Figure A1.5.2. North Coast: Average forest carbon stock by land status and forest type, 2006-2015 (thousand metric tons C). Error bars represent the 95% confidence interval of total stock for each forest type. Figure derived from Table A1.5.2.

Table A 1.6.2: Forest land carbon stocks (thousand metric tons C) by forest type and land status, 2006-2015: Sierra Cascades

	Unreserved Forests:				Reserved Forests:				All forest land	
	Timberland		Other Forest		Productive		Other Forest		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE		
	<i>Thousand metric tons C</i>									
Softwoods:										
California mixed conifer	340,931	12,759	135	110	87,717	7,800	1,163	845	429,946	14,561
Douglas-fir	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	115,313	8,655	1,284	789	50,807	6,977	2,981	1,219	170,386	11,164
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	16,277	2,539	1,608	688	29,818	3,732	9,805	1,897	57,508	4,777
Pinyon / juniper	154	156	4,428	810	--	--	3,389	742	7,971	1,108
Ponderosa pine	72,115	4,694	1,130	530	6,535	1,562	569	335	80,349	4,972
Redwood	153	140	--	--	--	--	--	--	153	140
Western white pine	777	454	--	--	4,372	1,403	1,730	695	6,879	1,628
Other western softwoods	4,081	977	9,689	1,304	6,576	1,530	11,203	1,767	31,550	2,814
Total	549,801	14,754	18,274	1,920	185,825	10,508	30,841	3,046	784,741	17,600
Hardwoods:										
Alder / maple	2,281	1,166	--	--	--	--	--	--	2,281	1,166
Aspen / birch	280	248	133	84	--	--	826	483	1,239	549
Elm / ash / cottonwood	--	--	392	276	--	--	--	--	392	276
Tanoak / laurel	4,679	1,656	297	151	--	--	28	25	5,003	1,663
Western oak	45,803	4,144	78,131	3,879	6,052	1,639	7,322	1,434	137,309	5,897
Woodland hardwoods	139	140	933	292	--	--	308	208	1,379	385
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--
Other hardwoods	3,049	1,176	1,655	433	--	--	71	77	4,775	1,255
Total	56,231	4,739	81,541	3,917	6,052	1,639	8,555	1,521	152,379	6,351
Nonstocked	12,023	1,748	1,093	358	1,290	533	1,150	424	15,557	1,908
All forest types	618,055	14,884	100,909	4,340	193,167	10,555	40,545	3,405	952,676	17,528

Note: Totals may be off because of rounding

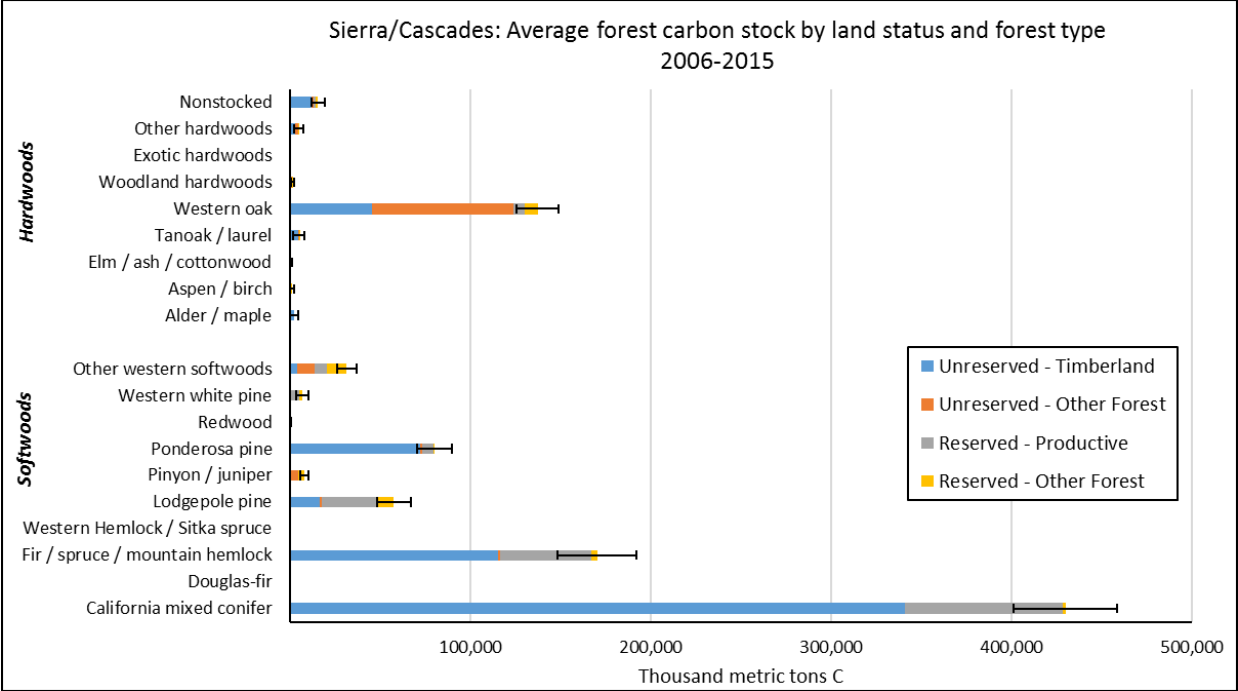


Figure A1.6.2. Sierra/Cascades: Average forest carbon stock by land status and forest type, 2006-2015 (thousand metric tons C). Error bars represent the 95% confidence interval of total stock for each forest type. Figure derived from Table A1.6.2.

Table A 1.7.2: Forest land carbon stocks (thousand metric tons C) by forest type and land status, 2006-2015: South Coast Mountains and Deserts

	Unreserved Forests:				Reserved Forests:				All forest land	
	Timberland		Other Forest		Productive		Other Forest		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE		
	<i>Thousand metric tons C</i>									
Softwoods:										
California mixed conifer	2,517	1,079	--	--	2,710	1,209	--	--	5,227	1,620
Douglas-fir	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	928	696	--	--	--	--	--	--	928	696
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	--	--	--	--	782	481	782	481
Pinyon / juniper	--	--	4,426	711	--	--	2,668	561	7,094	905
Ponderosa pine	966	506	--	--	1,211	594	253	253	2,430	820
Redwood	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--
Other western softwoods	845	492	--	--	--	--	64	78	909	498
Total	5,256	1,464	4,426	711	3,921	1,333	3,766	782	17,369	2,242
Hardwoods:										
Alder / maple	--	--	394	315	--	--	--	--	394	315
Aspen / birch	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	2	2	--	--	108	148	110	148
Tanoak / laurel	--	--	--	--	--	--	156	153	156	153
Western oak	2,863	930	9,856	1,376	1,567	662	3,069	832	17,355	2,001
Woodland hardwoods	--	--	1,635	433	--	--	235	170	1,870	465
Exotic hardwoods	38	38	--	--	--	--	--	--	38	38
Other hardwoods	--	--	560	222	--	--	--	--	560	222
Total	2,900	931	12,447	1,492	1,567	662	3,569	875	20,483	2,099
Nonstocked	675	380	542	238	798	521	313	171	2,328	708
All forest types	8,832	1,773	17,415	1,668	6,286	1,569	7,648	1,181	40,181	3,130

Note: Totals may be off because of rounding

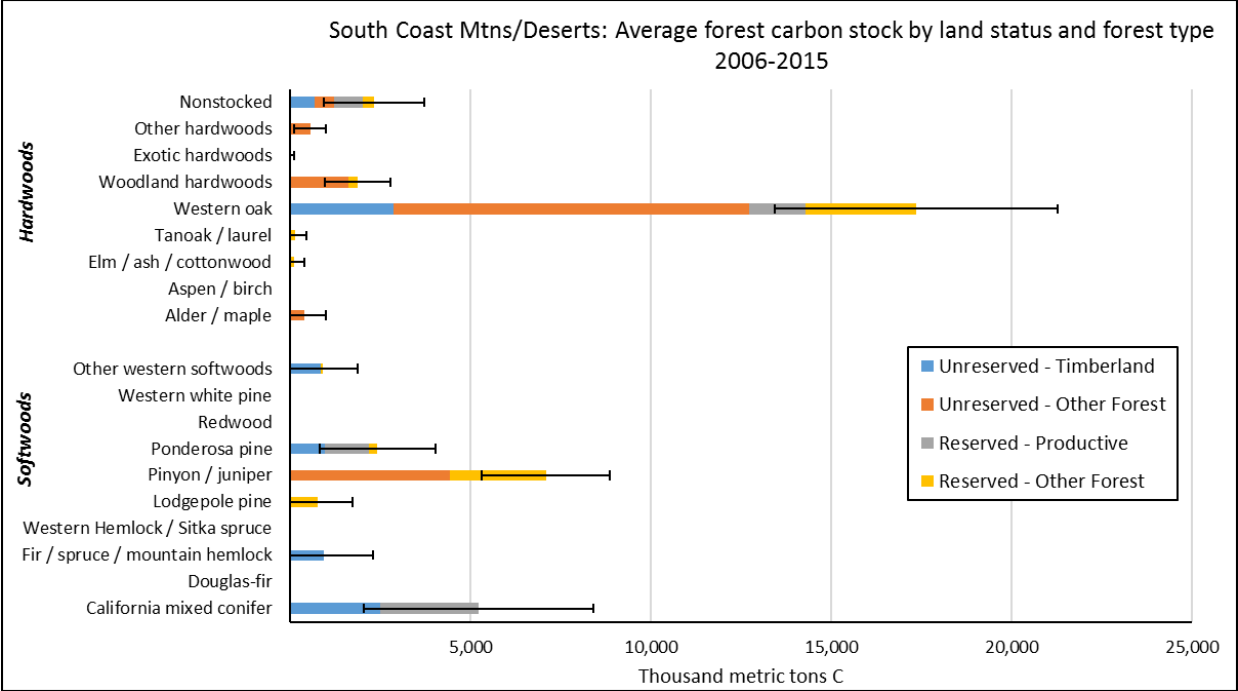


Figure A1.7.2. South Coast Mountains/Deserts: Average forest carbon stock by land status and forest type, 2006-2015 (thousand metric tons C). Error bars represent the 95% confidence interval of total stock for each forest type. Figure derived from Table A1.7.2.

Table C42: Aboveground and Belowground Carbon, Dry Weight of Live Understory Vegetation by Owner Group and Forest Land Status, All California (10-year averages): 2006-2015

**information combined from Table C29 and Table C43 and converted to million metric tons C*

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland		Other forest		Total		Productive		Other forest		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>million metric tons C</i>														
USDA Forest Service:														
National Forest	8.74	0.17	4.77	0.20	13.52	0.22	2.58	0.10	1.93	0.12	4.51	0.14	18.03	0.24
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	8.74	0.17	4.77	0.20	13.52	0.22	2.58	0.10	1.93	0.12	4.51	0.14	18.03	0.24
Other federal government:														
Bureau of Land Management	0.38	0.05	2.00	0.15	2.38	0.16	0.07	0.02	0.37	0.06	0.44	0.06	2.82	0.16
Department of Defense and Energy	0.02	0.01	0.12	0.03	0.15	0.03	--	--	0.01	0.01	0.01	0.01	0.15	0.04
National Park Service	--	--	--	--	--	--	0.79	0.05	0.69	0.08	1.48	0.09	1.48	0.09
U.S. Fish and Wildlife Service	--	--	--	--	--	--	0.01	0.00	0.00	0.00	0.01	0.00	0.01	0.00
Other federal	--	--	0.20	0.04	0.20	0.04	--	--	0.02	0.01	0.02	0.01	0.23	0.05
Total	0.41	0.05	2.32	0.16	2.73	0.16	0.86	0.06	1.10	0.09	1.96	0.10	4.69	0.18
State and local government:														
Local	0.05	0.02	0.19	0.04	0.25	0.04	0.05	0.02	0.29	0.05	0.34	0.05	0.58	0.06
State	0.10	0.02	0.09	0.03	0.18	0.04	0.35	0.04	0.46	0.06	0.82	0.07	1.00	0.07
Other public	--	--	0.02	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.03	0.02
Total	0.15	0.03	0.30	0.05	0.44	0.06	0.41	0.05	0.76	0.07	1.17	0.08	1.62	0.09
Private:														
Corporate	5.17	0.17	1.38	0.11	6.55	0.20	--	--	--	--	--	--	6.55	0.20
Noncorporate private:														
Total, noncorporate private	3.65	0.14	7.79	0.22	11.44	0.25	--	--	--	--	--	--	11.44	0.25
All private	8.82	0.18	9.17	0.24	17.99	0.26	--	--	--	--	--	--	17.99	0.26
All owners	18.12	0.25	16.56	0.35	34.68	0.38	3.86	0.13	3.79	0.17	7.65	0.19	42.32	0.39

Note: Totals may be off because of rounding

Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.