

## ANNUAL REFORESTATION AND TIMBER STAND IMPROVEMENT REPORT

FISCAL YEAR 2018

TABLE 7

## National Forest Land Planted with Known Seed Source

Region	Species	Selective Breeding	Seed Orchard	Select Tree	Seed Production Area	Seed Stand	Seed Zone	Other	Vegetative Material	Total
1	LAOC	143	26	0	0	917	1,099	0	0	2,185
	PIAL	42	2	1	84	90	363	0	0	583
	PICO	0	0	0	0	29	15	0	0	44
	PIEN	0	3	0	0	253	13	0	0	268
	PIMO3	1,935	23	0	0	0	28	0	0	1,986
	PIPO	398	12	0	4	1,302	1,584	0	0	3,300
	POTR5	0	0	0	0	0	18	0	0	18
	PSME	141	0	0	100	261	101	0	0	603
	THPL	0	0	0	0	12	2	0	0	14
Subtotal, R-1		2,659	66	1	188	2,863	3,222	0	0	9,000
2	PIAR	0	0	0	0	2	4	0	0	7
	PICO	0	0	0	0	0	252	0	0	252
	PIEN	0	0	0	0	193	705	0	0	898
	PIFL2	0	0	0	0	0	17	0	0	17
	PIPO	0	0	566	0	0	907	0	0	1,474
	PSME	0	0	41	0	0	287	0	0	328
Subtotal, R-2		0	0	607	0	195	2,172	0	0	2,974
3	PIEN	0	0	0	0	0	20	0	0	20
	PIPO	0	0	0	0	0	561	0	0	561
	PSME	0	0	0	0	0	132	0	0	132
Subtotal, R-3		0	0	0	0	0	713	0	0	713
4	PIAL	0	0	0	0	0	87	0	0	87
	PIPO	0	604	0	0	0	2,582	0	0	3,186
	PSME	0	0	0	0	0	134	0	0	134
Subtotal, R-4		0	604	0	0	0	2,803	0	0	3,407
5	ABCO	0	1	143	0	0	22	0	0	166
	ABMA	0	0	0	0	0	39	0	0	39
	CADE27	0	32	317	0	7	45	0	0	401
	PIJE	0	379	70	25	0	745	0	0	1,219
	PILA	13	7	748	94	134	47	0	0	1,043
	PIPO	0	345	1,316	0	814	142	0	0	2,617
	PSME	0	586	2,674	0	0	38	0	0	3,298
	SEGI2	0	0	20	0	0	0	0	0	20
Subtotal, R-5		13	1,349	5,289	119	955	1,077	0	0	8,801
6	CADE27	0	0	0	0	0	27	0	0	27
	LAOC	0	367	1,703	0	6	411	0	0	2,487
	PIEN	0	64	0	0	0	0	0	0	64
	PILA	30	0	236	0	0	0	0	0	265
	PIMO	0	23	0	8	0	0	0	0	31

ANNUAL REFORESTATION AND TIMBER STAND IMPROVEMENT REPORT

FISCAL YEAR 2018

TABLE 7

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	PIMO3	48	0	10	46	0	0	0	0	104
	PIPO	0	455	3,375	0	0	988	0	0	4,818
	PSME	0	411	1,473	0	0	306	0	0	2,191
	THPL	0	0	24	0	1	276	0	0	301
	TSHE	0	0	6	0	0	0	0	0	6
	Subtotal, R-6	77	1,319	6,827	54	7	2,008	0	0	10,293
8	PIEC2	0	2,502	0	495	0	0	0	0	2,997
	PIPA2	0	2,502	39	0	0	638	0	0	3,179
	PITA	0	0	0	0	0	0	3	0	3
	QURU	0	3	23	0	0	0	0	0	26
	Subtotal, R-8	0	5,007	62	495	0	638	3	0	6,205
9	ABBA	0	0	0	0	0	0	0	0	0
	ACSA3	0	0	0	0	0	2	0	0	2
	BEAL2	0	1	0	0	0	16	0	0	18
	BEPA	0	0	0	0	0	11	0	0	11
	CADE12	1	0	0	0	0	0	0	0	1
	LALA	0	34	0	0	0	39	0	0	73.2
	PIBA2	0	175	0	0	0	1,305	0	0	1,479
	PIEC2	0	444	0	0	0	0	0	0	444
	PIGL	0	364	0	0	0	689	0	0	1,053
	PIMA	0	87	0	0	0	78	0	0	166
	PINUS	0	72	0	0	0	0	0	0	72
	PIRE	0	321	0	0	0	540	0	0	862
	PIRU	0	0	0	0	0	17	0	0	17
	PIST	0	851	1	0	61	816	0	0	1,728
	POTR5	0	0	0	0	0	3	0	0	3
	PRAM	0	0	0	0	0	0	0	0	0
	PRSE2	0	0	0	0	0	2	0	0	2
	QUAL	0	0	0	0	0	7	0	0	8
	QUERC	0	0	0	0	0	11	0	0	11
	QUMA2	0	19	0	0	0	26	0	0	45
	QURU	0	102	27	0	0	250	0	0	379
	SOAM3	0	0	0	0	0	3	0	0	3
	THOC2	0	0	0	0	0	1	0	0	1
	TSCA	0	0	0	0	0	62	3	0	65
	TSUGA	0	0	0	0	0	0	6	0	6
	Subtotal, R-9	1	2,471	28	0	61	3,879	9	0	6,448
10		0	0	0	0	0	0	0	0	0
	Subtotal, R-10	0	0	0	0	0	0	0	0	0
	ALL	2,750	10,816	12,815	856	4,081	16,511	12	0	47,841

ANNUAL REFORESTATION AND TIMBER STAND IMPROVEMENT REPORT

FISCAL YEAR 2018

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Region	Species	Selective Breeding	Seed Orchard	Select Tree	Seed Production Area	Seed Stand	Seed Zone	Other	Vegetative Material	Total
	Percent of Total	5.7	22.6	26.8	1.8	8.5	34.5	0.0	0.0	100.0

ANNUAL REFORESTATION AND TIMBER STAND IMPROVEMENT REPORT

FISCAL YEAR 2018

TABLE 8

**SILVICULTURAL EXAMINATIONS AND PRESCRIPTIONS**

ACRES

Region	Silvicultural Exam Act. 4310, 4314, 4315, 4318	Diagnosis Act. 4320	Prescription Act. 4331, 4332
1	19,920	255,985	23,657
2	3,147	0	0
3	8,891	487	19,992
4	2,415	836	6,499
5	345	0	1,575
6	1,671	0	1,939
8	12,764	0	0
9	63,033	0	0
10	6,231	0	23
ALL	118,417	257,308	53,685

ANNUAL REFORESTATION AND TIMBER STAND IMPROVEMENT REPORT

FISCAL YEAR 2018

TABLE 9

**PLANTING**

Activity Codes 4430-4449

ACRES

Region	NFVW	RTRT	CWKV	CWK2	BDBD	NFRR	Other	Total
1	1,704	3,424	2,763	0	0	0	1,512	9,403
2	557	2,415	122	0	0	0	574	3,668
3	0	1,618	0	0	0	0	442	2,060
4	0	157	0	0	0	212	3,262	3,631
5	2,257	5,730	144	0	0	0	1,701	9,832
6	196	12,487	2,180	0	0	0	2,732	17,595
8	567	1,598	3,253	23	0	0	1,529	6,970
9	923	1,150	3,429	0	0	0	1,381	6,883
10	0	0	0	0	0	0	0	0
ALL	6,204	28,579	11,891	23	0	212	13,133	60,042

TABLE 10

**SEEDING**

Activity Codes 4410-4429

ACRES

Region	NFVW	RTRT	CWKV	CWK2	BDBD	NFRR	Other	Total
1	1	0	0	0	0	0	9	10
2	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0
6	0	0	2,074	0	0	0	0	2,074
8	0	90	221	0	0	0	0	311
9	0	4	0	0	0	0	0	4
10	0	0	0	0	0	0	0	0
ALL	1	94	2,295	0	0	0	9	2,399

ANNUAL REFORESTATION AND TIMBER STAND IMPROVEMENT REPORT

FISCAL YEAR 2018

TABLE 11

**SITE PREPARATION FOR NATURAL REGENERATION**

Activity Codes 4490-4499

ACRES

Region	NFVW	RTRT	CWKV	CWK2	BDBD	NFRR	Other	Total
1	0	0	313	0	0	0	257	570
2	139	61	68	0	0	0	3,121	3,389
3	0	13	0	0	0	0	3,190	3,203
4	0	5,118	0	0	0	0	300	5,418
5	0	125	0	0	0	0	36	161
6	0	0	263	0	0	0	326	589
8	195	2,047	6,580	0	0	0	0	8,822
9	1,336	767	15,116	486	0	0	8,208	25,913
10	0	0	0	0	0	0	0	0
ALL	1,670	8,131	22,340	486	0	0	15,438	48,065

TABLE 11A

**NATURAL REGENERATION WITHOUT SITE PREPARATION**

Activity Codes 4382

ACRES

Region	NFVW	RTRT	CWKV	CWK2	BDBD	NFRR	Other	Total
1	5,647	20,488	0	0	0	278	2,461	28,874
2	217	13,791	1,480	0	0	0	932	16,420
3	0	6,723	0	0	0	0	716	7,439
4	3,331	5,138	25	0	0	0	169	8,663
5	0	365	128	0	0	0	84	577
6	0	0	38	0	0	0	0	38
8	0	249	69	0	0	0	0	318
9	676	1,150	5,925	0	0	0	100	7,851
10	0	1,960	671	0	0	0	0	2,631
ALL	9,871	49,864	8,336	0	0	278	4,462	72,811

ANNUAL REFORESTATION AND TIMBER STAND IMPROVEMENT REPORT

FISCAL YEAR 2018

TABLE 12

**SITE PREPARATION FOR PLANTING OR SEEDING**

Activity Codes 4470-4489

ACRES

Region	NFVW	RTRT	CWKV	CWK2	BDBD	NFRR	Other	Total
1	0	25	827	0	0	0	732	1,584
2	0	491	474	0	0	0	0	965
3	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0
5	727	569	121	0	0	0	3,129	4,546
6	0	327	211	8	0	0	72	618
8	768	2,219	5,605	163	0	0	2,248	11,003
9	102	142	2,498	9	0	0	453	3,204
10	0	0	0	0	0	0	0	0
ALL	1,597	3,773	9,736	180	0	0	6,634	21,920

TABLE 13

**RELEASE AND WEEDING**

Activity Codes 4510-4519

ACRES

Region	NFVW	RTRT	CWKV	CWK2	BDBD	NFRR	Other	Total
1	8	0	53	0	0	118	334	513
2	620	155	63	0	0	0	6,519	7,357
3	0	5	142	0	77	0	14,932	15,156
4	0	0	0	0	0	370	2,188	2,558
5	558	4,937	477	0	0	0	4,853	10,825
6	145	237	1,257	0	0	0	95	1,734
8	5,972	5,244	4,743	934	0	0	4,093	20,986
9	3,286	1,451	2,085	0	0	0	1,812	8,634
10	22	0	0	0	0	0	0	22
ALL	10,611	12,029	8,820	934	77	488	34,826	67,785

ANNUAL REFORESTATION AND TIMBER STAND IMPROVEMENT REPORT

FISCAL YEAR 2018

TABLE 14

**PRECOMMERCIAL THINNING**

Activity Codes 4520-4529

ACRES

Region	NFWW	RTRT	CWKV	CWK2	BDBD	NFRR	Other	Total
1	177	993	9	0	0	0	7,734	8,913
2	3,021	1,212	2,597	0	0	0	7,862	14,692
3	0	0	185	0	0	248	17,692	18,125
4	0	931	0	0	0	0	9,232	10,163
5	267	1,538	266	0	0	0	16,676	18,747
6	842	1,321	3,022	0	0	0	54,095	59,280
8	1,793	88	1,793	0	0	0	540	4,214
9	1,382	416	1,268	0	0	0	2,226	5,292
10	1,295	1,695	0	145	0	0	153	3,288
ALL	8,777	8,194	9,140	145	0	248	116,210	142,714

TABLE 15

**PRUNING**

Activity Codes 4530-4539

ACRES

Region	NFWW	RTRT	CWKV	CWK2	BDBD	NFRR	Other	Total
1	0	0	0	0	0	0	2,406	2,406
2	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	2,466	2,466
5	0	0	0	0	0	0	23	23
6	45	97	401	0	0	0	572	1,115
8	0	0	0	0	0	0	0	0
9	5	442	0	0	0	0	0	447
10	0	0	0	0	0	0	0	0
ALL	50	539	401	0	0	0	5,467	6,457

ANNUAL REFORESTATION AND TIMBER STAND IMPROVEMENT REPORT

FISCAL YEAR 2018

TABLE 16

**FERTILIZATION OF ESTABLISHED STANDS**

Activity Codes 4550-4559

ACRES

Region	NFWW	RTRT	CWKV	CWK2	BDBD	NFRR	Other	Total
1	75	0	0	0	0	0	0	75
2	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	315	315
9	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0
ALL	75	0	0	0	0	0	315	390

TABLE 17

**PRESCRIBED BURNING TO CONTROL UNDERSTORY**

Activity Codes 4541

ACRES

Region	NFWW	RTRT	CWKV	CWK2	BDBD	NFRR	Other	Total
1	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	183	183
8	0	0	826	0	0	0	0	826
9	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0
ALL	0	0	826	0	0	0	183	1,009

ANNUAL REFORESTATION AND TIMBER STAND IMPROVEMENT REPORT

FISCAL YEAR 2018

TABLE 18

**ANIMAL CONTROL FOR REFORESTATION**

Activity Codes 4460-4469

ACRES

Region	NFWW	RTRT	CWKV	CWK2	BDBD	NFRR	Other	Total
1	298	217	626	0	0	40	251	1,432
2	0	0	0	0	0	0	0	0
3	0	372	0	0	0	0	197	569
4	0	0	315	0	0	0	0	315
5	0	0	0	0	0	0	0	0
6	0	2,755	813	0	0	0	747	4,315
8	0	0	0	0	0	0	0	0
9	2,350	344	911	0	0	0	484	4,089
10	0	0	0	0	0	0	0	0
ALL	2,648	3,688	2,665	0	0	40	1,679	10,720

TABLE 19

**ANIMAL CONTROL FOR TIMBER STAND IMPROVEMENT**

Activity Codes 4560-4569

ACRES

Region	NFWW	RTRT	CWKV	CWK2	BDBD	NFRR	Other	Total
1	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0
9	0	16	107	0	0	0	368	491
10	0	0	0	0	0	0	0	0
ALL	0	16	107	0	0	0	368	491

ANNUAL REFORESTATION AND TIMBER STAND IMPROVEMENT REPORT

FISCAL YEAR 2018

TABLE 20

REGENERATION AND INTERMEDIATE HARVEST ACRES

	Clearcut	Prep cut	Seed cut	Removal cut	Selection cut	Improvement cut	Thinning	Sanitation cut	Harvest without Restocking	Total
FACTS Code	4101,4102 4111-4117 4162-4177	4121, 4131, 4132, 4122, 4192	4183, 4194	4141-4148 4193, 4196	4151, 4152	4210, 4211	4220	4231, 4232	4242	
Region										
1	3,245	21	3,428	1,655	222	2,156	4,658	1,884	0	17,269
2	4,445	170	1,442	3,860	1,318	44	6,832	12,277	0	30,388
3	0	0	0	0	819	0	8,727	146	0	9,692
4	7,119	0	0	99	1,542	97	2,296	1,275	0	12,428
5	3,035	0	0	6	398	119	19,251	6,382	0	29,191
6	123	68	102	123	827	231	39,813	1,096	0	42,383
8	4,558	195	4,153	699	274	194	31,441	2,211	0	43,725
9	10,529	500	3,764	1,987	11,783	289	13,860	1,090	369	44,171
10	438	0	0	0	498	0	0	0	0	936
ALL	33,492	954	12,889	8,429	17,681	3,130	126,878	26,361	369	230,183

ANNUAL REFORESTATION AND TIMBER STAND IMPROVEMENT REPORT

FISCAL YEAR 2018

TABLE 21

**CERTIFICATION OF REFORESTATION AND TIMBER STAND IMPROVEMENT ACREAGES**

Region	Reforestation					Timber Stand Improvement					
	Planted	Seeded	Natural Regen W/Site Preparation	Natural Regen W/O Site Preparation	Total Reforestation	Cleaning	Release	Pre. Comm. Thinning	Fertilization	Pruning	Total TSI
1	3,432	0	1,175	28,874	33,481	0	513	8,071	75	2,894	11,553
2	632	0	242	16,419	17,293	0	6,716	12,106	0	0	18,822
3	529	0	0	7,439	7,968	0	14,111	12,320	0	0	26,431
4	1,684	0	146	8,663	10,493	0	2,150	8,534	0	686	11,370
5	1,285	0	0	577	1,862	0	8,261	17,782	0	353	26,396
6	4,885	0	33	38	4,956	0	1,014	37,501	0	1,389	39,904
8	846	0	3,221	318	4,385	0	13,681	3,927	315	0	17,923
9	5,829	237	10,280	7,851	24,197	0	10,758	2,566	0	407	13,731
10	0	0	0	2,631	2,631	0	22	2,306	0	233	2,561
ALL	19,122	237	15,097	72,810	107,266	0	57,226	105,113	390	5,962	168,691

ANNUAL REFORESTATION AND TIMBER STAND IMPROVEMENT REPORT

FISCAL YEAR 2018

APPENDIX A

**Hardwoods**

**Conifers**

Forest Survey Code	USDA-NRCS PLANTS Symbol	Common Name	Forest Survey Code	USDA-NRCS PLANTS Symbol	Common Name
0312	ACMA3	bingleaf maple	0011	ABAM	Pacific silver fir
0317	ACSA2	silver maple	0012	ABBA	balsam fir
0318	ACSA3	sugar maple	0015	ABCO	white fir
0352	ALRH2	white alder	0017	ABGR	grand fir
0361	ARME	Pacific madrone	0018	ABLAA	corkbark fir
0371	BEAL2	yellow birch	0019	ABLA	subalpine fir
0375	BEPA	paper birch	0020	ABMA	California red fir
0400	CARYA	hickory	0022	ABPR	noble fir
0404	CAIL2	pecan	0041	CHLA	Port Orford cedar
0407	CAOV2	shagbark hickory	0070	LARIX	larch
0421	CADE12	American chestnut	0071	LALA	tamarack
0462	CEOC	common hackberry	0073	LAOC	western larch
0475	CELE3	Curl-Leaf Mountain Mahogany	0081	CADE27	incense cedar
0544	FRPE	green ash	0090	PICEA	spruce spp.
0571	GYDI	Kentucky coffee tree	0093	PIEN	Engelmann spruce
0601	JUCI	butternut	0094	PIGL	white spruce
0602	JUNI	black walnut	0095	PIMA	black spruce
0621	LITU	tuliptree	0096	PIPU	blue spruce
0651	MAAC	cucumber-tree	0097	PIRU	red spruce
0731	PLOC	American sycamore	0098	PISI	Sitka spruce
0743	POGR4	bigtooth aspen	0100	PINUS	pine spp.
0746	POTR5	quaking aspen	0101	PIAL	whitebark pine
0747	POBAT	black cottonwood	0102	PIAR	Bristlecone Pine
0749	POAN3	narrowleaf cottonwood	0103	PIAT	knobcone pine
0762	PRSE2	black cherry	0104	PIBA	foxtail pine
0766	PRAM	American Plum	0105	PIBA2	jack pine
0768	PREM	bitter cherry	0107	PICL	Sand Pine
0800	QUERC	oak species	0108	PICO	lodgepole pine
0801	QUAG	California live oak	0109	PICO3	Coulter pine
0802	QUAL	white oak	0110	PIEC2	shortleaf pine
0804	QUBI	swamp white oak	0112	PIEN2	Apache pine
0805	QUCH2	canyon live oak	0113	PIFL2	limber pine
0809	QUEL	northern pin oak	0116	PIJE	Jeffrey pine
0812	QUFA	southern red oak	0117	PILA	sugar pine
0822	QULY	overcup oak	0119	PIMO3	western white pine
0823	QUMA2	bur oak	N/A	PINI	austrian pine
0827	QUNI	water oak	0121	PIPA2	longleaf pine
0828	QUTE	nuttall oak	0122	PIPO	ponderosa pine
0830	QUPA2	pin oak	N/A	PIQU	parry pinyon
0831	QUPH	willow oak	0125	PIRE	red pine
0832	QUPR2	chestnut oak	0126	PIRI	pitch pine
0833	QURU	northern red oak	0129	PIST	eastern white pine
0834	QUSH	Shumard's oak	0131	PITA	loblolly pine
0837	QUVE	black oak	0133	PIMO	singleleaf pinyon

ANNUAL REFORESTATION AND TIMBER STAND IMPROVEMENT REPORT

FISCAL YEAR 2018

0935	SOAM3	American mountain ash	0137	PIWA	Washoe pine
0951	TIAM	American basswood	0201	PSMA	bigcone Douglas-fir
			0202	PSME	Douglas-fir
			0212	SEGI2	giant sequoia
			0221	TADI2	bald cypress
			0241	THOC2	northern white cedar
			0242	THPL	western red cedar