

ANNUAL REFORESTATION AND TIMBER STAND IMPROVEMENT REPORT

FISCAL YEAR 2019

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	615	0	0	0	896	1,528	0	0	3,039
	PIAL	21	0	0	59	310	111	0	0	501
	PICO	0	0	0	0	128	0	0	0	128
	PIEN	0	0	0	0	116	146	0	0	262
	PIFL2	0	0	0	0	0	12	0	0	12
	PIMO3	2,604	0	0	0	0	0	0	0	2,604
	PIPO	599	0	0	0	1,076	1,911	0	0	3,585
	POTR5	0	0	0	0	0	0	0	8	8
	PSME	177	0	0	0	135	30	0	0	341
	THPL	0	0	0	0	11	0	0	0	11
	ULRU	0	0	0	0	26	0	0	0	26
Subtotal, R-1		4,015	0	0	59	2,697	3,737	0	8	10,517
2	PICO	0	0	0	0	0	19	0	0	19
	PIEN	0	0	333	0	450	405	0	0	1,189
	PIPO	0	0	0	0	0	1,733	0	0	1,733
	PSME	0	0	0	0	10	264	0	0	274
Subtotal, R-2		0	0	333	0	460	2,420	0	0	3,214
3	PIPO	0	0	0	0	0	0	36	0	36
		0	0	0	0	0	0	25	0	25
		0	0	0	0	0	371	152	0	522
		0	0	0	0	0	0	85	0	85
	PSME	0	0	0	0	0	212	138	0	349
Subtotal, R-3		0	0	0	0	0	582	435	0	1,017
4	PIAL	0	0	0	0	0	195	0	0	195
	PIEN	0	0	0	0	0	181	0	0	181
	PIPO	0	0	0	0	0	224	0	0	224
	PSME	0	0	0	0	0	38	0	0	38
Subtotal, R-4		0	0	0	0	0	638	0	0	638
5	ABCO	0	8	0	6	0	0	0	0	14
	ABMA	0	17	0	0	0	0	0	0	17
	CADE27	0	55	32	19	23	3	0	0	132
	PICO3	0	0	0	0	0	23	0	0	23
	PIJE	0	375	196	0	0	60	0	0	631
	PILA	4	85	356	155	44	0	0	0	643
	PIPO	0	1,067	1,321	176	122	741	0	0	3,427
	PSMA	0	0	0	0	0	153	0	0	153
	PSME	0	212	887	19	35	76	0	0	1,230
	SEGI2	0	0	21	0	0	45	0	0	66
Subtotal, R-5		4	1,820	2,813	373	225	1,100	0	0	6,335

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6	ABPR	0	0	6	0	0	0	8	0	15
	CADE27	0	3	0	0	0	0	0	0	3
	LAOC	13	0	416	25	0	1,087	0	0	1,541
	PIAL	4	0	299	0	0	0	0	0	303
	PICO	0	0	0	0	0	280	0	0	280
	PIEN	0	0	0	0	0	31	0	0	31
	PILA	218	0	0	0	0	0	0	0	218
	PIMO3	82	45	56	30	0	76	0	0	290
	PIPO	156	0	3,671	0	0	2,438	0	0	6,265
	PSME	0	28	692	0	0	698	13	0	1,430
	THPL	4	15	5	0	0	10	0	0	33
	TSHE	0	0	10	0	0	106	0	0	116
Subtotal, R-6		476	91	5,155	55	0	4,725	21	0	10,523
8	PIEC2	0	2,298	0	255	0	68	58	0	2,679
	PINUS	0	105	0	0	0	0	0	0	105
	PIPA2	0	3,444	0	288	79	404	618	0	4,833
	PIPU5	0	25	0	0	0	0	0	0	25
	PIRI	0	70	0	0	0	0	0	0	70
	QUAL	0	0	0	0	0	32	0	0	32
	QURU	0	71	0	0	0	0	3	0	74
	Subtotal, R-8		0	6,013	0	543	79	504	679	0
9	ABBA	0	7	0	0	0	0	0	0	7
	ACRU	0	0	0	0	0	2	0	0	2
	ACSA3	0	0	0	0	0	1	0	0	1
	BEAL2	0	6	0	0	0	21	0	0	27
	BEPA	0	0	0	0	0	60	0	0	60
	CAOV2	0	0	0	0	0	0	0	0	0
	JUCI	0	0	0	0	0	1	0	0	1
	LALA	0	87	0	0	0	15	0	0	102
	LITU	0	0	0	0	0	1	0	0	1
	PIBA2	0	396	0	0	0	401	195	0	991
	PIEC2	0	646	0	0	0	0	0	0	646
	PIGL	0	464	0	0	0	390	49	0	903
	PIMA	0	94	0	0	0	32	0	0	126
	PIRE	0	697	0	0	2	684	0	0	1,383
	PIRU	0	0	0	0	0	11	0	0	11
	PIST	0	1,848	0	0	3	145	4	0	2,000
	POBA2	0	2	0	0	0	0	0	0	2
	PRSE2	0	0	0	0	0	3	0	0	3
	QUAL	0	0	0	0	0	4	0	0	4
	QUERC	0	0	0	0	0	7	0	0	7
QUMA2	0	4	0	0	0	5	0	0	9	

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Region	Species	Selective Breeding	Seed Orchard	Select Tree	Seed Production Area	Seed Stand	Seed Zone	Other	Vegetative Material	Total
	QURU	0	9	0	0	0	84	0	0	94
	QUVE	0	0	0	0	0	1	0	0	1
	SOAM3	0	0	0	0	0	1	0	0	1
	THOC2	0	8	0	0	0	12	0	0	20.8
	TSCA	0	0	0	0	0	131	0	0	131
	Subtotal, R-9	0	4,268	0	0	4	2,013	248	0	6,533
10		0	0	0	0	0	0	0	0	0
	Subtotal, R-10	0	0	0	0	0	0	0	0	0
	ALL	4,495	12,192	8,301	1,030	3,466	15,719	1,383	8	46,594
	Percent of Total	9.6	26.2	17.8	2.2	7.4	33.7	3.0	0.0	100.0

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TABLE 8

SILVICULTURAL EXAMINATIONS AND PRESCRIPTIONS

ACRES

Region	Silvicultural Exam Act. 4310-4319	Diagnosis Act. 4320-4329	Prescription Act. 4330-4339
1	36,371	109,590	26,828
2	3,293	0	0
3	10,232	8	5,397
4	13,160	2,579	0
5	0	0	912
6	5,167	0	2,404
8	33,256	0	7,196
9	71,831	0	0
10	1,892	0	1,266
ALL	175,202	112,177	44,003

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TABLE 9

PLANTING

Activity Codes 4430-4449

ACRES

Region	NFVW	RTRT	CWKV	CWK2	BDBD	NFRR	Other	Total
1	484	5,320	3,645	9	0	0	1,217	10,675
2	0	3,785	447	0	0	0	223	4,455
3	81	2,819	0	0	0	0	304	3,204
4	2	2,901	90	10	0	0	217	3,220
5	18	3,917	353	0	0	0	3,132	7,420
6	56	12,372	971	0	0	0	613	14,012
8	104	2,663	3,884	0	0	0	1,374	8,025
9	1,437	1,019	3,532	0	0	0	944	6,932
10	0	0	0	0	0	0	0	0
ALL	2,182	34,796	12,922	19	0	0	8,024	57,943

TABLE 10

SEEDING

Activity Codes 4410-4429

ACRES

Region	NFVW	RTRT	CWKV	CWK2	BDBD	NFRR	Other	Total
1	0	0	0	0	0	0	0	0
2	0	498	0	0	0	0	0	498
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	12	2,105	0	0	0	0	2,117
9	0	0	16	0	0	0	0	16
10	0	0	0	0	0	0	0	0
ALL	0	510	2,121	0	0	0	0	2,631

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TABLE 11

SITE PREPARATION FOR NATURAL REGENERATION

Activity Codes 4490-4499

ACRES

Region	NFVW	RTRT	CWKV	CWK2	BDBD	NFRR	Other	Total
1	0	0	296	0	0	0	684	980
2	9	0	139	0	0	0	1,092	1,240
3	0	12	0	0	0	0	8,591	8,603
4	0	400	0	0	0	0	2,534	2,934
5	0	0	0	0	0	0	25	25
6	0	0	0	0	0	0	64	64
8	109	1,304	4,930	29	0	0	72	6,444
9	912	604	11,499	0	0	0	7,054	20,069
10	0	0	0	0	0	0	0	0
ALL	1,030	2,320	16,864	29	0	0	20,116	40,359

TABLE 11A

NATURAL REGENERATION WITHOUT SITE PREPARATION

Activity Codes 4382

ACRES

Region	NFVW	RTRT	CWKV	CWK2	BDBD	NFRR	Other	Total
1	3,713	15,333	59	0	0	0	5,985	25,090
2	1,418	11,048	5,765	0	0	0	1,306	19,537
3	0	8,647	0	0	0	189	107	8,943
4	0	3,190	0	0	0	0	0	3,190
5	0	0	41	0	0	0	0	41
6	16	3,469	338	0	0	0	0	3,823
8	0	7	0	0	0	0	0	7
9	837	496	7,618	0	0	0	101	9,052
10	0	67	1,443	0	0	0	0	1,510
ALL	5,984	42,257	15,264	0	0	189	7,499	71,193

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TABLE 12

SITE PREPARATION FOR PLANTING OR SEEDING

Activity Codes 4470-4489

ACRES

Region	NFVW	RTRT	CWKV	CWK2	BDBD	NFRR	Other	Total
1	15	0	573	0	0	0	558	1,146
2	0	0	894	0	0	0	0	894
3	0	0	0	0	0	0	0	0
4	0	0	1	0	0	0	0	1
5	0	1,297	250	0	0	0	7,079	8,626
6	0	60	100	0	0	0	156	316
8	948	2,974	5,433	130	0	0	1,890	11,375
9	151	178	1,997	0	0	0	574	2,900
10	0	0	0	0	0	0	0	0
ALL	1,114	4,509	9,248	130	0	0	10,257	25,258

TABLE 13

RELEASE AND WEEDING

Activity Codes 4510-4519

ACRES

Region	NFVW	RTRT	CWKV	CWK2	BDBD	NFRR	Other	Total
1	0	0	21	0	0	0	817	838
2	6	415	50	0	0	0	2,272	2,743
3	0	19	0	0	0	0	26,578	26,597
4	0	63	7	0	0	0	1,314	1,384
5	18	3,090	76	0	0	0	6,802	9,986
6	0	119	2,817	0	0	0	75	3,011
8	3,156	3,075	4,550	335	0	0	3,668	14,784
9	1,912	2,995	2,479	0	0	0	5,790	13,176
10	20	0	0	10	0	0	0	30
ALL	5,112	9,776	10,000	345	0	0	47,316	72,549

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TABLE 14

PRECOMMERCIAL THINNING

Activity Codes 4520-4529

ACRES

Region	NFWW	RTRT	CWKV	CWK2	BDBD	NFRR	Other	Total
1	809	101	0	0	0	0	4,547	5,457
2	2,724	1,507	2,034	0	0	0	5,345	11,610
3	1,380	340	0	0	0	103	28,057	29,880
4	18	308	0	0	0	0	7,742	8,068
5	215	255	72	0	0	0	21,640	22,182
6	442	2,314	1,215	0	0	0	38,385	42,356
8	1,028	834	786	20	0	0	534	3,202
9	621	560	2,504	0	0	0	788	4,473
10	535	1,235	90	0	0	0	50	1,910
ALL	7,772	7,454	6,701	20	0	103	107,088	129,138

TABLE 15

PRUNING

Activity Codes 4530-4539

ACRES

Region	NFWW	RTRT	CWKV	CWK2	BDBD	NFRR	Other	Total
1	5	0	0	0	0	0	1,935	1,940
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	998	998
5	0	52	0	0	0	0	855	907
6	0	44	74	0	0	0	272	390
8	0	0	0	0	0	0	0	0
9	42	165	0	0	0	0	1,080	1,287
10	0	0	0	0	0	0	0	0
ALL	47	261	74	0	0	0	5,140	5,522

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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	5	5
8	0	0	0	0	0	0	4	4
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	9	84

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	270	270
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	1,105	0	44	0	0	0	0	1,149
9	0	0	208	0	0	0	367	575
10	0	0	0	0	0	0	0	0
ALL	1,105	0	252	0	0	0	637	1,994

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TABLE 18

ANIMAL CONTROL FOR REFORESTATION

Activity Codes 4460-4469

ACRES

Region	NFVW	RTRT	CWKV	CWK2	BDBD	NFRR	Other	Total
1	0	446	38	0	0	0	40	524
2	0	0	0	0	0	0	0	0
3	0	86	0	0	0	0	0	86
4	0	0	0	0	0	0	0	0
5	0	249	0	0	0	0	0	249
6	57	2,626	108	0	0	0	0	2,791
8	0	0	0	0	0	0	0	0
9	16	576	935	0	0	0	2,802	4,329
10	0	0	0	0	0	0	0	0
ALL	73	3,983	1,081	0	0	0	2,842	7,979

TABLE 19

ANIMAL CONTROL FOR TIMBER STAND IMPROVEMENT

Activity Codes 4560-4569

ACRES

Region	NFVW	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	46	120	0	0	0	301	467
10	0	0	0	0	0	0	0	0
ALL	0	46	120	0	0	0	301	467

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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
	4101, 4102									
FACTS Code	4110-4119 4162-4177	4120, 4121 4192	4131, 4132 4183, 4194	4141-4148 4193, 4196	4151, 4152	4210, 4211	4220	4231, 4232	4242	4110-4249
Region										
1	7,826	0	3,834	1,610	22	2,199	3,483	625	188	19,787
2	5,377	79	3,126	4,220	2,826	278	9,117	4,007	23	29,053
3	718	0	0	97	1,494	774	12,167	479	0	15,729
4	121	0	32	217	609	28	928	897	0	2,832
5	424	0	0	26	615	330	13,370	2,302	0	17,067
6	309	0	1,533	443	1,168	564	38,843	897	0	43,757
8	4,086	95	1,547	623	185	22	17,637	637	49	24,881
9	8,220	158	4,319	1,950	11,644	939	11,698	2,667	441	42,036
10	401	0	0	0	20	0	0	0	0	421
ALL	27,482	332	14,391	9,186	18,583	5,134	107,243	12,511	701	195,563

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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	4,981	0	1,006	25,089	31,076	0	878	6,020	75	1,133	8,106
2	2,454	0	306	19,537	22,297	0	1,474	11,213	0	0	12,687
3	255	0	0	8,943	9,198	0	23,780	15,926	0	0	39,706
4	1,620	0	142	3,190	4,952	0	2,248	5,496	0	534	8,278
5	316	0	0	41	357	0	5,343	8,658	0	0	14,001
6	3,416	0	939	3,823	8,178	0	2,055	53,689	5	561	56,310
8	761	0	1,783	7	2,551	0	9,713	1,609	4	0	11,326
9	5,457	324	13,164	9,051	27,996	0	12,547	5,075	0	1,094	18,716
10	0	0	0	1,510	1,510	0	30	1,182	0	0	1,212
ALL	19,260	324	17,340	71,191	108,115	0	58,068	108,868	84	3,322	170,342

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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
0316	ACRU	Red Maple	0012	ABBA	balsam fir
0317	ACSA2	silver maple	0015	ABCO	white fir
0318	ACSA3	sugar maple	0017	ABGR	grand fir
0352	ALRH2	white alder	0018	ABLAA	corkbark fir
0361	ARME	Pacific madrone	0019	ABLA	subalpine fir
0371	BEAL2	yellow birch	0020	ABMA	California red fir
0375	BEPA	paper birch	0022	ABPR	noble fir
0400	CARYA	hickory	0041	CHLA	Port Orford cedar
0404	CAIL2	pecan	0070	LARIX	larch
0407	CAOV2	shagbark hickory	0071	LALA	tamarack
0421	CADE12	American chestnut	0073	LAOC	western larch
0462	CEOC	common hackberry	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
0741	POBA2	Balsam Poplar	0100	PINUS	pine spp.
0743	POGR4	bigtooth aspen	0101	PIAL	whitebark pine
0746	POTR5	quaking aspen	0103	PIAT	knobcone pine
0747	POBAT	black cottonwood	0104	PIBA	foxtail pine
0749	POAN3	narrowleaf cottonwood	0105	PIBA2	jack pine
0762	PRSE2	black cherry	0107	PICL	Sand Pine
0768	PREM	bitter cherry	0108	PICO	lodgepole pine
0800	QUERC	oak species	0109	PICO3	Coulter pine
0801	QUAG	California live oak	0110	PIEC2	shortleaf pine
0802	QUAL	white oak	0112	PIEN2	Apache pine
0804	QUBI	swamp white oak	0113	PIFL2	limber pine
0805	QUCH2	canyon live oak	0114	PIST3	Southwestern White P
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	0123	PIPU5	Table Mountain Pine
0831	QUPH	willow oak	N/A	PIQU	parry pinyon
0832	QUPR2	chestnut oak	0125	PIRE	red pine
0833	QURU	northern red oak	0126	PIRI	pitch pine
0834	QUSH	Shumard's oak	0129	PIST	eastern white pine
0837	QUVE	black oak	0131	PITA	loblolly pine

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FISCAL YEAR 2019

0935	SOAM3	American mountain ash	0133	PIMO	singleleaf pinyon
0951	TIAM	American basswood	0137	PIWA	Washoe pine
0975	ULRU	Slippery Elm	0201	PSMA	bigcone Douglas-fir
			0202	PSME	Douglas-fir
			0212	SEGI2	giant sequoia
			0221	TADI2	bald cypress
			0241	THOC2	northern white cedar