

## ANNUAL REFORESTATION AND TIMBER STAND IMPROVEMENT REPORT

FISCAL YEAR 2021

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	FRPE	0	0	0	0	0	4	0	0	4
	LAOC	809	0	42	40	447	1,212	0	0	2,549
	PIAL	0	0	18	100	263	42	0	0	424
	PICO	0	0	0	0	6	59	0	0	65
	PIEN	0	0	27	0	7	107	0	0	142
	PIMO3	1,627	0	2	0	0	0	0	0	1,629
	PIPO	1,377	0	8	101	938	1,760	0	0	4,184
	PRVI	0	0	0	0	0	6	0	0	6
	PSME	0	0	0	0	29	189	0	0	218
	THPL	0	0	0	0	10	0	0	0	10
	TSME	0	0	0	0	8	0	0	0	8
ULRU	0	0	0	0	8	0	0	0	8	
Subtotal, R-1		3,813	0	97	241	1,716	3,379	0	0	9,247
2	PICO	0	0	0	0	0	289	0	0	289
	PIEN	0	0	0	0	0	739	0	0	739
	PIFL2	0	0	0	0	0	9	0	0	9
	PIMO3	0	0	0	0	0	0	0	0	0
	PIPO	0	0	442	0	0	947	0	0	1,389
	PIST	0	0	6	0	0	0	0	0	6
	PSME	0	0	21	0	0	194	0	0	215
Subtotal, R-2		0	0	469	0	0	2,178	0	0	2,646
3	ABCO	0	0	0	0	0	4	0	0	4
	PIFL2	0	0	0	0	0	22	0	0	22
	PIPO	0	0	0	0	93	470	184	0	748
	PIST3	0	0	7	0	0	4	76	0	87
	PSME	0	0	0	0	0	63	130	0	193
Subtotal, R-3		0	0	7	0	93	563	390	0	1,053
4	PIAL	0	0	0	0	0	37	0	0	37
	PIEN	0	0	0	0	0	21	0	0	21
	PINUS	0	0	0	0	0	5	0	0	5
	PIPO	0	2	2,617	0	1	199	0	0	2,818
	PSME	0	0	463	0	2	27	0	0	492
Subtotal, R-4		0	2	3,080	0	3	289	0	0	3,373
5	CADE27	0	429	38	82	0	30	0	0	580
	PICO3	0	0	0	0	0	388	0	0	388
	PIJE	0	274	57	0	171	676	0	0	1,178
	PILA	8	41	554	448	134	52	46	0	1,281
	PIPO	0	1,846	1,435	318	1,510	143	144	0	5,396

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	PISA2	0	0	0	0	0	17	0	0	17
	PIWA	0	0	0	0	15	0	0	0	15
	PSMA	0	0	0	0	0	59	0	0	59
	PSME	0	394	433	0	0	166	50	0	1,042
	SEGI2	0	0	15	0	0	47	0	0	62
	Subtotal, R-5	8	2,983	2,532	848	1,830	1,577	239	0	10,017
6	ABPR	0	18	0	0	0	243	0	0	261
	CADE27	0	0	142	0	0	0	5	0	147
	LAOC	0	4	0	0	0	75	0	0	79
	PIAL	0	0	0	0	11	0	0		11
	PILA	0	126	0	0	0	0	1,015	0	1,141
	PIMO	0	7	0	0	0	263	0	0	270
	PIMO3	0	436	0	0	0	1	273	0	710
	PIPO	0	33	431	0	0	3,760	209	0	4,432
	PISI	0	0	14	0	29	29	0	0	71
	PSME	0	46	10	6	0	483	910	0	1,456
	THPL	0	390	0	0	1	182	0	0	573
	TSHE	0	0	18	0	11	41	0	0	69
	Subtotal, R-6	0	1,060	614	6	52	5,077	2,411	0	9,220
8	PIEC2	0	1,713	0	110	0	0	24	0	1,847
	PINUS	0	469	0	0	0	0	0	0	469
	PIPA2	0	3,681	0	112	436	883	70	0	5,182
	PIRU	0	0	2	0	0	0	0		2
	PITA	0	0	0	0	0	0	134	0	134
	QURU	0	95	184	0	0	0	0	0	279
	Subtotal, R-8	0	5,958	186	222	436	883	228	0	7,913
9	ABBA	0	21	0	0	0	34	0	0	55
	ACRU	0	0	0	0	0	0	4	0	4
	ACSA2	0	0	0	0	0	1	0	0	1
	BEAL2	0	31	0	0	0	49	7	0	87
	BEPA	0	18	0	0	0	98	0	0	115
	CACA18	0	0	0	0	0	0	0	0	0.1
	JUCI	0	3	0	0	0	0	0	0	3
	JUNI	3	0	0	0	0	0	10	0	13
	LALA	0	11	0	0	0	39	0	0	50
	MAAC	0	0	0	0	0	0	0	0	0
	PIBA2	0	462	0	9	0	1,682	87	0	2,241
	PIEC2	0	1,252	0	0	0	0	8	0	1,260
	PIGL	0	328	0	0	0	285	8	0	621

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					Production Area	Seed Stand	Seed Zone			
	PIMA	0	66	0	0	0	110	0	0	176
	PINUS	0	0	0	0	0	0	19	0	19
	PIRE	0	342	41	0	0	777	110	0	1,270
	PIRU	0	0	0	0	0	191	25	0	216
	PIST	0	3,292	0	28	0	705	59	0	4,084
	POTR5	0	0	0	0	0	0	2	0	2
	PRESE2	0	0	0	0	0	0	5	0	5
	QUAL	0	1	0	0	0	69	0	0	71
	QUERC	0	0	0	0	0	0	1	0	1
	QUMA2	0	5	0	0	0	48	0	0	53
	QURU	0	32	0	0	0	21	9	0	61
	THOC2	0	0	0	0	0	64	115	0	179
	TSCA	0	0	0	0	0	13	38	0	51
	TSUGA	0	0	100	0	0	0	0	0	100
	ULAM	0	0	0	0	0	3	0	0	3
	Subtotal, R-9	3	5,864	141	37	0	4,186	507	0	10,739
10		0	0	0	0	0	0	0	0	0
	Subtotal, R-10	0	0	0	0	0	0	0	0	0
	ALL	3,824	15,867	7,126	1,355	4,130	18,132	3,775	0	54,208
	Percent of Total	7.1	29.3	13.1	2.5	7.6	33.4	7.0	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	10,153	25,921	32,084
2	14,432	0	0
3	715	0	8,402
4	1,330	0	0
5	641	641	1,154
6	1,306	64	1,172
8	86,632	0	0
9	98	0	0
10	818	0	0
ALL	116,125	26,626	42,812

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TABLE 9

**PLANTING**

Activity Codes 4430-4449

ACRES

Region	NFVW	RTRT	CWKV	CWK2	BDBD	NFRR	Other	Total
1	128	3,367	2,479	1,551	0	153	1,515	9,193
2	0	2,339	0	0	0	0	308	2,647
3	0	1,213	0	0	0	0	187	1,400
4	0	3,279	30	0	0	0	64	3,373
5	0	4,297	355	0	0	0	6,322	10,974
6	19	8,626	1,350	3	0	0	241	10,239
8	745	1,866	3,758	0	0	0	1,970	8,339
9	758	1,820	5,768	0	0	0	2,531	10,877
10	0	0	0	0	0	0	0	0
ALL	1,650	26,807	13,740	1,554	0	153	13,138	57,042

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	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	2,805	0	0	0	0	2,805
9	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0
ALL	0	0	2,805	0	0	0	0	2,805

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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	165	0	0	0	118	283
2	0	0	130	0	0	0	0	130
3	0	9	0	0	0	0	3,628	3,637
4	0	0	60	0	0	0	0	60
5	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	91	91
8	124	2,775	3,046	0	0	0	312	6,257
9	1,313	1,156	11,226	305	0	0	4,971	18,971
10	10	0	0	44	0	0	0	54
ALL	1,447	3,940	14,627	349	0	0	9,120	29,483

TABLE 11A

**NATURAL REGENERATION WITHOUT SITE PREPARATION**

Activity Codes 4382

ACRES

Region	NFVW	RTRT	CWKV	CWK2	BDBD	NFRR	Other	Total
1	556	18,957	290	0	0	0	1,945	21,748
2	185	5,969	8,787	3	0	0	2,089	17,033
3	0	8,374	0	0	0	0	1,596	9,970
4	0	1,975	36	0	0	0	257	2,268
5	0	0	0	0	0	0	3,000	3,000
6	584	6,608	133	19	0	0	1,728	9,072
8	33	433	70	0	0	0	0	536
9	589	1,164	7,626	0	0	0	40	9,419
10	0	369	443	0	0	0	0	812
ALL	1,947	43,849	17,385	22	0	0	10,655	73,858

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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	0	35	1,230	0	0	0	803	2,068
2	0	1,317	246	0	1,198	0	0	2,761
3	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0
5	0	1,436	36	8	0	0	9,395	10,875
6	0	0	193	0	0	0	0	193
8	366	1,826	6,080	1,782	0	0	7,557	17,611
9	464	249	903	0	0	0	1,698	3,314
10	0	0	0	0	0	0	0	0
ALL	830	4,863	8,688	1,790	1,198	0	19,453	36,822

TABLE 13

**RELEASE AND WEEDING**

Activity Codes 4510-4519

ACRES

Region	NFVW	RTRT	CWKV	CWK2	BDBD	NFRR	Other	Total
1	0	0	0	0	0	0	1,014	1,014
2	0	84	35	0	0	0	931	1,050
3	0	24	0	0	0	0	8,364	8,388
4	0	1,017	794	0	0	466	8,699	10,976
5	0	2,820	89	0	0	0	6,065	8,974
6	102	372	2,346	3	0	0	1,026	3,849
8	1,369	7,990	4,826	524	0	0	3,610	18,319
9	842	1,359	3,039	110	0	0	8,211	13,561
10	0	0	0	0	0	0	0	0
ALL	2,313	13,666	11,129	637	0	466	37,920	66,131

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TABLE 14

**PRECOMMERCIAL THINNING**

Activity Codes 4520-4529

ACRES

Region	NFVW	RTRT	CWKV	CWK2	BDBD	NFRR	Other	Total
1	415	79	0	0	0	0	3,483	3,977
2	725	1,887	2,062	197	0	0	10,631	15,502
3	0	760	0	0	0	0	9,966	10,726
4	0	12	0	0	0	0	3,675	3,687
5	577	1,292	185	0	0	0	11,446	13,500
6	2,370	4,998	1,243	177	245	0	33,964	42,997
8	612	1,780	750	0	0	0	1,427	4,569
9	239	336	1,922	187	0	0	1,163	3,847
10	138	1,565	0	44	0	0	0	1,747
ALL	5,076	12,709	6,162	605	245	0	75,755	100,552

TABLE 15

**PRUNING**

Activity Codes 4530-4539

ACRES

Region	NFVW	RTRT	CWKV	CWK2	BDBD	NFRR	Other	Total
1	16	70	0	0	0	0	901	987
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	1,715	1,715
5	0	0	0	0	0	0	993	993
6	0	258	0	0	0	0	208	466
8	0	0	0	0	0	0	0	0
9	370	200	0	0	0	0	306	876
10	0	0	0	0	0	0	0	0
ALL	386	528	0	0	0	0	4,123	5,037



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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	0	0
8	0	0	0	0	0	0	0	0
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	0	75

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	252	252
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	263	161	0	0	0	103	527
9	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0
ALL	0	263	161	0	0	0	355	779

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TABLE 18

**ANIMAL CONTROL FOR REFORESTATION**

Activity Codes 4460-4469

ACRES

Region	NFWW	RTRT	CWKV	CWK2	BDBD	NFRR	Other	Total
1	0	1,258	245	160	0	0	492	2,155
2	0	0	0	0	0	0	0	0
3	0	9	0	0	0	0	0	9
4	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0
6	35	3,823	153	0	0	0	0	4,011
8	0	0	27	5	0	0	0	32
9	74	498	947	453	0	0	961	2,933
10	0	0	0	0	0	0	0	0
ALL	109	5,588	1,372	618	0	0	1,453	9,140

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	370	0	80	0	0	0	46	496
10	0	0	0	0	0	0	0	0
ALL	370	0	80	0	0	0	46	496

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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	Special cut	Total
FACTS Code	4110-4119 4162-4177	4120-4129, 4192	4130-4139 4183,4194	4140-4149 4160,4186 4195,4196	4150-4159	4210-4219	4200, 4220- 4229	4230-4239	4240-4249	4110-4249
Region										
1	3,806	25	3,932	1,420	314	2,048	2,916	1,780	183	16,424
2	4,496	25	673	6,415	5,973	8,782	3,776	1,070	274	31,484
3	0	0	123	0	9,430	703	12,952	148	0	23,356
4	183	514	0	347	1,310	297	863	1,839	0	5,353
5	10	0	0	0	174	27	6,647	3,469	32	10,359
6	181	33	268	354	663	796	21,189	633	0	24,117
8	2,471	334	2,895	281	252	9	21,395	813	25	28,475
9	10,628	461	4,608	2,153	6,309	798	14,663	5,715	271	45,606
10	418	0	0	0	1	0	0	0	0	419
ALL	22,193	1,392	12,499	10,970	24,426	13,460	84,401	15,467	785	185,593

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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	6,426	0	962	21,747	29,135	0	1,014	3,439	75	642	5,170
2	929	0	123	17,032	18,084	0	2,173	8,748	0	0	10,921
3	97	0	58	9,970	10,125	0	7,034	11,179	0	0	18,213
4	1,536	0	3,814	2,268	7,618	0	12,265	1,070	0	215	13,550
5	0	0	1	3,000	3,001	0	9,297	8,076	0	47	17,420
6	10,438	0	592	9,072	20,102	0	2,856	18,637	0	246	21,739
8	1,280	0	2,109	536	3,925	0	11,502	4,209	0	0	15,711
9	4,088	253	12,748	9,419	26,508	0	11,653	3,623	0	1,570	16,846
10	0	0	0	812	812	0	0	4,564	0	0	4,564
ALL	24,794	253	20,407	73,856	119,310	0	57,794	63,545	75	2,720	124,134

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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	bigleaf 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
0544	FRPE	green ash	0081	CADE27	incense cedar
0571	GYDI	Kentucky coffee tree	0090	PICEA	spruce spp.
0601	JUCI	butternut	0093	PIEN	Engelmann spruce
0602	JUNI	black walnut	0094	PIGL	white spruce
0621	LITU	tuliptree	0095	PIMA	black spruce
0651	MAAC	cucumber-tree	0096	PIPU	blue spruce
0731	PLOC	American sycamore	0097	PIRU	red spruce
0743	POGR4	bigtooth aspen	0098	PISI	Sitka spruce
0746	POTR5	quaking aspen	0100	PINUS	pine spp.
0747	POBAT	black cottonwood	0101	PIAL	whitebark pine
0749	POAN3	narrowleaf cottonwood	0103	PIAT	knobcone pine
0762	PRSE2	black cherry	0104	PIBA	foxtail pine
0768	PREM	bitter cherry	0105	PIBA2	jack 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
0935	SOAM3	American mountain ash	0137	PIWA	Washoe pine

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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
			0261	TSCA	eastern hemlock
			0263	TSHE	western hemlock