

Timber Resources and Factors Affecting Timber Availability and Sustainability for Kinross, Michigan: Appendix

Prepared for:

**Feedstock Supply Chain Center of Energy Excellence
Project 2: Increasing Sustainable Biomass Feedstock Availability
Michigan Economic Development Corporation (MEDC)
Frontier Renewable Resources, LLC
Michigan State University (MSU)
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Citation

Vasievich, J. M. and L. A. Leefers. 2010. Timber Resources and Factors Affecting Timber Availability and Sustainability for Kinross, Michigan: Appendix. Report prepared for the Feedstock Supply Chain Center of Energy Excellence. Kinross Project 2 Report Appendix, Version 1.0. East Lansing, MI: Michigan State University, Department of Forestry. 57 p.

Overview

This Appendix provides additional detailed tables that supplement a descriptive report:

Leefers, L. A. and J. M. Vasievich. 2010. Timber Resources and Factors Affecting Timber Availability and Sustainability for Kinross, Michigan. Report prepared for the Feedstock Supply Chain Center of Energy Excellence. Kinross Project 2 Report, Version 1.0. East Lansing, MI: Michigan State University, Department of Forestry. 54 p.

The parent report provides an analysis of the timber resource in the vicinity of Kinross, Michigan. It includes more detailed descriptions of species groups, supply zones and other categories presented in this Appendix. The purpose is to provide an overview of the timber resource on public and private lands, to present past timber market trends, and to identify and discuss factors affecting timber availability from public and private landowners in the region. Information was compiled and analyzed from existing data sources generally available in electronic form. Collection of new or original data was not undertaken.

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Conversion Factors

Conversion factors were determined by weighting species-specific parameters by the relative species abundance within each species group for each zone. For example, the Maple species group contains several species of maples. The relative abundance of sugar maple, red maple, and other maple species within each zone was used to determine a weighted average conversion factor for that zone.

Green weights were determined by applying typical measures of specific gravity, green moisture percent, and percent wood and bark for each species. Green weights are average measures which may vary by location, site conditions, season, and other factors.

Table A1. Biomass Conversion for Growing Stock on Timberland, by Zone and Species Group, Pounds Green Weight per Cubic Foot Volume.

Species Group	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	Average
	Pounds Green Weight per Cubic Foot									
Aspen	51.0	51.1	49.8	49.9	50.3	49.9	49.4	49.5	48.9	49.7
Maple	54.1	54.3	53.5	54.0	54.4	54.2	55.4	54.8	53.6	54.3
Oak	66.8	67.4	67.4	67.3	67.4	67.4	67.2	66.7	66.4	66.6
Upland HW	52.6	54.0	54.3	52.9	51.5	49.7	48.9	48.3	49.4	50.8
Lowland HW	46.4	46.5	46.6	48.5	48.5	46.8	49.4	49.6	50.2	48.6
Pine	40.9	41.6	41.0	40.0	41.0	38.3	40.5	41.1	41.3	41.0
Upland SW	41.8	45.6	46.6	47.2	44.9	42.6	44.5	43.2	44.1	44.9
Lowland SW	38.1	38.3	38.5	38.1	38.4	38.7	38.5	38.5	38.4	38.4
Average	45.7	46.5	46.7	47.7	47.3	47.0	49.0	49.7	49.8	48.3

Table A2. Biomass Conversion for Growing Stock on Timberland, by Zone and Species Group, Pounds Dry Weight per Cubic Foot Volume.

Species Group	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	Average
	Pounds Dry Weight per Cubic Foot									
Aspen	23.4	23.4	23.8	23.7	23.6	23.7	23.9	23.8	24.0	23.8
Maple	33.0	33.2	32.7	33.0	33.3	33.2	34.0	33.6	32.7	33.2
Oak	36.4	36.5	36.5	36.5	36.5	36.5	36.4	36.5	36.5	36.5
Upland HW	31.0	32.8	33.2	32.2	30.0	29.0	28.6	27.8	29.4	30.1
Lowland HW	24.2	24.1	24.6	25.7	25.8	24.2	26.5	26.8	27.6	26.1
Pine	23.9	23.7	23.7	23.6	23.6	23.0	23.8	23.9	24.1	23.9
Upland SW	22.2	23.3	23.4	23.5	22.8	22.0	22.4	22.5	22.7	22.9
Lowland SW	20.7	20.7	21.1	20.7	20.2	20.6	20.6	20.6	20.3	20.6
Average	25.4	26.2	26.8	27.6	26.7	25.5	27.9	28.1	28.1	27.3

Table A3. Biomass Conversion for Growing Stock on Timberland, by Zone and Species Group, Dry Tons of Wood, Excluding Bark per Green Ton of Growing Stock Roundwood Volume.

Species Group	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	Average
	Oven Dry Tons of Wood Only per Green Ton of Logs									
Aspen	0.37	0.37	0.38	0.38	0.38	0.38	0.38	0.38	0.39	0.38
Lowland HW	0.39	0.39	0.40	0.42	0.42	0.39	0.43	0.44	0.45	0.42
Maple	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53
Oak	0.42	0.41	0.41	0.42	0.42	0.42	0.42	0.43	0.43	0.43
Upland HW	0.51	0.54	0.55	0.54	0.51	0.50	0.51	0.50	0.52	0.52
Lowland SW	0.45	0.45	0.46	0.45	0.43	0.44	0.44	0.44	0.44	0.44
Pine	0.50	0.48	0.49	0.50	0.48	0.49	0.51	0.50	0.50	0.50
Upland SW	0.46	0.43	0.42	0.41	0.43	0.44	0.42	0.44	0.43	0.43
Average	0.47	0.48	0.49	0.49	0.48	0.45	0.48	0.47	0.47	0.48

Table A4. Cubic Feet per Thousand Board Feet (International ¼) of Sawtimber by Zone, Species Group, and Tree Grade.

Species Group	Tree Grade	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	Average
		Cubic Feet per Thousand Board Feet (International ¼)									
Aspen	Tgrade 1-2	160.8	158.9	159.1	162.1	160.1	162.1	161.4	160.9	161.4	160.7
Aspen	Tgrade 3+	160.6	160.3	161.1	159.9	161.1	160.6	160.4	160.3	160.6	160.5
Maple	Tgrade 1-2	158.5	159.0	159.6	158.5	158.3	158.7	159.7	159.3	157.6	158.6
Maple	Tgrade 3+	157.8	157.6	157.0	157.5	156.8	157.4	158.1	157.8	158.2	157.7
Oak	Tgrade 1-2	156.5	163.0			162.4	164.6	160.1	160.5	160.3	160.3
Oak	Tgrade 3+	159.8	162.3	164.6	158.6	160.5	157.6	161.3	160.4	159.8	160.1
Upland HW	Tgrade 1-2	160.8	159.0	159.7	159.1	158.0	161.0	161.4	162.8	161.1	160.7
Upland HW	Tgrade 3+	157.4	157.4	156.8	156.6	157.3	159.7	158.7	159.0	159.1	158.0
Lowland HW	Tgrade 1-2	161.8	162.8	163.1	161.0	163.1	160.4	160.7	161.2	162.8	162.0
Lowland HW	Tgrade 3+	160.6	161.5	160.1	160.0	159.4	161.5	159.7	158.8	158.6	159.7
Pine	Tgrade 1-2	160.8	163.9	164.1	159.5	165.3	175.4	161.8	163.6	164.9	163.1
Pine	Tgrade 3+	171.9	171.5	170.5	172.8	170.9	170.9	171.6	170.7	172.1	171.6
Upland SW	Tgrade 1-2	166.5	166.0	164.5	164.2	168.6	172.2	165.9	171.3	167.8	166.5
Upland SW	Tgrade 3+	169.9	167.8	168.2	168.7	168.6	171.1	171.2	169.6	169.7	169.0
Lowland SW	Tgrade 1-2	168.3	167.7	165.9	168.7	165.8	169.5	167.3	167.7	168.1	167.5
Lowland SW	Tgrade 3+	168.1	167.1	167.0	167.2	165.7	167.3	168.0	167.4	166.7	167.1
Average		164.9	164.1	164.2	163.5	162.9	164.0	162.9	163.4	164.1	163.7

Timberland Area

Table A5. Timberland Area by Zone, Owner, and Forest Type Group.

Forest Type	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	All zones	All zones	Species Group
Owner	Thousand Acres										Percent	
Aspen												
Federal	34		1	56	3				69	163	2.0%	12.8%
Private	63	31	28	11	75	18	105	143	161	636	7.7%	49.8%
State/Local	15	62	33	13	23	23	69	131	110	479	5.8%	37.5%
Total	112	93	62	80	102	41	175	275	340	1,278	15.5%	100.0%
Zone Percent	8.7%	7.3%	4.8%	6.3%	7.9%	3.2%	13.7%	21.5%	26.6%	100.0%		
Maple-Beech-Birch												
Federal	46	9		111	15			2	24	208	2.5%	10.3%
Private	57	128	143	97	182	26	192	264	250	1,339	16.2%	66.5%
State/Local	15	83	37	45	49	5	92	71	70	467	5.6%	23.2%
Total	118	221	180	254	245	30	284	338	344	2,014	24.4%	100.0%
Zone Percent	5.9%	11.0%	8.9%	12.6%	12.2%	1.5%	14.1%	16.8%	17.1%	100.0%		
Oak												
Federal	8		4	16	3			3	87	120	1.5%	14.0%
Private	3	8	3	6	10	3	29	128	189	379	4.6%	44.2%
State/Local		10	17	3	7		31	93	196	358	4.3%	41.7%
Total	11	19	24	25	20	3	60	224	472	858	10.4%	100.0%
Zone Percent	1.3%	2.2%	2.7%	2.9%	2.3%	0.4%	7.0%	26.2%	55.1%	100.0%		
Upland HW												
Federal	23	5	3	27	3				9	70	0.9%	12.4%
Private	40	21	53	31	43	12	30	28	64	320	3.9%	56.3%
State/Local	7	39	23	7	21	3	13	34	30	178	2.2%	31.4%
Total	70	64	79	65	67	15	43	62	104	569	6.9%	100.0%
Zone Percent	12.3%	11.2%	14.0%	11.5%	11.7%	2.6%	7.5%	10.9%	18.2%	100.0%		
Lowland HW												
Federal	13		2	14	5				12	45	0.5%	6.7%
Private	45	27	34	24	97	12	41	98	89	467	5.7%	69.0%
State/Local	14	11	17	9	28		18	17	51	164	2.0%	24.3%
Total	72	37	53	47	130	12	59	115	151	677	8.2%	100.0%
Zone Percent	10.7%	5.5%	7.8%	6.9%	19.2%	1.8%	8.7%	17.0%	22.3%	100.0%		
Pine												
Federal	72	9	14	101	5			4	126	330	4.0%	29.7%
Private	4	15	20	36	22	2	18	56	95	268	3.2%	24.1%
State/Local	4	84	82	3	26		59	117	138	513	6.2%	46.2%
Total	79	108	115	139	54	2	77	177	359	1,111	13.4%	100.0%
Zone Percent	7.1%	9.7%	10.4%	12.5%	4.8%	0.2%	6.9%	16.0%	32.3%	100.0%		
Upland SW												
Federal	11			19	3				12	44	0.5%	12.0%
Private	29	28	29	18	30	4	22	46	34	240	2.9%	65.2%
State/Local	6	18	9	7	7	3	5	13	17	84	1.0%	22.8%
Total	46	46	38	44	40	7	27	59	62	369	4.5%	100.0%
Zone Percent	12.4%	12.4%	10.2%	11.9%	10.8%	2.0%	7.4%	15.9%	16.9%	100.0%		
Lowland SW												
Federal	73	16	4	60	8				17	178	2.1%	13.5%
Private	65	87	92	34	149	11	61	71	59	628	7.6%	47.7%
State/Local	22	146	82	42	70	17	29	40	61	510	6.2%	38.8%
Total	159	249	178	136	227	27	90	112	137	1,316	15.9%	100.0%
Zone Percent	12.1%	18.9%	13.5%	10.3%	17.3%	2.1%	6.9%	8.5%	10.4%	100.0%		

Forest Type	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	All zones	All zones	Species Group
Owner	Thousand Acres										Percent	
Nonstocked												
Federal	11			3						14	0.2%	18.7%
Private	2	2		3	11	1	2	4	13	38	0.5%	49.7%
State/Local	1	8	4		0		1	3	6	24	0.3%	31.6%
Total	14	10	4	6	11	1	3	7	19	77	0.9%	100.0%
Zone Percent	18.2%	13.6%	5.4%	8.2%	14.9%	1.6%	3.4%	9.4%	25.2%	100.0%		
All Types												
Federal	290	39	27	408	44	0	0	9	356	1,173	14.2%	14.2%
Private	308	347	401	260	620	89	500	839	953	4,316	52.2%	52.2%
State/Local	84	462	304	129	232	50	317	521	680	2,779	33.6%	33.6%
Total	682	847	733	796	896	139	817	1,369	1,989	8,269	100.0%	100.0%
Zone Percent	8.3%	10.2%	8.9%	9.6%	10.8%	1.7%	9.9%	16.6%	24.1%	100.0%		

Table A6. Timberland Area by Zone, Owner Group, and Road Distance.

Road Distance	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	All zones	All zones	Owner Group
Federal	Thousand Acres										Percent	
0.25 mi	124	19	3	158	13	0	0	7	182	506	6.1%	43.1%
0.50 mi	92	11	2	117	10	0	0	2	123	359	4.3%	30.6%
1.0 mi	59	9	11	94	18	0	0	0	41	230	2.8%	19.6%
> 1.0 mi	16	0	12	38	3	0	0	0	10	79	1.0%	6.7%
Total	290	39	27	408	44	0	0	9	356	1,173	14.2%	100.0%
Percent	24.7%	3.3%	2.3%	34.8%	3.7%	0.0%	0.0%	0.8%	30.4%			
Private												
0.25 mi	176	110	153	97	283	64	299	537	596	2,313	28.0%	53.6%
0.50 mi	61	76	94	76	142	19	133	190	221	1,012	12.2%	23.5%
1.0 mi	61	79	87	57	145	6	57	81	87	661	8.0%	15.3%
> 1.0 mi	11	81	67	30	50	0	10	31	50	330	4.0%	7.6%
Total	308	347	401	260	620	89	500	839	953	4,316	52.2%	100.0%
Percent	7.1%	8.0%	9.3%	6.0%	14.4%	2.1%	11.6%	19.4%	22.1%			
State/Local												
0.25 mi	40	161	75	52	68	24	162	303	382	1,267	15.3%	45.6%
0.50 mi	11	98	58	25	59	21	109	106	194	679	8.2%	24.4%
1.0 mi	24	102	127	36	74	6	46	101	92	608	7.3%	21.9%
> 1.0 mi	9	101	44	17	32	0	1	10	11	225	2.7%	8.1%
Total	84	462	304	129	232	50	317	521	680	2,779	33.6%	100.0%
Percent	3.0%	16.6%	10.9%	4.6%	8.4%	1.8%	11.4%	18.7%	24.5%			
All Owners												
0.25 mi	339	291	231	307	363	88	461	847	1,160	4,086	49.4%	49.4%
0.50 mi	164	185	154	219	211	40	242	298	538	2,050	24.8%	24.8%
1.0 mi	144	189	225	187	237	12	103	183	219	1,498	18.1%	18.1%
> 1.0 mi	35	182	123	84	85	0	12	41	71	634	7.7%	7.7%
Total	682	847	733	796	896	139	817	1,369	1,989	8,269	100.0%	100.0%
Percent	8.3%	10.2%	8.9%	9.6%	10.8%	1.7%	9.9%	16.6%	24.1%			

Table A7. Timberland Area by Zone, Owner, and Physiographic Type.

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	All zones	All zones	Class Group
	Thousand Acres										Percent	
Hydric - Swamps/Bogs												
Federal	69	21	12	71	11	0	0	0	12	196	2.4%	13.8%
Private	87	76	119	42	166	14	51	65	55	675	8.2%	47.5%
State/Local	23	160	80	46	83	13	32	36	78	551	6.7%	38.8%
Total	180	257	211	159	259	27	83	101	145	1,421	17.2%	100.0%
Percent	12.7%	18.1%	14.8%	11.2%	18.2%	1.9%	5.8%	7.1%	10.2%	100.0%		
Hydric - Beaver Ponds												
Federal	0	0	0	0	0	0	0	0	0	0	0.0%	0.0%
Private	0	0	0	0	0	0	9	0	0	9	0.1%	68.6%
State/Local	0	0	0	0	3	0	0	1	0	4	0.1%	31.4%
Total	0	0	0	0	3	0	9	1	0	13	0.2%	100.0%
Percent	0.0%	0.0%	0.0%	0.0%	24.8%	0.0%	68.6%	6.6%	0.0%	100.0%		
Hydric - Other												
Federal	3	0	2	15	0	0	0	0	8	28	0.3%	9.5%
Private	18	7	21	14	29	6	15	44	34	189	2.3%	65.2%
State/Local	9	5	5	0		9	12	13	20	74	0.9%	25.3%
Total	30	12	28	29	29	15	28	57	62	291	3.5%	100.0%
Percent	10.3%	4.1%	9.7%	10.0%	10.0%	5.3%	9.5%	19.8%	21.2%	100.0%		
Mesic - Flatwoods												
Federal	105	11	5	171	24	0	0	2	80	399	4.8%	14.3%
Private	141	167	151	125	226	27	176	257	300	1,571	19.0%	56.4%
State/Local	38	146	106	41	76	17	86	130	174	815	9.9%	29.3%
Total	284	324	262	337	326	44	263	390	555	2,784	33.7%	100.0%
Percent	10.2%	11.6%	9.4%	12.1%	11.7%	1.6%	9.4%	14.0%	19.9%	100.0%		
Mesic - Rolling Uplands												
Federal	44	5	3	99	5	0	0	3	115	274	3.3%	12.6%
Private	43	67	91	56	152	23	170	302	377	1,279	15.5%	58.8%
State/Local	10	76	28	31	47	2	111	163	154	622	7.5%	28.6%
Total	97	147	122	185	203	24	281	468	646	2,175	26.3%	100.0%
Percent	4.5%	6.8%	5.6%	8.5%	9.3%	1.1%	12.9%	21.5%	29.7%	100.0%		
Mesic - Bottomlands												
Federal	9	0	0	0	0	0	0	0	11	20	0.2%	10.5%
Private	5	3		2	12	5	21	17	34	101	1.2%	52.9%
State/Local	0	9	10	6	1	0	3	13	27	70	0.8%	36.5%
Total	15	13	10	9	13	5	24	30	71	190	2.3%	100.0%
Percent	7.8%	6.7%	5.0%	4.6%	7.1%	2.8%	12.8%	15.9%	37.3%	100.0%		
Mesic - Other												
Federal	7	0	0	5	0	0	0	0	6	19	0.2%	11.5%
Private	11	5	4	5		4	12	29	27	98	1.2%	59.5%
State/Local		4	10	0	2	5	4	3	19	48	0.6%	29.0%
Total	19	10	14	10	2	9	17	33	52	166	2.0%	100.0%
Percent	11.2%	5.8%	8.7%	6.2%	1.1%	5.5%	10.2%	19.8%	31.5%	100.0%		

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	All zones	All zones	Class Group
	Thousand Acres										Percent	
Xeric - Deep Sands												
Federal	52	2	5	44	5	0	0	4	124	236	2.9%	19.6%
Private	3	18	14	16	28	10	43	122	123	376	4.5%	31.3%
State/Local	3	60	65	5	20	5	68	158	205	590	7.1%	49.1%
Total	58	80	83	65	53	15	111	284	453	1,202	14.5%	100.0%
Percent	4.8%	6.6%	6.9%	5.4%	4.4%	1.2%	9.3%	23.6%	37.7%	100.0%		
Xeric - Other												
Federal	0	0	0	2	0	0	0	0	0	2	0.0%	8.9%
Private	0	3	1	0	7		1	2	3	18	0.2%	68.2%
State/Local	0	2	0	0	0	0	0	2	1	6	0.1%	22.8%
Total	0	5	1	2	7	0	1	5	5	26	0.3%	2.2%
Percent	0.0%	20.2%	5.5%	8.9%	26.7%	0.0%	2.4%	18.0%	18.3%	100.0%		

Growing Stock Volume

Table A8. Growing Stock Volume on Timberland, by Zone, Species Group, and Species.

Common Name	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	All zones	All zones	Species Group
	Million Cubic Feet										Percent	
Aspen												
bigtooth aspen	18.1	14.6	14.7	21.7	22.2	22.6	86.0	131.6	216.6	548.0	4.8%	45.0%
quaking aspen	87.6	73.4	19.7	31.9	48.2	33.0	87.8	141.8	145.3	668.5	5.9%	55.0%
Total	105.7	88.0	34.4	53.5	70.4	55.5	173.8	273.4	361.9	1,216.5	10.7%	100.0%
Percent	8.7%	7.2%	2.8%	4.4%	5.8%	4.6%	14.3%	22.5%	29.7%	100.0%		
Maple												
boxelder	0.1						0.0			0.1	0.0%	0.0%
red maple	93.9	125.0	150.6	199.2	159.2	21.7	76.3	144.5	274.2	1,244.7	11.0%	40.8%
silver maple		0.0			1.9		2.9	12.8	24.3	41.9	0.4%	1.4%
sugar maple	101.6	159.0	105.1	213.8	236.6	26.7	303.8	365.0	253.5	1,765.0	15.5%	57.8%
Total	195.6	284.0	255.7	413.0	397.7	48.4	383.1	522.2	552.0	3,051.7	26.9%	100.0%
Percent	6.4%	9.3%	8.4%	13.5%	13.0%	1.6%	12.6%	17.1%	18.1%	100.0%		
Oak												
white oak							1.6	15.9	69.4	87.0	0.8%	12.0%
swamp white oak									0.4	0.4	0.0%	0.1%
northern pin oak				0.3	0.6		1.1	22.1	45.5	69.7	0.6%	9.6%
bur oak	1.7							0.3		2.1	0.0%	0.3%
pin oak						0.1				0.1	0.0%	0.0%
northern red oak	10.0	4.1	0.5	9.4	19.5	2.6	45.5	136.7	300.7	529.2	4.7%	72.9%
black oak							1.7	9.2	26.4	37.3	0.3%	5.1%
Total	11.8	4.1	0.5	9.7	20.1	2.7	49.9	184.4	442.4	725.7	6.4%	100.0%
Percent	1.6%	0.6%	0.1%	1.3%	2.8%	0.4%	6.9%	25.4%	61.0%	100.0%		
Upland HW												
yellow birch	9.1	20.4	14.0	27.3	28.5	0.4	7.5	4.0	5.8	117.0	1.0%	9.5%
paper birch	48.5	42.4	28.8	36.3	28.1	8.9	27.7	29.2	30.7	280.5	2.5%	22.7%
flowering dogwood										0.0	0.0%	0.0%
American beech	2.8	52.3	48.4	42.6	8.0	2.0	42.3	32.2	31.9	262.6	2.3%	21.3%
white ash	3.6	1.9	0.0	1.2	3.7	4.4	60.0	35.1	52.3	162.0	1.4%	13.1%
Kentucky coffeetree									0.1	0.1	0.0%	0.0%
black walnut									0.8	0.8	0.0%	0.1%
black cherry	2.6	8.2	4.9	39.1	14.6	0.3	6.3	10.5	24.2	110.8	1.0%	9.0%
black locust							1.5	0.7		2.2	0.0%	0.2%
sassafras							0.2			0.2	0.0%	0.0%
American basswood	3.4	5.0	3.4	6.2	24.3	6.3	97.4	89.3	61.9	297.3	2.6%	24.1%
Total	70.0	130.2	99.6	152.7	107.2	22.2	242.9	200.9	207.6	1,233.4	10.9%	100.0%
Percent	5.7%	10.6%	8.1%	12.4%	8.7%	1.8%	19.7%	16.3%	16.8%	100.0%		

Common Name	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	All zones	All zones	Species Group
	Million Cubic Feet										Percent	
Lowland HW												
black ash	6.3	3.6	2.2	7.3	21.9	3.2	11.0	15.2	30.1	100.9	0.9%	31.0%
green ash	4.4	0.7	2.9	1.6	5.3	0.4	4.3	9.8	20.4	49.8	0.4%	15.3%
balsam poplar	32.5	9.6	12.7	8.0	23.1	7.4	11.6	18.0	19.9	142.8	1.3%	43.9%
black willow									2.1	2.1	0.0%	0.6%
American elm	2.6	0.1	0.7	1.0	2.1	0.3	4.3	8.1	6.5	25.7	0.2%	7.9%
Siberian elm							0.1	0.0		0.1	0.0%	0.0%
slippery elm					0.1		0.9	0.8	1.7	3.5	0.0%	1.1%
rock elm									0.6	0.6	0.0%	0.2%
Total	45.9	14.0	18.5	17.9	52.5	11.3	32.2	52.0	81.3	325.6	2.9%	100.0%
Percent	14.1%	4.3%	5.7%	5.5%	16.1%	3.5%	9.9%	16.0%	25.0%	100.0%		
Pine												
jack pine	18.6	42.1	34.0	19.3	20.2		13.8	53.5	97.9	299.4	2.6%	14.2%
red pine	80.6	52.1	74.4	129.6	32.9	3.2	107.2	202.5	452.8	1,135.3	10.0%	54.0%
eastern white pine	36.4	70.5	71.2	98.3	44.5	9.6	54.5	103.2	136.5	624.6	5.5%	29.7%
Scotch pine	0.4	1.6			0.4	0.3	3.5	10.7	12.9	29.7	0.3%	1.4%
Austrian pine							3.0		10.9	14.0	0.1%	0.7%
Total	136.0	166.3	179.6	247.2	98.1	13.1	181.9	369.9	711.0	2,103.0	18.5%	100.0%
Percent	6.5%	7.9%	8.5%	11.8%	4.7%	0.6%	8.7%	17.6%	33.8%	100.0%		
Upland SW												
Balsam fir	54.7	31.8	29.2	34.9	50.4	14.2	32.2	31.2	38.0	316.8	2.8%	38.2%
Norway spruce							4.0	0.7	2.1	6.7	0.1%	0.8%
white spruce	44.7	31.1	21.6	25.9	32.0	8.0	10.4	21.1	24.5	219.2	1.9%	26.4%
blue spruce								2.7	0.6	3.3	0.0%	0.4%
Douglas-fir							0.3			0.3	0.0%	0.0%
eastern hemlock	5.2	52.0	55.0	85.3	38.3	1.2	12.3	11.9	21.7	282.9	2.5%	34.1%
Total	104.5	114.9	105.7	146.2	120.7	23.5	59.2	67.6	86.9	829.2	7.3%	100.0%
Percent	12.6%	13.9%	12.8%	17.6%	14.6%	2.8%	7.1%	8.1%	10.5%	100.0%		
Lowland SW												
larch spp.	0.1			0.0						0.1	0.0%	0.0%
tamarack (native)	12.4	21.1	19.2	8.8	21.3	5.0	12.8	12.8	15.6	128.9	1.1%	6.9%
black spruce	52.4	55.7	38.2	36.9	24.6	3.5	16.8	18.8	17.7	264.7	2.3%	14.1%
northern white-cedar	186.0	251.9	138.6	133.2	291.3	40.6	119.9	131.3	189.1	1,482.0	13.0%	79.0%
Total	250.9	328.7	196.0	179.0	337.3	49.0	149.5	162.9	222.5	1,875.7	16.5%	100.0%
Percent	13.4%	17.5%	10.4%	9.5%	18.0%	2.6%	8.0%	8.7%	11.9%	100.0%		

Table A9. Growing Stock Volume on Timberland, by Zone and Species Group.

Species Group	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	All zones	All zones	Species Group
	Million Cubic Feet										Percent	
Hardwoods												
Aspen	105.7	88.0	34.4	53.5	70.4	55.5	173.8	273.4	361.9	1,216.5	10.7%	18.6%
Maple	195.6	284.0	255.7	413.0	397.7	48.4	383.1	522.2	552.0	3,051.7	26.9%	46.6%
Oak	11.8	4.1	0.5	9.7	20.1	2.7	49.9	184.4	442.4	725.7	6.4%	11.1%
Upland HW	70.0	130.2	99.6	152.7	107.2	22.2	242.9	200.9	207.6	1,233.4	10.9%	18.8%
Lowland HW	45.9	14.0	18.5	17.9	52.5	11.3	32.2	52.0	81.3	325.6	2.9%	5.0%
All Hardwoods	428.9	520.3	408.7	646.9	648.0	140.1	881.8	1,232.9	1,645.2	6,552.8	57.7%	100.0%
Percent of Total GS	6.5%	7.9%	6.2%	9.9%	9.9%	2.1%	13.5%	18.8%	25.1%	100.0%		
HW Percent of zone	46.6%	46.0%	45.9%	53.1%	53.8%	62.1%	69.3%	67.3%	61.7%	57.7%		
Softwoods												
Pine	136.0	166.3	179.6	247.2	98.1	13.1	181.9	369.9	711.0	2,103.0	18.5%	43.7%
Upland SW	104.5	114.9	105.7	146.2	120.7	23.5	59.2	67.6	86.9	829.2	7.3%	17.2%
Lowland SW	250.9	328.7	196.0	179.0	337.3	49.0	149.5	162.9	222.5	1,875.7	16.5%	39.0%
All Softwoods	491.4	609.9	481.3	572.4	556.0	85.6	390.6	600.3	1,020.3	4,807.9	42.3%	100.0%
Percent of Total GS	10.2%	12.7%	10.0%	11.9%	11.6%	1.8%	8.1%	12.5%	21.2%	100.0%		
SW Percent of zone	53.4%	54.0%	54.1%	46.9%	46.2%	37.9%	30.7%	32.7%	38.3%	42.3%		
Total												
All Species	920.3	1,130.2	890.0	1,219.3	1,204.1	225.7	1,272.4	1,833.2	2,665.5	11,360.7	100.0%	
Percent	8.1%	9.9%	7.8%	10.7%	10.6%	2.0%	11.2%	16.1%	23.5%	100.0%		

Table A10. Growing Stock Volume, by Zone, Owner Group and Species Group.

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	All zones	All zones	Species Group
	Million Cubic Feet										Percent	
Aspen												
Federal	35.4	3.1	0.5	40.0	3.6	0.0	0.0	0.8	84.2	167.6	1.5%	13.8%
Private	56.8	27.2	17.2	9.8	52.1	39.6	117.3	161.9	189.4	671.4	5.9%	55.2%
State/Local	13.5	57.6	16.7	3.7	14.7	15.9	56.5	110.6	88.3	377.5	3.3%	31.0%
All Owners	105.7	88.0	34.4	53.5	70.4	55.5	173.8	273.4	361.9	1,216.5	10.7%	100.0%
Zone Percent	8.7%	7.2%	2.8%	4.4%	5.8%	4.6%	14.3%	22.5%	29.7%	100.0%		
Maple												
Federal	93.2	11.6	1.1	190.6	35.9	0.0	0.0	0.5	43.0	375.9	3.3%	12.3%
Private	85.5	142.2	194.2	143.5	273.3	40.9	261.2	410.2	377.8	1,928.9	17.0%	63.2%
State/Local	16.9	130.2	60.5	78.8	88.6	7.5	121.8	111.4	131.2	746.9	6.6%	24.5%
All Owners	195.6	284.0	255.7	413.0	397.7	48.4	383.1	522.2	552.0	3,051.7	26.9%	100.0%
Zone Percent	6.4%	9.3%	8.4%	13.5%	13.0%	1.6%	12.6%	17.1%	18.1%	100.0%		
Oak												
Federal	6.1	0.0	0.0	2.5	0.0	0.0	0.0	2.5	80.0	91.0	0.8%	12.5%
Private	4.9	2.8	0.2	2.2	9.3	2.3	24.5	115.8	224.2	386.1	3.4%	53.2%
State/Local	0.8	1.3	0.3	5.0	10.8	0.4	25.4	66.1	138.2	248.5	2.2%	34.2%
All Owners	11.8	4.1	0.5	9.7	20.1	2.7	49.9	184.4	442.4	725.7	6.4%	100.0%
Zone Percent	1.6%	0.6%	0.1%	1.3%	2.8%	0.4%	6.9%	25.4%	61.0%	100.0%		
Upland HW												
Federal	26.7	7.6	0.5	88.8	12.2	0.0	0.0	0.0	19.4	155.2	1.4%	12.6%
Private	35.2	68.4	64.9	40.1	73.7	12.8	138.8	149.7	139.9	723.5	6.4%	58.7%
State/Local	8.1	54.2	34.2	23.9	21.4	9.4	104.2	51.2	48.3	354.8	3.1%	28.8%
All Owners	70.0	130.2	99.6	152.7	107.2	22.2	242.9	200.9	207.6	1,233.4	10.9%	100.0%
Zone Percent	5.7%	10.6%	8.1%	12.4%	8.7%	1.8%	19.7%	16.3%	16.8%	100.0%		
Lowland HW												
Federal	9.6	0.3	0.0	6.6	4.0	0.0	0.0	0.0	11.1	31.6	0.3%	9.7%
Private	27.9	5.5	17.1	9.3	39.0	9.2	19.9	42.1	56.5	226.5	2.0%	69.6%
State/Local	8.4	8.2	1.4	2.1	9.5	2.1	12.2	10.0	13.7	67.5	0.6%	20.7%
All Owners	45.9	14.0	18.5	17.9	52.5	11.3	32.2	52.0	81.3	325.6	2.9%	100.0%
Zone Percent	14.1%	4.3%	5.7%	5.5%	16.1%	3.5%	9.9%	16.0%	25.0%	100.0%		
Pine												
Federal	118.3	18.7	14.3	201.5	7.3	0.0	0.0	1.1	205.9	567.1	5.0%	27.0%
Private	9.0	28.5	33.5	41.2	51.8	7.5	60.4	173.3	237.6	642.8	5.7%	30.6%
State/Local	8.7	119.1	131.8	4.5	39.0	5.6	121.5	195.5	267.4	893.1	7.9%	42.5%
All Owners	136.0	166.3	179.6	247.2	98.1	13.1	181.9	369.9	711.0	2,103.0	18.5%	100.0%
Zone Percent	6.5%	7.9%	8.5%	11.8%	4.7%	0.6%	8.7%	17.6%	33.8%	100.0%		
Upland SW												
Federal	32.5	5.6	1.0	92.4	4.1	0.0	0.0	0.0	13.3	148.8	1.3%	17.9%
Private	55.7	52.5	64.4	39.2	91.0	10.7	42.5	47.5	47.2	450.6	4.0%	54.3%
State/Local	16.3	56.9	40.3	14.7	25.6	12.8	16.7	20.1	26.4	229.8	2.0%	27.7%
All Owners	104.5	114.9	105.7	146.2	120.7	23.5	59.2	67.6	86.9	829.2	7.3%	100.0%
Zone Percent	12.6%	13.9%	12.8%	17.6%	14.6%	2.8%	7.1%	8.1%	10.5%	100.0%		
Lowland SW												
Federal	129.0	22.2	6.1	84.0	21.1	0.0	0.0	0.0	34.9	297.3	2.6%	15.9%
Private	91.5	137.1	106.3	50.3	223.2	23.1	106.6	101.6	89.0	928.6	8.2%	49.5%
State/Local	30.3	169.5	83.5	44.7	93.0	25.9	42.9	61.3	98.6	649.8	5.7%	34.6%
All Owners	250.9	328.7	196.0	179.0	337.3	49.0	149.5	162.9	222.5	1,875.7	16.5%	100.0%
Zone Percent	13.4%	17.5%	10.4%	9.5%	18.0%	2.6%	8.0%	8.7%	11.9%	100.0%		

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	All zones	All zones	Species Group
	Million Cubic Feet										Percent	
Hardwoods												
Federal	170.9	22.6	2.0	328.6	55.6	0.0	0.0	3.8	237.7	821.3	7.2%	12.5%
Private	210.4	246.2	293.6	204.9	447.4	104.8	561.7	879.7	987.7	3,936.4	34.6%	60.1%
State/Local	47.7	251.4	113.1	113.5	145.0	35.3	320.1	349.3	419.8	1,795.2	15.8%	27.4%
All Owners	428.9	520.3	408.7	646.9	648.0	140.1	881.8	1,232.9	1,645.2	6,552.8	57.7%	100.0%
Zone Percent	6.5%	7.9%	6.2%	9.9%	9.9%	2.1%	13.5%	18.8%	25.1%	100.0%		
Softwoods												
Federal	279.8	46.4	21.4	377.9	32.5	0.0	0.0	1.1	254.1	1,013.2	8.9%	21.1%
Private	156.2	218.1	204.3	130.6	366.0	41.3	209.4	322.4	373.9	2,022.0	17.8%	42.1%
State/Local	55.4	345.5	255.7	63.9	157.6	44.3	181.2	276.8	392.4	1,772.7	15.6%	36.9%
All Owners	491.4	609.9	481.3	572.4	556.0	85.6	390.6	600.3	1,020.3	4,807.9	42.3%	100.0%
Zone Percent	10.2%	12.7%	10.0%	11.9%	11.6%	1.8%	8.1%	12.5%	21.2%	100.0%		
All Species												
Federal	450.7	69.0	23.5	706.4	88.1	0.0	0.0	4.9	491.8	1,834.5	16.1%	16.1%
Private	366.6	464.3	497.8	335.5	813.3	146.1	771.1	1,202.1	1,361.5	5,958.4	52.4%	52.4%
State/Local	103.0	596.9	368.7	177.4	302.6	79.5	501.3	626.2	812.2	3,567.8	31.4%	31.4%
All Owners	920.3	1,130.2	890.0	1,219.3	1,204.1	225.7	1,272.4	1,833.2	2,665.5	11,360.7	100.0%	100.0%
Zone Percent	8.1%	9.9%	7.8%	10.7%	10.6%	2.0%	11.2%	16.1%	23.5%	100.0%		

Table A11. Growing Stock Volume, by Zone, Owner Group and Species Group.

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	All zones	All zones	Species Group
	Million Green Tons										Percent	
Aspen												
Federal	1.0	0.1	0.0	1.2	0.1			0.0	2.5	4.9	1.5%	13.8%
Private	1.7	0.8	0.5	0.3	1.5	1.2	3.5	4.8	5.6	19.8	6.0%	55.2%
State/Local	0.4	1.7	0.5	0.1	0.4	0.5	1.7	3.3	2.6	11.1	3.4%	31.0%
All Owners	3.1	2.6	1.0	1.6	2.1	1.6	5.1	8.1	10.7	35.9	10.9%	100.0%
Zone Percent	8.7%	7.2%	2.8%	4.4%	5.8%	4.6%	14.3%	22.5%	29.7%	100.0%		
Maple												
Federal	3.1	0.4	0.0	6.2	1.2			0.0	1.4	12.3	3.7%	12.1%
Private	2.8	4.8	6.4	4.8	9.1	1.4	8.9	13.9	12.5	64.6	19.6%	63.6%
State/Local	0.5	4.3	1.9	2.6	2.9	0.2	4.2	3.7	4.2	24.7	7.5%	24.3%
All Owners	6.5	9.4	8.3	13.7	13.3	1.6	13.1	17.6	18.1	101.7	30.9%	100.0%
Zone Percent	6.4%	9.3%	8.2%	13.4%	13.1%	1.6%	12.9%	17.4%	17.8%	100.0%		
Oak												
Federal	0.2			0.1				0.1	2.9	3.3	1.0%	12.5%
Private	0.2	0.1	0.0	0.1	0.3	0.1	0.9	4.2	8.2	14.1	4.3%	53.4%
State/Local	0.0	0.0	0.0	0.2	0.4	0.0	0.9	2.4	5.0	9.0	2.7%	34.1%
All Owners	0.4	0.2	0.0	0.4	0.7	0.1	1.8	6.7	16.1	26.4	8.0%	100.0%
Zone Percent	1.6%	0.6%	0.1%	1.4%	2.8%	0.4%	6.9%	25.5%	60.8%	100.0%		
Upland HW												
Federal	0.8	0.2	0.0	2.7	0.4				0.6	4.8	1.4%	13.1%
Private	1.1	2.2	2.0	1.2	2.2	0.4	4.0	4.2	4.0	21.3	6.5%	58.5%
State/Local	0.3	1.7	1.1	0.7	0.7	0.3	2.8	1.4	1.4	10.3	3.1%	28.3%
All Owners	2.2	4.1	3.1	4.7	3.2	0.6	6.8	5.6	5.9	36.3	11.0%	100.0%
Zone Percent	6.0%	11.3%	8.7%	12.9%	8.8%	1.8%	18.8%	15.4%	16.3%	100.0%		
Lowland HW												
Federal	0.3	0.0		0.2	0.1				0.3	1.0	0.3%	9.7%
Private	0.9	0.2	0.5	0.3	1.2	0.3	0.6	1.3	1.7	6.9	2.1%	69.7%
State/Local	0.3	0.2	0.0	0.1	0.3	0.1	0.4	0.3	0.4	2.0	0.6%	20.6%
All Owners	1.4	0.4	0.6	0.5	1.6	0.3	1.0	1.6	2.4	9.8	3.0%	100.0%
Zone Percent	14.3%	4.3%	5.7%	5.5%	16.1%	3.5%	9.9%	16.0%	24.7%	100.0%		
Pine												
Federal	3.2	0.5	0.4	5.4	0.2			0.0	5.5	15.2	4.6%	27.0%
Private	0.2	0.8	0.9	1.1	1.4	0.2	1.6	4.6	6.4	17.2	5.2%	30.5%
State/Local	0.2	3.2	3.5	0.1	1.0	0.1	3.3	5.3	7.2	24.0	7.3%	42.5%
All Owners	3.7	4.5	4.8	6.6	2.6	0.3	4.9	9.9	19.1	56.5	17.1%	100.0%
Zone Percent	6.5%	7.9%	8.5%	11.7%	4.7%	0.6%	8.7%	17.6%	33.9%	100.0%		
Upland SW												
Federal	0.9	0.2	0.0	2.6	0.1				0.3	4.2	1.3%	18.1%
Private	1.5	1.5	1.8	1.1	2.5	0.3	1.2	1.3	1.3	12.5	3.8%	54.3%
State/Local	0.4	1.6	1.2	0.4	0.7	0.3	0.5	0.5	0.7	6.4	1.9%	27.7%
All Owners	2.8	3.2	3.0	4.2	3.3	0.6	1.6	1.8	2.4	23.0	7.0%	100.0%
Zone Percent	12.0%	14.1%	13.1%	18.3%	14.5%	2.7%	7.0%	7.9%	10.3%	100.0%		
Lowland SW												
Federal	2.8	0.5	0.1	1.8	0.4				0.7	6.3	1.9%	15.9%
Private	2.0	2.9	2.3	1.1	4.6	0.5	2.3	2.2	1.9	19.6	5.9%	49.1%
State/Local	0.7	3.7	1.9	1.0	2.0	0.5	0.9	1.3	2.0	13.9	4.2%	35.0%
All Owners	5.4	7.0	4.3	3.8	7.0	1.0	3.2	3.4	4.7	39.8	12.1%	100.0%
Zone Percent	13.5%	17.6%	10.7%	9.6%	17.6%	2.6%	8.0%	8.7%	11.7%	100.0%		

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	All zones	All zones	Species Group
	Million Green Tons										Percent	
Hardwoods												
Federal	5.5	0.7	0.1	10.4	1.8	0.0	0.0	0.1	7.6	26.3	8.0%	12.5%
Private	6.6	8.0	9.5	6.7	14.4	3.3	17.9	28.3	32.0	126.6	38.4%	60.3%
State/Local	1.5	8.0	3.6	3.7	4.7	1.1	9.9	11.2	13.6	57.2	17.4%	27.2%
All Owners	13.6	16.7	13.1	20.8	20.9	4.3	27.9	39.6	53.2	210.1	63.8%	100.0%
Zone Percent	6.5%	8.0%	6.2%	9.9%	9.9%	2.1%	13.3%	18.9%	25.3%	100.0%		
Softwoods												
Federal	6.8	1.1	0.5	9.9	0.7	0.0	0.0	0.0	6.6	25.7	7.8%	21.6%
Private	3.7	5.1	5.0	3.3	8.5	1.0	5.0	8.1	9.6	49.3	15.0%	41.3%
State/Local	1.3	8.4	6.6	1.5	3.7	1.0	4.6	7.1	10.0	44.3	13.4%	37.1%
All Owners	11.8	14.7	12.1	14.7	13.0	2.0	9.7	15.2	26.2	119.3	36.2%	100.0%
Zone Percent	9.9%	12.3%	10.1%	12.3%	10.9%	1.7%	8.1%	12.7%	21.9%	100.0%		
All Species												
Federal	12.3	1.9	0.6	20.3	2.5	0.0	0.0	0.2	14.3	52.0	15.8%	15.8%
Private	10.3	13.1	14.5	10.0	22.9	4.2	23.0	36.4	41.5	175.9	53.4%	53.4%
State/Local	2.8	16.4	10.1	5.2	8.4	2.1	14.6	18.2	23.6	101.4	30.8%	30.8%
All Owners	25.4	31.4	25.2	35.5	33.9	6.3	37.5	54.8	79.4	329.4	100.0%	100.0%
Zone Percent	7.7%	9.5%	7.6%	10.8%	10.3%	1.9%	11.4%	16.6%	24.1%	100.0%		

Table A12. Growing Stock Volume in Dry Tons by Species Group.

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	All zones	All zones	Species Group
	Million Dry Tons										Percent	
Aspen												
Federal	0.4	0.0	0.0	0.5	0.0	0.0	0.0	0.0	1.0	2.0	1.3%	13.8%
Private	0.7	0.3	0.2	0.1	0.6	0.5	1.4	1.9	2.3	8.0	5.2%	55.2%
State/Local	0.2	0.7	0.2	0.0	0.2	0.2	0.7	1.3	1.1	4.5	2.9%	31.0%
All Owners	1.2	1.0	0.4	0.6	0.8	0.7	2.1	3.3	4.3	14.5	9.3%	100.0%
Zone Percent	8.5%	7.1%	2.8%	4.4%	5.7%	4.6%	14.3%	22.5%	30.0%	100.0%		
Maple												
Federal	1.6	0.2	0.0	3.1	0.6	0.0	0.0	0.0	0.7	6.2	4.0%	12.2%
Private	1.4	2.4	3.2	2.4	4.6	0.7	4.4	6.9	6.3	32.2	20.8%	63.5%
State/Local	0.3	2.2	1.0	1.3	1.5	0.1	2.1	1.9	2.1	12.3	7.9%	24.3%
All Owners	3.2	4.7	4.2	6.8	6.6	0.8	6.5	8.8	9.0	50.7	32.7%	100.0%
Zone Percent	6.4%	9.3%	8.2%	13.5%	13.1%	1.6%	12.9%	17.3%	17.8%	100.0%		
Oak												
Federal	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.7	1.1%	12.5%
Private	0.1	0.1	0.0	0.0	0.2	0.0	0.4	2.1	4.1	7.0	4.5%	53.2%
State/Local	0.0	0.0	0.0	0.1	0.2	0.0	0.5	1.2	2.5	4.5	2.9%	34.3%
All Owners	0.2	0.1	0.0	0.2	0.4	0.0	0.9	3.4	8.1	13.2	8.5%	100.0%
Zone Percent	1.6%	0.6%	0.1%	1.3%	2.8%	0.4%	6.9%	25.4%	61.0%	100.0%		
Upland HW												
Federal	0.4	0.1	0.0	1.4	0.2	0.0	0.0	0.0	0.3	2.5	1.6%	13.3%
Private	0.6	1.1	1.1	0.6	1.1	0.2	2.1	2.1	2.1	10.9	7.0%	58.8%
State/Local	0.1	0.9	0.6	0.4	0.3	0.1	1.4	0.7	0.7	5.2	3.3%	27.9%
All Owners	1.1	2.1	1.7	2.5	1.6	0.3	3.5	2.8	3.0	18.6	12.0%	100.0%
Zone Percent	5.8%	11.5%	8.9%	13.3%	8.6%	1.7%	18.7%	15.0%	16.4%	100.0%		
Lowland HW												
Federal	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.4	0.3%	9.5%
Private	0.3	0.1	0.2	0.1	0.5	0.1	0.3	0.6	0.8	2.9	1.9%	69.4%
State/Local	0.1	0.1	0.0	0.0	0.1	0.0	0.2	0.1	0.2	0.9	0.6%	21.1%
All Owners	0.6	0.2	0.2	0.2	0.7	0.1	0.4	0.7	1.1	4.2	2.7%	100.0%
Zone Percent	13.1%	4.0%	5.4%	5.4%	16.0%	3.2%	10.0%	16.5%	26.5%	100.0%		
Pine												
Federal	1.4	0.2	0.2	2.4	0.1	0.0	0.0	0.0	2.5	6.8	4.4%	27.0%
Private	0.1	0.3	0.4	0.5	0.6	0.1	0.7	2.1	2.9	7.7	4.9%	30.5%
State/Local	0.1	1.4	1.6	0.1	0.5	0.1	1.5	2.3	3.2	10.7	6.9%	42.4%
All Owners	1.6	2.0	2.1	2.9	1.2	0.2	2.2	4.4	8.6	25.1	16.2%	100.0%
Zone Percent	6.5%	7.9%	8.5%	11.6%	4.6%	0.6%	8.6%	17.6%	34.1%	100.0%		
Upland SW												
Federal	0.4	0.1	0.0	1.1	0.0	0.0	0.0	0.0	0.1	1.7	1.1%	18.2%
Private	0.6	0.6	0.8	0.5	1.0	0.1	0.5	0.5	0.5	5.1	3.3%	54.2%
State/Local	0.2	0.7	0.5	0.2	0.3	0.1	0.2	0.2	0.3	2.6	1.7%	27.6%
All Owners	1.2	1.3	1.2	1.7	1.4	0.3	0.7	0.8	1.0	9.5	6.1%	100.0%
Zone Percent	12.2%	14.1%	13.0%	18.1%	14.5%	2.7%	7.0%	8.0%	10.4%	100.0%		
Lowland SW												
Federal	1.3	0.2	0.1	0.9	0.2	0.0	0.0	0.0	0.4	3.1	2.0%	15.8%
Private	1.0	1.4	1.1	0.5	2.2	0.2	1.1	1.0	0.9	9.5	6.1%	49.1%
State/Local	0.3	1.8	0.9	0.5	1.0	0.3	0.4	0.6	1.0	6.8	4.4%	35.0%
All Owners	2.6	3.4	2.1	1.9	3.4	0.5	1.5	1.7	2.3	19.3	12.4%	100.0%
Zone Percent	13.5%	17.6%	10.7%	9.6%	17.6%	2.6%	8.0%	8.7%	11.7%	100.0%		

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	All zones	All zones	Species Group
	Million Dry Tons										Percent	
Hardwoods												
Federal	2.6	0.4	0.0	5.2	0.9	0.0	0.0	0.1	3.6	12.7	8.2%	12.5%
Private	3.0	3.9	4.7	3.3	6.9	1.5	8.7	13.6	15.4	61.1	39.4%	60.4%
State/Local	0.7	3.8	1.7	1.9	2.3	0.5	4.7	5.2	6.6	27.4	17.7%	27.1%
All Owners	6.3	8.1	6.5	10.3	10.1	2.0	13.4	18.9	25.6	101.2	65.3%	100.0%
Zone Percent	6.2%	8.0%	6.4%	10.2%	10.0%	1.9%	13.2%	18.7%	25.3%	100.0%		
Softwoods												
Federal	3.1	0.5	0.2	4.3	0.3	0.0	0.0	0.0	3.0	11.6	7.5%	21.4%
Private	1.7	2.3	2.2	1.5	3.9	0.4	2.3	3.7	4.3	22.3	14.4%	41.4%
State/Local	0.6	3.9	2.9	0.7	1.7	0.5	2.1	3.2	4.5	20.0	12.9%	37.2%
All Owners	5.4	6.7	5.4	6.5	5.9	0.9	4.4	6.9	11.8	53.9	34.7%	100.0%
Zone Percent	10.0%	12.4%	10.1%	12.0%	11.0%	1.7%	8.1%	12.7%	21.9%	100.0%		
All Species												
Federal	5.7	0.9	0.3	9.5	1.2	0.0	0.0	0.1	6.6	24.3	15.6%	15.6%
Private	4.7	6.3	6.9	4.8	10.8	1.9	11.0	17.2	19.8	83.4	53.8%	53.8%
State/Local	1.3	7.7	4.7	2.5	4.0	0.9	6.8	8.4	11.1	47.4	30.6%	30.6%
All Owners	11.7	14.8	11.9	16.8	16.0	2.9	17.8	25.7	37.4	155.1	100.0%	100.0%
Zone Percent	7.5%	9.6%	7.7%	10.8%	10.3%	1.9%	11.5%	16.6%	24.1%	100.0%		

Sawtimber

Table A13. Volume of Growing Stock Sawtimber Trees on Timberland, by Zone, Owner, Species Group and Tree Grade, Million Board Feet (International ¼).

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	All zones	All zones	Species Group
	Million Board Feet (International ¼)										Percent	
Aspen	Tree Grades 1-2											
Federal	16.2	2.8		21.0	8.7				45.3	94.0	0.3%	3.3%
Private	35.3	34.9	5.1	7.1	32.3	10.6	49.3	46.6	51.8	272.9	0.8%	9.6%
State/Local	1.2	35.5	8.0	1.0	10.5		9.3	11.3	16.6	93.4	0.3%	3.3%
All Owners	52.6	73.2	13.0	29.1	51.6	10.6	58.6	57.9	113.7	460.3	1.4%	16.2%
Percent	11.4%	15.9%	2.8%	6.3%	11.2%	2.3%	12.7%	12.6%	24.7%	100.0%		
Aspen	Tree Grades 3+											
Federal	87.5	9.7		88.8	0.9				123.5	310.4	1.0%	10.9%
Private	133.1	45.3	37.9	25.3	74.3	115.3	296.3	378.4	335.1	1,440.9	4.5%	50.7%
State/Local	29.9	129.7	41.4	2.9	15.0	59.3	106.0	132.4	112.0	628.6	2.0%	22.1%
All Owners	250.6	184.6	79.3	117.0	90.2	174.5	402.3	510.8	570.6	2,380.0	7.4%	83.8%
Percent	10.5%	7.8%	3.3%	4.9%	3.8%	7.3%	16.9%	21.5%	24.0%	100.0%		
Aspen	All Grades											
Federal	103.7	12.4	0.0	109.8	9.6	0.0	0.0	0.0	168.8	404.4	1.3%	14.2%
Private	168.4	80.2	43.0	32.4	106.6	125.8	345.6	424.9	387.0	1,713.8	5.3%	60.3%
State/Local	31.1	165.2	49.4	3.9	25.6	59.3	115.3	143.8	128.6	722.0	2.2%	25.4%
All Owners	303.2	257.8	92.3	146.1	141.8	185.1	460.9	568.7	684.3	2,840.3	8.8%	100.0%
Percent	10.7%	9.1%	3.3%	5.1%	5.0%	6.5%	16.2%	20.0%	24.1%	100.0%		
Maple	Tree Grades 1-2											
Federal	54.3	8.1		169.3	74.9				4.8	311.4	1.0%	4.3%
Private	51.4	108.0	135.6	106.3	180.1	18.6	103.3	211.8	257.7	1,172.8	3.6%	16.4%
State/Local	6.1	74.9	35.8	63.2	82.8	5.6	42.4	20.6	94.5	426.0	1.3%	5.9%
All Owners	111.8	191.0	171.4	338.8	337.8	24.2	145.7	232.4	357.0	1,910.2	5.9%	26.6%
Percent	5.9%	10.0%	9.0%	17.7%	17.7%	1.3%	7.6%	12.2%	18.7%	100.0%		
Maple	Tree Grades 3+											
Federal	170.7	15.6		333.8	38.3				49.3	607.9	1.9%	8.5%
Private	114.3	211.6	328.6	267.9	394.6	47.3	526.2	725.3	780.5	3,396.3	10.6%	47.4%
State/Local	36.5	257.8	114.2	144.6	113.2	6.1	198.8	189.6	194.4	1,255.2	3.9%	17.5%
All Owners	321.6	485.0	442.8	746.3	546.2	53.3	725.0	914.9	1,024.3	5,259.4	16.4%	73.4%
Percent	6.1%	9.2%	8.4%	14.2%	10.4%	1.0%	13.8%	17.4%	19.5%	100.0%		
Maple	All Grades											
Federal	225.0	23.8	0.0	503.1	113.3	0.0	0.0	0.0	54.2	919.3	2.9%	12.8%
Private	165.7	319.7	464.2	374.2	574.7	65.9	629.5	937.1	1,038.2	4,569.1	14.2%	63.7%
State/Local	42.6	332.6	150.0	207.8	196.0	11.7	241.2	210.3	288.9	1,681.2	5.2%	23.4%
All Owners	433.3	676.0	614.2	1,085.1	884.0	77.6	870.7	1,147.3	1,381.3	7,169.6	22.3%	100.0%
Percent	6.0%	9.4%	8.6%	15.1%	12.3%	1.1%	12.1%	16.0%	19.3%	100.0%		

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	All zones	All zones	Species Group
	Million Board Feet (International ¼)										Percent	
Oak	Tree Grades 1-2											
Federal	14.6							2.6	60.0	77.3	0.2%	3.2%
Private		2.1			12.1	2.6	34.7	81.4	281.7	414.7	1.3%	17.1%
State/Local	1.1				23.6		15.8	46.6	107.8	194.9	0.6%	8.0%
All Owners	15.7	2.1	0.0	0.0	35.7	2.6	50.5	130.6	449.6	686.8	2.1%	28.4%
Percent	2.3%	0.3%	0.0%	0.0%	5.2%	0.4%	7.3%	19.0%	65.5%	100.0%		
Oak	Tree Grades 3+											
Federal	9.4			3.2				4.7	202.3	219.6	0.7%	9.1%
Private	10.0	6.8		4.2	16.9	5.2	48.8	340.1	481.7	913.8	2.8%	37.7%
State/Local	1.8	2.6	1.3	18.5	11.4	1.2	68.6	157.5	338.8	601.6	1.9%	24.8%
All Owners	21.3	9.4	1.3	26.0	28.3	6.4	117.4	502.2	1,022.8	1,735.0	5.4%	71.6%
Percent	1.2%	0.5%	0.1%	1.5%	1.6%	0.4%	6.8%	28.9%	59.0%	100.0%		
Oak	All Grades											
Federal	24.1	0.0	0.0	3.2	0.0	0.0	0.0	7.3	262.3	296.9	0.9%	12.3%
Private	10.0	9.0	0.0	4.2	29.0	7.9	83.5	421.4	763.4	1,328.4	4.1%	54.9%
State/Local	2.9	2.6	1.3	18.5	35.0	1.2	84.3	204.0	446.6	796.4	2.5%	32.9%
All Owners	37.0	11.5	1.3	26.0	64.0	9.0	167.9	632.8	1,472.3	2,421.8	7.5%	100.0%
Percent	1.5%	0.5%	0.1%	1.1%	2.6%	0.4%	6.9%	26.1%	60.8%	100.0%		
Upland HW	Tree Grades 1-2											
Federal	7.7	11.8	1.4	89.2	31.1				16.9	158.0	0.5%	4.7%
Private	25.0	37.3	25.7	28.7	57.0	15.5	128.7	145.4	159.2	622.6	1.9%	18.4%
State/Local	3.0	29.1	19.3	16.1	15.3	12.4	154.2	28.1	73.1	350.7	1.1%	10.4%
All Owners	35.7	78.3	46.4	134.0	103.5	28.0	282.9	173.5	249.1	1,131.3	3.5%	33.4%
Percent	3.2%	6.9%	4.1%	11.8%	9.1%	2.5%	25.0%	15.3%	22.0%	100.0%		
Upland HW	Tree Grades 3+											
Federal	48.8	15.5	0.8	199.2	21.5				24.8	310.6	1.0%	9.2%
Private	52.8	124.7	138.8	75.6	131.1	11.4	308.6	264.4	210.6	1,317.9	4.1%	38.9%
State/Local	8.0	115.3	59.9	54.6	35.8	17.7	172.6	99.9	63.2	627.0	2.0%	18.5%
All Owners	109.6	255.5	199.5	329.4	188.4	29.1	481.2	364.3	298.6	2,255.5	7.0%	66.6%
Percent	4.9%	11.3%	8.8%	14.6%	8.4%	1.3%	21.3%	16.2%	13.2%	100.0%		
Upland HW	All Grades											
Federal	56.5	27.3	2.2	288.4	52.6	0.0	0.0	0.0	41.7	468.6	1.5%	13.8%
Private	77.8	162.0	164.4	104.3	188.1	26.9	437.3	409.8	369.8	1,940.5	6.0%	57.3%
State/Local	11.0	144.5	79.2	70.7	51.1	30.1	326.8	128.0	136.2	977.7	3.0%	28.9%
All Owners	145.3	333.8	245.8	463.4	291.9	57.1	764.1	537.8	547.8	3,386.8	10.5%	100.0%
Percent	4.3%	9.9%	7.3%	13.7%	8.6%	1.7%	22.6%	15.9%	16.2%	100.0%		
Lowland HW	Tree Grades 1-2											
Federal				4.8					7.9	12.7	0.0%	2.5%
Private	16.8	1.4	13.5	0.9	8.7	5.1	12.2	29.5	23.8	111.9	0.3%	22.2%
State/Local		3.9			1.1		2.5	1.6	4.6	13.8	0.0%	2.7%
All Owners	16.8	5.3	13.5	5.7	9.9	5.1	14.7	31.1	36.3	138.3	0.4%	27.5%
Percent	12.1%	3.8%	9.8%	4.1%	7.1%	3.7%	10.6%	22.5%	26.2%	100.0%		
Lowland HW	Tree Grades 3+											
Federal	16.8			5.5	6.5				13.1	42.0	0.1%	8.3%
Private	41.9	9.8	28.8	7.4	38.8	14.3	20.8	27.9	67.6	257.4	0.8%	51.1%
State/Local	8.9	15.9	1.5	0.6	4.1	5.8	14.3	9.8	5.3	66.3	0.2%	13.2%
All Owners	67.7	25.7	30.3	13.5	49.5	20.1	35.1	37.7	86.0	365.6	1.1%	72.5%
Percent	18.5%	7.0%	8.3%	3.7%	13.5%	5.5%	9.6%	10.3%	23.5%	100.0%		

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	All zones	All zones	Species Group
	Million Board Feet (International ¼)										Percent	
Lowland HW	All Grades											
Federal	16.8	0.0	0.0	10.3	6.5	0.0	0.0	0.0	21.0	54.7	0.2%	10.8%
Private	58.7	11.2	42.3	8.2	47.6	19.4	33.0	57.5	91.4	369.2	1.1%	73.3%
State/Local	8.9	19.8	1.5	0.6	5.3	5.8	16.9	11.4	9.9	80.0	0.2%	15.9%
All Owners	84.5	31.0	43.8	19.2	59.3	25.2	49.8	68.8	122.2	503.9	1.6%	100.0%
Percent	16.8%	6.2%	8.7%	3.8%	11.8%	5.0%	9.9%	13.7%	24.3%	100.0%		
Pine	Tree Grades 1-2											
Federal	89.6	51.6	8.6	240.6	0.6				87.3	478.2	1.5%	5.7%
Private	23.8	78.2	36.8	91.1	77.2	2.8	78.4	167.4	76.4	632.3	2.0%	7.6%
State/Local	28.2	142.3	107.1	8.1	97.5	13.8	123.7	58.5	203.1	782.2	2.4%	9.4%
All Owners	141.6	272.0	152.5	339.8	175.2	16.7	202.1	226.0	366.8	1,892.7	5.9%	22.7%
Percent	7.5%	14.4%	8.1%	18.0%	9.3%	0.9%	10.7%	11.9%	19.4%	100.0%		
Pine	Tree Grades 3+											
Federal	418.5	35.0	52.5	692.4	26.9			1.6	580.6	1,807.5	5.6%	21.7%
Private	20.3	55.3	113.3	69.9	125.2	22.1	167.6	531.8	655.8	1,761.4	5.5%	21.1%
State/Local	17.1	359.6	412.7	11.6	86.2	10.0	408.1	706.3	862.8	2,874.4	8.9%	34.5%
All Owners	456.0	449.9	578.5	773.9	238.3	32.1	575.7	1,239.7	2,099.3	6,443.4	20.0%	77.3%
Percent	7.1%	7.0%	9.0%	12.0%	3.7%	0.5%	8.9%	19.2%	32.6%	100.0%		
Pine	All Grades											
Federal	508.1	86.6	61.1	933.0	27.4	0.0	0.0	1.6	667.9	2,285.8	7.1%	27.4%
Private	44.2	133.4	150.1	161.0	202.4	25.0	246.1	699.3	732.3	2,393.7	7.4%	28.7%
State/Local	45.3	501.8	519.7	19.7	183.7	23.8	531.8	764.8	1,065.9	3,656.6	11.4%	43.9%
All Owners	597.6	721.9	731.0	1,113.7	413.5	48.7	777.9	1,465.7	2,466.1	8,336.0	25.9%	100.0%
Percent	7.2%	8.7%	8.8%	13.4%	5.0%	0.6%	9.3%	17.6%	29.6%	100.0%		
Upland SW	Tree Grades 1-2											
Federal	46.9	14.3		117.0	5.1				23.3	206.6	0.6%	8.2%
Private	32.5	91.7	75.1	51.7	111.4	4.0	31.0	14.8	26.9	439.1	1.4%	17.5%
State/Local	14.2	61.8	36.4	8.6	37.5	16.3	16.3	19.9	23.2	234.0	0.7%	9.3%
All Owners	93.6	167.7	111.5	177.2	154.0	20.3	47.3	34.6	73.3	879.7	2.7%	35.0%
Percent	10.6%	19.1%	12.7%	20.1%	17.5%	2.3%	5.4%	3.9%	8.3%	100.0%		
Upland SW	Tree Grades 3+											
Federal	53.6	8.6	3.5	220.1	5.9				12.5	304.3	0.9%	12.1%
Private	74.5	99.7	161.0	75.9	161.2	19.3	83.9	96.0	98.2	869.7	2.7%	34.6%
State/Local	16.5	109.8	118.6	44.4	44.9	24.1	29.6	28.4	44.7	461.2	1.4%	18.3%
All Owners	144.6	218.1	283.2	340.5	212.1	43.4	113.5	124.5	155.4	1,635.1	5.1%	65.0%
Percent	8.8%	13.3%	17.3%	20.8%	13.0%	2.7%	6.9%	7.6%	9.5%	100.0%		
Upland SW	All Grades											
Federal	100.5	22.9	3.5	337.1	11.1	0.0	0.0	0.0	35.7	510.8	1.6%	20.3%
Private	107.0	191.4	236.2	127.7	272.6	23.3	114.8	110.8	125.1	1,308.8	4.1%	52.0%
State/Local	30.7	171.5	155.0	52.9	82.4	40.4	46.0	48.3	67.9	695.2	2.2%	27.6%
All Owners	238.2	385.9	394.7	517.7	366.1	63.7	160.8	159.1	228.7	2,514.8	7.8%	100.0%
Percent	9.5%	15.3%	15.7%	20.6%	14.6%	2.5%	6.4%	6.3%	9.1%	100.0%		
Lowland SW	Tree Grades 1-2											
Federal	140.1	35.1		73.6	28.7				11.1	288.5	0.9%	5.8%
Private	79.3	142.0	70.9	46.9	168.2	27.9	69.4	31.5	37.7	673.8	2.1%	13.5%
State/Local	38.8	136.2	49.5	19.4	51.7	19.5	33.4	27.7	23.4	399.6	1.2%	8.0%
All Owners	258.2	313.2	120.4	139.9	248.5	47.4	102.7	59.3	72.2	1,361.9	4.2%	27.4%
Percent	19.0%	23.0%	8.8%	10.3%	18.2%	3.5%	7.5%	4.4%	5.3%	100.0%		

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	All zones	All zones	Species Group
	Million Board Feet (International ¼)										Percent	
Lowland SW	Tree Grades 3+											
Federal	223.5	19.8	27.1	165.0	21.1				84.3	540.8	1.7%	10.9%
Private	191.8	289.5	217.8	86.9	394.5	26.9	229.1	239.3	197.6	1,873.4	5.8%	37.6%
State/Local	40.7	296.4	154.0	103.6	195.2	45.4	68.5	122.6	175.7	1,202.1	3.7%	24.1%
All Owners	456.0	605.7	398.9	355.5	610.8	72.3	297.6	361.9	457.7	3,616.4	11.2%	72.6%
Percent	12.6%	16.7%	11.0%	9.8%	16.9%	2.0%	8.2%	10.0%	12.7%	100.0%		
Lowland SW	All Grades											
Federal	363.6	54.9	27.1	238.6	49.8	0.0	0.0	0.0	95.4	829.4	2.6%	16.7%
Private	271.1	431.5	288.7	133.8	562.7	54.8	298.5	270.8	235.3	2,547.3	7.9%	51.2%
State/Local	79.5	432.6	203.5	123.0	246.9	64.9	101.9	150.4	199.1	1,601.7	5.0%	32.2%
All Owners	714.3	918.9	519.3	495.4	859.3	119.7	400.3	421.2	529.9	4,978.3	15.5%	100.0%
Percent	14.3%	18.5%	10.4%	10.0%	17.3%	2.4%	8.0%	8.5%	10.6%	100.0%		
Hardwoods	Tree Grades 1-2											
Federal	92.7	22.7	1.4	284.3	114.8	0.0	0.0	2.6	134.9	653.4	2.0%	4.0%
Private	128.5	183.8	179.9	143.0	290.2	52.4	328.2	514.7	774.3	2,594.8	8.1%	15.9%
State/Local	11.4	143.5	63.1	80.4	133.5	18.1	224.2	108.2	296.5	1,078.7	3.4%	6.6%
All Owners	232.6	349.9	244.3	507.6	538.4	70.5	552.3	625.5	1,205.7	4,327.0	13.5%	26.5%
Percent	5.4%	8.1%	5.6%	11.7%	12.4%	1.6%	12.8%	14.5%	27.9%	100.0%		
Hardwoods	Tree Grades 3+											
Federal	333.3	40.8	0.8	630.6	67.3	0.0	0.0	4.7	413.0	1,490.5	4.6%	9.1%
Private	352.1	398.2	534.1	380.4	655.8	193.5	1,200.6	1,736.0	1,875.6	7,326.3	22.8%	44.9%
State/Local	85.2	521.2	218.2	221.2	179.5	90.0	560.4	589.2	713.7	3,178.6	9.9%	19.5%
All Owners	770.7	960.3	753.1	1,232.1	902.6	283.5	1,761.0	2,329.9	3,002.3	11,995.4	37.3%	73.5%
Percent	6.4%	8.0%	6.3%	10.3%	7.5%	2.4%	14.7%	19.4%	25.0%	100.0%		
Hardwoods	All Grades											
Federal	426.1	63.5	2.2	914.9	182.1	0.0	0.0	7.3	548.0	2,143.9	6.7%	13.1%
Private	480.5	582.0	714.0	523.4	946.0	245.9	1,528.8	2,250.7	2,649.8	9,921.1	30.9%	60.8%
State/Local	96.6	664.7	281.3	301.5	313.0	108.0	784.5	697.4	1,010.2	4,257.3	13.2%	26.1%
All Owners	1,003.3	1,310.2	997.5	1,739.8	1,441.0	353.9	2,313.4	2,955.4	4,208.0	16,322.4	50.8%	100.0%
Percent	6.1%	8.0%	6.1%	10.7%	8.8%	2.2%	14.2%	18.1%	25.8%	100.0%		
Softwoods	Tree Grades 1-2											
Federal	276.6	100.9	8.6	431.2	34.4	0.0	0.0	0.0	121.6	973.3	3.0%	6.1%
Private	135.7	311.8	182.8	189.7	356.8	34.8	178.7	213.8	141.1	1,745.2	5.4%	11.0%
State/Local	81.1	340.2	192.9	36.0	186.6	49.7	173.4	106.1	249.6	1,415.7	4.4%	8.9%
All Owners	493.4	753.0	384.4	656.9	577.8	84.4	352.2	319.9	512.3	4,134.3	12.9%	26.1%
Percent	11.9%	18.2%	9.3%	15.9%	14.0%	2.0%	8.5%	7.7%	12.4%	100.0%		
Softwoods	Tree Grades 3+											
Federal	695.6	63.5	83.0	1,077.6	53.9	0.0	0.0	1.6	677.4	2,652.6	8.3%	16.8%
Private	286.6	444.5	492.2	232.7	680.9	68.3	480.6	867.1	951.6	4,504.5	14.0%	28.5%
State/Local	74.4	765.7	685.3	159.6	326.4	79.4	506.2	857.4	1,083.3	4,537.7	14.1%	28.7%
All Owners	1,056.6	1,273.7	1,260.5	1,469.9	1,061.2	147.7	986.8	1,726.1	2,712.4	11,694.9	36.4%	73.9%
Percent	9.0%	10.9%	10.8%	12.6%	9.1%	1.3%	8.4%	14.8%	23.2%	100.0%		
Softwoods	All Grades											
Federal	972.2	164.4	91.6	1,508.8	88.3	0.0	0.0	1.6	799.1	3,626.0	11.3%	22.9%
Private	422.3	756.3	675.0	422.5	1,037.6	103.1	659.4	1,080.9	1,092.7	6,249.7	19.4%	39.5%
State/Local	155.5	1,106.0	878.3	195.6	513.0	129.1	679.6	963.5	1,332.9	5,953.5	18.5%	37.6%
All Owners	1,550.0	2,026.7	1,644.9	2,126.8	1,638.9	232.1	1,339.0	2,045.9	3,224.7	15,829.2	49.2%	100.0%
Percent	9.8%	12.8%	10.4%	13.4%	10.4%	1.5%	8.5%	12.9%	20.4%	100.0%		

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	All zones	All zones	Species Group
	Million Board Feet (International ¼)										Percent	
All Species	Tree Grades 1-2											
Federal	369.3	123.6	10.0	715.5	149.2	0.0	0.0	2.6	256.6	1,626.8	5.1%	5.1%
Private	264.2	495.5	362.7	332.7	646.9	87.2	506.9	728.4	915.3	4,340.0	13.5%	13.5%
State/Local	92.5	483.7	256.0	116.4	320.1	67.7	397.6	214.4	546.1	2,494.5	7.8%	7.8%
All Owners	726.0	1,102.9	628.7	1,164.5	1,116.2	154.9	904.5	945.4	1,718.0	8,461.2	26.3%	26.3%
Percent	8.6%	13.0%	7.4%	13.8%	13.2%	1.8%	10.7%	11.2%	20.3%	100.0%		
All Species	Tree Grades 3+											
Federal	1,029.0	104.3	83.9	1,708.1	121.2	0.0	0.0	6.2	1,090.5	4,143.1	12.9%	12.9%
Private	638.7	842.7	1,026.3	613.1	1,336.7	261.8	1,681.3	2,603.2	2,827.2	11,830.8	36.8%	36.8%
State/Local	159.6	1,287.0	903.5	380.8	505.9	169.4	1,066.6	1,446.5	1,797.0	7,716.3	24.0%	24.0%
All Owners	1,827.2	2,234.0	2,013.7	2,702.0	1,963.8	431.2	2,747.8	4,055.9	5,714.7	23,690.3	73.7%	73.7%
Percent	7.7%	9.4%	8.5%	11.4%	8.3%	1.8%	11.6%	17.1%	24.1%	100.0%		
All Species	All Grades											
Federal	1,398.3	227.9	93.8	2,423.6	270.4	0.0	0.0	8.8	1,347.0	5,769.9	17.9%	17.9%
Private	902.8	1,338.3	1,389.0	945.8	1,983.6	349.0	2,188.2	3,331.6	3,742.5	16,170.8	50.3%	50.3%
State/Local	252.2	1,770.6	1,159.5	497.1	826.0	237.1	1,464.2	1,660.9	2,343.2	10,210.8	31.8%	31.8%
All Owners	2,553.3	3,336.9	2,642.4	3,866.6	3,080.0	586.1	3,652.4	5,001.3	7,432.7	32,151.6	100.0%	100.0%
Percent	7.9%	10.4%	8.2%	12.0%	9.6%	1.8%	11.4%	15.6%	23.1%	100.0%		

Table A14. Volume of Sawlog Portion of Growing Stock Sawtimber Trees on Timberland, by Zone, Owner, Species Group, and Tree Grade.

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	All zones	All zones	Species Group
	Million Cubic Feet										Percent	
Aspen	Tree Grades 1-2											
Federal	2.6	0.4		3.4	1.4				7.3	15.2	0.3%	3.3%
Private	5.6	5.5	0.8	1.2	5.1	1.7	8.0	7.5	8.4	43.8	0.8%	9.6%
State/Local	0.2	5.7	1.3	0.2	1.7		1.5	1.8	2.7	15.0	0.3%	3.3%
All Owners	8.5	11.6	2.1	4.7	8.3	1.7	9.5	9.3	18.4	74.0	1.4%	16.2%
Percent	11.4%	15.7%	2.8%	6.4%	11.2%	2.3%	12.8%	12.6%	24.8%	100.0%		
Aspen	Tree Grades 3+											
Federal	14.0	1.5		14.1	0.1				20.0	49.8	0.9%	10.9%
Private	21.4	7.3	6.1	4.1	12.0	18.6	47.5	60.7	53.7	231.3	4.4%	50.7%
State/Local	4.8	20.8	6.7	0.5	2.4	9.5	17.0	21.2	17.9	100.9	1.9%	22.1%
All Owners	40.2	29.6	12.8	18.7	14.5	28.0	64.5	81.9	91.6	381.9	7.3%	83.8%
Percent	10.5%	7.8%	3.3%	4.9%	3.8%	7.3%	16.9%	21.4%	24.0%	100.0%		
Aspen	All Grades											
Federal	16.6	2.0	0.0	17.5	1.6	0.0	0.0	0.0	27.3	64.9	1.2%	14.2%
Private	27.1	12.8	6.9	5.3	17.1	20.3	55.4	68.1	62.1	275.1	5.2%	60.3%
State/Local	5.0	26.5	8.0	0.6	4.1	9.5	18.5	23.1	20.6	115.9	2.2%	25.4%
All Owners	48.7	41.2	14.8	23.4	22.8	29.7	74.0	91.2	110.0	455.9	8.7%	100.0%
Percent	10.7%	9.0%	3.3%	5.1%	5.0%	6.5%	16.2%	20.0%	24.1%	100.0%		
Maple	Tree Grades 1-2											
Federal	8.6	1.3		26.8	11.7				0.8	49.2	0.9%	4.3%
Private	8.1	17.2	21.6	17.0	28.7	2.9	16.5	33.8	40.7	186.5	3.5%	16.5%
State/Local	1.0	11.9	5.7	10.0	13.1	0.9	6.7	3.3	14.8	67.3	1.3%	5.9%
All Owners	17.7	30.4	27.4	53.7	53.5	3.8	23.3	37.0	56.3	303.0	5.8%	26.8%
Percent	5.8%	10.0%	9.0%	17.7%	17.6%	1.3%	7.7%	12.2%	18.6%	100.0%		
Maple	Tree Grades 3+											
Federal	26.9	2.5		52.4	6.1				7.8	95.7	1.8%	8.4%
Private	18.1	33.4	51.7	42.3	61.8	7.5	83.2	114.4	123.5	535.8	10.2%	47.3%
State/Local	5.8	40.6	17.8	22.8	17.8	0.9	31.4	30.0	30.7	197.8	3.8%	17.5%
All Owners	50.8	76.4	69.5	117.6	85.7	8.4	114.6	144.4	162.0	829.3	15.8%	73.2%
Percent	6.1%	9.2%	8.4%	14.2%	10.3%	1.0%	13.8%	17.4%	19.5%	100.0%		
Maple	All Grades											
Federal	35.5	3.8	0.0	79.2	17.8	0.0	0.0	0.0	8.5	144.9	2.8%	12.8%
Private	26.2	50.6	73.3	59.2	90.5	10.4	99.7	148.2	164.2	722.3	13.7%	63.8%
State/Local	6.7	52.4	23.5	32.8	30.9	1.8	38.1	33.2	45.6	265.2	5.0%	23.4%
All Owners	68.5	106.8	96.9	171.3	139.1	12.2	137.9	181.4	218.3	1,132.4	21.5%	100.0%
Percent	6.0%	9.4%	8.6%	15.1%	12.3%	1.1%	12.2%	16.0%	19.3%	100.0%		
Oak	Tree Grades 1-2											
Federal	2.3							0.4	9.7	12.4	0.2%	3.2%
Private		0.3			2.0	0.4	5.5	13.0	45.0	66.3	1.3%	17.1%
State/Local	0.2				3.8		2.5	7.5	17.4	31.5	0.6%	8.1%
All Owners	2.5	0.3	0.0	0.0	5.8	0.4	8.1	21.0	72.1	110.1	2.1%	28.4%
Percent	2.2%	0.3%	0.0%	0.0%	5.3%	0.4%	7.3%	19.0%	65.4%	100.0%		
Oak	Tree Grades 3+											
Federal	1.5			0.5				0.7	32.5	35.2	0.7%	9.1%
Private	1.6	1.1		0.7	2.7	0.8	7.9	54.5	77.2	146.5	2.8%	37.8%
State/Local	0.3	0.4	0.2	2.9	1.8	0.2	11.1	25.3	53.8	96.0	1.8%	24.7%
All Owners	3.4	1.5	0.2	4.1	4.5	1.0	18.9	80.6	163.4	277.7	5.3%	71.6%
Percent	1.2%	0.5%	0.1%	1.5%	1.6%	0.4%	6.8%	29.0%	58.8%	100.0%		

Owner	UP	UP	UP	UP	UP	NLP	NLP	NLP	NLP	All zones	All zones	Species Group
	30	60	90	120	150	60	90	120	150			
Million Cubic Feet										Percent		
Oak	All Grades											
Federal	3.8	0.0	0.0	0.5	0.0	0.0	0.0	1.2	42.1	47.6	0.9%	12.3%
Private	1.6	1.5	0.0	0.7	4.7	1.3	13.4	67.5	122.2	212.8	4.0%	54.9%
State/Local	0.5	0.4	0.2	2.9	5.7	0.2	13.6	32.8	71.2	127.5	2.4%	32.9%
All Owners	5.9	1.9	0.2	4.1	10.3	1.4	27.0	101.5	235.5	387.8	7.4%	100.0%
Percent	1.5%	0.5%	0.1%	1.1%	2.7%	0.4%	7.0%	26.2%	60.7%	100.0%		
Upland HW	Tree Grades 1-2											
Federal	1.2	1.8	0.2	14.2	4.8				2.7	24.9	0.5%	4.6%
Private	4.0	6.0	4.1	4.6	9.1	2.5	20.7	23.7	25.7	100.4	1.9%	18.6%
State/Local	0.5	4.6	3.1	2.6	2.4	2.0	24.9	4.6	11.8	56.5	1.1%	10.5%
All Owners	5.7	12.4	7.4	21.3	16.4	4.5	45.7	28.2	40.1	181.8	3.5%	33.8%
Percent	3.2%	6.8%	4.1%	11.7%	9.0%	2.5%	25.1%	15.5%	22.1%	100.0%		
Upland HW	Tree Grades 3+											
Federal	7.7	2.4	0.1	31.2	3.4				3.9	48.7	0.9%	9.1%
Private	8.3	19.6	21.8	11.9	20.7	1.8	48.9	41.9	33.6	208.5	4.0%	38.7%
State/Local	1.3	18.2	9.4	8.5	5.6	2.8	27.5	16.0	10.0	99.2	1.9%	18.4%
All Owners	17.3	40.2	31.3	51.6	29.6	4.6	76.3	57.9	47.5	356.4	6.8%	66.2%
Percent	4.8%	11.3%	8.8%	14.5%	8.3%	1.3%	21.4%	16.3%	13.3%	100.0%		
Upland HW	All Grades											
Federal	8.9	4.3	0.3	45.4	8.1	0.0	0.0	0.0	6.6	73.7	1.4%	13.7%
Private	12.3	25.5	25.9	16.5	29.8	4.3	69.6	65.6	59.3	308.8	5.9%	57.4%
State/Local	1.8	22.8	12.5	11.1	8.0	4.8	52.4	20.6	21.7	155.7	3.0%	28.9%
All Owners	23.0	52.7	38.7	72.9	46.0	9.2	122.0	86.2	87.7	538.2	10.2%	100.0%
Percent	4.3%	9.8%	7.2%	13.5%	8.5%	1.7%	22.7%	16.0%	16.3%	100.0%		
Lowland HW	Tree Grades 1-2											
Federal				0.8					1.3	2.1	0.0%	2.6%
Private	2.7	0.2	2.2	0.1	1.4	0.8	1.9	4.8	3.9	18.1	0.3%	22.4%
State/Local		0.6			0.2		0.4	0.3	0.7	2.2	0.0%	2.8%
All Owners	2.7	0.9	2.2	0.9	1.6	0.8	2.4	5.0	5.9	22.4	0.4%	27.7%
Percent	12.1%	3.8%	9.8%	4.1%	7.2%	3.6%	10.5%	22.4%	26.3%	100.0%		
Lowland HW	Tree Grades 3+											
Federal	2.7			0.9	1.1				2.1	6.8	0.1%	8.4%
Private	6.7	1.6	4.6	1.2	6.2	2.3	3.3	4.4	10.7	41.1	0.8%	50.8%
State/Local	1.4	2.6	0.2	0.1	0.7	0.9	2.3	1.6	0.8	10.6	0.2%	13.1%
All Owners	10.9	4.2	4.8	2.2	7.9	3.2	5.6	6.0	13.6	58.4	1.1%	72.3%
Percent	18.6%	7.1%	8.3%	3.7%	13.5%	5.5%	9.6%	10.3%	23.4%	100.0%		
Lowland HW	All Grades											
Federal	2.7	0.0	0.0	1.7	1.1	0.0	0.0	0.0	3.4	8.8	0.2%	10.9%
Private	9.5	1.8	6.8	1.3	7.6	3.1	5.3	9.2	14.6	59.2	1.1%	73.2%
State/Local	1.4	3.2	0.2	0.1	0.9	0.9	2.7	1.8	1.6	12.8	0.2%	15.9%
All Owners	13.6	5.0	7.1	3.1	9.5	4.1	8.0	11.0	19.5	80.8	1.5%	100.0%
Percent	16.8%	6.2%	8.7%	3.8%	11.8%	5.0%	9.9%	13.6%	24.2%	100.0%		
Pine	Tree Grades 1-2											
Federal	14.9	8.5	1.4	38.3	0.1				14.2	77.5	1.5%	5.5%
Private	3.7	12.3	5.9	14.6	12.7	0.5	13.0	27.1	12.8	102.6	1.9%	7.3%
State/Local	4.1	23.7	17.7	1.3	16.2	2.4	19.7	9.9	33.5	128.6	2.4%	9.1%
All Owners	22.8	44.6	25.0	54.2	29.0	2.9	32.7	37.0	60.5	308.6	5.9%	21.8%
Percent	7.4%	14.4%	8.1%	17.6%	9.4%	0.9%	10.6%	12.0%	19.6%	100.0%		

Owner	UP	UP	UP	UP	UP	NLP	NLP	NLP	NLP	All zones	All zones	Species Group
	30	60	90	120	150	60	90	120	150			
Million Cubic Feet										Percent		
Pine	Tree Grades 3+											
Federal	72.0	6.0	8.9	119.7	4.8			0.3	100.4	312.0	5.9%	22.1%
Private	3.5	9.5	18.5	12.2	21.3	3.7	28.6	90.0	113.2	300.6	5.7%	21.3%
State/Local	2.9	61.6	71.2	1.9	14.7	1.7	70.1	121.3	147.7	493.1	9.4%	34.9%
All Owners	78.4	77.2	98.6	133.7	40.7	5.5	98.8	211.6	361.2	1,105.7	21.0%	78.2%
Percent	7.1%	7.0%	8.9%	12.1%	3.7%	0.5%	8.9%	19.1%	32.7%	100.0%		
Pine	All Grades											
Federal	86.9	14.6	10.4	157.9	4.9	0.0	0.0	0.3	114.6	389.4	7.4%	27.5%
Private	7.2	21.8	24.4	26.8	34.0	4.2	41.6	117.1	126.0	403.2	7.7%	28.5%
State/Local	7.1	85.3	88.9	3.2	30.8	4.2	89.9	131.2	181.1	621.7	11.8%	44.0%
All Owners	101.2	121.7	123.7	187.9	69.7	8.4	131.5	248.6	421.7	1,414.3	26.9%	100.0%
Percent	7.2%	8.6%	8.7%	13.3%	4.9%	0.6%	9.3%	17.6%	29.8%	100.0%		
Upland SW	Tree Grades 1-2											
Federal	7.6	2.4		19.1	0.8				3.7	33.7	0.6%	8.0%
Private	5.6	15.3	12.3	8.6	18.8	0.7	5.1	2.5	4.6	73.4	1.4%	17.4%
State/Local	2.4	10.2	6.0	1.5	6.4	2.8	2.7	3.4	4.0	39.4	0.7%	9.3%
All Owners	15.6	27.8	18.3	29.1	26.0	3.5	7.8	5.9	12.3	146.4	2.8%	34.6%
Percent	10.6%	19.0%	12.5%	19.9%	17.7%	2.4%	5.4%	4.1%	8.4%	100.0%		
Upland SW	Tree Grades 3+											
Federal	9.1	1.4	0.6	37.1	1.0				2.1	51.4	1.0%	12.1%
Private	12.6	16.4	27.0	12.8	27.2	3.3	14.4	16.3	16.8	146.8	2.8%	34.7%
State/Local	2.8	18.7	20.1	7.5	7.6	4.1	5.1	4.8	7.5	78.1	1.5%	18.5%
All Owners	24.6	36.6	47.6	57.4	35.8	7.4	19.4	21.1	26.4	276.3	5.2%	65.4%
Percent	8.9%	13.2%	17.2%	20.8%	12.9%	2.7%	7.0%	7.6%	9.5%	100.0%		
Upland SW	All Grades											
Federal	16.7	3.8	0.6	56.2	1.8	0.0	0.0	0.0	5.8	85.0	1.6%	20.1%
Private	18.2	31.7	39.3	21.4	46.0	4.0	19.5	18.9	21.3	220.2	4.2%	52.1%
State/Local	5.2	28.9	26.1	9.0	13.9	6.9	7.8	8.2	11.5	117.5	2.2%	27.8%
All Owners	40.1	64.4	66.0	86.6	61.7	10.9	27.3	27.0	38.7	422.8	8.0%	100.0%
Percent	9.5%	15.2%	15.6%	20.5%	14.6%	2.6%	6.5%	6.4%	9.1%	100.0%		
Lowland SW	Tree Grades 1-2											
Federal	23.8	5.9		12.4	4.8				1.9	48.8	0.9%	5.9%
Private	13.1	23.7	11.7	7.8	27.8	4.7	11.6	5.3	6.4	112.2	2.1%	13.5%
State/Local	6.5	23.0	8.3	3.3	8.6	3.3	5.6	4.6	3.8	67.1	1.3%	8.1%
All Owners	43.5	52.5	20.0	23.6	41.2	8.0	17.2	9.9	12.1	228.1	4.3%	27.4%
Percent	19.1%	23.0%	8.8%	10.3%	18.1%	3.5%	7.5%	4.4%	5.3%	100.0%		
Lowland SW	Tree Grades 3+											
Federal	37.5	3.3	4.5	27.7	3.4				14.1	90.6	1.7%	10.9%
Private	32.3	48.4	36.3	14.5	65.5	4.5	38.5	40.3	33.1	313.5	6.0%	37.7%
State/Local	6.8	49.5	25.7	17.2	32.3	7.6	11.5	20.3	29.1	200.0	3.8%	24.0%
All Owners	76.7	101.2	66.6	59.4	101.2	12.1	50.0	60.6	76.3	604.1	11.5%	72.6%
Percent	12.7%	16.7%	11.0%	9.8%	16.8%	2.0%	8.3%	10.0%	12.6%	100.0%		
Lowland SW	All Grades											
Federal	61.3	9.2	4.5	40.2	8.2	0.0	0.0	0.0	15.9	139.4	2.6%	16.8%
Private	45.5	72.1	48.0	22.4	93.3	9.3	50.2	45.6	39.5	425.8	8.1%	51.2%
State/Local	13.4	72.5	34.1	20.5	40.9	10.9	17.0	24.9	32.9	267.1	5.1%	32.1%
All Owners	120.1	153.7	86.6	83.0	142.4	20.1	67.2	70.5	88.4	832.2	15.8%	100.0%
Percent	14.4%	18.5%	10.4%	10.0%	17.1%	2.4%	8.1%	8.5%	10.6%	100.0%		

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	All zones	All zones	Species Group
	Million Cubic Feet										Percent	
Hardwoods	Tree Grades 1-2											
Federal	14.8	3.6	0.2	45.1	17.9	0.0	0.0	0.4	21.7	103.7	2.0%	4.0%
Private	20.5	29.2	28.8	22.8	46.3	8.4	52.7	82.7	123.6	415.1	7.9%	16.0%
State/Local	1.8	22.8	10.1	12.7	21.3	2.9	36.1	17.4	47.4	172.5	3.3%	6.6%
All Owners	37.1	55.7	39.0	80.7	85.5	11.3	88.8	100.5	192.7	691.4	13.1%	26.6%
Percent	5.4%	8.1%	5.6%	11.7%	12.4%	1.6%	12.8%	14.5%	27.9%	100.0%		
Hardwoods	Tree Grades 3+											
Federal	52.8	6.5	0.1	99.2	10.6	0.0	0.0	0.7	66.3	236.2	4.5%	9.1%
Private	56.2	62.9	84.2	60.1	103.4	31.0	190.7	276.0	298.7	1,163.1	22.1%	44.8%
State/Local	13.6	82.5	34.4	34.8	28.3	14.4	89.3	94.0	113.2	504.5	9.6%	19.4%
All Owners	122.5	151.9	118.6	194.1	142.3	45.3	280.0	370.7	478.2	1,903.8	36.2%	73.4%
Percent	6.4%	8.0%	6.2%	10.2%	7.5%	2.4%	14.7%	19.5%	25.1%	100.0%		
Hardwoods	All Grades											
Federal	67.5	10.1	0.3	144.3	28.5	0.0	0.0	1.2	88.0	339.9	6.5%	13.1%
Private	76.7	92.1	112.9	83.0	149.7	39.4	243.4	358.7	422.3	1,578.2	30.0%	60.8%
State/Local	15.4	105.4	44.4	47.5	49.6	17.3	125.4	111.5	160.6	677.1	12.9%	26.1%
All Owners	159.6	207.6	157.7	274.8	227.8	56.6	368.9	471.3	670.9	2,595.2	49.3%	100.0%
Percent	6.2%	8.0%	6.1%	10.6%	8.8%	2.2%	14.2%	18.2%	25.9%	100.0%		
Softwoods	Tree Grades 1-2											
Federal	46.4	16.9	1.4	69.8	5.7	0.0	0.0	0.0	19.8	160.0	3.0%	6.0%
Private	22.4	51.2	29.8	31.1	59.3	5.9	29.7	34.9	23.8	288.2	5.5%	10.8%
State/Local	13.0	56.9	32.1	6.1	31.2	8.5	28.0	17.9	41.3	235.0	4.5%	8.8%
All Owners	81.8	125.0	63.3	106.9	96.1	14.5	57.7	52.8	84.9	683.2	13.0%	25.6%
Percent	12.0%	18.3%	9.3%	15.6%	14.1%	2.1%	8.5%	7.7%	12.4%	100.0%		
Softwoods	Tree Grades 3+											
Federal	118.6	10.8	14.0	184.5	9.2	0.0	0.0	0.3	116.6	453.9	8.6%	17.0%
Private	48.4	74.4	81.8	39.5	114.0	11.6	81.5	146.7	163.0	761.0	14.5%	28.5%
State/Local	12.6	129.8	117.0	26.6	54.5	13.4	86.7	146.4	184.3	771.3	14.7%	28.9%
All Owners	179.6	214.9	212.9	250.6	177.7	25.0	168.2	293.3	463.9	1,986.2	37.7%	74.4%
Percent	9.0%	10.8%	10.7%	12.6%	8.9%	1.3%	8.5%	14.8%	23.4%	100.0%		
Softwoods	All Grades											
Federal	165.0	27.6	15.5	254.3	14.9	0.0	0.0	0.3	136.4	613.9	11.7%	23.0%
Private	70.8	125.6	111.7	70.6	173.2	17.5	111.3	181.6	186.8	1,049.2	19.9%	39.3%
State/Local	25.6	186.7	149.1	32.7	85.7	21.9	114.7	164.3	225.6	1,006.3	19.1%	37.7%
All Owners	261.4	339.9	276.2	357.5	273.9	39.5	226.0	346.2	548.8	2,669.3	50.7%	100.0%
Percent	9.8%	12.7%	10.3%	13.4%	10.3%	1.5%	8.5%	13.0%	20.6%	100.0%		
All Species	Tree Grades 1-2											
Federal	61.2	20.4	1.7	114.9	23.6	0.0	0.0	0.4	41.5	263.7	5.0%	5.0%
Private	42.9	80.5	58.6	53.9	105.6	14.3	82.5	117.6	147.4	703.3	13.4%	13.4%
State/Local	14.9	79.7	42.1	18.8	52.5	11.5	64.1	35.3	88.7	407.5	7.7%	7.7%
All Owners	118.9	180.6	102.4	187.6	181.6	25.8	146.6	153.4	277.6	1,374.5	26.1%	26.1%
Percent	8.7%	13.1%	7.4%	13.6%	13.2%	1.9%	10.7%	11.2%	20.2%	100.0%		
All Species	Tree Grades 3+											
Federal	171.4	17.2	14.2	283.7	19.8	0.0	0.0	1.0	182.8	690.1	13.1%	13.1%
Private	104.6	137.3	166.0	99.6	217.3	42.6	272.3	422.6	461.7	1,924.1	36.5%	36.5%
State/Local	26.2	212.4	151.3	61.4	82.8	27.8	176.0	240.4	297.5	1,275.9	24.2%	24.2%
All Owners	302.1	366.9	331.5	444.8	320.0	70.3	448.3	664.1	942.1	3,890.0	73.9%	73.9%
Percent	7.8%	9.4%	8.5%	11.4%	8.2%	1.8%	11.5%	17.1%	24.2%	100.0%		

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	All zones	All zones	Species Group
	Million Cubic Feet										Percent	
All Species	All Grades											
Federal	232.5	37.7	15.8	398.6	43.4	0.0	0.0	1.4	224.4	953.8	18.1%	18.1%
Private	147.5	217.7	224.6	153.5	322.9	56.9	354.7	540.3	609.2	2,627.3	49.9%	49.9%
State/Local	41.0	292.1	193.5	80.2	135.3	39.2	240.1	275.7	386.2	1,683.4	32.0%	32.0%
All Owners	421.1	547.5	433.9	632.3	501.6	96.1	594.8	817.4	1,219.7	5,264.5	100.0%	100.0%
Percent	8.0%	10.4%	8.2%	12.0%	9.5%	1.8%	11.3%	15.5%	23.2%	100.0%		

Table A15. Volume of Growing Stock Sawtimber Trees on Timberland, by Zone, Species Group, and Tree Grade.

Species Group	Tree Grade	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	All zones	All zones
		Million Board Feet (International ¼)										Percent
Aspen	Tgrade 1-2	52.6	73.2	13.0	29.1	51.6	10.6	58.6	57.9	113.7	460.3	1.4%
Aspen	Tgrade 3+	250.6	184.6	79.3	117.0	90.2	174.5	402.3	510.8	570.6	2,380.0	7.4%
Maple	Tgrade 1-2	111.8	191.0	171.4	338.8	337.8	24.2	145.7	232.4	357.0	1,910.2	5.9%
Maple	Tgrade 3+	321.6	485.0	442.8	746.3	546.2	53.3	725.0	914.9	1,024.3	5,259.4	16.4%
Oak	Tgrade 1-2	15.7	2.1	0.0	0.0	35.7	2.6	50.5	130.6	449.6	686.8	2.1%
Oak	Tgrade 3+	21.3	9.4	1.3	26.0	28.3	6.4	117.4	502.2	1,022.8	1,735.0	5.4%
Upland HW	Tgrade 1-2	35.7	78.3	46.4	134.0	103.5	28.0	282.9	173.5	249.1	1,131.3	3.5%
Upland HW	Tgrade 3+	109.6	255.5	199.5	329.4	188.4	29.1	481.2	364.3	298.6	2,255.5	7.0%
Lowland HW	Tgrade 1-2	16.8	5.3	13.5	5.7	9.9	5.1	14.7	31.1	36.3	138.3	0.4%
Lowland HW	Tgrade 3+	67.7	25.7	30.3	13.5	49.5	20.1	35.1	37.7	86.0	365.6	1.1%
Pine	Tgrade 1-2	141.6	272.0	152.5	339.8	175.2	16.7	202.1	226.0	366.8	1,892.7	5.9%
Pine	Tgrade 3+	456.0	449.9	578.5	773.9	238.3	32.1	575.7	1,239.7	2,099.3	6,443.4	20.0%
Upland SW	Tgrade 1-2	93.6	167.7	111.5	177.2	154.0	20.3	47.3	34.6	73.3	879.7	2.7%
Upland SW	Tgrade 3+	144.6	218.1	283.2	340.5	212.1	43.4	113.5	124.5	155.4	1,635.1	5.1%
Lowland SW	Tgrade 1-2	258.2	313.2	120.4	139.9	248.5	47.4	102.7	59.3	72.2	1,361.9	4.2%
Lowland SW	Tgrade 3+	456.0	605.7	398.9	355.5	610.8	72.3	297.6	361.9	457.7	3,616.4	11.2%
All Species	All Grades	2,553.3	3,336.9	2,642.4	3,866.6	3,080.0	586.1	3,652.4	5,001.3	7,432.7	32,151.6	100.0%

Table A16. Volume of Sawlog Portion of Growing Stock Sawtimber Trees on Timberland, by Zone, Species Group, and Tree Grade.

Species Group	Tree Grade	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	Total	Total
		Million Cubic Feet										Percent
Aspen	Tgrade 1-2	8.5	11.6	2.1	4.7	8.3	1.7	9.5	9.3	18.4	74.0	1.4%
Aspen	Tgrade 3+	40.2	29.6	12.8	18.7	14.5	28.0	64.5	81.9	91.6	381.9	7.3%
Maple	Tgrade 1-2	17.7	30.4	27.4	53.7	53.5	3.8	23.3	37.0	56.3	303.0	5.8%
Maple	Tgrade 3+	50.8	76.4	69.5	117.6	85.7	8.4	114.6	144.4	162.0	829.3	15.8%
Oak	Tgrade 1-2	2.5	0.3	0.0	0.0	5.8	0.4	8.1	21.0	72.1	110.1	2.1%
Oak	Tgrade 3+	3.4	1.5	0.2	4.1	4.5	1.0	18.9	80.6	163.4	277.7	5.3%
Upland HW	Tgrade 1-2	5.7	12.4	7.4	21.3	16.4	4.5	45.7	28.2	40.1	181.8	3.5%
Upland HW	Tgrade 3+	17.3	40.2	31.3	51.6	29.6	4.6	76.3	57.9	47.5	356.4	6.8%
Lowland HW	Tgrade 1-2	2.7	0.9	2.2	0.9	1.6	0.8	2.4	5.0	5.9	22.4	0.4%
Lowland HW	Tgrade 3+	10.9	4.2	4.8	2.2	7.9	3.2	5.6	6.0	13.6	58.4	1.1%
Pine	Tgrade 1-2	22.8	44.6	25.0	54.2	29.0	2.9	32.7	37.0	60.5	308.6	5.9%
Pine	Tgrade 3+	78.4	77.2	98.6	133.7	40.7	5.5	98.8	211.6	361.2	1,105.7	21.0%
Upland SW	Tgrade 1-2	15.6	27.8	18.3	29.1	26.0	3.5	7.8	5.9	12.3	146.4	2.8%
Upland SW	Tgrade 3+	24.6	36.6	47.6	57.4	35.8	7.4	19.4	21.1	26.4	276.3	5.2%
Lowland SW	Tgrade 1-2	43.5	52.5	20.0	23.6	41.2	8.0	17.2	9.9	12.1	228.1	4.3%
Lowland SW	Tgrade 3+	76.7	101.2	66.6	59.4	101.2	12.1	50.0	60.6	76.3	604.1	11.5%
All Species	All Grades	421.1	547.5	433.9	632.3	501.6	96.1	594.8	817.4	1,219.7	5,264.5	100.0%

Net Annual Growth

Table A17. Net Annual Growth of Growing Stock on Timberland, Million Cubic Feet.

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	Total	Total	Group
	Million Cubic Feet										Percent	
Aspen												
Federal	1.5	0.1	0.0	0.9	0.2	0.0	0.0	-0.1	3.8	6.5	2.3%	15.3%
Private	1.2	0.8	0.6	-0.8	2.0	0.9	4.7	6.1	7.4	22.9	8.2%	54.0%
State/Local	0.4	0.7	0.0	0.2	0.5	0.1	2.4	5.3	3.5	13.0	4.7%	30.7%
All Owners	3.1	1.5	0.6	0.3	2.6	1.0	7.1	11.3	14.7	42.4	15.2%	100.0%
Zone Percent	7.4%	3.6%	1.4%	0.8%	6.3%	2.3%	16.8%	26.7%	34.8%	100.0%		
Maple												
Federal	1.5	0.2	0.1	3.8	0.2	0.0	0.0	0.1	1.0	7.0	2.5%	9.3%
Private	1.7	4.4	5.2	3.4	5.4	1.3	7.5	11.2	10.9	51.0	18.3%	67.7%
State/Local	0.4	1.4	1.1	1.3	2.1	0.3	2.9	3.3	4.6	17.4	6.2%	23.0%
All Owners	3.7	6.0	6.4	8.6	7.7	1.6	10.4	14.6	16.6	75.4	27.0%	100.0%
Zone Percent	4.9%	8.0%	8.5%	11.3%	10.2%	2.1%	13.8%	19.3%	22.0%	100.0%		
Oak												
Federal	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.5	1.8	2.5	0.9%	12.3%
Private	0.2	0.0	0.0	0.0	0.6	0.0	1.7	3.0	5.9	11.5	4.1%	57.5%
State/Local	0.0	-0.3	0.0	0.2	0.3	0.0	0.5	1.7	3.6	6.0	2.2%	30.2%
All Owners	0.3	-0.3	0.0	0.3	0.9	0.0	2.3	5.2	11.3	20.1	7.2%	100.0%
Zone Percent	1.4%	-1.4%	0.1%	1.6%	4.4%	0.2%	11.4%	26.0%	56.3%	100.0%		
Upland HW												
Federal	-0.1	0.4	0.0	0.7	0.0	0.0	0.0	0.0	0.0	1.1	0.4%	10.3%
Private	0.0	0.3	2.0	0.6	0.3	0.5	2.4	2.9	0.9	9.8	3.5%	88.2%
State/Local	-0.3	-1.3	-0.3	0.3	-0.2	0.0	0.8	0.5	0.7	0.2	0.1%	1.6%
All Owners	-0.4	-0.7	1.7	1.7	0.1	0.4	3.2	3.3	1.7	11.2	4.0%	100.0%
Zone Percent	-3.2%	-5.8%	15.1%	15.1%	1.0%	4.0%	28.7%	30.0%	15.3%	100.0%		
Lowland HW												
Federal	-0.3	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.2	0.4	0.1%	7.2%
Private	-0.3	-0.3	0.0	0.2	0.9	0.1	0.4	2.2	0.9	4.3	1.5%	78.3%
State/Local	0.0	-0.1	0.1	-0.1	0.5	0.0	-0.1	0.1	0.3	0.8	0.3%	14.4%
All Owners	-0.5	-0.3	0.1	0.6	1.4	0.2	0.3	2.3	1.5	5.5	2.0%	100.0%
Zone Percent	-9.6%	-5.5%	2.3%	10.2%	26.3%	3.0%	4.7%	42.0%	26.6%	100.0%		
Pine												
Federal	3.1	0.1	0.1	6.7	0.2	0.0	0.0	0.3	6.1	16.5	5.9%	24.2%
Private	0.2	0.6	0.9	1.6	2.1	0.3	2.8	5.3	9.9	23.6	8.4%	34.6%
State/Local	0.1	2.1	3.0	0.1	0.9	0.1	2.5	6.3	13.0	28.0	10.0%	41.1%
All Owners	3.3	2.8	4.0	8.4	3.2	0.4	5.3	11.8	28.9	68.1	24.4%	100.0%
Zone Percent	4.9%	4.1%	5.8%	12.3%	4.7%	0.5%	7.8%	17.4%	42.5%	100.0%		
Upland SW												
Federal	0.3	0.1	0.0	1.8	0.0	0.0	0.0	0.0	0.6	2.9	1.0%	14.2%
Private	2.3	1.0	0.7	0.8	2.4	0.3	0.8	1.8	1.9	12.0	4.3%	59.4%
State/Local	0.4	1.6	1.3	0.1	0.9	0.1	-0.1	0.4	0.7	5.4	1.9%	26.4%
All Owners	3.0	2.7	1.9	2.7	3.3	0.4	0.7	2.2	3.2	20.2	7.3%	100.0%
Zone Percent	15.0%	13.3%	9.6%	13.3%	16.1%	2.1%	3.6%	11.0%	16.0%	100.0%		

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	Total	Total	Group
	Million Cubic Feet										Percent	
Lowland SW												
Federal	1.9	0.4	0.2	2.8	0.4	0.0	0.0	0.0	0.2	5.8	2.1%	16.0%
Private	2.7	1.2	2.2	0.9	7.0	0.7	1.0	2.2	1.9	19.8	7.1%	54.2%
State/Local	0.5	2.9	1.5	0.6	2.1	0.4	0.3	0.9	1.5	10.9	3.9%	29.8%
All Owners	5.1	4.4	3.9	4.2	9.6	1.1	1.3	3.2	3.6	36.5	13.1%	100.0%
Zone Percent	14.1%	12.0%	10.8%	11.6%	26.2%	3.0%	3.6%	8.7%	10.0%	100.0%		
Hardwoods												
Federal	2.8	0.7	0.2	6.1	0.4	0.0	0.0	0.5	6.9	17.5	6.3%	11.3%
Private	2.9	5.2	7.8	3.5	9.2	2.8	16.7	25.4	26.1	99.6	35.7%	64.5%
State/Local	0.5	0.3	0.8	1.9	3.2	0.4	6.5	10.9	12.8	37.4	13.4%	24.2%
All Owners	6.2	6.3	8.8	11.4	12.8	3.2	23.2	36.7	45.8	154.4	55.3%	100.0%
Zone Percent	4.0%	4.1%	5.7%	7.4%	8.3%	2.1%	15.0%	23.8%	29.6%	100.0%		
Softwoods												
Federal	5.3	0.5	0.3	11.2	0.6	0.0	0.0	0.3	6.9	25.2	9.0%	20.2%
Private	5.2	2.7	3.8	3.3	11.5	1.2	4.7	9.3	13.7	55.4	19.8%	44.4%
State/Local	1.0	6.6	5.7	0.8	3.9	0.7	2.7	7.7	15.2	44.2	15.8%	35.4%
All Owners	11.5	9.9	9.8	15.3	16.0	1.9	7.3	17.2	35.8	124.8	44.7%	100.0%
Zone Percent	9.2%	7.9%	7.9%	12.3%	12.8%	1.5%	5.9%	13.8%	28.7%	100.0%		
All Species												
Federal	8.1	1.3	0.5	17.3	1.0	0.0	0.0	0.7	13.8	42.7	15.3%	15.3%
Private	8.1	7.9	11.6	6.8	20.7	4.0	21.3	34.7	39.8	154.9	55.5%	55.5%
State/Local	1.5	7.0	6.6	2.7	7.1	1.1	9.2	18.6	28.0	81.6	29.2%	29.2%
All Owners	17.7	16.2	18.6	26.7	28.8	5.1	30.5	54.0	81.6	279.2	100.0%	100.0%
Zone Percent	6.3%	5.8%	6.7%	9.6%	10.3%	1.8%	10.9%	19.3%	29.2%	100.0%		

Table A18. Net Annual Growth of Growing Stock on Timberland, Million Green Tons.

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	Total	Total	Group
	Thousand Green Tons										Percent	
Aspen												
Federal	39.0	2.5	1.2	22.8	4.6	0.0	0.0	-3.3	92.8	159.5	2.4%	15.2%
Private	31.0	19.8	14.1	-18.4	49.9	21.7	117.9	152.7	180.4	569.1	8.5%	54.3%
State/Local	9.8	17.1	-1.1	4.1	12.2	3.6	58.1	131.0	85.1	319.7	4.8%	30.5%
All Owners	79.8	39.4	14.1	8.5	66.7	25.2	175.9	280.4	358.3	1,048.3	15.7%	100.0%
Zone Percent	7.6%	3.8%	1.3%	0.8%	6.4%	2.4%	16.8%	26.7%	34.2%	100.0%		
Maple												
Federal	40.3	5.3	2.8	102.8	6.6	0.0	0.0	1.5	26.4	185.5	2.8%	9.1%
Private	46.6	118.7	139.9	93.9	147.3	34.4	206.5	306.2	297.7	1,391.2	20.8%	68.1%
State/Local	10.7	37.6	29.3	34.7	55.8	7.1	81.2	88.6	120.9	466.0	7.0%	22.8%
All Owners	97.6	161.6	172.0	231.4	209.6	41.4	287.7	396.3	445.0	2,042.7	30.6%	100.0%
Zone Percent	4.8%	7.9%	8.4%	11.3%	10.3%	2.0%	14.1%	19.4%	21.8%	100.0%		
Oak												
Federal	1.9	0.0	0.0	3.3	0.0	0.0	0.0	17.1	59.0	81.3	1.2%	12.2%
Private	6.3	1.6	0.1	1.2	19.5	0.8	58.9	99.6	198.6	386.5	5.8%	57.8%
State/Local	1.1	-11.0	0.2	6.3	10.6	0.7	17.8	57.0	118.6	201.3	3.0%	30.1%
All Owners	9.4	-9.4	0.4	10.8	30.1	1.4	76.7	173.7	376.2	669.1	10.0%	100.0%
Zone Percent	1.4%	-1.4%	0.1%	1.6%	4.5%	0.2%	11.5%	26.0%	56.2%	100.0%		
Upland HW												
Federal	-2.0	11.6	0.0	18.9	0.8	0.0	0.0	0.0	0.7	30.0	0.4%	10.6%
Private	0.0	7.7	54.8	16.8	5.6	12.5	59.5	71.0	23.3	251.1	3.8%	89.0%
State/Local	-8.0	-36.1	-8.5	7.8	-4.5	-1.1	20.5	12.2	18.7	0.9	0.0%	0.3%
All Owners	-9.9	-16.9	46.2	43.5	1.8	11.4	80.0	83.2	42.7	282.0	4.2%	100.0%
Zone Percent	-3.5%	-6.0%	16.4%	15.4%	0.6%	4.0%	28.4%	29.5%	15.1%	100.0%		
Lowland HW												
Federal	-5.9	1.0	0.0	11.1	-0.3	0.0	0.0	0.0	5.3	11.2	0.2%	7.7%
Private	-4.8	-5.3	1.6	5.3	23.3	2.9	9.6	54.8	25.3	112.8	1.7%	77.5%
State/Local	0.7	-1.6	2.2	-2.3	12.6	0.7	-2.6	3.4	8.6	21.6	0.3%	14.9%
All Owners	-10.0	-6.0	3.9	14.1	35.6	3.5	7.1	58.3	39.1	145.6	2.2%	100.0%
Zone Percent	-6.9%	-4.1%	2.6%	9.7%	24.4%	2.4%	4.8%	40.0%	26.9%	100.0%		
Pine												
Federal	61.4	1.6	2.3	133.7	3.8	0.0	0.0	6.4	124.2	333.4	5.0%	24.4%
Private	3.1	11.5	17.3	33.2	41.3	4.9	57.7	104.1	196.8	469.9	7.0%	34.4%
State/Local	0.7	43.4	59.6	2.6	17.3	2.1	46.5	127.0	263.9	563.2	8.4%	41.2%
All Owners	65.2	56.5	79.3	169.5	62.4	6.9	104.2	237.5	585.0	1,366.4	20.4%	100.0%
Zone Percent	4.8%	4.1%	5.8%	12.4%	4.6%	0.5%	7.6%	17.4%	42.8%	100.0%		
Upland SW												
Federal	6.8	2.6	0.3	39.6	-0.6	0.0	0.0	0.0	12.5	61.2	0.9%	14.2%
Private	48.9	20.7	13.7	19.3	51.5	5.8	16.9	37.3	37.6	251.8	3.8%	58.3%
State/Local	7.9	34.1	29.9	2.3	20.4	2.9	-2.9	9.2	15.0	118.8	1.8%	27.5%
All Owners	63.6	57.5	43.9	61.2	71.4	8.7	14.0	46.5	65.0	431.7	6.5%	100.0%
Zone Percent	14.7%	13.3%	10.2%	14.2%	16.5%	2.0%	3.2%	10.8%	15.1%	100.0%		
Lowland SW												
Federal	35.7	6.8	3.6	52.5	8.0	0.0	0.0	0.0	4.0	110.5	1.7%	15.9%
Private	52.2	22.4	43.2	16.4	134.9	12.9	16.7	42.8	36.0	377.5	5.6%	54.1%
State/Local	10.1	54.5	28.5	11.7	41.3	8.7	6.8	18.3	29.4	209.2	3.1%	30.0%
All Owners	97.9	83.7	75.2	80.7	184.1	21.6	23.5	61.0	69.4	697.2	10.4%	100.0%
Zone Percent	14.0%	12.0%	10.8%	11.6%	26.4%	3.1%	3.4%	8.8%	10.0%	100.0%		

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	Total	Total	Group
	Thousand Green Tons										Percent	
Hardwoods												
Federal	73.4	20.3	4.0	158.8	11.6	0.0	0.0	15.3	184.2	467.6	7.0%	11.2%
Private	79.1	142.4	210.6	98.9	245.6	72.2	452.4	684.3	725.2	2,710.7	40.6%	64.7%
State/Local	14.2	6.0	22.1	50.6	86.6	10.8	175.0	292.3	351.9	1,009.6	15.1%	24.1%
All Owners	166.8	168.7	236.7	308.3	343.8	83.0	627.4	991.9	1,261.4	4,187.8	62.7%	100.0%
Zone Percent	4.0%	4.0%	5.7%	7.4%	8.2%	2.0%	15.0%	23.7%	30.1%	100.0%		
Softwoods												
Federal	103.9	11.0	6.1	225.8	11.2	0.0	0.0	6.4	140.7	505.1	7.6%	20.2%
Private	104.1	54.6	74.2	69.0	227.7	23.6	91.3	184.2	270.5	1,099.2	16.4%	44.0%
State/Local	18.7	132.1	118.1	16.6	79.0	13.7	50.4	154.4	308.3	891.1	13.3%	35.7%
All Owners	226.7	197.7	198.4	311.4	317.9	37.2	141.7	345.0	719.4	2,495.4	37.3%	100.0%
Zone Percent	9.1%	7.9%	8.0%	12.5%	12.7%	1.5%	5.7%	13.8%	28.8%	100.0%		
All Species												
Federal	177.3	31.3	10.1	384.6	22.9	0.0	0.0	21.6	324.9	972.6	14.6%	14.6%
Private	183.3	197.0	284.8	167.9	473.2	95.7	543.7	868.5	995.7	3,809.9	57.0%	57.0%
State/Local	32.9	138.1	140.2	67.2	165.6	24.5	225.3	446.7	660.2	1,900.7	28.4%	28.4%
All Owners	393.5	366.4	435.1	619.6	661.7	120.2	769.0	1,336.9	1,980.8	6,683.2	100.0%	100.0%
Zone Percent	5.9%	5.5%	6.5%	9.3%	9.9%	1.8%	11.5%	20.0%	29.6%	100.0%		

Table A19. Net Annual Growth of Growing Stock on Timberland, Thousand Dry Tons.

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	Total	Total	Group
	Thousand Dry Tons										Percent	
Aspen												
Federal	18.3	1.1	0.5	11.0	2.1	0.0	0.0	-1.5	46.3	77.8	2.1%	15.4%
Private	14.0	9.2	7.0	-9.2	23.2	10.1	56.4	72.4	88.6	271.9	7.2%	53.8%
State/Local	4.3	7.6	-0.3	1.9	6.0	1.5	28.3	63.6	42.5	155.4	4.1%	30.8%
All Owners	36.6	17.9	7.3	3.7	31.3	11.7	84.7	134.5	177.4	505.1	13.3%	100.0%
Zone Percent	7.2%	3.6%	1.4%	0.7%	6.2%	2.3%	16.8%	26.6%	35.1%	100.0%		
Maple												
Federal	24.4	3.2	1.7	62.7	4.0	0.0	0.0	0.9	16.0	112.9	3.0%	9.0%
Private	28.4	72.6	85.5	57.6	90.2	20.9	126.8	187.5	182.1	851.8	22.5%	68.2%
State/Local	6.5	22.9	17.8	21.2	34.1	4.3	49.9	54.2	73.5	284.5	7.5%	22.8%
All Owners	59.4	98.7	105.1	141.5	128.3	25.2	176.7	242.5	271.7	1,249.2	33.0%	100.0%
Zone Percent	4.8%	7.9%	8.4%	11.3%	10.3%	2.0%	14.1%	19.4%	21.7%	100.0%		
Oak												
Federal	1.1	0.0	0.0	1.8	0.0	0.0	0.0	9.8	32.5	45.1	1.2%	12.3%
Private	3.4	0.8	0.1	0.7	10.5	0.4	31.9	54.3	108.4	210.4	5.6%	57.5%
State/Local	0.6	-5.9	0.1	3.4	5.7	0.4	9.7	31.2	65.3	110.5	2.9%	30.2%
All Owners	5.1	-5.1	0.2	5.8	16.2	0.8	41.6	95.2	206.2	366.0	9.7%	100.0%
Zone Percent	1.4%	-1.4%	0.1%	1.6%	4.4%	0.2%	11.4%	26.0%	56.3%	100.0%		
Upland HW												
Federal	-1.2	7.2	0.0	11.9	0.5	0.0	0.0	0.0	0.8	19.2	0.5%	10.9%
Private	0.1	4.5	33.8	10.6	2.7	7.4	37.4	43.0	15.5	154.9	4.1%	88.3%
State/Local	-4.7	-22.6	-5.1	4.9	-3.3	-0.6	12.5	7.8	12.3	1.3	0.0%	0.8%
All Owners	-5.8	-10.9	28.7	27.3	-0.1	6.8	49.9	50.8	28.7	175.4	4.6%	100.0%
Zone Percent	-3.3%	-6.2%	16.4%	15.6%	-0.1%	3.9%	28.5%	28.9%	16.3%	100.0%		
Lowland HW												
Federal	-2.9	0.5	0.0	5.9	-0.2	0.0	0.0	0.0	3.4	6.8	0.2%	8.2%
Private	-2.2	-2.6	1.0	3.0	12.6	1.4	5.3	30.4	14.6	63.5	1.7%	76.6%
State/Local	0.5	-0.7	1.2	-1.2	6.6	0.4	-1.1	2.0	4.9	12.6	0.3%	15.2%
All Owners	-4.6	-2.8	2.2	7.6	19.0	1.8	4.3	32.4	23.0	82.9	2.2%	100.0%
Zone Percent	-5.6%	-3.4%	2.6%	9.2%	23.0%	2.2%	5.2%	39.0%	27.7%	100.0%		
Pine												
Federal	36.9	0.8	1.4	79.4	2.4	0.0	0.0	3.2	73.1	197.3	5.2%	24.4%
Private	2.1	6.9	10.3	19.0	24.6	2.9	34.0	62.5	117.7	280.1	7.4%	34.6%
State/Local	0.6	25.3	35.2	1.3	10.3	1.2	28.8	74.9	154.6	332.4	8.8%	41.0%
All Owners	39.7	33.1	46.9	99.8	37.4	4.2	62.8	140.6	345.5	809.9	21.4%	100.0%
Zone Percent	4.9%	4.1%	5.8%	12.3%	4.6%	0.5%	7.8%	17.4%	42.7%	100.0%		
Upland SW												
Federal	3.9	1.4	0.1	20.9	0.0	0.0	0.0	0.0	7.2	33.4	0.9%	14.5%
Private	25.5	11.0	8.1	9.6	27.1	3.1	10.0	20.0	21.7	136.0	3.6%	58.8%
State/Local	4.2	18.6	14.6	1.2	10.6	1.7	-1.2	5.0	7.2	61.8	1.6%	26.7%
All Owners	33.6	30.9	22.8	31.7	37.6	4.7	8.8	25.0	36.1	231.2	6.1%	100.0%
Zone Percent	14.5%	13.4%	9.8%	13.7%	16.3%	2.0%	3.8%	10.8%	15.6%	100.0%		

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	Total	Total	Group
	Thousand Dry Tons										Percent	
Lowland SW												
Federal	17.5	3.6	2.2	27.9	4.1	0.0	0.0	0.0	2.6	57.9	1.5%	15.6%
Private	28.0	12.2	23.1	8.8	70.3	6.8	7.7	23.0	19.6	199.5	5.3%	53.9%
State/Local	5.0	28.9	15.7	6.7	22.4	4.6	3.8	9.9	16.0	112.9	3.0%	30.5%
All Owners	50.5	44.6	40.9	43.4	96.8	11.4	11.5	32.9	38.2	370.3	9.8%	100.0%
Zone Percent	13.6%	12.1%	11.1%	11.7%	26.1%	3.1%	3.1%	8.9%	10.3%	100.0%		
Hardwoods												
Federal	39.7	12.0	2.2	93.2	6.4	0.0	0.0	9.2	99.1	261.8	6.9%	11.0%
Private	43.7	84.6	127.4	62.7	139.2	40.3	257.8	387.5	409.3	1,552.5	41.0%	65.3%
State/Local	7.3	1.3	13.8	30.1	49.1	6.0	99.4	158.7	198.5	564.3	14.9%	23.7%
All Owners	90.7	97.9	143.4	186.0	194.7	46.3	357.2	555.4	706.9	2,378.6	62.8%	100.0%
Zone Percent	3.8%	4.1%	6.0%	7.8%	8.2%	1.9%	15.0%	23.3%	29.7%	100.0%		
Softwoods												
Federal	58.3	5.8	3.7	128.3	6.5	0.0	0.0	3.2	82.9	288.7	7.6%	20.5%
Private	55.7	30.1	41.4	37.4	122.0	12.8	51.7	105.5	159.0	615.6	16.2%	43.6%
State/Local	9.7	72.8	65.5	9.2	43.3	7.5	31.4	89.8	177.9	507.1	13.4%	35.9%
All Owners	123.7	108.6	110.6	174.9	171.7	20.3	83.1	198.5	419.8	1,411.4	37.2%	100.0%
Zone Percent	8.8%	7.7%	7.8%	12.4%	12.2%	1.4%	5.9%	14.1%	29.7%	100.0%		
All Species												
Federal	98.0	17.7	6.0	221.5	12.8	0.0	0.0	12.4	182.0	550.5	14.5%	14.5%
Private	99.4	114.7	168.8	100.1	261.2	53.2	309.5	492.9	568.3	2,168.1	57.2%	57.2%
State/Local	17.0	74.1	79.3	39.3	92.4	13.5	130.8	248.5	376.4	1,071.3	28.3%	28.3%
All Owners	214.4	206.5	254.1	360.9	366.5	66.7	440.3	753.9	1,126.7	3,789.9	100.0%	100.0%
Zone Percent	5.7%	5.4%	6.7%	9.5%	9.7%	1.8%	11.6%	19.9%	29.7%	100.0%		

Annual Removals

Table A20. Annual Removals of Growing Stock From All Sources on Timberland.

Owner	UP	UP	UP	UP	UP	NLP	NLP	NLP	NLP	Total	Total	Group
	30	60	90	120	150	60	90	120	150			
Million Cubic Feet											Percent	
Aspen												
Federal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.2%	1.1%
Private	1.9	0.2	1.3	0.8	1.5	0.0	1.2	3.7	4.3	15.0	10.4%	61.5%
State/Local	0.2	0.8	0.0	0.2	2.0	0.0	1.9	1.1	3.0	9.1	6.3%	37.4%
All Owners	2.1	0.9	1.3	1.0	3.5	0.0	3.1	4.7	7.6	24.3	17.0%	100.0%
Zone Percent	8.6%	3.8%	5.2%	4.1%	14.5%	0.1%	12.9%	19.4%	31.4%	100.0%		
Maple												
Federal	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.1	0.4	0.3%	1.2%
Private	2.8	3.3	2.4	1.7	6.7	0.1	3.6	3.1	6.4	30.2	21.0%	80.9%
State/Local	0.2	1.3	0.3	0.8	0.8	0.4	1.0	0.6	1.3	6.7	4.6%	17.9%
All Owners	3.0	4.6	2.7	2.7	7.6	0.5	4.6	3.7	7.9	37.3	25.9%	100.0%
Zone Percent	8.1%	12.3%	7.2%	7.4%	20.4%	1.4%	12.3%	9.9%	21.1%	100.0%		
Oak												
Federal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.1%	2.5%
Private	0.1	0.0	0.0	0.0	0.6	0.0	0.4	0.8	2.0	3.7	2.6%	61.3%
State/Local	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.1	2.2	1.5%	36.2%
All Owners	0.1	0.0	0.0	0.0	0.6	0.0	0.4	0.8	4.2	6.1	4.2%	100.0%
Zone Percent	1.0%	0.0%	0.0%	0.0%	9.6%	0.0%	5.9%	13.9%	69.7%	100.0%		
Upland HW												
Federal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%	0.2%
Private	0.3	1.9	3.1	1.9	1.5	0.0	1.6	2.3	2.4	14.9	10.4%	76.5%
State/Local	0.1	1.3	0.3	0.4	1.1	0.0	0.5	0.3	0.5	4.5	3.2%	23.3%
All Owners	0.4	3.2	3.4	2.3	2.6	0.0	2.1	2.6	2.9	19.5	13.6%	100.0%
Zone Percent	2.3%	16.4%	17.5%	11.6%	13.2%	0.1%	10.9%	13.3%	14.6%	100.0%		
Lowland HW												
Federal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%	0.0%
Private	0.7	0.0	0.4	0.1	0.9	0.0	0.0	0.2	0.1	2.4	1.7%	96.4%
State/Local	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1%	3.6%
All Owners	0.7	0.0	0.4	0.1	0.9	0.0	0.0	0.2	0.1	2.5	1.8%	100.0%
Zone Percent	28.5%	0.0%	17.1%	3.7%	37.5%	0.0%	0.6%	6.7%	5.9%	100.0%		
Pine												
Federal	3.1	0.0	0.0	2.8	0.9	0.0	0.0	0.0	1.0	7.9	5.5%	22.9%
Private	0.0	0.0	0.3	0.0	0.5	0.0	0.6	0.9	6.1	8.5	5.9%	24.6%
State/Local	0.0	1.9	1.7	0.1	0.6	0.0	0.9	7.4	5.6	18.1	12.6%	52.5%
All Owners	3.1	1.9	2.0	2.9	2.0	0.0	1.6	8.2	12.7	34.5	24.0%	100.0%
Zone Percent	9.1%	5.6%	5.8%	8.4%	5.8%	0.0%	4.5%	23.9%	36.9%	100.0%		
Upland SW												
Federal	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.1	0.2	0.2%	1.8%
Private	2.2	1.5	2.4	0.9	1.8	0.0	0.0	1.2	0.2	10.3	7.2%	85.6%
State/Local	0.5	0.3	0.1	0.2	0.2	0.0	0.0	0.1	0.1	1.5	1.1%	12.6%
All Owners	2.7	1.8	2.6	1.3	2.0	0.0	0.1	1.3	0.4	12.0	8.4%	100.0%
Zone Percent	22.3%	14.9%	21.4%	10.8%	16.4%	0.0%	0.5%	10.6%	3.0%	100.0%		
Lowland SW												
Federal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%	0.6%
Private	0.8	0.4	0.2	0.0	3.4	0.0	0.5	0.9	0.3	6.5	4.5%	88.0%
State/Local	0.2	0.3	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.8	0.6%	11.4%
All Owners	0.9	0.7	0.2	0.1	3.8	0.0	0.5	0.9	0.3	7.3	5.1%	100.0%
Zone Percent	12.9%	9.8%	3.0%	1.1%	51.8%	0.0%	6.3%	11.7%	3.5%	100.0%		

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	Total	Total	Group
	Million Cubic Feet										Percent	
Hardwoods												
Federal	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.6	0.9	0.6%	1.0%
Private	5.8	5.3	7.2	4.5	11.3	0.1	6.8	10.0	15.2	66.2	46.1%	73.8%
State/Local	0.5	3.4	0.6	1.3	3.9	0.4	3.4	2.0	7.0	22.6	15.8%	25.2%
All Owners	6.3	8.7	7.8	6.1	15.2	0.5	10.2	12.0	22.8	89.7	62.5%	100.0%
Zone Percent	7.1%	9.7%	8.7%	6.8%	17.0%	0.6%	11.4%	13.4%	25.4%	100.0%		
Softwoods												
Federal	3.1	0.0	0.0	3.0	0.9	0.0	0.0	0.0	1.1	8.2	5.7%	15.1%
Private	3.0	2.0	3.0	1.0	5.7	0.0	1.1	2.9	6.6	25.2	17.6%	46.9%
State/Local	0.6	2.5	1.8	0.3	1.2	0.0	1.0	7.5	5.6	20.5	14.3%	38.0%
All Owners	6.8	4.4	4.8	4.3	7.8	0.0	2.1	10.4	13.3	53.9	37.5%	100.0%
Zone Percent	12.6%	8.2%	8.9%	8.0%	14.4%	0.0%	3.9%	19.3%	24.8%	100.0%		
All Species												
Federal	3.1	0.0	0.0	3.3	0.9	0.0	0.0	0.0	1.7	9.0	6.3%	6.3%
Private	8.8	7.3	10.2	5.5	17.0	0.1	7.9	12.9	21.9	91.5	63.7%	63.7%
State/Local	1.2	5.9	2.4	1.6	5.1	0.4	4.4	9.5	12.6	43.1	30.0%	30.0%
All Owners	13.1	13.1	12.6	10.4	23.0	0.5	12.3	22.4	36.1	143.6	100.0%	100.0%
Zone Percent	9.1%	9.2%	8.8%	7.2%	16.0%	0.4%	8.6%	15.6%	25.1%	100.0%		

Table A21. Annual Removals of Growing Stock From All Sources on Timberland.

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	Total	Total	Group
	Thousand green tons										Percent	
Aspen												
Federal	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	6.4	6.6	0.2%	1.1%
Private	50.2	4.2	33.1	21.0	39.1	0.6	30.5	93.2	107.6	379.4	10.7%	62.7%
State/Local	3.8	19.1	0.0	4.4	47.6	0.0	46.0	25.7	72.2	218.9	6.2%	36.2%
All Owners	54.0	23.3	33.1	25.7	86.6	0.6	76.5	118.9	186.2	604.9	17.0%	100.0%
Zone Percent	8.9%	3.9%	5.5%	4.2%	14.3%	0.1%	12.6%	19.7%	30.8%	100.0%		
Maple												
Federal	0.0	0.0	0.0	6.5	1.0	0.0	0.0	0.0	3.7	11.3	0.3%	1.1%
Private	78.6	88.7	65.0	46.2	182.0	2.6	99.0	84.8	175.9	822.6	23.1%	81.0%
State/Local	5.1	36.2	6.5	20.5	22.5	11.4	27.6	16.6	35.9	182.2	5.1%	17.9%
All Owners	83.7	124.8	71.5	73.2	205.5	14.0	126.5	101.4	215.5	1,016.1	28.6%	100.0%
Zone Percent	8.2%	12.3%	7.0%	7.2%	20.2%	1.4%	12.5%	10.0%	21.2%	100.0%		
Oak												
Federal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	5.0	0.1%	2.5%
Private	2.0	0.0	0.0	0.0	19.7	0.0	11.4	25.8	65.7	124.7	3.5%	61.5%
State/Local	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	70.6	73.0	2.1%	36.0%
All Owners	2.0	0.0	0.0	0.0	19.7	0.0	11.4	28.2	141.3	202.6	5.7%	100.0%
Zone Percent	1.0%	0.0%	0.0%	0.0%	9.7%	0.0%	5.6%	13.9%	69.7%	100.0%		
Upland HW												
Federal	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.5	1.1	0.0%	0.2%
Private	8.3	48.7	86.5	51.8	41.5	0.0	39.4	56.1	62.1	394.5	11.1%	77.3%
State/Local	3.4	36.1	8.9	8.7	25.3	0.5	13.5	7.3	11.2	114.7	3.2%	22.5%
All Owners	11.7	84.8	95.4	61.0	66.8	0.5	52.9	63.4	73.8	510.3	14.3%	100.0%
Zone Percent	2.3%	16.6%	18.7%	12.0%	13.1%	0.1%	10.4%	12.4%	14.5%	100.0%		
Lowland HW												
Federal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%	0.0%
Private	15.2	0.0	8.8	2.4	21.2	0.0	0.0	4.4	3.0	55.0	1.5%	96.1%
State/Local	0.7	0.0	0.9	0.0	0.0	0.0	0.4	0.0	0.3	2.2	0.1%	3.9%
All Owners	15.9	0.0	9.6	2.4	21.2	0.0	0.4	4.4	3.3	57.3	1.6%	100.0%
Zone Percent	27.7%	0.0%	16.8%	4.2%	37.0%	0.0%	0.7%	7.7%	5.8%	100.0%		
Pine												
Federal	75.1	0.0	0.0	70.4	21.9	0.0	0.0	0.0	23.1	190.6	5.4%	24.8%
Private	0.0	0.0	6.5	0.0	10.8	0.0	12.9	18.3	124.3	172.8	4.9%	22.5%
State/Local	0.0	46.4	33.2	1.9	14.7	0.0	19.2	164.3	125.6	405.2	11.4%	52.7%
All Owners	75.1	46.4	39.7	72.3	47.5	0.0	32.1	182.5	273.1	768.6	21.6%	100.0%
Zone Percent	9.8%	6.0%	5.2%	9.4%	6.2%	0.0%	4.2%	23.7%	35.5%	100.0%		
Upland SW												
Federal	0.0	0.0	0.0	4.2	0.0	0.0	0.0	0.0	1.2	5.4	0.2%	2.1%
Private	44.4	34.9	50.5	22.6	37.7	0.0	0.4	24.0	5.5	219.9	6.2%	85.5%
State/Local	9.7	6.6	3.1	4.8	3.5	0.0	1.0	1.6	1.4	31.8	0.9%	12.4%
All Owners	54.1	41.4	53.5	31.6	41.3	0.0	1.4	25.7	8.1	257.1	7.2%	100.0%
Zone Percent	21.0%	16.1%	20.8%	12.3%	16.1%	0.0%	0.5%	10.0%	3.2%	100.0%		

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	Total	Total	Group
	Thousand green tons										Percent	
Lowland SW												
Federal	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.9	0.0%	0.6%
Private	15.1	8.3	4.0	0.6	64.8	0.0	9.1	16.2	4.8	122.9	3.5%	88.1%
State/Local	2.9	5.0	0.2	0.0	7.7	0.0	0.0	0.0	0.0	15.8	0.4%	11.3%
All Owners	18.0	13.3	4.2	1.5	72.5	0.0	9.1	16.2	4.8	139.5	3.9%	100.0%
Zone Percent	12.9%	9.5%	3.0%	1.1%	51.9%	0.0%	6.5%	11.6%	3.5%	100.0%		
Hardwoods												
Federal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7%	1.0%
Private	0.2	0.1	0.2	0.1	0.3	0.0	0.2	0.3	0.4	1.8	49.9%	74.3%
State/Local	0.0	0.1	0.0	0.0	0.1	0.0	0.1	0.1	0.2	0.6	16.6%	24.7%
All Owners	0.2	0.2	0.2	0.2	0.4	0.0	0.3	0.3	0.6	2.4	67.2%	100.0%
Zone Percent	7.0%	9.7%	8.8%	6.8%	16.7%	0.6%	11.2%	13.2%	25.9%	100.0%		
Softwoods												
Federal	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	5.5%	16.9%
Private	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.1	0.1	0.5	14.5%	44.2%
State/Local	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.5	12.7%	38.9%
All Owners	0.1	0.1	0.1	0.1	0.2	0.0	0.0	0.2	0.3	1.2	32.8%	100.0%
Zone Percent	12.6%	8.7%	8.4%	9.0%	13.8%	0.0%	3.7%	19.3%	24.5%	100.0%		
All Species												
Federal	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	6.2%	6.2%
Private	0.2	0.2	0.3	0.1	0.4	0.0	0.2	0.3	0.5	2.3	64.4%	64.4%
State/Local	0.0	0.1	0.1	0.0	0.1	0.0	0.1	0.2	0.3	1.0	29.4%	29.4%
All Owners	0.3	0.3	0.3	0.3	0.6	0.0	0.3	0.5	0.9	3.6	100.0%	100.0%
Zone Percent	8.8%	9.4%	8.6%	7.5%	15.8%	0.4%	8.7%	15.2%	25.5%	100.0%		

Table A22. Annual Removals of Growing Stock From All Sources on Timberland.

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	Total	Total	Group
	Thousand dry tons										Percent	
Aspen												
Federal	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	3.1	3.2	0.2%	1.1%
Private	22.7	1.9	14.8	9.4	17.5	0.3	15.0	43.2	51.7	176.3	8.8%	60.9%
State/Local	1.8	9.0	0.0	2.0	24.7	0.0	22.9	12.7	37.1	110.1	5.5%	38.0%
All Owners	24.4	10.9	14.8	11.5	42.2	0.3	37.9	55.9	91.8	289.6	14.5%	100.0%
Zone Percent	8.4%	3.8%	5.1%	4.0%	14.6%	0.1%	13.1%	19.3%	31.7%	100.0%		
Maple												
Federal	0.0	0.0	0.0	3.9	0.6	0.0	0.0	0.0	2.3	6.8	0.3%	1.1%
Private	48.3	54.2	39.6	28.1	111.3	1.6	60.8	52.1	107.7	503.7	25.2%	81.0%
State/Local	3.1	22.2	4.0	12.5	13.7	7.0	16.9	10.1	22.0	111.6	5.6%	17.9%
All Owners	51.4	76.4	43.5	44.6	125.7	8.6	77.7	62.2	132.0	622.1	31.2%	100.0%
Zone Percent	8.3%	12.3%	7.0%	7.2%	20.2%	1.4%	12.5%	10.0%	21.2%	100.0%		
Oak												
Federal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7	0.1%	2.5%
Private	1.1	0.0	0.0	0.0	10.7	0.0	6.7	14.1	35.8	68.3	3.4%	61.3%
State/Local	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	39.0	40.3	2.0%	36.2%
All Owners	1.1	0.0	0.0	0.0	10.7	0.0	6.7	15.4	77.5	111.3	5.6%	100.0%
Zone Percent	1.0%	0.0%	0.0%	0.0%	9.6%	0.0%	6.0%	13.9%	69.6%	100.0%		
Upland HW												
Federal	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.3	0.6	0.0%	0.2%
Private	4.9	29.9	54.5	32.2	24.3	0.0	22.9	32.9	39.2	240.8	12.1%	77.7%
State/Local	2.0	22.0	5.6	5.0	14.6	0.2	7.8	4.3	6.8	68.3	3.4%	22.0%
All Owners	6.9	51.9	60.1	37.4	38.9	0.2	30.8	37.1	46.3	309.7	15.5%	100.0%
Zone Percent	2.2%	16.8%	19.4%	12.1%	12.6%	0.1%	9.9%	12.0%	14.9%	100.0%		
Lowland HW												
Federal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%	0.0%
Private	7.7	0.0	4.4	1.3	10.7	0.0	0.0	2.6	1.5	28.2	1.4%	95.8%
State/Local	0.3	0.0	0.5	0.0	0.0	0.0	0.2	0.0	0.2	1.2	0.1%	4.2%
All Owners	8.0	0.0	4.9	1.3	10.7	0.0	0.2	2.6	1.7	29.4	1.5%	100.0%
Zone Percent	27.3%	0.0%	16.5%	4.4%	36.3%	0.0%	0.8%	8.9%	5.8%	100.0%		
Pine												
Federal	38.9	0.0	0.0	35.4	11.0	0.0	0.0	0.0	12.8	98.2	4.9%	23.2%
Private	0.0	0.0	3.9	0.0	6.2	0.0	7.7	10.6	73.6	102.1	5.1%	24.1%
State/Local	0.0	23.9	19.7	1.0	7.9	0.0	11.3	90.9	68.4	223.1	11.2%	52.7%
All Owners	38.9	23.9	23.6	36.4	25.2	0.0	19.0	101.5	154.8	423.3	21.2%	100.0%
Zone Percent	9.2%	5.6%	5.6%	8.6%	5.9%	0.0%	4.5%	24.0%	36.6%	100.0%		
Upland SW												
Federal	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.6	2.6	0.1%	1.9%
Private	24.6	17.2	27.7	10.7	20.2	0.0	0.2	13.2	2.7	116.6	5.8%	85.8%
State/Local	5.5	3.0	1.5	2.4	2.1	0.0	0.5	1.1	0.7	16.6	0.8%	12.3%
All Owners	30.1	20.3	29.2	15.1	22.3	0.0	0.6	14.3	3.9	135.8	6.8%	100.0%
Zone Percent	22.2%	14.9%	21.5%	11.1%	16.4%	0.0%	0.5%	10.5%	2.9%	100.0%		

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	Total	Total	Group
	Thousand dry tons										Percent	
Lowland SW												
Federal	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.4	0.0%	0.6%
Private	7.7	5.4	2.4	0.4	33.8	0.0	4.9	8.4	2.4	65.5	3.3%	87.7%
State/Local	1.5	3.2	0.1	0.0	4.0	0.0	0.0	0.0	0.0	8.8	0.4%	11.7%
All Owners	9.2	8.6	2.5	0.8	37.8	0.0	4.9	8.4	2.4	74.7	3.7%	100.0%
Zone Percent	12.3%	11.6%	3.4%	1.1%	50.6%	0.0%	6.5%	11.2%	3.3%	100.0%		
Hardwoods												
Federal	0.0	0.0	0.0	4.4	0.6	0.0	0.0	0.0	8.4	13.4	0.7%	1.0%
Private	84.7	86.1	113.3	71.0	174.4	1.8	105.3	144.8	235.9	1,017.3	51.0%	74.7%
State/Local	7.2	53.1	10.1	19.5	53.0	7.2	47.9	28.4	105.0	331.5	16.6%	24.3%
All Owners	91.9	139.2	123.3	94.9	228.1	9.1	153.2	173.3	349.4	1,362.3	68.2%	100.0%
Zone Percent	6.7%	10.2%	9.1%	7.0%	16.7%	0.7%	11.2%	12.7%	25.6%	100.0%		
Softwoods												
Federal	38.9	0.0	0.0	37.9	11.0	0.0	0.0	0.0	13.4	101.2	5.1%	16.0%
Private	32.3	22.6	34.1	11.2	60.3	0.0	12.8	32.2	78.7	284.2	14.2%	44.8%
State/Local	7.0	30.2	21.3	3.3	13.9	0.0	11.8	92.0	69.1	248.5	12.4%	39.2%
All Owners	78.2	52.8	55.4	52.4	85.2	0.0	24.5	124.2	161.2	633.8	31.8%	100.0%
Zone Percent	12.3%	8.3%	8.7%	8.3%	13.4%	0.0%	3.9%	19.6%	25.4%	100.0%		
All Species												
Federal	38.9	0.0	0.0	42.2	11.6	0.0	0.0	0.0	21.8	114.6	5.7%	5.7%
Private	117.0	108.7	147.3	82.2	234.7	1.8	118.1	177.1	314.6	1,301.5	65.2%	65.2%
State/Local	14.2	83.3	31.4	22.8	66.9	7.2	59.6	120.4	174.1	580.0	29.1%	29.1%
All Owners	170.1	192.0	178.7	147.2	313.3	9.1	177.8	297.5	510.5	1,996.1	100.0%	100.0%
Zone Percent	8.5%	9.6%	9.0%	7.4%	15.7%	0.5%	8.9%	14.9%	25.6%	100.0%		

Biomass Components

Table A23. Biomass Dry Weight of the Wood Component of Growing Stock Volume.

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	All zones	All zones	Species Group
	Million Dry Tons										Percent	
Aspen												
Federal	0.3	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.8	1.6	1.2%	13.8%
Private	0.5	0.3	0.2	0.1	0.5	0.4	1.1	1.5	1.8	6.4	4.9%	55.2%
State/Local	0.1	0.5	0.2	0.0	0.1	0.1	0.5	1.0	0.8	3.6	2.7%	31.0%
All Owners	1.0	0.8	0.3	0.5	0.7	0.5	1.6	2.6	3.4	11.5	8.8%	100.0%
Zone Percent	8.6%	7.2%	2.8%	4.4%	5.8%	4.6%	14.3%	22.5%	29.9%	100.0%		
Maple												
Federal	1.3	0.2	0.0	2.7	0.5	0.0	0.0	0.0	0.6	5.4	4.1%	12.3%
Private	1.2	2.1	2.8	2.1	3.9	0.6	3.8	5.9	5.4	27.9	21.3%	63.4%
State/Local	0.2	1.9	0.9	1.1	1.3	0.1	1.8	1.6	1.8	10.7	8.2%	24.4%
All Owners	2.8	4.1	3.7	5.9	5.7	0.7	5.6	7.6	7.9	44.0	33.6%	100.0%
Zone Percent	6.4%	9.3%	8.3%	13.5%	13.1%	1.6%	12.7%	17.2%	17.9%	100.0%		
Oak												
Federal	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.3	1.0%	12.7%
Private	0.1	0.0	0.0	0.0	0.1	0.0	0.3	1.6	3.2	5.5	4.2%	52.9%
State/Local	0.0	0.0	0.0	0.1	0.2	0.0	0.4	0.9	2.0	3.6	2.7%	34.4%
All Owners	0.2	0.1	0.0	0.1	0.3	0.0	0.7	2.6	6.4	10.4	7.9%	100.0%
Zone Percent	1.6%	0.6%	0.1%	1.3%	2.7%	0.4%	6.8%	25.3%	61.3%	100.0%		
Upland HW												
Federal	0.4	0.1	0.0	1.3	0.2	0.0	0.0	0.0	0.3	2.2	1.7%	13.4%
Private	0.5	1.0	1.0	0.6	0.9	0.2	1.8	1.8	1.8	9.6	7.3%	58.8%
State/Local	0.1	0.8	0.5	0.3	0.3	0.1	1.2	0.6	0.6	4.5	3.5%	27.8%
All Owners	0.9	1.9	1.5	2.2	1.4	0.3	3.0	2.4	2.7	16.3	12.5%	100.0%
Zone Percent	5.8%	11.7%	9.1%	13.4%	8.6%	1.7%	18.5%	14.9%	16.3%	100.0%		
Lowland HW												
Federal	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.3	0.2%	9.3%
Private	0.3	0.0	0.2	0.1	0.4	0.1	0.2	0.5	0.6	2.3	1.8%	69.3%
State/Local	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.1	0.2	0.7	0.5%	21.4%
All Owners	0.4	0.1	0.2	0.2	0.5	0.1	0.3	0.6	0.9	3.4	2.6%	100.0%
Zone Percent	12.3%	3.8%	5.1%	5.4%	15.9%	3.1%	10.2%	16.8%	27.4%	100.0%		
Pine												
Federal	1.2	0.2	0.2	2.0	0.1	0.0	0.0	0.0	2.2	5.8	4.5%	27.2%
Private	0.1	0.3	0.3	0.4	0.5	0.1	0.6	1.8	2.5	6.5	5.0%	30.3%
State/Local	0.1	1.2	1.3	0.0	0.4	0.1	1.3	2.0	2.8	9.1	7.0%	42.5%
All Owners	1.4	1.7	1.8	2.5	1.0	0.1	1.9	3.8	7.4	21.5	16.4%	100.0%
Zone Percent	6.5%	7.7%	8.4%	11.5%	4.5%	0.6%	8.7%	17.7%	34.5%	100.0%		
Upland SW												
Federal	0.3	0.1	0.0	0.9	0.0	0.0	0.0	0.0	0.1	1.4	1.1%	18.1%
Private	0.5	0.5	0.6	0.4	0.9	0.1	0.4	0.5	0.5	4.3	3.3%	54.3%
State/Local	0.2	0.6	0.4	0.1	0.2	0.1	0.2	0.2	0.2	2.2	1.7%	27.6%
All Owners	1.0	1.1	1.0	1.4	1.2	0.2	0.6	0.6	0.8	8.0	6.1%	100.0%
Zone Percent	12.5%	14.0%	12.8%	17.8%	14.5%	2.8%	7.0%	8.1%	10.4%	100.0%		

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	All zones	All zones	Species Group
	Million Dry Tons										Percent	
Lowland SW												
Federal	1.1	0.2	0.1	0.7	0.2	0.0	0.0	0.0	0.3	2.5	1.9%	15.8%
Private	0.8	1.1	0.9	0.4	1.8	0.2	0.9	0.9	0.7	7.8	6.0%	49.0%
State/Local	0.3	1.5	0.8	0.4	0.8	0.2	0.4	0.5	0.8	5.6	4.3%	35.2%
All Owners	2.2	2.8	1.7	1.5	2.8	0.4	1.3	1.4	1.9	16.0	12.2%	100.0%
Zone Percent	13.5%	17.6%	10.8%	9.6%	17.6%	2.6%	8.0%	8.7%	11.7%	100.0%		
Hardwoods												
Federal	2.2	0.3	0.0	4.5	0.8	0.0	0.0	0.1	2.9	10.8	8.2%	12.6%
Private	2.6	3.4	4.1	2.9	5.9	1.2	7.3	11.4	12.8	51.6	39.4%	60.4%
State/Local	0.6	3.3	1.5	1.6	2.0	0.4	4.0	4.3	5.5	23.1	17.6%	27.0%
All Owners	5.3	7.0	5.6	9.0	8.6	1.6	11.3	15.8	21.3	85.5	65.3%	100.0%
Zone Percent	6.2%	8.2%	6.6%	10.5%	10.1%	1.9%	13.2%	18.4%	24.8%	100.0%		
Softwoods												
Federal	2.6	0.4	0.2	3.7	0.3	0.0	0.0	0.0	2.6	9.8	7.5%	21.6%
Private	1.4	1.9	1.8	1.2	3.2	0.4	1.9	3.1	3.7	18.7	14.2%	41.1%
State/Local	0.5	3.2	2.5	0.6	1.4	0.4	1.8	2.7	3.8	17.0	12.9%	37.3%
All Owners	4.5	5.6	4.5	5.4	4.9	0.8	3.7	5.8	10.1	45.4	34.7%	100.0%
Zone Percent	10.0%	12.3%	10.0%	12.0%	10.9%	1.7%	8.1%	12.8%	22.2%	100.0%		
All Species												
Federal	4.8	0.7	0.2	8.1	1.0	0.0	0.0	0.1	5.5	20.6	15.7%	15.7%
Private	4.0	5.3	5.9	4.1	9.1	1.6	9.2	14.5	16.5	70.3	53.7%	53.7%
State/Local	1.1	6.5	4.0	2.2	3.4	0.8	5.8	7.1	9.3	40.1	30.6%	30.6%
All Owners	9.9	12.6	10.2	14.4	13.6	2.4	15.0	21.6	31.4	131.0	100.0%	100.0%
Zone Percent	7.5%	9.6%	7.8%	11.0%	10.4%	1.8%	11.5%	16.5%	23.9%	100.0%		

Table A24. Biomass of All Live Trees on Timberland, by Zone, Owner and Species Groups.

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	Total	Total	Group
	Million Dry Tons										Percent	
Aspen												
Federal	0.85	0.06	0.01	1.07	0.09			0.02	2.02	4.11	1.4%	13.9%
Private	1.25	0.60	0.44	0.27	1.42	0.83	2.84	3.79	4.23	15.67	5.2%	53.0%
State/Local	0.33	1.37	0.44	0.17	0.41	0.37	1.49	2.85	2.36	9.80	3.3%	33.1%
All Owners	2.43	2.03	0.90	1.51	1.92	1.20	4.33	6.66	8.61	29.59	9.8%	100.0%
Percent	8.2%	6.9%	3.0%	5.1%	6.5%	4.1%	14.6%	22.5%	29.1%	100.0%		
Maple												
Federal	3.07	0.39	0.05	5.77	1.06			0.01	1.51	11.88	4.0%	12.0%
Private	2.83	4.84	6.23	4.66	8.76	1.43	8.79	13.23	11.81	62.58	20.8%	63.0%
State/Local	0.60	4.51	1.90	2.38	2.83	0.24	4.24	3.93	4.26	24.89	8.3%	25.1%
All Owners	6.51	9.74	8.19	12.81	12.64	1.68	13.04	17.17	17.58	99.35	33.1%	100.0%
Percent	6.6%	9.8%	8.2%	12.9%	12.7%	1.7%	13.1%	17.3%	17.7%	100.0%		
Oak												
Federal	0.20			0.10				0.10	2.79	3.18	1.1%	13.0%
Private	0.23	0.10	0.01	0.11	0.29	0.07	0.89	3.80	7.32	12.83	4.3%	52.2%
State/Local	0.02	0.06	0.01	0.15	0.33	0.02	0.84	2.36	4.74	8.55	2.8%	34.8%
All Owners	0.45	0.17	0.02	0.36	0.63	0.09	1.74	6.26	14.85	24.56	8.2%	100.0%
Percent	1.8%	0.7%	0.1%	1.5%	2.5%	0.4%	7.1%	25.5%	60.4%	100.0%		
Upland HW												
Federal	0.92	0.29	0.01	2.79	0.33			0.00	0.64	4.99	1.7%	12.6%
Private	1.19	2.42	2.50	1.42	2.26	0.43	4.14	4.67	4.62	23.66	7.9%	59.7%
State/Local	0.28	1.93	1.25	0.75	0.72	0.24	2.50	1.75	1.55	10.97	3.6%	27.7%
All Owners	2.39	4.65	3.75	4.96	3.31	0.67	6.64	6.42	6.81	39.61	13.2%	100.0%
Percent	6.0%	11.7%	9.5%	12.5%	8.4%	1.7%	16.8%	16.2%	17.2%	100.0%		
Lowland HW												
Federal	0.25	0.01	0.00	0.20	0.09				0.31	0.85	0.3%	8.0%
Private	0.78	0.22	0.43	0.35	1.28	0.32	0.69	1.40	1.88	7.33	2.4%	68.8%
State/Local	0.23	0.28	0.10	0.11	0.34	0.08	0.43	0.33	0.58	2.47	0.8%	23.1%
All Owners	1.26	0.50	0.53	0.66	1.70	0.39	1.12	1.73	2.77	10.66	3.5%	100.0%
Percent	11.8%	4.7%	5.0%	6.2%	16.0%	3.7%	10.5%	16.2%	26.0%	100.0%		
Pine												
Federal	2.22	0.31	0.28	3.68	0.14			0.02	4.08	10.73	3.6%	26.8%
Private	0.17	0.53	0.63	0.85	0.97	0.15	1.11	3.26	4.74	12.39	4.1%	30.9%
State/Local	0.17	2.28	2.53	0.09	0.70	0.09	2.22	3.78	5.09	16.95	5.6%	42.3%
All Owners	2.56	3.12	3.43	4.62	1.81	0.24	3.33	7.06	13.90	40.08	13.3%	100.0%
Percent	6.4%	7.8%	8.6%	11.5%	4.5%	0.6%	8.3%	17.6%	34.7%	100.0%		
Upland SW												
Federal	0.76	0.13	0.02	2.01	0.09				0.34	3.34	1.1%	16.9%
Private	1.30	1.33	1.48	0.92	2.21	0.26	1.01	1.11	1.16	10.78	3.6%	54.5%
State/Local	0.42	1.47	0.93	0.34	0.62	0.26	0.41	0.49	0.71	5.66	1.9%	28.6%
All Owners	2.48	2.93	2.44	3.26	2.93	0.52	1.42	1.61	2.20	19.78	6.6%	100.0%
Percent	12.5%	14.8%	12.3%	16.5%	14.8%	2.6%	7.2%	8.1%	11.1%	100.0%		
Lowland SW												
Federal	2.42	0.51	0.12	1.75	0.36				0.63	5.79	1.9%	15.7%
Private	1.77	2.61	2.13	0.98	4.26	0.48	2.05	2.15	1.74	18.17	6.0%	49.3%
State/Local	0.61	3.31	1.82	0.89	1.92	0.52	0.83	1.15	1.86	12.93	4.3%	35.0%
All Owners	4.80	6.43	4.08	3.62	6.54	1.00	2.88	3.31	4.24	36.89	12.3%	100.0%
Percent	13.0%	17.4%	11.0%	9.8%	17.7%	2.7%	7.8%	9.0%	11.5%	100.0%		

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	Total	Total	Group
	Million Dry Tons										Percent	
Hardwoods												
Federal	5.29	0.75	0.08	9.93	1.57	0.00	0.00	0.13	7.27	25.01	8.3%	12.3%
Private	6.28	8.18	9.61	6.81	14.01	3.08	17.36	26.89	29.85	122.07	40.6%	59.9%
State/Local	1.47	8.16	3.70	3.57	4.62	0.95	9.51	11.22	13.49	56.68	18.9%	27.8%
All Owners	13.04	17.09	13.39	20.31	20.20	4.03	26.86	38.24	50.61	203.77	67.8%	100.0%
Percent	6.4%	8.4%	6.6%	10.0%	9.9%	2.0%	13.2%	18.8%	24.8%	100.0%		
Softwoods												
Federal	5.40	0.95	0.43	7.43	0.59	0.00	0.00	0.02	5.05	19.86	6.6%	20.5%
Private	3.23	4.47	4.24	2.75	7.45	0.88	4.17	6.52	7.63	41.35	13.8%	42.7%
State/Local	1.21	7.05	5.28	1.33	3.25	0.88	3.46	5.43	7.66	35.54	11.8%	36.7%
All Owners	9.84	12.47	9.95	11.51	11.28	1.76	7.63	11.97	20.34	96.75	32.2%	100.0%
Percent	10.2%	12.9%	10.3%	11.9%	11.7%	1.8%	7.9%	12.4%	21.0%	100.0%		
All Species												
Federal	10.69	1.70	0.51	17.36	2.15	0.00	0.00	0.15	12.32	44.88	14.9%	14.9%
Private	9.51	12.66	13.85	9.56	21.46	3.96	21.52	33.42	37.49	163.42	54.4%	54.4%
State/Local	2.68	15.21	8.98	4.90	7.87	1.82	12.97	16.65	21.15	92.22	30.7%	30.7%
All Owners	22.88	29.56	23.34	31.81	31.47	5.79	34.49	50.21	70.96	300.52	100.0%	100.0%
Percent	7.6%	9.8%	7.8%	10.6%	10.5%	1.9%	11.5%	16.7%	23.6%	100.0%		

Table A25. Biomass for Tops and Limbs of All Live Trees on Timberland, by Zone, Owner and Species Groups.

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	Total	Total	Group
	Million Dry Tons										Percent	
Aspen												
Federal	0.16	0.01	0.00	0.18	0.02			0.00	0.40	0.77	1.5%	13.9%
Private	0.24	0.11	0.08	0.04	0.24	0.16	0.51	0.71	0.87	2.95	5.9%	53.4%
State/Local	0.06	0.25	0.07	0.02	0.07	0.07	0.27	0.56	0.44	1.81	3.6%	32.8%
All Owners	0.45	0.37	0.15	0.24	0.33	0.23	0.78	1.27	1.70	5.53	11.0%	100.0%
Percent	8.2%	6.7%	2.8%	4.3%	5.9%	4.1%	14.1%	23.0%	30.8%	100.0%		
Maple												
Federal	0.57	0.08	0.01	1.12	0.20			0.00	0.28	2.25	4.5%	11.9%
Private	0.56	0.93	1.20	0.88	1.71	0.27	1.70	2.58	2.25	12.07	24.1%	63.5%
State/Local	0.11	0.82	0.37	0.47	0.55	0.05	0.79	0.73	0.79	4.67	9.3%	24.6%
All Owners	1.24	1.83	1.57	2.47	2.45	0.32	2.49	3.31	3.31	19.00	37.9%	100.0%
Percent	6.5%	9.6%	8.3%	13.0%	12.9%	1.7%	13.1%	17.5%	17.4%	100.0%		
Oak												
Federal	0.04			0.02				0.02	0.52	0.60	1.2%	13.1%
Private	0.04	0.02	0.00	0.02	0.06	0.01	0.16	0.70	1.38	2.39	4.8%	52.8%
State/Local	0.01	0.01	0.00	0.03	0.06	0.00	0.16	0.42	0.86	1.55	3.1%	34.1%
All Owners	0.08	0.03	0.00	0.07	0.12	0.01	0.32	1.15	2.75	4.54	9.0%	100.0%
Percent	1.8%	0.7%	0.1%	1.6%	2.6%	0.3%	7.0%	25.3%	60.6%	100.0%		
Upland HW												
Federal	0.18	0.05	0.00	0.51	0.06			0.00	0.12	0.92	1.8%	12.7%
Private	0.22	0.45	0.45	0.27	0.42	0.08	0.75	0.85	0.83	4.32	8.6%	59.6%
State/Local	0.06	0.36	0.24	0.14	0.13	0.05	0.45	0.31	0.28	2.01	4.0%	27.7%
All Owners	0.46	0.86	0.69	0.92	0.61	0.13	1.20	1.16	1.23	7.25	14.5%	100.0%
Percent	6.3%	11.9%	9.5%	12.6%	8.4%	1.7%	16.6%	16.0%	16.9%	100.0%		
Lowland HW												
Federal	0.05	0.00	0.00	0.04	0.02				0.06	0.17	0.3%	9.2%
Private	0.14	0.03	0.08	0.06	0.23	0.05	0.11	0.25	0.32	1.26	2.5%	68.5%
State/Local	0.05	0.04	0.01	0.01	0.06	0.01	0.07	0.06	0.10	0.41	0.8%	22.2%
All Owners	0.23	0.07	0.09	0.11	0.31	0.06	0.18	0.31	0.48	1.84	3.7%	100.0%
Percent	12.7%	4.0%	4.9%	5.8%	16.9%	3.2%	9.9%	16.6%	25.9%	100.0%		
Pine												
Federal	0.30	0.04	0.04	0.50	0.02			0.00	0.55	1.46	2.9%	26.8%
Private	0.02	0.07	0.08	0.10	0.13	0.02	0.15	0.45	0.65	1.69	3.4%	31.0%
State/Local	0.02	0.31	0.35	0.01	0.09	0.01	0.31	0.51	0.69	2.31	4.6%	42.2%
All Owners	0.35	0.42	0.47	0.62	0.25	0.03	0.46	0.97	1.90	5.46	10.9%	100.0%
Percent	6.4%	7.7%	8.6%	11.4%	4.5%	0.6%	8.4%	17.7%	34.7%	100.0%		
Upland SW												
Federal	0.08	0.01	0.00	0.23	0.01				0.03	0.37	0.7%	17.6%
Private	0.14	0.13	0.17	0.10	0.23	0.03	0.10	0.12	0.12	1.14	2.3%	54.6%
State/Local	0.04	0.15	0.11	0.04	0.06	0.03	0.04	0.05	0.06	0.58	1.2%	27.8%
All Owners	0.25	0.30	0.27	0.37	0.30	0.06	0.14	0.17	0.22	2.09	4.2%	100.0%
Percent	12.1%	14.2%	13.1%	18.0%	14.4%	2.7%	6.9%	8.1%	10.4%	100.0%		
Lowland SW												
Federal	0.30	0.06	0.01	0.20	0.05				0.08	0.69	1.4%	15.6%
Private	0.22	0.31	0.25	0.12	0.53	0.06	0.25	0.25	0.21	2.20	4.4%	49.3%
State/Local	0.08	0.41	0.21	0.11	0.22	0.06	0.10	0.15	0.24	1.57	3.1%	35.1%
All Owners	0.59	0.78	0.48	0.43	0.79	0.12	0.35	0.40	0.53	4.46	8.9%	100.0%
Percent	13.3%	17.5%	10.7%	9.6%	17.7%	2.7%	7.8%	8.9%	11.9%	100.0%		

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	Total	Total	Group
	Million Dry Tons										Percent	
Hardwoods												
Federal	0.99	0.15	0.02	1.87	0.29	0.00	0.00	0.03	1.37	4.71	9.4%	12.3%
Private	1.20	1.53	1.81	1.27	2.65	0.57	3.23	5.09	5.64	23.00	45.8%	60.3%
State/Local	0.28	1.49	0.69	0.67	0.87	0.17	1.74	2.09	2.45	10.45	20.8%	27.4%
All Owners	2.46	3.17	2.52	3.80	3.82	0.74	4.97	7.20	9.47	38.16	76.1%	100.0%
Percent	6.5%	8.3%	6.6%	10.0%	10.0%	2.0%	13.0%	18.9%	24.8%	100.0%		
Softwoods												
Federal	0.68	0.12	0.05	0.94	0.08	0.00	0.00	0.00	0.66	2.53	5.0%	21.0%
Private	0.38	0.52	0.50	0.33	0.89	0.10	0.51	0.82	0.98	5.03	10.0%	41.9%
State/Local	0.14	0.86	0.66	0.16	0.38	0.10	0.45	0.71	1.00	4.45	8.9%	37.1%
All Owners	1.19	1.49	1.22	1.42	1.34	0.21	0.95	1.53	2.64	12.01	23.9%	100.0%
Percent	9.9%	12.4%	10.2%	11.8%	11.2%	1.7%	7.9%	12.7%	22.0%	100.0%		
All Species												
Federal	1.67	0.26	0.07	2.80	0.37	0.00	0.00	0.03	2.03	7.23	14.4%	14.4%
Private	1.58	2.05	2.32	1.60	3.54	0.67	3.74	5.90	6.63	28.03	55.9%	55.9%
State/Local	0.41	2.35	1.35	0.83	1.25	0.28	2.18	2.80	3.45	14.90	29.7%	29.7%
All Owners	3.66	4.67	3.74	5.23	5.16	0.95	5.92	8.73	12.11	50.17	100.0%	100.0%
Percent	7.3%	9.3%	7.5%	10.4%	10.3%	1.9%	11.8%	17.4%	24.1%	100.0%		

Table A26. Biomass for Boles of All Live Trees on Timberland, by Zone, Owner and Species Groups.

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	Total	Total	Group
	Million Dry Tons										Percent	
Aspen												
Federal	0.56	0.04	0.01	0.61	0.06			0.01	1.25	2.55	1.3%	14.0%
Private	0.84	0.39	0.26	0.14	0.77	0.59	1.81	2.38	2.78	9.95	5.0%	54.9%
State/Local	0.20	0.87	0.26	0.06	0.21	0.26	0.84	1.64	1.30	5.64	2.8%	31.1%
All Owners	1.60	1.31	0.53	0.80	1.04	0.85	2.64	4.03	5.33	18.14	9.0%	100.0%
Percent	8.8%	7.2%	2.9%	4.4%	5.7%	4.7%	14.6%	22.2%	29.4%	100.0%		
Maple												
Federal	1.98	0.28	0.03	3.97	0.76			0.01	0.84	7.86	3.9%	12.0%
Private	1.86	3.13	4.15	3.12	5.82	0.88	5.96	8.89	8.14	41.94	20.9%	63.8%
State/Local	0.37	2.95	1.25	1.68	1.88	0.15	2.62	2.42	2.67	15.98	8.0%	24.3%
All Owners	4.20	6.36	5.43	8.77	8.46	1.03	8.58	11.31	11.65	65.79	32.8%	100.0%
Percent	6.4%	9.7%	8.3%	13.3%	12.9%	1.6%	13.0%	17.2%	17.7%	100.0%		
Oak												
Federal	0.15			0.07				0.07	1.98	2.27	1.1%	12.7%
Private	0.16	0.08	0.01	0.08	0.21	0.05	0.64	2.87	5.49	9.59	4.8%	53.8%
State/Local	0.02	0.04	0.01	0.11	0.25	0.01	0.60	1.60	3.32	5.96	3.0%	33.4%
All Owners	0.33	0.12	0.01	0.26	0.46	0.06	1.24	4.54	10.79	17.82	8.9%	100.0%
Percent	1.9%	0.7%	0.1%	1.5%	2.6%	0.3%	6.9%	25.5%	60.6%	100.0%		
Upland HW												
Federal	0.59	0.22	0.01	2.00	0.24			0.00	0.39	3.45	1.7%	13.2%
Private	0.75	1.55	1.55	0.96	1.45	0.27	2.85	3.05	2.99	15.43	7.7%	59.1%
State/Local	0.17	1.29	0.85	0.52	0.46	0.17	1.69	1.07	0.99	7.21	3.6%	27.6%
All Owners	1.52	3.06	2.41	3.48	2.15	0.44	4.54	4.12	4.37	26.09	13.0%	100.0%
Percent	5.8%	11.7%	9.2%	13.3%	8.3%	1.7%	17.4%	15.8%	16.8%	100.0%		
Lowland HW												
Federal	0.15	0.00	0.00	0.11	0.06				0.21	0.53	0.3%	9.6%
Private	0.44	0.09	0.27	0.17	0.66	0.15	0.35	0.73	0.99	3.85	1.9%	69.4%
State/Local	0.13	0.13	0.03	0.03	0.16	0.03	0.20	0.18	0.26	1.17	0.6%	21.0%
All Owners	0.72	0.22	0.30	0.31	0.89	0.18	0.55	0.92	1.46	5.55	2.8%	100.0%
Percent	13.0%	4.0%	5.3%	5.5%	16.0%	3.3%	10.0%	16.5%	26.3%	100.0%		
Pine												
Federal	1.73	0.25	0.22	2.92	0.10			0.02	3.04	8.28	4.1%	26.8%
Private	0.13	0.40	0.49	0.59	0.76	0.11	0.86	2.56	3.59	9.49	4.7%	30.8%
State/Local	0.14	1.75	1.94	0.07	0.55	0.08	1.75	2.89	3.91	13.08	6.5%	42.4%
All Owners	2.00	2.41	2.65	3.58	1.41	0.19	2.62	5.46	10.54	30.85	15.4%	100.0%
Percent	6.5%	7.8%	8.6%	11.6%	4.6%	0.6%	8.5%	17.7%	34.2%	100.0%		
Upland SW												
Federal	0.43	0.08	0.01	1.34	0.05				0.17	2.08	1.0%	18.0%
Private	0.72	0.76	0.95	0.58	1.26	0.14	0.56	0.65	0.66	6.28	3.1%	54.3%
State/Local	0.21	0.83	0.60	0.22	0.36	0.17	0.22	0.26	0.35	3.20	1.6%	27.7%
All Owners	1.35	1.67	1.56	2.13	1.67	0.30	0.78	0.91	1.18	11.56	5.8%	100.0%
Percent	11.7%	14.4%	13.5%	18.5%	14.4%	2.6%	6.8%	7.9%	10.2%	100.0%		
Lowland SW												
Federal	1.65	0.32	0.08	1.10	0.25				0.43	3.83	1.9%	15.5%
Private	1.22	1.77	1.40	0.67	2.88	0.31	1.40	1.38	1.16	12.18	6.1%	49.4%
State/Local	0.42	2.24	1.19	0.59	1.20	0.34	0.55	0.81	1.30	8.64	4.3%	35.0%
All Owners	3.29	4.33	2.67	2.36	4.33	0.65	1.95	2.18	2.90	24.66	12.3%	100.0%
Percent	13.4%	17.6%	10.8%	9.6%	17.6%	2.6%	7.9%	8.9%	11.7%	100.0%		

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	Total	Total	Group
	Million Dry Tons										Percent	
Hardwoods												
Federal	3.43	0.54	0.04	6.75	1.13	0.00	0.00	0.09	4.68	16.66	8.3%	12.5%
Private	4.05	5.24	6.23	4.47	8.92	1.94	11.61	17.92	20.38	80.77	40.3%	60.6%
State/Local	0.89	5.29	2.40	2.40	2.96	0.62	5.94	6.91	8.54	35.95	17.9%	27.0%
All Owners	8.37	11.07	8.68	13.62	13.00	2.56	17.55	24.92	33.60	133.38	66.5%	100.0%
Percent	6.3%	8.3%	6.5%	10.2%	9.7%	1.9%	13.2%	18.7%	25.2%	100.0%		
Softwoods												
Federal	3.81	0.65	0.31	5.35	0.41	0.00	0.00	0.02	3.64	14.19	7.1%	21.2%
Private	2.07	2.93	2.84	1.83	4.89	0.56	2.82	4.58	5.42	27.95	13.9%	41.7%
State/Local	0.77	4.82	3.73	0.88	2.11	0.58	2.52	3.95	5.56	24.93	12.4%	37.2%
All Owners	6.65	8.41	6.89	8.06	7.41	1.14	5.34	8.55	14.62	67.07	33.5%	100.0%
Percent	9.9%	12.5%	10.3%	12.0%	11.0%	1.7%	8.0%	12.8%	21.8%	100.0%		
All Species												
Federal	7.24	1.20	0.36	12.10	1.53	0.00	0.00	0.11	8.32	30.86	15.4%	15.4%
Private	6.12	8.18	9.07	6.30	13.81	2.50	14.43	22.50	25.80	108.71	54.2%	54.2%
State/Local	1.66	10.10	6.13	3.28	5.06	1.20	8.46	10.87	14.10	60.88	30.4%	30.4%
All Owners	15.02	19.48	15.57	21.68	20.41	3.70	22.89	33.48	48.22	200.45	100.0%	100.0%
Percent	7.5%	9.7%	7.8%	10.8%	10.2%	1.8%	11.4%	16.7%	24.1%	100.0%		

Table A27. Biomass for Saplings of All Live Trees on Timberland, by Zone, Owner and Species Groups.

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	Total	Total	Group
	Million Dry Tons										Percent	
Aspen												
Federal	0.10	0.00	0.00	0.26	0.00			0.00	0.30	0.66	1.8%	13.4%
Private	0.13	0.08	0.09	0.07	0.37	0.05	0.43	0.58	0.43	2.24	5.9%	45.4%
State/Local	0.06	0.20	0.09	0.09	0.12	0.03	0.34	0.55	0.55	2.04	5.4%	41.2%
All Owners	0.30	0.29	0.19	0.42	0.49	0.08	0.77	1.13	1.27	4.95	13.0%	100.0%
Percent	6.1%	5.8%	3.8%	8.6%	9.9%	1.7%	15.6%	22.8%	25.8%	100.0%		
Maple												
Federal	0.41	0.02	0.01	0.45	0.06			0.00	0.34	1.29	3.4%	12.2%
Private	0.30	0.59	0.64	0.47	0.87	0.22	0.77	1.23	0.95	6.04	15.9%	57.0%
State/Local	0.10	0.56	0.21	0.14	0.29	0.04	0.67	0.62	0.65	3.27	8.6%	30.8%
All Owners	0.81	1.17	0.86	1.06	1.22	0.26	1.45	1.85	1.94	10.61	27.9%	100.0%
Percent	7.7%	11.0%	8.1%	10.0%	11.5%	2.5%	13.6%	17.4%	18.3%	100.0%		
Oak												
Federal	0.00			0.01				0.00	0.17	0.18	0.5%	15.2%
Private	0.01	0.00	0.00	0.00	0.01	0.00	0.06	0.07	0.15	0.31	0.8%	26.0%
State/Local	0.00	0.01	0.00	0.00	0.01	0.01	0.05	0.24	0.37	0.70	1.8%	58.8%
All Owners	0.02	0.01	0.00	0.01	0.02	0.01	0.11	0.32	0.69	1.19	3.1%	100.0%
Percent	1.3%	0.5%	0.0%	1.2%	1.9%	1.1%	9.2%	26.8%	57.9%	100.0%		
Upland HW												
Federal	0.11	0.01	0.00	0.16	0.02			0.00	0.11	0.41	1.1%	8.8%
Private	0.16	0.32	0.39	0.13	0.30	0.06	0.37	0.57	0.59	2.91	7.7%	63.0%
State/Local	0.04	0.21	0.11	0.07	0.09	0.01	0.26	0.30	0.22	1.30	3.4%	28.2%
All Owners	0.32	0.54	0.50	0.36	0.41	0.08	0.63	0.87	0.91	4.62	12.2%	100.0%
Percent	6.9%	11.6%	10.8%	7.8%	9.0%	1.7%	13.5%	18.9%	19.8%	100.0%		
Lowland HW												
Federal	0.04	0.00	0.00	0.05	0.00				0.02	0.12	0.3%	4.1%
Private	0.17	0.09	0.07	0.11	0.34	0.11	0.19	0.37	0.50	1.96	5.2%	68.0%
State/Local	0.04	0.10	0.06	0.06	0.10	0.03	0.15	0.07	0.20	0.80	2.1%	27.9%
All Owners	0.26	0.19	0.13	0.22	0.44	0.14	0.34	0.44	0.72	2.88	7.6%	100.0%
Percent	8.9%	6.7%	4.5%	7.8%	15.3%	4.7%	11.9%	15.2%	25.1%	100.0%		
Pine												
Federal	0.10	0.00	0.01	0.12	0.01			0.00	0.31	0.55	1.4%	25.6%
Private	0.01	0.04	0.03	0.13	0.04	0.01	0.05	0.12	0.29	0.71	1.9%	33.1%
State/Local	0.00	0.13	0.13	0.00	0.04	0.00	0.07	0.22	0.27	0.88	2.3%	41.3%
All Owners	0.11	0.17	0.18	0.25	0.08	0.01	0.12	0.34	0.87	2.13	5.6%	100.0%
Percent	5.1%	8.0%	8.2%	11.7%	3.9%	0.5%	5.6%	16.0%	40.9%	100.0%		
Upland SW												
Federal	0.23	0.03	0.01	0.36	0.03				0.12	0.77	2.0%	14.2%
Private	0.40	0.39	0.31	0.21	0.65	0.09	0.31	0.30	0.33	3.00	7.9%	54.9%
State/Local	0.16	0.44	0.19	0.07	0.18	0.05	0.14	0.17	0.28	1.69	4.4%	30.9%
All Owners	0.79	0.87	0.51	0.64	0.86	0.14	0.45	0.47	0.73	5.46	14.4%	100.0%
Percent	14.5%	15.9%	9.4%	11.7%	15.8%	2.6%	8.2%	8.7%	13.4%	100.0%		
Lowland SW												
Federal	0.36	0.11	0.02	0.38	0.05				0.10	1.01	2.7%	16.5%
Private	0.25	0.42	0.39	0.14	0.67	0.09	0.31	0.44	0.29	2.99	7.9%	48.7%
State/Local	0.09	0.51	0.34	0.16	0.42	0.10	0.14	0.15	0.23	2.13	5.6%	34.7%
All Owners	0.70	1.03	0.75	0.68	1.13	0.19	0.45	0.58	0.62	6.14	16.2%	100.0%
Percent	11.4%	16.8%	12.2%	11.1%	18.5%	3.1%	7.4%	9.5%	10.1%	100.0%		

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	Total	Total	Group
	Million Dry Tons										Percent	
Hardwoods												
Federal	0.68	0.03	0.02	0.92	0.09	0.00	0.00	0.01	0.93	2.66	7.0%	11.0%
Private	0.79	1.09	1.19	0.79	1.89	0.45	1.83	2.82	2.62	13.47	35.5%	55.5%
State/Local	0.24	1.07	0.47	0.36	0.61	0.12	1.47	1.79	1.98	8.11	21.4%	33.5%
All Owners	1.71	2.19	1.67	2.08	2.58	0.57	3.30	4.61	5.54	24.25	63.9%	100.0%
Percent	7.0%	9.0%	6.9%	8.6%	10.7%	2.4%	13.6%	19.0%	22.8%	100.0%		
Softwoods												
Federal	0.69	0.14	0.04	0.86	0.08	0.00	0.00	0.00	0.53	2.33	6.1%	17.0%
Private	0.66	0.85	0.73	0.48	1.36	0.19	0.66	0.86	0.91	6.69	17.6%	48.8%
State/Local	0.25	1.08	0.66	0.23	0.64	0.15	0.36	0.54	0.78	4.70	12.4%	34.2%
All Owners	1.60	2.07	1.43	1.57	2.08	0.34	1.02	1.40	2.22	13.73	36.1%	100.0%
Percent	11.6%	15.1%	10.4%	11.4%	15.1%	2.5%	7.4%	10.2%	16.2%	100.0%		
All Species												
Federal	1.36	0.16	0.06	1.78	0.17	0.00	0.00	0.01	1.46	5.00	13.2%	13.2%
Private	1.44	1.94	1.92	1.27	3.25	0.64	2.49	3.67	3.53	20.16	53.1%	53.1%
State/Local	0.50	2.16	1.13	0.59	1.24	0.27	1.82	2.33	2.77	12.81	33.7%	33.7%
All Owners	3.30	4.26	3.11	3.65	4.66	0.91	4.32	6.01	7.76	37.97	100.0%	100.0%
Percent	8.7%	11.2%	8.2%	9.6%	12.3%	2.4%	11.4%	15.8%	20.4%	100.0%		

Table A28. Biomass for Stumps of All Live Trees on Timberland, by Zone, Owner and Species Groups.

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	Total	Total	Group
	Million Dry Tons										Percent	
Aspen												
Federal	0.03	0.00	0.00	0.03	0.00			0.00	0.07	0.14	1.1%	13.9%
Private	0.04	0.02	0.01	0.01	0.04	0.03	0.09	0.12	0.15	0.52	4.4%	53.7%
State/Local	0.01	0.04	0.01	0.00	0.01	0.01	0.05	0.10	0.08	0.31	2.6%	32.4%
All Owners	0.08	0.06	0.03	0.04	0.06	0.04	0.14	0.22	0.30	0.97	8.1%	100.0%
Percent	8.2%	6.7%	2.8%	4.3%	5.8%	4.2%	14.2%	22.9%	30.9%	100.0%		
Maple												
Federal	0.12	0.02	0.00	0.23	0.04			0.00	0.06	0.47	3.9%	11.8%
Private	0.12	0.19	0.25	0.19	0.36	0.06	0.36	0.54	0.47	2.52	21.2%	63.7%
State/Local	0.02	0.17	0.08	0.10	0.11	0.01	0.16	0.15	0.16	0.97	8.1%	24.5%
All Owners	0.26	0.38	0.33	0.52	0.51	0.07	0.52	0.69	0.69	3.96	33.2%	100.0%
Percent	6.5%	9.6%	8.3%	13.0%	12.9%	1.7%	13.2%	17.5%	17.3%	100.0%		
Oak												
Federal	0.01			0.00				0.00	0.12	0.13	1.1%	13.1%
Private	0.01	0.00	0.00	0.01	0.01	0.00	0.04	0.16	0.31	0.54	4.5%	52.7%
State/Local	0.00	0.00	0.00	0.01	0.01	0.00	0.04	0.09	0.19	0.35	2.9%	34.1%
All Owners	0.02	0.01	0.00	0.02	0.03	0.00	0.07	0.26	0.62	1.01	8.5%	100.0%
Percent	1.8%	0.7%	0.1%	1.5%	2.6%	0.3%	7.0%	25.3%	60.7%	100.0%		
Upland HW												
Federal	0.04	0.01	0.00	0.12	0.01			0.00	0.03	0.21	1.7%	12.6%
Private	0.05	0.10	0.10	0.06	0.09	0.02	0.18	0.20	0.20	0.99	8.3%	60.3%
State/Local	0.01	0.08	0.05	0.03	0.03	0.01	0.10	0.07	0.06	0.45	3.7%	27.1%
All Owners	0.10	0.19	0.15	0.21	0.13	0.03	0.28	0.27	0.29	1.65	13.8%	100.0%
Percent	5.9%	11.5%	9.2%	12.8%	8.1%	1.7%	16.9%	16.1%	17.8%	100.0%		
Lowland HW												
Federal	0.01	0.00	0.00	0.01	0.00				0.01	0.03	0.3%	8.9%
Private	0.03	0.01	0.02	0.01	0.05	0.01	0.03	0.05	0.07	0.27	2.2%	68.4%
State/Local	0.01	0.01	0.00	0.00	0.01	0.00	0.02	0.01	0.02	0.09	0.7%	22.7%
All Owners	0.04	0.01	0.02	0.02	0.06	0.01	0.04	0.07	0.11	0.39	3.3%	100.0%
Percent	11.2%	3.5%	4.5%	5.8%	16.5%	3.0%	10.2%	17.2%	28.0%	100.0%		
Pine												
Federal	0.09	0.01	0.01	0.14	0.01			0.00	0.18	0.44	3.7%	26.9%
Private	0.01	0.02	0.02	0.03	0.04	0.01	0.05	0.13	0.21	0.51	4.3%	31.2%
State/Local	0.01	0.09	0.10	0.00	0.03	0.00	0.09	0.16	0.21	0.68	5.7%	41.9%
All Owners	0.10	0.12	0.14	0.18	0.07	0.01	0.13	0.29	0.59	1.63	13.7%	100.0%
Percent	6.2%	7.4%	8.4%	10.8%	4.4%	0.6%	8.2%	17.8%	36.2%	100.0%		
Upland SW												
Federal	0.03	0.00	0.00	0.07	0.00				0.01	0.12	1.0%	17.4%
Private	0.05	0.04	0.05	0.03	0.07	0.01	0.03	0.04	0.04	0.37	3.1%	54.8%
State/Local	0.01	0.05	0.03	0.01	0.02	0.01	0.01	0.02	0.02	0.19	1.6%	27.8%
All Owners	0.08	0.09	0.09	0.12	0.10	0.02	0.05	0.06	0.07	0.68	5.7%	100.0%
Percent	12.6%	14.0%	12.7%	17.5%	14.5%	2.7%	6.9%	8.4%	10.6%	100.0%		
Lowland SW												
Federal	0.11	0.02	0.01	0.07	0.02				0.03	0.25	2.1%	15.3%
Private	0.08	0.11	0.09	0.04	0.19	0.02	0.09	0.09	0.08	0.80	6.7%	48.9%
State/Local	0.03	0.15	0.08	0.04	0.08	0.02	0.04	0.05	0.09	0.58	4.9%	35.8%
All Owners	0.21	0.28	0.18	0.16	0.28	0.04	0.13	0.15	0.19	1.63	13.7%	100.0%
Percent	13.1%	17.5%	11.1%	9.5%	17.4%	2.7%	7.9%	8.9%	11.8%	100.0%		

Owner	UP 30	UP 60	UP 90	UP 120	UP 150	NLP 60	NLP 90	NLP 120	NLP 150	Total	Total	Group
	Million Dry Tons										Percent	
Hardwoods												
Federal	0.20	0.03	0.00	0.39	0.06	0.00	0.00	0.01	0.28	0.98	8.2%	12.3%
Private	0.24	0.32	0.38	0.27	0.55	0.11	0.69	1.07	1.21	4.84	40.6%	60.6%
State/Local	0.05	0.31	0.14	0.14	0.18	0.03	0.36	0.43	0.52	2.16	18.2%	27.1%
All Owners	0.50	0.66	0.52	0.81	0.79	0.15	1.05	1.50	2.01	7.98	67.0%	100.0%
Percent	6.2%	8.2%	6.6%	10.1%	9.9%	1.9%	13.1%	18.8%	25.1%	100.0%		
Softwoods												
Federal	0.22	0.04	0.02	0.29	0.03	0.00	0.00	0.00	0.21	0.81	6.8%	20.5%
Private	0.13	0.17	0.17	0.11	0.30	0.04	0.17	0.27	0.33	1.68	14.1%	42.6%
State/Local	0.05	0.29	0.22	0.05	0.13	0.04	0.14	0.23	0.32	1.46	12.2%	36.9%
All Owners	0.40	0.50	0.40	0.45	0.45	0.07	0.31	0.49	0.86	3.94	33.0%	100.0%
Percent	10.2%	12.7%	10.3%	11.4%	11.5%	1.8%	7.9%	12.5%	21.7%	100.0%		
All Species												
Federal	0.42	0.07	0.02	0.68	0.09	0.00	0.00	0.01	0.50	1.79	15.0%	15.0%
Private	0.37	0.49	0.55	0.38	0.85	0.15	0.86	1.34	1.53	6.52	54.7%	54.7%
State/Local	0.10	0.60	0.36	0.20	0.31	0.07	0.50	0.65	0.83	3.62	30.4%	30.4%
All Owners	0.90	1.16	0.93	1.26	1.25	0.22	1.36	2.00	2.86	11.92	100.0%	100.0%
Percent	7.5%	9.7%	7.8%	10.6%	10.5%	1.9%	11.4%	16.7%	24.0%	100.0%		

Timber Production and Markets

Table A29. Pulpwood Sold from State Forest Lands in The Kinross Area, Thousand Cords.

Species Group	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
	Thousand Cords										
Hardwoods											
Aspen	101.4	100.9	110.6	116.9	90.7	108.8	85.8	153.8	118.6	123.1	71.6
Maple	28.7	26.2	29.2	38.8	29.8	27.4	30.6	37.5	30.7	27.8	20.7
Oak	48.7	33.9	33.0	43.9	39.7	40.7	45.0	55.6	73.2	38.2	29.4
Upland HW	113.5	104.7	104.5	118.4	87.2	125.8	79.1	106.2	87.9	96.3	55.1
Lowland HW	4.9	3.0	5.7	3.2	1.6	2.3	0.6	1.2	4.1	1.7	0.8
All Hardwoods	297.2	268.8	282.8	321.2	249.1	305.0	241.1	354.3	314.4	287.1	177.6
Softwoods											
Pine	161.2	162.6	130.1	173.9	156.8	163.8	153.9	243.3	181.0	243.4	118.2
Upland SW	20.7	18.8	27.3	23.1	14.0	28.2	15.9	24.7	20.8	17.8	10.2
Lowland SW	10.7	13.6	10.7	13.0	12.1	17.3	8.2	20.1	21.4	19.6	4.1
All Softwoods	192.7	195.0	168.2	210.1	182.9	209.3	178.1	288.2	223.2	280.8	132.5
All Species	489.9	463.8	451.0	531.2	432.0	514.2	419.1	642.5	537.6	567.9	310.0

Source: Michigan DNRE timber sale records. Sales in 2010 are through May 2010.

Table A30. Average Price Paid for Pulpwood Sold from State Forests in the Kinross Area, Dollars per Cord.

Species Group	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
	Dollars per Cord										
Hardwoods											
Aspen	\$22.33	\$24.38	\$21.71	\$22.87	\$26.32	\$29.67	\$27.65	\$25.85	\$22.85	\$22.56	\$24.96
Maple	\$14.80	\$17.62	\$18.26	\$15.84	\$21.88	\$24.28	\$15.34	\$15.71	\$15.84	\$11.96	\$16.90
Oak	\$21.67	\$19.05	\$13.86	\$15.73	\$19.26	\$22.66	\$17.29	\$11.76	\$13.72	\$13.17	\$19.69
Upland HW	\$14.71	\$15.92	\$14.68	\$14.71	\$20.10	\$32.63	\$24.99	\$20.78	\$19.15	\$17.47	\$20.27
Lowland HW	\$9.05	\$22.29	\$10.14	\$12.93	\$39.43	\$14.30	\$18.65	\$12.48	\$6.67	\$14.67	\$13.43
All Hardwoods	\$18.36	\$19.73	\$17.61	\$17.94	\$22.57	\$29.35	\$23.26	\$21.00	\$18.80	\$18.53	\$21.64
Softwoods											
Pine	\$38.26	\$41.66	\$41.58	\$42.96	\$45.20	\$54.82	\$46.22	\$38.02	\$38.85	\$34.75	\$42.28
Upland SW	\$17.39	\$21.49	\$22.64	\$24.93	\$27.53	\$35.67	\$30.39	\$22.97	\$20.82	\$18.90	\$22.96
Lowland SW	\$24.45	\$35.98	\$26.90	\$33.17	\$33.26	\$39.23	\$34.87	\$25.21	\$24.59	\$24.35	\$33.39
All Softwoods	\$35.24	\$39.32	\$37.57	\$40.36	\$43.06	\$50.96	\$44.28	\$35.84	\$35.80	\$33.02	\$40.52
All Species	\$25.00	\$27.97	\$25.05	\$26.81	\$31.25	\$38.14	\$32.19	\$27.66	\$25.86	\$25.69	\$29.71

Source: Michigan DNRE timber sale records. Sales in 2010 are through May 2010.

Table A31. Timber Sold from the Hiawatha and Huron-Manistee National Forests, 2000 to 2009, Million Board Feet (International ¼).

Species Group	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
	Million Board Feet (International ¼)									
Pulpwood										
Aspen	6.4	3.4	17.2	7.5	5.1	5.6	4.4	4.7	3.5	7.5
Maple	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Oak	2.9	0.3	0.4	0.6	2.0	0.6	0.6	1.4	1.3	3.0
Upland HW	11.9	5.0	12.5	6.5	5.9	9.8	7.0	12.1	7.1	13.4
Hardwood Pulp	22.2	8.9	30.2	14.7	13.0	16.1	12.0	18.1	11.8	24.1
Pine	32.2	23.6	18.5	10.5	43.4	42.5	41.8	42.6	36.9	37.9
Upland SW	1.6	1.4	2.0	0.8	2.3	0.3	1.3	1.5	0.7	1.2
Lowland SW	0.0	0.0	0.0	0.0	0.0					0.2
Softwood Pulp	33.8	25.0	20.5	11.3	45.7	42.7	43.1	44.1	37.6	39.3
All Pulpwood	56.0	33.9	50.7	26.0	58.6	58.8	55.1	62.2	49.4	63.4
Sawtimber										
Aspen	2.5	0.5	3.2	2.4	1.0	3.1	1.8	2.8	0.8	1.6
Maple	0.5	0.1	0.3	0.0	0.0	0.3	0.0	0.7	1.4	0.4
Oak	0.8	0.2	0.1	0.4	0.8	0.4	0.2	1.6	1.1	1.7
Upland HW	2.2	1.1	1.3	2.6	1.3	1.4	2.0	1.8	1.2	2.4
Hardwood Saw	5.9	1.9	4.8	5.4	3.1	5.3	4.0	6.9	4.4	6.1
Pine	12.8	9.1	12.6	5.7	13.3	8.8	12.5	11.4	14.2	22.1
Upland SW	0.1	0.2	0.0	0.0	0.1	0.0	0.2	0.9	0.1	0.4
Lowland SW	0.0		0.0	0.0	0.0					0.2
Softwood Saw	12.9	9.3	12.6	5.7	13.4	8.9	12.7	12.2	14.4	22.6
All Sawtimber	18.8	11.2	17.4	11.2	16.5	14.1	16.7	19.1	18.8	28.7
All Products	74.8	45.1	68.1	37.2	75.1	73.0	71.8	81.3	68.2	92.1

Source: USDA-Forest Service, National Forest timber sale records.

Table A32. Timber Cut from the Hiawatha and Huron-Manistee National Forests, 2000 to 2009, Million Board Feet ((International ¼).

Species Group	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
	Million Board Feet (International ¼)									
Pulpwood										
Aspen	11.3	7.9	7.5	6.8	8.5	9.2	5.1	6.3	3.9	4.8
Maple	1.1	0.5	0.4	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Oak	1.1	0.9	1.4	1.0	1.2	1.0	1.0	0.3	1.1	0.4
Upland HW	22.5	15.1	13.5	9.2	9.3	8.2	7.4	7.3	9.9	8.7
Hardwood Pulp	35.9	24.4	22.8	17.1	19.2	18.4	13.4	13.9	14.9	13.9
Pine	66.1	44.0	30.9	17.5	27.9	32.4	37.1	36.2	48.8	33.3
Upland SW	2.9	1.4	0.8	1.6	2.5	1.6	1.3	1.5	0.6	1.7
Lowland SW	0.1	0.1	0.0	0.0	0.0					0.0
Softwood Pulp	69.0	45.4	31.6	19.1	30.4	34.0	38.4	37.7	49.4	35.0
All Pulpwood	105.0	69.8	54.4	36.2	49.5	52.4	51.8	51.6	64.2	49.0
Sawtimber										
Aspen	2.7	2.5	1.7	1.8	2.2	2.2	1.2	1.3	1.9	2.2
Maple	1.1	0.6	0.3	0.1	0.1	0.0	0.1	0.2	1.1	0.7
Oak	0.5	0.6	0.5	0.1	0.4	0.4	0.5	0.1	1.0	0.5
Upland HW	4.7	2.9	1.9	1.3	1.8	1.5	1.5	1.0	2.1	1.4
Hardwood Saw	9.0	6.6	4.4	3.4	4.5	4.1	3.3	2.6	6.1	4.7
Pine	12.2	12.0	7.5	9.6	14.9	10.5	9.2	8.0	11.8	15.8
Upland SW	0.2	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.8
Lowland SW	0.0		0.0	0.0	0.0					0.0
Softwood Saw	12.4	12.1	7.5	9.7	15.1	10.6	9.4	8.1	11.9	16.5
All Sawtimber	21.4	18.7	12.0	13.0	19.5	14.7	12.6	10.7	18.0	21.3
All Products	126.3	88.6	66.4	49.2	69.1	67.2	64.4	62.4	82.2	70.2

Source: USDA-Forest Service, National Forest timber sale records.

Table A33. Average Price for Timber Sold from the Hiawatha and Huron-Manistee National Forests, 2000 to 2009, Dollars per Thousand Board Feet (International ¼).

Species Group	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
	Dollars per Thousand Board Feet ((International ¼))									
Pulpwood										
Aspen	\$40.47	\$41.02	\$35.24	\$30.79	\$30.50	\$40.54	\$49.25	\$26.41	\$40.72	\$34.77
Maple	\$37.53	\$1.18	\$26.46	\$27.93	\$25.85	\$23.68		\$37.44	\$32.50	\$29.53
Oak	\$23.20	\$10.93	\$26.46	\$38.39	\$32.48	\$26.93	\$31.30	\$28.59	\$20.59	\$15.55
Upland HW	\$30.50	\$49.81	\$22.74	\$50.96	\$24.17	\$44.84	\$47.03	\$28.48	\$32.30	\$27.96
Hardwood Pulp	\$32.75	\$44.40	\$29.93	\$40.06	\$27.93	\$42.62	\$47.12	\$27.96	\$33.46	\$28.53
Pine	\$96.37	\$105.87	\$87.80	\$72.93	\$80.77	\$114.36	\$98.99	\$52.06	\$73.56	\$57.91
Upland SW	\$57.49	\$99.54	\$39.99	\$47.97	\$43.42	\$44.36	\$45.02	\$46.86	\$23.91	\$48.89
Lowland SW	\$16.58	\$43.80	\$26.06	\$10.77						\$29.98
Softwood Pulp	\$94.46	\$105.51	\$83.13	\$71.17	\$78.91	\$113.94	\$97.36	\$51.89	\$72.67	\$57.48
All Pulpwood	\$70.03	\$89.49	\$51.48	\$53.60	\$67.63	\$94.42	\$86.45	\$44.91	\$63.27	\$46.47
Sawtimber										
Aspen	\$92.86	\$45.54	\$57.47	\$50.30	\$87.82	\$91.60	\$71.40	\$48.07	\$74.46	\$61.86
Maple	\$109.35	\$140.79	\$152.44	\$93.54	\$107.32	\$277.34		\$95.98	\$410.58	\$80.95
Oak	\$133.11	\$14.52	\$55.91	\$84.69	\$64.66	\$65.80	\$85.17	\$90.73	\$68.75	\$41.67
Upland HW	\$88.06	\$186.57	\$117.91	\$158.00	\$108.51	\$164.78	\$217.82	\$90.14	\$157.08	\$75.78
Hardwood Saw	\$97.88	\$132.56	\$79.40	\$104.82	\$90.35	\$120.65	\$144.18	\$73.53	\$203.66	\$62.92
Pine	\$167.09	\$160.87	\$173.95	\$161.35	\$138.70	\$156.06	\$135.98	\$108.22	\$109.69	\$94.81
Upland SW	\$61.14	\$123.61		\$92.62	\$71.93	\$66.38	\$54.28	\$57.54	\$45.44	\$42.19
Lowland SW	\$20.59		\$27.78	\$12.87						\$59.26
Softwood Saw	\$166.13	\$160.17	\$173.90	\$161.11	\$137.96	\$155.63	\$134.62	\$104.56	\$109.07	\$93.73
All Sawtimber	\$144.81	\$155.58	\$147.60	\$133.82	\$129.09	\$142.61	\$136.92	\$93.42	\$131.43	\$87.18
All Products	\$88.83	\$105.85	\$76.04	\$77.66	\$81.11	\$103.77	\$98.20	\$56.31	\$82.06	\$59.16

Source: USDA-Forest Service, National Forest timber sale records.

Table A34. Pulpwood Production from Counties within 150 Miles of Kinross, 1990 to 2007, Thousand Cords.

Species Group	1990	1991	1992	1993	1994	1995	1996	1997	1998
	Thousand Cords								
Hardwoods									
Aspen	627	614	572	623	594	554	511	491	481
Maple	272	351	322	372	428	440	399	466	377
Oak	53	43	25	59	61	27	25	46	29
Lowland HW	64	46	56	28	47	34	35	17	44
Upland HW	213	196	190	206	224	174	188	178	162
All Hardwoods	1,229	1,250	1,166	1,288	1,354	1,229	1,158	1,198	1,093
Softwoods									
Pine	242	262	300	317	282	302	311	326	241
Upland SW	138	158	138	141	169	141	121	99	106
Lowland SW	11	13	11	10	13	8	10	8	6
All Softwoods	381	420	438	459	451	443	432	425	347
All Species	1,621	1,683	1,615	1,757	1,818	1,680	1,601	1,631	1,446
Species Group	1999	2000	2001	2002	2003	2004	2005	2006	2007
	Thousand Cords								
Hardwoods									
Aspen	475	487	493	531	523	500	504	378	429
Maple	416	415	388	442	429	433	449	453	418
Oak	31	29	27	30	25	25	36	15	29
Upland HW	139	198	152	172	177	180	155	208	185
Lowland HW	29	17	16	23	31	29	26	0	0
All Hardwoods	1,091	1,147	1,075	1,199	1,185	1,167	1,171	1,054	1,061
Softwoods									
Pine	231	230	231	158	141	207	231	98	99
Upland SW	115	111	129	112	112	141	113	104	90
Lowland SW	7	7	11	8	14	17	12	8	6
All Softwoods	346	341	360	270	253	349	345	203	189
All Species	1,444	1,496	1,446	1,477	1,453	1,533	1,527	1,265	1,256

Table A35. Pulpwood Production from All Michigan Counties, 1990 to 2007, Thousand Cords.

Species Group	1990	1991	1992	1993	1994	1995	1996	1997	1998
	Thousand Cords								
Hardwoods									
Aspen	1,115	1,093	1,033	1,142	1,084	1,003	913	1,041	857
Maple	500	630	586	630	736	779	777	940	792
Oak	143	126	83	166	166	105	86	147	98
Upland HW	357	307	301	327	364	314	391	356	332
Lowland HW	79	68	79	46	70	56	59	41	73
All Hardwoods	2,194	2,223	2,083	2,311	2,421	2,257	2,226	2,526	2,153
Softwoods									
Pine	300	309	363	380	344	355	373	392	302
Upland SW	208	215	190	205	233	211	214	169	196
Lowland SW	15	16	13	12	16	11	14	12	10
All Softwoods	523	540	566	597	592	577	601	573	508
All Species	2,717	2,763	2,649	2,909	3,013	2,834	2,828	3,099	2,662
Species Group	1999	2000	2001	2002	2003	2004	2005	2006	2007
	Thousand Cords								
Hardwoods									
Aspen	832	838	826	832	863	846	836	559	706
Maple	867	820	714	810	794	837	826	758	641
Oak	87	87	79	81	78	89	79	32	62
Upland HW	290	368	283	298	312	328	286	405	296
Lowland HW	59	33	33	37	46	53	38	0	0
All Hardwoods	2,136	2,146	1,935	2,058	2,092	2,154	2,065	1,754	1,704
Softwoods									
Pine	291	283	284	192	198	258	280	132	133
Upland SW	195	194	212	190	188	222	190	162	151
Lowland SW	10	11	15	12	19	23	15	13	9
All Softwoods	496	488	511	393	405	504	485	308	292
All Species	2,632	2,633	2,446	2,451	2,497	2,658	2,550	2,062	1,996