

Table 1. -- Percentage of area by land status, Michigan, 2002-2006

Land status	Percentage of area
Accessible forest land	
Unreserved forest land	
Timberland	48.3
Unproductive	0.5
Total unreserved forest land	48.8
Reserved forest land	
Productive	0.9
Unproductive	0.0
Total reserved forest land	0.9
All accessible forest land	49.6
Nonforest and other land	
Nonforest land	42.9
Water	
Census	2.4
Non-Census	0.6
All nonforest and other land	45.9
Nonsampled land	
Access denied	4.4
Hazardous conditions	0.1
Other	--
All land	100.0
Total area (thousands of acres)	37,198

All table cells without observations in the inventory sample are indicated by --. Table value of 0.0 indicates the percentage rounds to less than 0.1 percent. Columns and rows may not add to their totals due to rounding.

Table 2. -- Area of forest land by owner class and forest land status, Michigan, 2002-2006

(In thousand acres)

Owner class	Unreserved forests			Reserved forests			All forest land
	Timberland	Unproductive	Total	Productive	Unproductive	Total	
Forest Service							
National forest	2,491.7	55.4	2,547.1	88.1	--	88.1	2,635.2
Other national forest	5.2	--	5.2	--	--	--	5.2
Other Federal							
National Park Service	68.2	5.0	73.1	147.0	5.4	152.5	225.6
Fish and Wildlife Service	40.7	--	40.7	2.8	--	2.8	43.6
Department of Defense or Energy	17.9	--	17.9	--	--	--	17.9
Other Federal	30.8	--	30.8	--	--	--	30.8
State and local government							
State	4,002.0	41.9	4,043.9	74.2	--	74.2	4,118.1
Local (county, municipal, etc.)	328.5	--	328.5	7.6	--	7.6	336.0
Other non-Federal lands	15.0	--	15.0	--	--	--	15.0
Private							
Undifferentiated private	12,022.9	94.2	12,117.2	--	--	--	12,117.2
All owners	19,022.8	196.6	19,219.4	319.7	5.4	325.2	19,544.6

All table cells without observations in the inventory sample are indicated by --. Table value of 0.0 indicates the acres round to less than 0.1 thousand acres. Columns and rows may not add to their totals due to rounding.

Table 3. -- Area of forest land by forest type group and productivity class, Michigan, 2002-2006

(In thousand acres)

Forest type group	Site productivity class (cubic feet/acre/year)							All classes
	0-19	20-49	50-84	85-119	120-164	165-224	225+	
White / red / jack pine group	66.9	803.6	531.4	484.3	129.2	9.8	0.8	2,025.9
Spruce / fir group	39.4	1,771.4	540.4	174.7	19.0	--	--	2,544.9
Pinyon / juniper group	--	--	--	1.3	--	--	--	1.3
Douglas-fir group	--	--	--	2.3	--	--	--	2.3
Fir / spruce / mountain hemlock grou	--	--	6.9	7.9	--	--	--	14.8
Exotic softwoods group	--	35.8	50.4	53.4	27.8	--	--	167.5
Oak / pine group	13.8	172.7	219.5	118.6	37.3	--	--	561.9
Oak / hickory group	12.3	554.8	1,272.7	797.0	91.8	27.1	2.3	2,758.0
Oak / gum / cypress group	--	14.8	13.5	16.7	3.5	--	--	48.5
Elm / ash / cottonwood group	27.5	518.3	490.7	336.9	77.4	3.1	--	1,453.9
Maple / beech / birch group	18.9	2,872.6	2,521.1	1,028.5	152.9	26.4	--	6,620.4
Aspen / birch group	19.3	730.0	1,412.3	915.6	102.5	22.1	5.5	3,207.4
Exotic hardwoods group	--	0.7	1.5	3.0	--	--	--	5.1
Nonstocked	4.0	73.0	32.1	18.3	4.5	0.8	--	132.8
All forest type groups	202.0	7,547.8	7,092.6	3,958.4	645.9	89.3	8.6	19,544.6

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Table 4. -- Area of forest land by forest type group, ownership group, and land status, Michigan, 2002-2006

(In thousand acres)

Forest type group	Forest Service		Other Federal		State and local government		Undifferentiated private		All forest land
	Timber-land	Other forest land	Timber-land	Other forest land	Timber-land	Other forest land	Timber-land	Other forest land	
White / red / jack pine group	549.7	43.0	25.0	13.0	633.3	29.3	715.0	17.7	2,025.9
Spruce / fir group	364.0	25.6	21.7	50.2	745.4	12.6	1,307.9	17.6	2,544.9
Pinyon / juniper group	--	--	--	--	--	--	1.3	--	1.3
Douglas-fir group	--	--	--	--	--	--	2.3	--	2.3
Fir / spruce / mountain hemlock group	--	--	--	--	--	--	14.8	--	14.8
Exotic softwoods group	2.9	--	--	--	2.5	--	162.1	--	167.5
Oak / pine group	106.9	4.9	2.2	--	174.9	8.2	262.1	2.7	561.9
Oak / hickory group	200.9	7.8	19.1	--	620.0	9.1	1,898.3	2.7	2,758.0
Oak / gum / cypress group	--	--	--	--	5.6	--	42.9	--	48.5
Elm / ash / cottonwood group	91.8	2.7	7.4	--	292.9	--	1,034.2	24.8	1,453.9
Maple / beech / birch group	750.2	43.5	54.4	42.1	996.0	53.5	4,665.7	14.9	6,620.4
Aspen / birch group	411.4	12.7	24.5	55.0	845.0	8.2	1,836.6	13.9	3,207.4
Exotic hardwoods group	--	--	--	--	--	--	5.1	--	5.1
Nonstocked	19.2	3.3	3.4	--	29.7	2.8	74.4	--	132.8
All forest type groups	2,496.9	143.5	157.6	160.3	4,345.4	123.7	12,022.9	94.2	19,544.6

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Table 5. -- Area of forest land by forest type group and stand-size class, Michigan, 2002-2006

(In thousand acres)

Forest type group	Stand-size class					All size classes
	Large diameter	Medium diameter	Small diameter	Chaparral	Nonstocked	
White / red / jack pine group	1,086.2	666.5	273.2	--	--	2,025.9
Spruce / fir group	698.1	1,197.4	649.4	--	--	2,544.9
Pinyon / juniper group	--	--	1.3	--	--	1.3
Douglas-fir group	--	2.3	--	--	--	2.3
Fir / spruce / mountain hemlock group	1.5	1.7	11.7	--	--	14.8
Exotic softwoods group	55.0	79.2	33.2	--	--	167.5
Oak / pine group	214.5	196.0	151.3	--	--	561.9
Oak / hickory group	1,620.8	753.2	383.9	--	--	2,758.0
Oak / gum / cypress group	22.5	23.1	2.8	--	--	48.5
Elm / ash / cottonwood group	580.1	566.3	307.6	--	--	1,453.9
Maple / beech / birch group	3,308.8	2,660.9	650.7	--	--	6,620.4
Aspen / birch group	628.9	1,432.3	1,146.1	--	--	3,207.4
Exotic hardwoods group	--	4.3	0.8	--	--	5.1
Nonstocked	--	--	0.7	--	132.1	132.8
All forest type groups	8,216.6	7,583.3	3,612.7	--	132.1	19,544.6

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Table 6. -- Area of forest land by forest type group and stand-age class, Michigan, 2002-2006

(In thousand acres)

Forest type group	Non stocked	Stand-age class (years)											All classes
		1-20	21-40	41-60	61-80	81-100	101-120	121-140	141-160	161-180	181-200	201+	
White / red / jack pine group	--	211.1	491.7	759.9	369.1	105.3	33.5	34.3	4.6	8.3	6.8	--	2,025.9
Spruce / fir group	--	106.5	256.5	660.9	899.0	419.2	128.7	47.2	17.3	3.9	5.8	--	2,544.9
Pinyon / juniper group	--	--	1.3	--	--	--	--	--	--	--	--	--	1.3
Douglas-fir group	--	--	2.3	--	--	--	--	--	--	--	--	--	2.3
Fir / spruce / mountain hemlock group	--	11.7	1.7	1.5	--	--	--	--	--	--	--	--	14.8
Exotic softwoods group	--	25.5	81.7	60.3	--	--	--	--	--	--	--	--	167.5
Oak / pine group	--	76.9	135.8	193.2	100.8	48.4	5.1	1.6	--	--	--	--	561.9
Oak / hickory group	--	133.3	465.9	838.6	771.4	448.6	76.8	21.8	--	--	--	--	2,758.0
Oak / gum / cypress group	--	--	12.4	27.4	5.6	3.1	--	--	--	--	--	--	48.5
Elm / ash / cottonwood group	--	64.9	279.1	624.7	350.8	106.0	20.6	4.8	3.0	--	--	--	1,453.9
Maple / beech / birch group	--	271.3	553.4	2,072.1	2,727.6	804.8	129.3	25.4	18.3	4.5	10.8	--	6,620.4
Aspen / birch group	--	620.1	878.5	1,031.7	556.2	99.9	21.0	--	--	--	--	--	3,207.4
Exotic hardwoods group	--	3.5	0.9	0.7	--	--	--	--	--	--	--	--	5.1
Nonstocked	132.1	--	--	--	--	--	--	--	--	--	--	--	132.8
All forest type groups	132.1	1,524.8	3,161.2	6,271.0	5,780.5	2,035.1	414.9	135.2	43.1	16.7	23.4	--	19,544.6

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Table 7. -- Area of forest land by forest type group and stand origin, Michigan, 2002-2006

(In thousand acres)

Forest type group	Stand origin		All forest land
	Natural stands	Artificial regeneration	
White / red / jack pine group	1,219.5	806.4	2,025.9
Spruce / fir group	2,505.5	39.3	2,544.9
Pinyon / juniper group	1.3	--	1.3
Douglas-fir group	--	2.3	2.3
Fir / spruce / mountain hemlock group	--	14.8	14.8
Exotic softwoods group	34.3	133.2	167.5
Oak / pine group	485.4	76.4	561.9
Oak / hickory group	2,731.5	26.5	2,758.0
Oak / gum / cypress group	48.5	--	48.5
Elm / ash / cottonwood group	1,453.2	0.7	1,453.9
Maple / beech / birch group	6,582.1	38.2	6,620.4
Aspen / birch group	3,177.3	30.0	3,207.4
Exotic hardwoods group	5.1	--	5.1
Nonstocked	127.6	5.2	132.8
All forest type groups	18,371.4	1,173.2	19,544.6

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Table 8. -- Area of forest land by forest type group and primary disturbance class, Michigan, 2002-2006

(In thousand acres)

Forest type group	Disturbance class								All forest land
	None	Insects	Disease	Weather	Fire	Domestic animals	Wild animals	Human	
White / red / jack pine group	1,994.3	2.7	5.7	8.5	10.3	--	0.9	3.6	-- 2,025.9
Spruce / fir group	2,512.9	--	2.3	13.1	--	--	11.0	2.8	2.8 2,544.9
Pinyon / juniper group	1.3	--	--	--	--	--	--	--	-- 1.3
Douglas-fir group	2.3	--	--	--	--	--	--	--	-- 2.3
Fir / spruce / mountain hemlock group	14.8	--	--	--	--	--	--	--	-- 14.8
Exotic softwoods group	161.4	--	--	--	--	--	--	3.1	3.1 167.5
Oak / pine group	533.7	--	3.1	5.7	--	--	--	13.2	6.3 561.9
Oak / hickory group	2,716.3	3.9	3.9	8.6	1.1	2.3	7.1	14.8	-- 2,758.0
Oak / gum / cypress group	42.2	--	--	6.3	--	--	--	--	-- 48.5
Elm / ash / cottonwood group	1,388.0	--	1.4	38.6	2.6	--	12.6	2.1	8.7 1,453.9
Maple / beech / birch group	6,489.5	2.7	13.9	7.4	2.7	5.6	17.9	77.6	3.0 6,620.4
Aspen / birch group	3,127.6	2.1	2.6	20.2	2.7	3.3	21.4	27.5	-- 3,207.4
Exotic hardwoods group	5.1	--	--	--	--	--	--	--	-- 5.1
Nonstocked	128.1	--	--	--	--	--	1.4	3.3	-- 132.8
All forest type groups	19,117.6	11.3	32.8	108.4	19.4	11.2	72.3	147.9	23.7 19,544.6

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Table 9. -- Area of timberland by forest type group and stand-size class, Michigan, 2002-2006
 (In thousand acres)

Forest type group	Stand-size class					All size classes
	Large diameter	Medium diameter	Small diameter	Chaparral	Nonstocked	
White / red / jack pine group	1,032.4	653.1	237.5	--	--	1,923.0
Spruce / fir group	655.2	1,163.6	620.1	--	--	2,438.9
Pinyon / juniper group	--	--	1.3	--	--	1.3
Douglas-fir group	--	2.3	--	--	--	2.3
Fir / spruce / mountain hemlock group	1.5	1.7	11.7	--	--	14.8
Exotic softwoods group	55.0	79.2	33.2	--	--	167.5
Oak / pine group	212.5	193.2	140.4	--	--	546.1
Oak / hickory group	1,610.9	747.8	379.7	--	--	2,738.3
Oak / gum / cypress group	22.5	23.1	2.8	--	--	48.5
Elm / ash / cottonwood group	574.7	558.6	293.1	--	--	1,426.4
Maple / beech / birch group	3,196.7	2,630.4	639.3	--	--	6,466.3
Aspen / birch group	596.5	1,388.7	1,132.3	--	--	3,117.5
Exotic hardwoods group	--	4.3	0.8	--	--	5.1
Nonstocked	--	--	0.7	--	126.1	126.8
All forest type groups	7,957.9	7,445.9	3,492.9	--	126.1	19,022.8

All table cells without observations in the inventory sample are indicated by --. Table value of 0.0 indicates the acres round to less than 0.1 thousand acres. Columns and rows may not add to their totals due to rounding.

Table 10. -- Number of live trees on forest land by species group and diameter class, Michigan, 2002-2006

(In thousand trees)

Species group	Diameter class (inches)																All classes
	1.0- 2.9	3.0- 4.9	5.0- 6.9	7.0- 8.9	9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 24.9	25.0- 28.9	29.0- 32.9	33.0- 36.9	37.0+		
Softwood species groups																	
Eastern softwood species groups																	
Other yellow pines	16,055	16,862	11,831	7,953	4,532	1,895	457	160	50	--	--	--	--	--	--	--	59,794
Eastern white and red pines	180,232	105,081	96,731	78,779	51,579	29,839	15,923	8,947	4,821	3,262	2,682	970	380	15	32	579,273	
Jack pine	123,920	66,913	45,147	30,871	15,139	5,347	1,693	485	149	33	--	--	--	--	--	289,697	
Spruce and balsam fir	1,739,493	469,365	187,800	82,257	29,562	10,482	4,256	1,784	487	414	153	--	--	--	--	2,526,054	
Eastern hemlock	53,234	27,865	16,257	13,641	11,101	8,723	7,189	5,093	3,520	2,206	2,095	545	129	16	--	151,614	
Other eastern softwoods	480,248	330,259	228,709	139,239	73,719	34,260	15,619	7,074	2,948	1,100	826	210	48	35	--	1,314,294	
All softwoods	2,593,181	1,016,345	586,475	352,741	185,631	90,546	45,137	23,543	11,974	7,015	5,756	1,725	557	66	32	4,920,725	
Hardwood species groups																	
Eastern hardwood species groups																	
Select white oaks	58,549	26,877	17,984	13,078	9,984	6,811	4,453	3,064	2,370	1,263	1,118	512	167	115	93	146,439	
Select red oaks	109,825	41,491	22,436	17,078	16,632	13,396	9,348	7,231	4,006	2,278	1,800	624	148	34	--	246,329	
Other white oaks	--	--	--	--	16	--	--	--	--	--	--	--	--	--	--	16	
Other red oaks	75,526	27,839	15,652	13,060	10,709	7,472	6,207	4,062	2,605	1,715	1,520	496	131	78	57	167,130	
Hickory	31,517	10,136	5,246	4,109	2,112	1,750	1,372	843	305	278	193	21	--	38	--	57,920	
Yellow birch	71,960	35,189	18,758	14,095	9,868	5,950	3,691	2,547	1,856	774	735	181	137	16	16	165,775	
Hard maple	782,063	286,198	156,488	118,340	78,058	47,301	25,203	12,647	6,662	2,976	2,719	685	115	98	--	1,519,552	
Soft maple	983,146	315,463	177,083	116,840	73,856	41,874	21,893	11,826	6,048	3,294	2,846	708	303	114	93	1,755,388	
Beech	158,744	37,508	13,700	8,407	5,900	4,753	3,189	2,356	1,588	722	742	196	12	--	--	237,817	
Tupelo and blackgum	4,403	968	739	644	204	79	57	21	21	--	--	--	--	--	--	7,136	
Ash	576,857	183,742	81,490	41,932	23,164	13,261	8,149	3,711	1,814	795	662	258	79	18	--	935,933	
Cottonwood and aspen	1,109,324	346,955	143,417	77,808	49,763	32,424	19,157	10,343	4,579	2,440	1,184	342	78	112	42	1,797,968	
Basswood	51,440	21,301	14,986	15,703	13,378	10,226	6,231	2,983	1,428	639	487	88	50	--	--	138,942	
Yellow-poplar	1,552	1,007	365	216	149	186	204	95	128	116	177	20	--	--	--	4,214	
Black walnut	2,101	2,493	967	861	761	538	287	136	152	112	73	18	--	42	--	8,540	
Other eastern soft hardwoods	581,533	198,207	100,218	60,657	34,316	20,036	9,235	4,537	2,350	1,088	669	263	41	20	21	1,013,191	
Other eastern hard hardwoods	24,905	4,054	1,946	1,301	461	256	302	103	161	21	21	--	--	--	--	33,531	
Eastern noncommercial hardwoods	705,193	93,204	20,212	5,821	1,472	529	95	66	19	--	20	--	--	--	--	826,631	
All hardwoods	5,328,638	1,632,632	791,686	509,965	330,787	206,842	119,073	66,572	36,091	18,512	14,968	4,414	1,262	685	322	9,062,451	
All species groups	7,921,819	2,648,977	1,378,162	862,706	516,418	297,388	164,210	90,115	48,065	25,527	20,724	6,139	1,820	751	353	13,983,176	

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Table 11. -- Number of growing-stock trees on timberland by species group and diameter class, Michigan, 2002-2006

(In thousand trees)

Species group	Diameter class (inches)													All classes	
	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-24.9	25.0-28.9	29.0-32.9	33.0-36.9	37.0+		
Softwood species groups															
Eastern softwood species groups															
Other yellow pines	9,161	6,783	3,796	1,710	386	111	16	--	--	--	--	--	--	21,962	
Eastern white and red pines	91,083	75,989	49,726	28,971	15,239	8,722	4,507	3,027	2,529	891	313	15	16	281,029	
Jack pine	37,657	28,850	13,973	4,916	1,555	450	97	17	--	--	--	--	--	87,513	
Spruce and balsam fir	179,676	78,340	27,807	9,814	3,774	1,543	487	362	137	--	--	--	--	301,939	
Eastern hemlock	13,665	11,948	9,781	7,716	6,280	4,563	3,026	1,829	1,680	308	80	16	--	60,893	
Other eastern softwoods	202,740	124,173	64,156	29,777	13,316	5,718	2,554	928	609	210	48	35	--	444,264	
All softwoods	533,981	326,084	169,240	82,904	40,549	21,107	10,686	6,162	4,954	1,409	441	66	16	1,197,600	
Hardwood species groups															
Eastern hardwood species groups															
Select white oaks	16,054	12,157	9,324	6,285	3,989	2,780	2,190	1,133	993	417	113	58	42	55,535	
Select red oaks	20,309	15,768	15,940	12,753	8,506	6,716	3,785	2,082	1,374	498	98	34	--	87,862	
Other white oaks	--	16	--	--	--	--	--	--	--	--	--	--	--	16	
Other red oaks	12,463	11,019	9,553	6,442	5,442	3,518	2,383	1,574	1,360	426	100	18	37	54,335	
Hickory	5,053	3,871	2,091	1,694	1,263	744	305	262	136	21	--	--	--	15,440	
Yellow birch	15,178	11,928	8,256	4,637	2,701	1,921	1,240	530	381	114	68	16	16	46,987	
Hard maple	144,427	110,843	73,305	43,864	23,242	11,507	5,708	2,448	2,048	413	31	65	--	417,902	
Soft maple	161,199	107,099	67,632	36,474	19,261	10,486	5,100	2,832	2,146	471	226	93	53	413,072	
Beech	11,965	7,347	5,110	3,803	2,500	1,751	1,244	473	465	39	12	--	--	34,710	
Tupelo and blackgum	583	585	183	19	57	21	21	--	--	--	--	--	--	1,467	
Ash	73,489	38,277	21,539	12,043	7,445	3,412	1,604	764	630	220	79	--	--	159,502	
Cottonwood and aspen	136,765	73,720	46,910	29,351	17,194	8,925	3,954	2,074	1,015	301	57	112	21	320,399	
Basswood	13,463	14,665	12,508	9,745	5,801	2,741	1,240	569	404	52	34	--	--	61,223	
Yellow-poplar	305	216	149	165	204	95	128	116	177	20	--	--	--	1,574	
Black walnut	824	788	644	407	229	98	152	73	36	18	--	42	--	3,312	
Other eastern soft hardwoods	78,163	48,947	27,895	15,580	7,277	3,476	1,769	889	526	153	41	20	--	184,736	
Other eastern hard hardwoods	1,072	639	175	102	117	82	103	21	21	--	--	--	--	2,331	
All hardwoods	691,313	457,887	301,213	183,365	105,228	58,274	30,924	15,840	11,710	3,162	858	459	169	1,860,403	
All species groups	1,225,294	783,971	470,453	266,269	145,777	79,381	41,611	22,002	16,665	4,572	1,299	525	185	3,058,003	

All table cells without observations in the inventory sample are indicated by --. Table value of 0 indicates the number of trees rounds to less than 1 thousand trees. Columns and rows may not add to their totals due to rounding.

Table 12. -- Net volume of all live trees by owner class and forest land status, Michigan, 2002-2006

(In million cubic feet)

Owner class	Unreserved forests			Reserved forests			All forest land
	Timberland	Unproductive	Total	Productive	Unproductive	Total	
Forest Service							
National forest	4,568.9	29.7	4,598.5	240.3	--	240.3	4,838.8
Other national forest	16.0	--	16.0	--	--	--	16.0
Other Federal							
National Park Service	156.5	14.5	171.0	307.7	5.4	313.1	484.1
Fish and Wildlife Service	25.8	--	25.8	2.8	--	2.8	28.6
Department of Defense or Energy	26.5	--	26.5	--	--	--	26.5
Other Federal	44.5	--	44.5	--	--	--	44.5
State and local government							
State	5,519.7	13.7	5,533.4	220.4	--	220.4	5,753.8
Local (county, municipal, etc.)	536.5	--	536.5	7.0	--	7.0	543.5
Other non-Federal lands	17.4	--	17.4	--	--	--	17.4
Private							
Undifferentiated private	19,245.4	86.0	19,331.4	--	--	--	19,331.4
All owners	30,157.2	143.9	30,301.1	778.3	5.4	783.6	31,084.7

All table cells without observations in the inventory sample are indicated by --. Table value of 0.0 indicates the volume rounds to less than 0.1 million cubic feet. Columns and rows may not add to their totals due to rounding.

Table 13. -- Net volume of all live trees on forest land by forest type group and stand-size class, Michigan, 2002-2006

(In million cubic feet)

Forest type group	Stand-size class					All size classes
	Large diameter	Medium diameter	Small diameter	Chaparral	Nonstocked	
White / red / jack pine group	2,651.1	967.4	32.7	--	--	3,651.2
Spruce / fir group	1,574.5	1,948.8	216.5	--	--	3,739.8
Pinyon / juniper group	--	--	0.2	--	--	0.2
Douglas-fir group	--	4.3	--	--	--	4.3
Fir / spruce / mountain hemlock group	2.5	1.9	0.7	--	--	5.1
Exotic softwoods group	125.7	102.1	4.3	--	--	232.2
Oak / pine group	419.4	261.0	28.8	--	--	709.1
Oak / hickory group	3,546.3	953.5	89.1	--	--	4,588.8
Oak / gum / cypress group	65.6	28.1	1.4	--	--	95.0
Elm / ash / cottonwood group	1,351.7	712.7	98.8	--	--	2,163.2
Maple / beech / birch group	7,869.5	4,208.7	175.2	--	--	12,253.4
Aspen / birch group	1,416.0	1,933.9	280.5	--	--	3,630.4
Exotic hardwoods group	--	2.9	--	--	--	2.9
Nonstocked	--	--	--	--	9.2	9.2
All forest type groups	19,022.3	11,125.2	928.0	--	9.2	31,084.7

All table cells without observations in the inventory sample are indicated by --. Table value of 0.0 indicates the volume rounds to less than 0.1 million cubic feet. Columns and rows may not add to their totals due to rounding.

Table 14. -- Net volume of all live trees on forest land by species group and ownership group, Michigan, 2002-2006

(In million cubic feet)

Species group	Ownership group				All owners	
	Forest Service	Other Federal	State and local government	Undifferentiated private		
Softwood species groups						
Eastern softwood species groups						
Other yellow pines	2.0	0.3	1.4	154.5	158.2	
Eastern white and red pines	970.3	27.2	925.0	1,350.8	3,273.3	
Jack pine	150.9	12.4	212.9	159.1	535.3	
Spruce and balsam fir	344.4	56.7	375.9	917.1	1,694.1	
Eastern hemlock	194.1	16.1	167.6	577.1	954.8	
Other eastern softwoods	448.0	93.8	828.6	1,679.0	3,049.5	
All softwoods	2,109.7	206.6	2,511.3	4,837.6	9,665.2	
Hardwood species groups						
Eastern hardwood species groups						
Select white oaks	94.3	3.9	169.5	566.9	834.6	
Select red oaks	153.6	26.3	339.9	961.4	1,481.3	
Other white oaks	--	--	--	0.1	0.1	
Other red oaks	130.5	7.4	181.1	603.3	922.3	
Hickory	--	1.1	21.2	189.5	211.8	
Yellow birch	140.7	37.1	80.3	389.4	647.5	
Hard maple	704.6	78.0	735.5	3,096.9	4,615.0	
Soft maple	591.4	32.6	711.3	3,022.8	4,358.1	
Beech	72.6	38.0	87.4	340.5	538.6	
Tupelo and blackgum	--	--	0.6	10.4	11.1	
Ash	100.8	8.7	229.8	1,115.3	1,454.6	
Cottonwood and aspen	463.0	61.8	718.1	2,028.4	3,271.4	
Basswood	96.5	7.7	180.0	578.8	863.0	
Yellow-poplar	--	--	2.9	46.7	49.6	
Black walnut	--	--	6.1	61.1	67.2	
Other eastern soft hardwoods	191.2	72.9	325.9	1,382.7	1,972.7	
Other eastern hard hardwoods	--	--	1.9	30.1	32.0	
Eastern noncommercial hardwoods	5.8	1.7	11.7	69.5	88.7	
All hardwoods	2,745.1	377.1	3,803.4	14,493.8	21,419.5	
All species groups	4,854.9	583.7	6,314.7	19,331.4	31,084.7	

All table cells without observations in the inventory sample are indicated by --. Table value of 0.0 indicates the volume rounds to less than 0.1 million cubic feet. Columns and rows may not add to their totals due to rounding.

Table 15. -- Net volume of all live trees on forest land by species group and diameter class, Michigan, 2002-2006

(In million cubic feet)

Species group	Diameter class (inches)													All classes	
	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-24.9	25.0-28.9	29.0-32.9	33.0-36.9	37.0+		
Softwood species groups															
Eastern softwood species groups															
Other yellow pines	26	42	43	30	11	5	2	--	--	--	--	--	--	158	
Eastern white and red pines	246	449	525	488	383	307	222	200	231	135	70	6	13	3,273	
Jack pine	100	156	139	79	38	16	6	2	--	--	--	--	--	535	
Spruce and balsam fir	488	479	311	180	110	64	23	25	12	--	--	--	--	1,694	
Eastern hemlock	25	52	82	106	133	135	126	100	128	48	17	3	--	955	
Other eastern softwoods	528	694	642	463	308	188	103	48	48	17	5	5	--	3,049	
All softwoods	1,413	1,872	1,742	1,346	983	715	482	375	419	200	92	14	13	9,665	
Hardwood species groups															
Eastern hardwood species groups															
Select white oaks	42	67	90	100	94	90	93	64	77	53	22	22	21	835	
Select red oaks	51	90	161	207	208	230	174	127	133	70	22	7	--	1,481	
Other white oaks	--	0	--	--	--	--	--	--	--	--	--	--	--	0	
Other red oaks	34	66	95	107	127	116	99	84	100	50	18	11	16	922	
Hickory	11	22	22	31	34	29	15	18	16	3	--	10	--	212	
Yellow birch	47	78	96	89	77	73	67	36	46	15	17	3	3	648	
Hard maple	431	726	854	808	622	425	289	164	194	69	15	21	--	4,615	
Soft maple	468	695	779	689	520	385	262	183	210	71	44	24	30	4,358	
Beech	37	50	62	77	73	72	64	38	46	16	2	--	--	539	
Tupelo and blackgum	2	4	2	1	1	1	1	--	--	--	--	--	--	11	
Ash	203	239	242	219	198	124	81	47	55	30	14	1	--	1,455	
Cottonwood and aspen	383	469	539	553	478	349	198	135	88	36	10	22	11	3,271	
Basswood	41	96	146	175	154	100	64	35	35	9	7	--	--	863	
Yellow-poplar	1	1	2	4	6	4	7	7	16	2	--	--	--	50	
Black walnut	3	6	9	10	8	5	7	6	5	2	--	7	--	67	
Other eastern soft hardwoods	266	363	368	337	224	151	102	62	51	27	7	3	12	1,973	
Other eastern hard hardwoods	4	6	3	3	5	3	5	1	1	--	--	--	--	32	
Eastern noncommercial hardwoods	40	26	12	6	2	2	1	--	1	--	--	--	--	89	
All hardwoods	2,063	3,003	3,481	3,415	2,831	2,158	1,530	1,008	1,075	453	177	131	93	21,419	
All species groups	3,476	4,875	5,224	4,761	3,814	2,873	2,012	1,383	1,494	653	269	145	106	31,085	

All table cells without observations in the inventory sample are indicated by --. Table value of 0 indicates the volume rounds to less than 1 million cubic feet. Columns and rows may not add to their totals due to rounding.

Table 16. -- Net volume of all live trees on forest land by forest type group and stand origin, Michigan, 2002-2006

(In million cubic feet)

Forest type group	Stand origin		All forest land
	Natural stands	Artificial regeneration	
White / red / jack pine group	2,050.9	1,600.2	3,651.2
Spruce / fir group	3,690.0	49.7	3,739.8
Pinyon / juniper group	0.2	--	0.2
Douglas-fir group	--	4.3	4.3
Fir / spruce / mountain hemlock group	--	5.1	5.1
Exotic softwoods group	40.9	191.3	232.2
Oak / pine group	631.8	77.4	709.1
Oak / hickory group	4,549.0	39.8	4,588.8
Oak / gum / cypress group	95.0	--	95.0
Elm / ash / cottonwood group	2,161.1	2.1	2,163.2
Maple / beech / birch group	12,226.8	26.6	12,253.4
Aspen / birch group	3,600.0	30.4	3,630.4
Exotic hardwoods group	2.9	--	2.9
Nonstocked	9.2	--	9.2
All forest type groups	29,057.9	2,026.8	31,084.7

All table cells without observations in the inventory sample are indicated by --. Table value of 0.0 indicates the volume rounds to less than 0.1 million cubic feet. Columns and rows may not add to their totals due to rounding.

Table 17. -- Net volume of growing-stock trees on timberland by species group and diameter class, Michigan, 2002-2006
(In million cubic feet)

Species group	Diameter class (inches)													All classes	
	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-24.9	25.0-28.9	29.0-32.9	33.0-36.9	37.0+		
Softwood species groups															
Eastern softwood species groups															
Other yellow pines	21	37	37	27	10	4	1	--	--	--	--	--	--	137	
Eastern white and red pines	234	436	509	475	368	300	209	187	219	123	56	6	6	3,128	
Jack pine	86	148	130	74	35	15	4	1	--	--	--	--	--	493	
Spruce and balsam fir	468	456	293	169	97	55	23	22	11	--	--	--	--	1,596	
Eastern hemlock	21	47	73	95	119	123	109	84	103	27	11	3	--	816	
Other eastern softwoods	479	633	576	415	270	158	92	43	38	17	5	5	--	2,732	
All softwoods	1,311	1,757	1,619	1,255	899	654	439	337	371	168	72	14	6	8,902	
Hardwood species groups															
Eastern hardwood species groups															
Select white oaks	38	63	85	93	86	83	87	59	70	45	15	12	11	745	
Select red oaks	47	84	155	198	192	217	166	118	104	55	15	7	--	1,359	
Other white oaks	--	0	--	--	--	--	--	--	--	--	--	--	--	0	
Other red oaks	28	57	86	95	113	103	92	77	91	43	14	3	11	813	
Hickory	11	21	22	30	32	26	15	17	12	3	--	--	--	190	
Yellow birch	39	67	82	72	60	57	47	26	25	11	10	3	3	501	
Hard maple	402	686	808	756	579	391	251	138	151	43	5	15	--	4,225	
Soft maple	432	646	724	615	467	351	227	160	166	52	35	20	20	3,915	
Beech	34	45	55	64	60	56	53	27	34	4	2	--	--	435	
Tupelo and blackgum	1	3	2	0	1	1	1	--	--	--	--	--	--	10	
Ash	187	222	229	203	183	116	73	46	53	27	14	--	--	1,353	
Cottonwood and aspen	370	451	516	514	441	316	180	121	81	32	9	22	6	3,059	
Basswood	37	91	139	167	145	94	56	32	29	6	5	--	--	801	
Yellow-poplar	1	1	2	3	6	4	7	7	16	2	--	--	--	49	
Black walnut	3	6	8	8	6	4	7	4	3	2	--	7	--	56	
Other eastern soft hardwoods	212	299	306	270	184	122	83	51	42	18	7	3	--	1,597	
Other eastern hard hardwoods	2	3	2	1	2	2	4	1	1	--	--	--	--	19	
All hardwoods	1,843	2,747	3,221	3,090	2,557	1,943	1,350	885	875	343	129	92	51	19,127	
All species groups	3,154	4,504	4,840	4,345	3,457	2,597	1,788	1,222	1,246	511	201	106	58	28,030	

All table cells without observations in the inventory sample are indicated by --. Table value of 0 indicates the volume rounds to less than 1 million cubic feet. Columns and rows may not add to their totals due to rounding.

Table 18. -- Net volume of growing-stock trees on timberland by species group and ownership group, Michigan, 2002-2006

(In million cubic feet)

Species group	Ownership group				
	Forest Service	Other Federal	State and local government	Undifferentiated private	All owners
Softwood species groups					
Eastern softwood species groups					
Other yellow pines	0.6	--	1.2	135.2	136.9
Eastern white and red pines	926.0	10.5	895.7	1,296.0	3,128.1
Jack pine	141.8	9.2	195.3	147.1	493.3
Spruce and balsam fir	321.6	10.5	367.9	895.8	1,595.8
Eastern hemlock	160.2	8.3	100.3	547.2	815.9
Other eastern softwoods	392.8	20.1	768.8	1,550.7	2,732.4
All softwoods	1,942.8	58.4	2,329.3	4,571.9	8,902.5
Hardwood species groups					
Eastern hardwood species groups					
Select white oaks	86.4	3.8	148.5	506.3	745.0
Select red oaks	135.1	18.1	304.1	902.0	1,359.3
Other white oaks	--	--	--	0.1	0.1
Other red oaks	112.5	5.0	163.3	531.9	812.6
Hickory	--	1.1	19.4	169.3	189.8
Yellow birch	100.9	10.3	57.0	332.8	500.9
Hard maple	619.4	50.4	633.6	2,921.5	4,225.0
Soft maple	521.7	25.6	629.2	2,738.8	3,915.4
Beech	54.4	25.6	70.7	284.7	435.5
Tupelo and blackgum	--	--	0.5	9.1	9.6
Ash	93.5	1.8	209.4	1,048.1	1,352.8
Cottonwood and aspen	427.8	18.7	674.1	1,938.3	3,058.9
Basswood	93.8	2.4	154.0	550.7	800.9
Yellow-poplar	--	--	2.9	46.1	49.0
Black walnut	--	--	6.0	50.4	56.3
Other eastern soft hardwoods	159.5	13.2	272.8	1,151.2	1,596.7
Other eastern hard hardwoods	--	--	1.4	17.7	19.1
All hardwoods	2,405.0	176.1	3,347.2	13,198.8	19,127.0
All species groups	4,347.9	234.5	5,676.5	17,770.7	28,029.5

All table cells without observations in the inventory sample are indicated by --. Table value of 0.0 indicates the volume rounds to less than 0.1 million cubic feet. Columns and rows may not add to their totals due to rounding.

Table 19. -- Net volume of sawtimber trees (International 1/4-inch rule) on timberland by species group and diameter class, Michigan, 2002-2006

(In million board feet)¹

Species group	Diameter class (inches)											All classes	
	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-24.9	25.0-28.9	29.0-32.9	33.0-36.9	37.0+		
Softwood species groups													
Eastern softwood species groups													
Other yellow pines	175	133	49	22	4	--	--	--	--	--	--	383	
Eastern white and red pines	2,505	2,387	1,896	1,589	1,133	1,035	1,242	719	333	36	40	12,914	
Jack pine	623	362	181	78	24	5	--	--	--	--	--	1,273	
Spruce and balsam fir	1,462	872	520	306	133	129	67	--	--	--	--	3,489	
Eastern hemlock	354	461	595	635	586	463	588	161	64	17	--	3,924	
Other eastern softwoods	2,876	2,101	1,408	846	505	240	216	103	30	33	--	8,357	
All softwoods	7,995	6,316	4,649	3,475	2,384	1,872	2,112	983	428	86	40	30,340	
Hardwood species groups													
Eastern hardwood species groups													
Select white oaks	--	379	372	375	406	282	348	232	78	64	58	2,594	
Select red oaks	--	802	835	989	783	571	517	286	82	39	--	4,903	
Other red oaks	--	388	497	474	440	376	455	224	72	18	64	3,007	
Hickory	--	109	130	114	70	81	57	16	--	--	--	576	
Yellow birch	--	316	280	280	235	131	131	58	53	16	20	1,520	
Hard maple	--	3,136	2,587	1,828	1,210	684	763	227	24	80	--	10,540	
Soft maple	--	2,505	2,059	1,616	1,081	782	831	267	187	108	112	9,548	
Beech	--	283	287	279	269	141	180	21	10	--	--	1,470	
Tupelo and blackgum	--	1	6	3	4	--	--	--	--	--	--	14	
Ash	--	842	815	538	350	223	265	138	74	--	--	3,245	
Cottonwood and aspen	--	2,178	1,996	1,489	870	593	405	163	45	120	33	7,892	
Basswood	--	706	655	440	272	159	146	33	26	--	--	2,437	
Yellow-poplar	--	14	28	16	32	37	82	13	--	--	--	222	
Black walnut	--	32	28	19	34	22	14	11	--	36	--	196	
Other eastern soft hardwoods	--	1,098	805	557	392	251	210	94	35	18	--	3,459	
Other eastern hard hardwoods	--	6	11	10	17	4	7	--	--	--	--	55	
All hardwoods	--	12,794	11,388	9,027	6,466	4,340	4,411	1,782	688	500	286	51,681	
All species groups	7,995	19,110	16,037	12,502	8,850	6,212	6,523	2,765	1,115	586	326	82,021	

All table cells without observations in the inventory sample are indicated by --. Table value of 0 indicates the volume rounds to less than 1 million board feet. Columns and rows may not add to their totals due to rounding.

¹ International 1/4-inch rule.

Table 19a. -- Net volume of sawtimber trees (Doyle rule) on timberland by species group and diameter class, Michigan, 2002-2006

(In million board feet)¹

Species group	Diameter class (inches)											All classes	
	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-24.9	25.0-28.9	29.0-32.9	33.0-36.9	37.0+		
Softwood species groups													
Eastern softwood species groups													
Other yellow pines	61	64	29	15	3	--	--	--	--	--	--	171	
Eastern white and red pines	865	1,141	1,136	1,097	871	887	1,106	690	369	40	45	8,247	
Jack pine	215	173	108	54	19	5	--	--	--	--	--	574	
Spruce and balsam fir	505	417	312	211	102	110	59	--	--	--	--	1,717	
Eastern hemlock	122	220	357	439	450	397	521	155	71	19	--	2,750	
Other eastern softwoods	994	1,004	844	584	388	206	192	98	33	37	--	4,380	
All softwoods	2,762	3,019	2,786	2,401	1,832	1,605	1,879	942	473	95	45	17,839	
Hardwood species groups													
Eastern hardwood species groups													
Select white oaks	--	158	191	220	267	203	281	213	88	73	66	1,759	
Select red oaks	--	335	427	582	515	410	413	258	93	44	--	3,076	
Other red oaks	--	162	254	279	289	270	366	203	82	21	72	1,997	
Hickory	--	45	66	67	46	58	45	15	--	--	--	343	
Yellow birch	--	132	143	164	154	94	106	53	60	19	23	948	
Hard maple	--	1,308	1,324	1,075	795	491	612	206	28	91	--	5,930	
Soft maple	--	1,045	1,054	950	710	562	668	239	213	123	127	5,690	
Beech	--	118	147	164	177	101	146	18	12	--	--	882	
Tupelo and blackgum	--	0	3	2	3	--	--	--	--	--	--	8	
Ash	--	351	417	316	230	160	214	126	84	--	--	1,899	
Cottonwood and aspen	--	909	1,021	876	572	426	325	146	51	136	37	4,499	
Basswood	--	294	335	259	178	114	117	30	30	--	--	1,358	
Yellow-poplar	--	6	14	10	21	27	65	11	--	--	--	154	
Black walnut	--	13	14	11	23	16	11	11	--	41	--	140	
Other eastern soft hardwoods	--	458	412	327	257	180	168	85	40	20	--	1,949	
Other eastern hard hardwoods	--	2	5	6	11	3	6	--	--	--	--	34	
All hardwoods	--	5,338	5,829	5,310	4,247	3,116	3,541	1,613	780	567	324	30,665	
All species groups	2,762	8,357	8,614	7,710	6,080	4,721	5,420	2,555	1,254	662	369	48,504	

All table cells without observations in the inventory sample are indicated by --. Table value of 0 indicates the volume rounds to less than 1 million board feet. Columns and rows may not add to their totals due to rounding.

¹ Doyle rule.

Table 20. -- Net volume of sawtimber trees on timberland by species group and ownership group, Michigan, 2002-2006
 (In million cubic feet)

Species group	Ownership group					All owners	
	Forest Service	Other Federal	State and local government	Undifferentiated private			
Softwood species groups							
Eastern softwood species groups							
Other yellow pines	0.4	--	0.6	65.7	66.6		
Eastern white and red pines	646.0	8.5	653.5	877.1	2,185.0		
Jack pine	58.2	3.7	86.4	70.9	219.2		
Spruce and balsam fir	137.7	5.5	127.8	323.6	594.6		
Eastern hemlock	132.0	6.9	77.9	438.1	654.9		
Other eastern softwoods	233.5	14.5	349.1	795.0	1,392.0		
All softwoods	1,207.7	39.1	1,295.2	2,570.4	5,112.4		
Hardwood species groups							
Eastern hardwood species groups							
Select white oaks	41.4	1.3	76.7	290.8	410.1		
Select red oaks	77.5	10.7	168.1	525.6	781.9		
Other red oaks	58.3	2.3	96.0	319.8	476.4		
Hickory	--	0.3	9.1	82.5	92.0		
Yellow birch	59.7	6.9	22.6	149.5	238.7		
Hard maple	256.5	23.1	250.4	1,135.1	1,665.0		
Soft maple	183.3	9.7	225.2	1,081.6	1,499.8		
Beech	27.1	15.4	38.1	149.2	229.7		
Tupelo and blackgum	--	--	0.2	2.1	2.3		
Ash	29.4	1.0	80.2	411.2	521.9		
Cottonwood and aspen	182.9	8.8	234.6	838.5	1,264.7		
Basswood	44.9	1.1	72.7	271.3	390.0		
Yellow-poplar	--	--	2.0	32.7	34.7		
Black walnut	--	--	2.1	28.5	30.7		
Other eastern soft hardwoods	56.6	6.3	84.4	400.3	547.7		
Other eastern hard hardwoods	--	--	--	8.9	8.9		
All hardwoods	1,017.6	86.8	1,362.5	5,727.6	8,194.5		
All species groups	2,225.3	125.9	2,657.7	8,298.0	13,306.9		

All table cells without observations in the inventory sample are indicated by --. Table value of 0.0 indicates the volume rounds to less than 0.1 million cubic feet. Columns and rows may not add to their totals due to rounding.

Table 21. -- Average annual net growth of all live trees by owner class and forest land status, Michigan, 2000-2001 to 2005-2006

(In million cubic feet)

Owner class	Unreserved forests			Reserved forests			All forest land
	Timberland	Unproductive	Total	Productive	Unproductive	Total	
Forest Service							
National forest	81.9	1.4	83.4	-1.6	--	-1.6	81.8
Other Federal							
National Park Service	0.7	--	0.7	2.1	0.8	2.9	3.5
Fish and Wildlife Service	1.9	--	1.9	--	--	--	1.9
Other Federal	4.6	--	4.6	--	--	--	4.6
State and local government							
State	113.7	2.0	115.7	-2.2	--	-2.2	113.5
Local (county, municipal, etc.)	6.0	--	6.0	0.8	--	0.8	6.8
Private							
Undifferentiated private	555.1	5.5	560.6	0.5	0.4	1.0	561.5
All owners	763.8	9.0	772.8	-0.4	1.2	0.8	773.6

All table cells without observations in the inventory sample are indicated by --. Table value of 0.0 indicates the volume rounds to less than 0.1 million cubic feet. Columns and rows may not add to their totals due to rounding.

Table 22. -- Average annual net growth of all live trees on forest land by forest type group and stand-size class, Michigan, 2000-2001 to 2005-2006

(In million cubic feet)

Forest type group	Stand-size class					All size classes
	Large diameter	Medium diameter	Small diameter	Chaparral	Non stocked	
White / red / jack pine group	53.7	36.0	14.7	--	--	104.4
Spruce / fir group	32.0	39.9	10.0	--	--	82.0
Fir / spruce / mountain hemlock group	--	--	0.4	--	--	0.4
Exotic softwoods group	1.9	2.2	2.2	--	--	6.4
Oak / pine group	7.0	6.6	3.1	--	--	16.7
Oak / hickory group	95.3	35.2	8.7	--	--	139.3
Oak / gum / cypress group	4.4	--	-0.1	--	--	4.3
Elm / ash / cottonwood group	45.4	26.7	5.6	--	--	77.7
Maple / beech / birch group	154.5	105.7	15.0	--	--	275.2
Aspen / birch group	-2.1	40.3	26.1	--	--	64.3
Exotic hardwoods group	0.7	--	--	--	--	0.7
Nonstocked	--	--	--	--	2.4	2.4
All forest type groups	392.9	292.6	85.6	--	2.4	773.6

All table cells without observations in the inventory sample are indicated by --. Table value of 0.0 indicates the volume rounds to less than 0.1 million cubic feet. Columns and rows may not add to their totals due to rounding.

Table 23. -- Average annual net growth of all live trees on forest land by species group and ownership group, Michigan, 2000-2001 to 2005-2006

(In million cubic feet)

Species group	Ownership group					All owners	
	Forest Service	Other Federal	State and local government	Undifferentiated private			
Softwood species groups							
Eastern softwood species groups							
Other yellow pines	--	--	0.3	-2.1	-1.8		
Eastern white and red pines	31.6	0.9	24.3	58.4	115.3		
Jack pine	2.4	0.2	4.4	0.9	7.9		
Spruce and balsam fir	6.0	1.9	4.3	25.2	37.3		
Eastern hemlock	3.5	--	2.1	10.0	15.6		
Other eastern softwoods	7.8	1.9	9.1	32.0	50.7		
All softwoods	51.3	4.9	44.5	124.4	225.1		
Hardwood species groups							
Eastern hardwood species groups							
Select white oaks	1.4	--	0.9	14.6	16.9		
Select red oaks	4.2	-1.5	12.3	38.3	53.4		
Other white oaks	--	--	--	0.0	0.0		
Other red oaks	0.4	--	11.6	18.7	30.7		
Hickory	--	--	1.3	6.2	7.5		
Yellow birch	-2.1	1.3	0.4	2.4	1.9		
Hard maple	8.1	0.6	15.0	88.5	112.1		
Soft maple	11.2	0.2	16.8	119.3	147.5		
Beech	1.2	0.5	-3.3	2.8	1.3		
Tupelo and blackgum	--	--	0.0	0.3	0.3		
Ash	1.0	0.1	1.0	31.2	33.2		
Cottonwood and aspen	4.7	4.1	16.4	50.1	75.3		
Basswood	-0.3	0.0	-0.5	16.0	15.2		
Yellow-poplar	--	--	0.0	2.8	2.8		
Black walnut	--	--	0.1	3.4	3.5		
Other eastern soft hardwoods	0.9	0.0	3.4	39.1	43.4		
Other eastern hard hardwoods	--	--	--	1.2	1.2		
Eastern noncommercial hardwoods	-0.2	-0.1	0.3	2.5	2.5		
All hardwoods	30.5	5.1	75.8	437.2	548.6		
All species groups	81.8	10.0	120.3	561.5	773.6		

All table cells without observations in the inventory sample are indicated by --. Table value of 0.0 indicates the volume rounds to less than 0.1 million cubic feet. Columns and rows may not add to their totals due to rounding.

Table 24. -- Average annual net growth of growing-stock trees on timberland by species group and ownership group, Michigan, 2000-2001 to 2005-2006

(In million cubic feet)

Species group	Ownership group					All owners	
	Forest Service	Other Federal	State and local government	Undifferentiated private			
Softwood species groups							
Eastern softwood species groups							
Other yellow pines	--	--	0.2	-2.3	-2.1		
Eastern white and red pines	31.3	0.8	23.7	53.0	108.8		
Jack pine	1.9	0.2	4.1	1.3	7.5		
Spruce and balsam fir	5.5	0.3	4.5	26.0	36.3		
Eastern hemlock	3.0	--	3.4	12.3	18.6		
Other eastern softwoods	8.3	0.2	13.6	51.5	73.6		
All softwoods	49.9	1.5	49.6	141.8	242.7		
Hardwood species groups							
Eastern hardwood species groups							
Select white oaks	1.1	--	3.3	13.3	17.7		
Select red oaks	4.0	0.1	13.0	34.0	51.0		
Other white oaks	--	--	--	0.0	0.0		
Other red oaks	1.1	--	10.4	15.9	27.4		
Hickory	--	--	1.3	4.0	5.3		
Yellow birch	-1.0	--	0.9	5.1	5.1		
Hard maple	9.5	0.0	12.0	78.7	100.2		
Soft maple	10.2	0.1	16.2	107.4	134.0		
Beech	1.3	0.3	-2.9	6.5	5.2		
Tupelo and blackgum	--	--	0.0	0.2	0.2		
Ash	1.1	0.1	1.4	28.9	31.5		
Cottonwood and aspen	5.2	4.3	19.5	52.0	81.1		
Basswood	0.2	--	-0.4	15.7	15.4		
Yellow-poplar	--	--	0.0	2.5	2.6		
Black walnut	--	--	0.2	2.7	2.9		
Other eastern soft hardwoods	1.1	0.1	10.8	26.9	38.9		
Other eastern hard hardwoods	--	--	--	0.0	0.0		
All hardwoods	33.7	5.1	85.8	393.9	518.4		
All species groups	83.6	6.6	135.3	535.7	761.2		

All table cells without observations in the inventory sample are indicated by --. Table value of 0.0 indicates the volume rounds to less than 0.1 million cubic feet. Columns and rows may not add to their totals due to rounding.

Table 25. -- Average annual mortality of all live trees by owner class and forest land status, Michigan, 2000-2001 to 2005-2006

(In million cubic feet)

Owner class	Unreserved forests			Reserved forests			All forest land
	Timberland	Unproductive	Total	Productive	Unproductive	Total	
Forest Service							
National forest	32.3	0.1	32.3	3.2	--	3.2	35.6
Other Federal							
National Park Service	0.1	--	0.1	1.4	0.1	1.6	1.6
Fish and Wildlife Service	0.3	--	0.3	--	--	--	0.3
Other Federal	0.0	--	0.0	--	--	--	0.0
State and local government							
State	70.2	0.1	70.3	2.9	--	2.9	73.2
Local (county, municipal, etc.)	5.6	--	5.6	0.4	--	0.4	6.0
Private							
Undifferentiated private	223.7	2.3	226.0	--	0.1	0.1	226.1
All owners	332.1	2.5	334.6	8.0	0.2	8.2	342.9

All table cells without observations in the inventory sample are indicated by --. Table value of 0.0 indicates the volume rounds to less than 0.1 million cubic feet. Columns and rows may not add to their totals due to rounding.

Table 26. -- Average annual mortality of all live trees on forest land by forest type group and stand-size class, Michigan, 2000-2001 to 2005-2006

(In million cubic feet)

Forest type group	Stand-size class					All size classes
	Large diameter	Medium diameter	Small diameter	Chaparral	Non stocked	
White / red / jack pine group	17.8	5.5	0.2	--	--	23.4
Spruce / fir group	21.7	34.0	3.1	--	--	58.8
Exotic softwoods group	7.5	1.4	0.1	--	--	9.0
Oak / pine group	4.9	1.8	1.0	--	--	7.8
Oak / hickory group	21.9	8.0	0.2	--	--	30.1
Oak / gum / cypress group	0.5	--	--	--	--	0.5
Elm / ash / cottonwood group	15.2	18.5	4.1	--	--	37.7
Maple / beech / birch group	58.1	42.7	5.3	--	--	106.1
Aspen / birch group	27.1	35.7	6.3	--	--	69.1
Nonstocked	--	--	--	--	0.3	0.3
All forest type groups	174.7	147.6	20.3	--	0.3	342.9

All table cells without observations in the inventory sample are indicated by --. Table value of 0.0 indicates the volume rounds to less than 0.1 million cubic feet. Columns and rows may not add to their totals due to rounding.

Table 27. -- Average annual mortality of all live trees on forest land by species group and ownership group, Michigan, 2000-2001 to 2005-2006

(In million cubic feet)

Species group	Ownership group					All owners	
	Forest Service	Other Federal	State and local government	Undifferentiated private			
Softwood species groups							
Eastern softwood species groups							
Other yellow pines	--	--	--	10.6	10.6		
Eastern white and red pines	2.2	--	6.7	8.3	17.2		
Jack pine	3.7	--	2.9	3.5	10.1		
Spruce and balsam fir	5.2	0.2	12.6	27.7	45.7		
Eastern hemlock	0.2	--	1.2	3.7	5.2		
Other eastern softwoods	2.6	--	8.0	15.1	25.8		
All softwoods	13.9	0.2	31.4	69.0	114.5		
Hardwood species groups							
Eastern hardwood species groups							
Select white oaks	0.1	--	--	1.8	2.0		
Select red oaks	0.7	--	0.7	1.6	3.0		
Other red oaks	1.2	--	--	2.8	4.0		
Hickory	--	--	--	2.6	2.6		
Yellow birch	0.8	--	0.8	5.9	7.5		
Hard maple	3.7	0.1	1.7	11.7	17.2		
Soft maple	1.2	--	4.5	13.9	19.6		
Beech	--	--	4.6	1.8	6.5		
Ash	0.6	--	4.0	17.0	21.6		
Cottonwood and aspen	8.7	0.7	22.1	51.4	83.0		
Basswood	1.5	--	0.5	2.8	4.7		
Other eastern soft hardwoods	2.9	0.9	8.9	42.5	55.3		
Other eastern hard hardwoods	--	--	--	0.3	0.3		
Eastern noncommercial hardwoods	0.2	0.1	0.1	0.8	1.2		
All hardwoods	21.7	1.8	47.8	157.1	228.4		
All species groups	35.6	2.0	79.3	226.1	342.9		

All table cells without observations in the inventory sample are indicated by --. Table value of 0.0 indicates the volume rounds to less than 0.1 million cubic feet. Columns and rows may not add to their totals due to rounding.

Table 28. -- Average annual mortality of growing-stock trees on timberland by species group and ownership group, Michigan, 2000-2001 to 2005-2006

(In million cubic feet)

Species group	Ownership group					All owners	
	Forest Service	Other Federal	State and local government	Undifferentiated private			
Softwood species groups							
Eastern softwood species groups							
Other yellow pines	--	--	--	9.0	9.0		
Eastern white and red pines	1.7	--	6.6	8.1	16.4		
Jack pine	3.5	--	2.9	3.2	9.5		
Spruce and balsam fir	5.0	0.0	12.2	26.7	43.9		
Eastern hemlock	0.2	--	1.1	3.5	4.8		
Other eastern softwoods	1.5	--	7.4	12.0	20.9		
All softwoods	11.9	0.0	30.1	62.5	104.5		
Hardwood species groups							
Eastern hardwood species groups							
Select white oaks	0.1	--	--	1.7	1.9		
Select red oaks	0.6	--	0.4	1.5	2.5		
Other red oaks	0.3	--	--	2.5	2.8		
Hickory	--	--	--	2.5	2.5		
Yellow birch	0.2	--	0.7	3.1	4.0		
Hard maple	0.9	0.1	1.1	9.6	11.8		
Soft maple	0.7	--	3.4	8.5	12.6		
Beech	--	--	4.3	1.2	5.5		
Ash	0.4	--	3.8	15.8	20.0		
Cottonwood and aspen	8.1	--	16.9	41.3	66.3		
Basswood	1.2	--	0.3	2.2	3.8		
Other eastern soft hardwoods	2.4	--	6.6	35.1	44.0		
Other eastern hard hardwoods	--	--	--	0.3	0.3		
All hardwoods	14.9	0.1	37.5	125.5	177.9		
All species groups	26.8	0.1	67.5	188.0	282.4		

All table cells without observations in the inventory sample are indicated by --. Table value of 0.0 indicates the volume rounds to less than 0.1 million cubic feet. Columns and rows may not add to their totals due to rounding.

Table 29. -- Average annual removals of all live trees on forest land by species group and ownership group, Michigan, 2000-2001 to 2005-2006

(In million cubic feet)

Species group	Ownership group					All owners	
	Forest Service	Other Federal	State and local government	Undifferentiated private			
Softwood species groups							
Eastern softwood species groups							
Other yellow pines	--	--	4.1	--	4.1		
Eastern white and red pines	0.2	--	7.8	8.2	16.3		
Jack pine	1.0	--	1.7	1.2	3.8		
Spruce and balsam fir	2.9	--	2.4	27.0	32.3		
Eastern hemlock	--	--	0.3	4.7	5.0		
Other eastern softwoods	0.3	--	6.3	12.8	19.3		
All softwoods	4.4	--	22.6	53.9	80.9		
Hardwood species groups							
Eastern hardwood species groups							
Select white oaks	--	--	3.8	2.9	6.8		
Select red oaks	--	--	8.1	24.3	32.4		
Other white oaks	--	--	--	0.6	0.6		
Other red oaks	--	--	2.6	3.2	5.8		
Hickory	--	--	--	2.1	2.1		
Yellow birch	0.1	--	0.7	4.8	5.6		
Hard maple	2.3	--	7.0	47.7	57.0		
Soft maple	2.0	--	10.1	36.2	48.2		
Beech	0.1	--	1.1	7.4	8.7		
Ash	--	--	2.0	7.1	9.1		
Cottonwood and aspen	4.1	--	13.7	48.7	66.5		
Basswood	0.9	--	--	5.9	6.8		
Other eastern soft hardwoods	1.9	--	2.8	15.8	20.5		
Other eastern hard hardwoods	--	--	--	0.4	0.4		
Eastern noncommercial hardwoods	--	--	--	2.2	2.2		
All hardwoods	11.5	--	52.0	209.3	272.8		
All species groups	15.9	--	74.6	263.2	353.7		

All table cells without observations in the inventory sample are indicated by --. Table value of 0.0 indicates the volume rounds to less than 0.1 million cubic feet. Columns and rows may not add to their totals due to rounding.

Table 30. -- Average annual removals of growing-stock trees on timberland by species group and ownership group, Michigan, 2000-2001 to 2005-2006

(In million cubic feet)

Species group	Ownership group					All owners	
	Forest Service	Other Federal	State and local government	Undifferentiated private			
Softwood species groups							
Eastern softwood species groups							
Other yellow pines	--	--	3.2	--	3.2		
Eastern white and red pines	0.2	--	7.7	10.3	18.2		
Jack pine	0.9	--	1.6	1.2	3.8		
Spruce and balsam fir	2.9	--	2.3	33.1	38.2		
Eastern hemlock	--	--	0.3	5.6	5.9		
Other eastern softwoods	0.2	--	6.0	13.7	20.0		
All softwoods	4.3	--	21.2	63.9	89.4		
Hardwood species groups							
Eastern hardwood species groups							
Select white oaks	--	--	3.6	2.8	6.4		
Select red oaks	--	--	6.9	22.6	29.5		
Other white oaks	--	--	--	0.6	0.6		
Other red oaks	--	--	2.5	3.0	5.5		
Hickory	--	--	--	2.0	2.0		
Yellow birch	0.1	--	0.6	4.1	4.8		
Hard maple	1.7	--	6.2	42.8	50.7		
Soft maple	1.9	--	8.9	28.3	39.1		
Beech	0.1	--	1.0	5.8	7.0		
Ash	--	--	2.0	6.6	8.5		
Cottonwood and aspen	3.9	--	12.3	46.8	63.0		
Basswood	0.7	--	--	5.7	6.4		
Other eastern soft hardwoods	1.8	--	2.4	15.7	19.9		
Other eastern hard hardwoods	--	--	--	0.1	0.1		
All hardwoods	10.3	--	46.5	186.9	243.7		
All species groups	14.6	--	67.7	250.8	333.0		

All table cells without observations in the inventory sample are indicated by --. Table value of 0.0 indicates the volume rounds to less than 0.1 million cubic feet. Columns and rows may not add to their totals due to rounding.

Table 31. -- Aboveground dry weight of all live trees by owner class and forest land status, Michigan, 2002-2006

(In thousand dry tons)

Owner class	Unreserved forests			Reserved forests			All forest land
	Timberland	Unproductive	Total	Productive	Unproductive	Total	
Forest Service							
National forest	113,315	848	114,163	5,917	--	5,917	120,080
Other national forest	392	--	392	--	--	--	392
Other Federal							
National Park Service	4,235	308	4,543	7,224	129	7,353	11,896
Fish and Wildlife Service	530	--	530	59	--	59	589
Department of Defense or Energy	717	--	717	--	--	--	717
Other Federal	1,257	--	1,257	--	--	--	1,257
State and local government							
State	140,922	440	141,362	5,674	--	5,674	147,035
Local (county, municipal, etc.)	14,827	--	14,827	186	--	186	15,013
Other non-Federal lands	495	--	495	--	--	--	495
Private							
Undifferentiated private	515,760	2,249	518,008	--	--	--	518,008
All owners	792,451	3,844	796,295	19,059	129	19,189	815,483

All table cells without observations in the inventory sample are indicated by --. Table value of 0 indicates the aboveground tree biomass rounds to less than 1 thousand dry tons. Columns and rows may not add to their totals due to rounding.

Table 32. -- Aboveground dry weight of all live trees on forest land by species group and diameter class, Michigan, 2002-2006

(In thousand dry tons)

Species group	Diameter class (inches)															All classes	
	1.0- 2.9	3.0- 4.9	5.0- 6.9	7.0- 8.9	9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 22.9	23.0- 24.9	25.0- 26.9	27.0- 28.9	29.0+		
Softwood species groups																	
Eastern softwood species groups																	
Other yellow pines	57	288	579	864	869	574	208	103	41	--	--	--	--	--	--	3,582	
Eastern white and red pines	422	1,574	4,445	7,829	8,999	8,265	6,450	5,131	3,715	3,330	2,283	1,544	1,206	1,007	1,477	57,676	
Jack pine	307	892	1,874	2,802	2,447	1,371	652	268	113	30	--	--	--	--	--	10,754	
Spruce and balsam fir	4,556	7,513	9,506	8,838	5,538	3,108	1,845	1,049	381	408	146	52	--	--	--	42,942	
Eastern hemlock	106	317	606	1,189	1,776	2,246	2,758	2,729	2,508	1,976	1,590	920	492	422	376	20,009	
Other eastern softwoods	1,277	4,597	9,164	11,371	10,215	7,156	4,627	2,792	1,525	701	418	276	168	65	137	54,488	
All softwoods	6,725	15,180	26,173	32,893	29,844	22,720	16,540	12,072	8,282	6,444	4,437	2,792	1,866	1,495	1,990	189,452	
Hardwood species groups																	
Eastern hardwood species groups																	
Select white oaks	268	721	1,500	2,272	2,965	3,192	2,967	2,775	2,830	1,944	1,227	1,111	685	887	1,978	27,323	
Select red oaks	471	1,069	1,725	2,888	4,958	6,192	6,160	6,685	4,970	3,603	2,350	1,403	1,176	756	849	45,257	
Other white oaks	--	--	--	2	--	--	--	--	--	--	--	--	--	--	--	2	
Other red oaks	301	645	1,177	2,169	3,005	3,307	3,844	3,467	2,913	2,420	1,711	1,169	799	593	1,331	28,854	
Hickory	103	233	409	745	701	951	1,057	900	452	534	377	113	--	85	302	6,961	
Yellow birch	341	986	1,550	2,449	2,930	2,719	2,316	2,150	1,950	1,026	730	582	225	228	632	20,815	
Hard maple	3,651	8,347	13,914	22,270	25,341	23,440	17,701	11,948	8,051	4,545	3,258	2,099	1,083	805	983	147,436	
Soft maple	3,696	7,716	13,427	18,979	20,621	17,930	13,236	9,683	6,529	4,478	3,032	2,171	1,351	418	2,330	125,598	
Beech	612	1,037	1,211	1,560	1,860	2,278	2,150	2,092	1,834	1,084	746	640	317	239	48	17,708	
Tupelo and blackgum	17	23	46	95	49	27	32	17	21	--	--	--	--	--	--	327	
Ash	2,144	4,181	5,801	6,583	6,537	5,859	5,214	3,231	2,131	1,203	719	660	364	400	420	45,447	
Cottonwood and aspen	3,386	6,723	8,560	10,031	11,196	11,320	9,651	7,107	4,012	2,707	1,005	759	469	203	822	77,951	
Basswood	142	372	819	1,824	2,698	3,121	2,715	1,744	1,088	608	319	268	96	74	117	16,003	
Yellow-poplar	8	23	21	33	33	80	128	73	132	149	234	78	47	--	--	1,039	
Black walnut	11	56	91	162	242	254	192	126	171	163	124	--	--	50	155	1,796	
Other eastern soft hardwoods	2,096	4,665	7,312	9,485	9,305	8,349	5,432	3,599	2,416	1,376	766	370	277	310	436	56,192	
Other eastern hard hardwoods	70	71	110	160	95	80	135	62	126	19	30	--	--	--	--	958	
Eastern noncommercial hardwoods	2,008	1,769	1,208	742	321	180	44	43	18	--	--	31	--	--	--	6,364	
All hardwoods	19,325	38,638	58,881	82,450	92,858	89,277	72,973	55,701	39,645	25,859	16,628	11,453	6,890	5,048	10,405	626,031	
All species groups	26,050	53,818	85,054	115,343	122,702	111,997	89,513	67,772	47,928	32,303	21,066	14,245	8,755	6,543	12,395	815,483	

All table cells without observations in the inventory sample are indicated by --. Table value of 0 indicates the aboveground tree biomass rounds to less than 1 thousand dry tons. Columns and rows may not add to their totals due to rounding.

Table 54. -- Area of accessible forest land by Forest Survey Unit, county, and forest land status, Michigan, 2002-2006

(In thousand acres)

Forest Survey Unit and county	Unreserved forests			Reserved forests			All forest land
	Timberland	Unproductive	Total	Productive	Unproductive	Total	
Eastern Upper Peninsula							
Alger	509.2	5.7	514.9	8.2	--	8.2	523.1
Chippewa	789.1	26.2	815.3	3.1	--	3.1	818.4
Delta	602.9	5.2	608.1	--	--	--	608.1
Luce	491.9	8.4	500.3	2.7	--	2.7	503.0
Mackinac	563.7	11.9	575.5	9.3	--	9.3	584.9
Menominee	499.9	2.6	502.5	--	--	--	502.5
Schoolcraft	562.3	5.3	567.5	8.0	--	8.0	575.6
Total	4,019.0	65.2	4,084.2	31.3	--	31.3	4,115.5
Western Upper Peninsula							
Baraga	517.5	3.4	520.9	11.5	--	11.5	532.4
Dickinson	402.2	--	402.2	--	--	--	402.2
Gogebic	612.3	3.4	615.7	38.2	--	38.2	653.9
Houghton	511.9	--	511.9	17.0	--	17.0	528.9
Iron	682.9	2.2	685.0	--	--	--	685.0
Keweenaw	198.5	8.4	206.9	118.9	5.4	124.3	331.3
Marquette	985.8	21.6	1,007.3	12.0	--	12.0	1,019.3
Ontonagon	683.1	8.7	691.8	50.2	--	50.2	742.0
Total	4,594.2	47.7	4,641.9	247.7	5.4	253.2	4,895.0

(Table 54 continued on next page)

(Table 54 continued)

Forest Survey Unit and county	Unreserved forests			Reserved forests			All forest land
	Timberland	Unproductive	Total	Productive	Unproductive	Total	
Northern Lower Peninsula							
Alcona	343.8	3.1	346.8	--	--	--	346.8
Alpena	253.1	3.1	256.2	--	--	--	256.2
Antrim	183.8	--	183.8	--	--	--	183.8
Arenac	109.4	2.6	111.9	--	--	--	111.9
Bay	36.4	--	36.4	--	--	--	36.4
Benzie	124.3	--	124.3	5.6	--	5.6	129.9
Charlevoix	167.0	--	167.0	--	--	--	167.0
Cheboygan	365.0	2.8	367.8	--	--	--	367.8
Clare	187.3	0.1	187.4	--	--	--	187.4
Crawford	285.6	8.4	294.0	--	--	--	294.0
Emmet	196.9	--	196.9	--	--	--	196.9
Gladwin	199.2	--	199.2	--	--	--	199.2
Grand Traverse	190.7	5.6	196.3	2.3	--	2.3	198.6
Iosco	260.9	8.3	269.2	--	--	--	269.2
Isabella	106.1	--	106.1	--	--	--	106.1
Kalkaska	289.6	--	289.6	--	--	--	289.6
Lake	315.7	--	315.7	--	--	--	315.7
Leelanau	110.9	0.6	111.5	19.6	--	19.6	131.0
Manistee	237.8	2.3	240.2	--	--	--	240.2
Mason	178.0	2.8	180.8	5.3	--	5.3	186.1
Mecosta	124.2	--	124.2	--	--	--	124.2
Midland	154.2	--	154.2	--	--	--	154.2
Missaukee	230.2	1.4	231.6	--	--	--	231.6
Montmorency	295.5	8.5	304.0	--	--	--	304.0
Newaygo	320.4	--	320.4	--	--	--	320.4
Oceana	190.8	--	190.8	--	--	--	190.8
Ogemaw	228.6	--	228.6	2.6	--	2.6	231.2
Osceola	141.6	--	141.6	--	--	--	141.6
Oscoda	307.4	13.7	321.0	--	--	--	321.0
Otsego	254.7	4.1	258.8	--	--	--	258.8
Presque Isle	307.1	9.2	316.4	--	--	--	316.4
Roscommon	271.6	2.8	274.4	--	--	--	274.4
Wexford	256.4	1.9	258.3	--	--	--	258.3
Total	7,224.3	81.0	7,305.3	35.4	--	35.4	7,340.7

(Table 54 continued on next page)

(Table 54 continued)

Forest Survey Unit and county	Unreserved forests			Reserved forests			All forest land
	Timberland	Unproductive	Total	Productive	Unproductive	Total	
Southern Lower Peninsula							
Allegan	161.1	--	161.1	2.6	--	2.6	163.7
Barry	119.3	--	119.3	--	--	--	119.3
Berrien	92.6	--	92.6	--	--	--	92.6
Branch	79.8	--	79.8	--	--	--	79.8
Calhoun	88.0	--	88.0	--	--	--	88.0
Cass	77.4	--	77.4	--	--	--	77.4
Clinton	38.8	--	38.8	--	--	--	38.8
Eaton	47.9	--	47.9	--	--	--	47.9
Genesee	91.4	--	91.4	--	--	--	91.4
Gratiot	49.1	--	49.1	--	--	--	49.1
Hillsdale	65.9	--	65.9	--	--	--	65.9
Huron	63.9	--	63.9	--	--	--	63.9
Ingham	58.9	--	58.9	--	--	--	58.9
Ionia	69.1	--	69.1	--	--	--	69.1
Jackson	117.9	2.8	120.6	--	--	--	120.6
Kalamazoo	111.2	--	111.2	--	--	--	111.2
Kent	151.0	--	151.0	--	--	--	151.0
Lapeer	113.1	--	113.1	--	--	--	113.1
Lenawee	71.7	--	71.7	--	--	--	71.7
Livingston	83.9	--	83.9	--	--	--	83.9
Macomb	43.9	--	43.9	--	--	--	43.9
Monroe	45.5	--	45.5	--	--	--	45.5
Montcalm	150.9	--	150.9	--	--	--	150.9
Muskegon	200.6	--	200.6	--	--	--	200.6
Oakland	115.6	--	115.6	2.7	--	2.7	118.3
Ottawa	102.1	--	102.1	--	--	--	102.1
Saginaw	94.1	--	94.1	--	--	--	94.1
St. Clair	97.7	--	97.7	--	--	--	97.7
St. Joseph	64.0	--	64.0	--	--	--	64.0
Sanilac	80.1	--	80.1	--	--	--	80.1
Shiawassee	42.6	--	42.6	--	--	--	42.6
Tuscola	122.5	--	122.5	--	--	--	122.5
Van Buren	137.9	--	137.9	--	--	--	137.9

(Table 54 continued on next page)

(Table 54 continued)

Forest Survey Unit and county	Unreserved forests			Reserved forests			All forest land
	Timberland	Unproductive	Total	Productive	Unproductive	Total	
Southern Lower Peninsula							
Washtenaw	95.2	--	95.2	--	--	--	95.2
Wayne	40.9	--	40.9	--	--	--	40.9
Total	3,185.3	2.8	3,188.1	5.3	--	5.3	3,193.4
All counties	19,022.8	196.6	19,219.4	319.7	5.4	325.2	19,544.6

All table cells without observations in the inventory sample are indicated by --. Table value of 0.0 indicates the acres round to less than 0.1 thousand acres. Columns and rows may not add to their totals due to rounding.

Table 55. -- Area of accessible forest land by Forest Survey Unit, county, ownership group and forest land status, Michigan, 2002-2006

(In thousand acres)

Forest Survey Unit and county	Forest Service		Other Federal		State and local government		Undifferentiated private			All forest land
	Timber-land	Other forest land	Timber-land	Other forest land	Timber-land	Other forest land	Timber-land	Other forest land	Timber-land	
Eastern Upper Peninsula										
Alger	110.9	5.2	23.7	5.9	102.5	--	272.0	2.7	523.1	
Chippewa	195.3	15.9	1.9	--	233.7	--	358.2	13.4	818.4	
Delta	220.2	--	--	--	52.4	--	330.4	5.2	608.1	
Luce	--	--	--	--	252.2	5.6	239.7	5.4	503.0	
Mackinac	133.2	10.1	0.6	--	199.9	9.2	229.9	2.0	584.9	
Menominee	--	--	--	--	93.9	--	406.0	2.6	502.5	
Schoolcraft	109.0	8.3	37.8	2.8	196.4	2.2	219.1	--	575.6	
Total	768.6	39.5	64.0	8.7	1,131.0	17.0	2,055.5	31.2	4,115.5	
Western Upper Peninsula										
Baraga	38.2	11.5	13.6	--	73.0	--	392.8	3.4	532.4	
Dickinson	--	--	--	--	194.9	--	207.4	--	402.2	
Gogebic	244.8	25.0	--	--	65.0	15.9	302.4	0.7	653.9	
Houghton	131.4	17.0	--	--	40.0	--	340.5	--	528.9	
Iron	167.9	--	--	--	80.7	--	434.3	2.2	685.0	
Keweenaw	--	--	21.3	126.4	2.8	--	174.5	6.4	331.3	
Marquette	17.8	12.0	2.7	--	250.6	2.6	714.7	19.0	1,019.3	
Ontonagon	256.9	6.0	--	--	18.8	50.2	407.5	2.7	742.0	
Total	856.9	71.5	37.6	126.4	725.7	68.7	2,974.0	34.3	4,895.0	

(Table 55 continued on next page)

(Table 55 continued)

Forest Survey Unit and county	Forest Service		Other Federal		State and local government		Undifferentiated private		
	Timber-land	Other forest land	Timber-land	Other forest land	Timber-land	Other forest land	Timber-land	Other forest land	All forest land
Northern Lower Peninsula									
Alcona	111.7	--	--	--	5.5	--	226.5	3.1	346.8
Alpena	--	--	--	--	46.1	--	207.0	3.1	256.2
Antrim	--	--	--	--	52.2	--	131.6	--	183.8
Arenac	--	--	--	--	29.3	2.6	80.0	--	111.9
Bay	--	--	--	--	1.3	--	35.1	--	36.4
Benzie	--	--	2.6	5.6	60.4	--	61.3	--	129.9
Charlevoix	--	--	--	--	58.1	--	108.9	--	167.0
Cheboygan	--	--	--	--	164.7	2.8	200.3	--	367.8
Clare	--	--	2.7	--	46.9	--	137.8	0.1	187.4
Crawford	29.3	5.6	3.1	--	164.6	2.8	88.6	--	294.0
Emmet	--	--	--	--	71.9	--	125.0	--	196.9
Gladwin	--	--	--	--	83.1	--	116.1	--	199.2
Grand Traverse	--	--	--	--	74.4	4.9	116.3	3.0	198.6
Iosco	107.9	5.7	2.9	--	17.8	2.6	132.4	--	269.2
Isabella	--	--	--	--	3.0	--	103.1	--	106.1
Kalkaska	--	--	5.3	--	169.5	--	114.8	--	289.6
Lake	98.2	--	--	--	60.6	--	156.9	--	315.7
Leelanau	--	--	23.6	19.6	5.6	--	81.7	0.6	131.0
Manistee	69.9	2.3	--	--	29.0	--	138.9	--	240.2
Mason	57.8	5.3	--	--	14.1	2.8	106.1	--	186.1
Mecosta	--	--	--	--	17.7	--	106.4	--	124.2
Midland	--	--	--	--	37.6	--	116.6	--	154.2
Missaukee	--	--	--	--	100.9	1.4	129.3	--	231.6
Montmorency	--	--	--	--	128.1	2.8	167.4	5.6	304.0
Newaygo	104.3	--	2.5	--	8.4	--	205.1	--	320.4
Oceana	44.4	--	--	--	10.9	--	135.6	--	190.8
Ogemaw	18.2	--	4.2	--	77.8	2.6	128.5	--	231.2
Osceola	--	--	--	--	23.0	--	118.6	--	141.6
Oscoda	134.8	13.7	--	--	53.7	--	118.9	--	321.0
Otsego	--	--	--	--	79.0	--	175.7	4.1	258.8
Presque Isle	--	--	--	--	86.0	2.8	221.1	6.4	316.4
Roscommon	--	--	--	--	177.0	2.8	94.6	--	274.4
Wexford	84.4	--	--	--	56.6	1.9	115.4	--	258.3
Total	860.9	32.5	46.8	25.2	2,014.9	32.8	4,301.7	25.9	7,340.7

(Table 55 continued on next page)

(Table 55 continued)

Forest Survey Unit and county	Forest Service		Other Federal		State and local government		Undifferentiated private			All forest land
	Timber-land	Other forest land	Timber-land	Other forest land	Timber-land	Other forest land	Timber-land	Other forest land	Timber-land	
Southern Lower Peninsula										
Allegan	--	--	--	--	54.5	2.6	106.5	--	--	163.7
Barry	--	--	--	--	15.5	--	103.8	--	--	119.3
Berrien	--	--	--	--	10.4	--	82.2	--	--	92.6
Branch	--	--	--	--	3.5	--	76.4	--	--	79.8
Calhoun	--	--	3.5	--	4.6	--	79.9	--	--	88.0
Cass	--	--	--	--	2.6	--	74.8	--	--	77.4
Clinton	--	--	--	--	4.5	--	34.3	--	--	38.8
Eaton	--	--	--	--	9.2	--	38.7	--	--	47.9
Genesee	--	--	--	--	16.6	--	74.9	--	--	91.4
Gratiot	--	--	--	--	11.2	--	37.8	--	--	49.1
Hillsdale	--	--	--	--	2.6	--	63.3	--	--	65.9
Huron	--	--	--	--	12.7	--	51.3	--	--	63.9
Ingham	--	--	--	--	8.8	--	50.2	--	--	58.9
Ionia	--	--	--	--	10.3	--	58.8	--	--	69.1
Jackson	--	--	--	--	16.0	--	101.9	2.8	--	120.6
Kalamazoo	--	--	3.3	--	12.1	--	95.8	--	--	111.2
Kent	--	--	--	--	23.1	--	127.9	--	--	151.0
Lapeer	--	--	--	--	14.1	--	99.0	--	--	113.1
Lenawee	--	--	--	--	4.8	--	66.8	--	--	71.7
Livingston	--	--	--	--	11.6	--	72.2	--	--	83.9
Macomb	--	--	--	--	12.5	--	31.3	--	--	43.9
Monroe	--	--	--	--	3.0	--	42.5	--	--	45.5
Montcalm	--	--	2.5	--	37.3	--	111.1	--	--	150.9
Muskegon	10.5	--	--	--	38.1	--	152.1	--	--	200.6
Oakland	--	--	--	--	20.4	2.7	95.3	--	--	118.3
Ottawa	--	--	--	--	6.8	--	95.3	--	--	102.1
Saginaw	--	--	--	--	11.2	--	82.9	--	--	94.1
St. Clair	--	--	--	--	9.5	--	88.2	--	--	97.7
St. Joseph	--	--	--	--	5.2	--	58.7	--	--	64.0
Sanilac	--	--	--	--	9.5	--	70.6	--	--	80.1
Shiawassee	--	--	--	--	2.6	--	39.9	--	--	42.6
Tuscola	--	--	--	--	27.3	--	95.2	--	--	122.5
Van Buren	--	--	--	--	6.3	--	131.6	--	--	137.9

(Table 55 continued on next page)

(Table 55 continued)

Forest Survey Unit and county	Forest Service		Other Federal		State and local government		Undifferentiated private		All forest land
	Timber-land	Other forest land	Timber-land	Other forest land	Timber-land	Other forest land	Timber-land	Other forest land	
Southern Lower Peninsula									
Washtenaw	--	--	--	--	22.5	--	72.7	--	95.2
Wayne	--	--	--	--	12.9	--	28.0	--	40.9
Total	10.5	--	9.3	--	473.8	5.3	2,691.8	2.8	3,193.4
All counties	2,496.9	143.5	157.6	160.3	4,345.4	123.7	12,022.9	94.2	19,544.6

All table cells without observations in the inventory sample are indicated by --. Table value of 0.0 indicates the acres round to less than 0.1 thousand acres. Columns and rows may not add to their totals due to rounding.

Table 56. -- Area of forest land by Forest Survey Unit, county/county group, and forest type group, Michigan, 2002-2006

(In thousand acres)

Forest Survey Unit and county	Forest type group														All groups
	White-red-jack pine	Spruce-fir	Pinyon-juniper	Douglas-fir	Fir-spruce-mt. hemlock	Exotic softwoods	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood	Maple-beech-birch	Aspen-birch	Exotic hardwoods	Non-stocked	
Eastern Upper Peninsula															
Alger	64.8	66.7	--	--	--	--	5.9	--	2.3	18.8	337.3	22.2	--	5.0	523.1
Chippewa	128.2	236.5	--	--	--	2.8	8.9	12.4	--	44.2	195.4	177.6	--	12.3	818.4
Delta	77.4	193.3	--	--	--	--	8.4	7.6	--	33.5	139.8	145.9	--	2.1	608.1
Luce	98.4	148.6	--	--	--	2.7	16.4	--	3.0	3.5	189.1	32.7	--	8.7	503.0
Mackinac	33.8	218.9	--	--	--	--	5.7	--	--	13.2	159.6	147.6	--	6.1	584.9
Menominee	16.2	168.3	--	--	--	7.0	2.5	13.4	--	51.7	146.5	96.1	--	0.8	502.5
Schoolcraft	130.1	169.4	--	--	--	--	12.8	4.5	--	23.4	126.8	99.2	--	9.2	575.6
Total	548.9	1,201.8	--	--	--	12.6	60.7	37.9	5.3	188.3	1,294.5	721.2	--	44.4	4,115.5
Western Upper Peninsula															
Baraga	40.3	92.8	--	--	--	--	9.4	3.4	--	24.6	315.2	46.5	--	--	532.4
Dickinson	15.5	119.2	--	--	1.9	--	5.5	6.1	--	6.9	131.9	115.2	--	--	402.2
Gogebic	41.7	71.5	--	--	--	--	--	6.1	--	37.6	414.2	81.6	--	1.3	653.9
Houghton	29.4	56.6	--	--	--	--	10.4	10.1	--	7.3	351.1	57.5	--	6.5	528.9
Iron	33.1	126.4	--	--	--	--	16.9	1.3	--	5.2	324.2	174.8	--	3.1	685.0
Keweenaw	7.7	87.9	--	--	--	--	--	7.5	--	4.4	140.9	82.8	--	--	331.3
Marquette	119.9	214.4	--	--	--	--	19.2	11.4	--	23.9	472.0	155.8	--	2.7	1,019.3
Ontonagon	28.7	38.5	--	--	--	--	3.2	2.0	--	25.3	458.9	180.2	--	5.0	742.0
Total	316.3	807.4	--	--	1.9	--	64.7	47.9	--	135.2	2,608.4	894.4	--	18.7	4,895.0

(Table 56 continued on next page)

(Table 56 continued)

Forest Survey Unit and county	Forest type group														All groups
	White-red-jack pine	Spruce-fir	Pinyon-juniper	Douglas-fir	Fir-spruce-mt. hemlock	Exotic softwoods	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood	Maple-beech-birch	Aspen-birch	Exotic hardwoods	Non-stocked	
Northern Lower Peninsula															
Alcona	34.4	24.3	--	--	--	3.2	15.9	64.6	--	13.5	92.8	97.0	--	1.1	346.8
Alpena	17.1	46.2	--	--	--	5.2	7.9	9.1	--	41.5	51.6	77.0	--	0.7	256.2
Antrim	12.8	5.9	--	--	--	5.2	2.2	--	--	13.1	120.6	19.4	--	4.5	183.8
Arenac	6.1	--	--	--	--	--	9.9	26.0	--	20.5	27.6	21.9	--	--	111.9
Bay	--	--	--	--	--	--	--	12.3	--	8.4	2.9	12.9	--	--	36.4
Benzie	15.0	4.3	--	--	--	2.9	0.8	--	--	5.1	95.1	4.0	--	2.7	129.9
Charlevoix	9.1	23.4	--	--	--	--	2.1	2.6	--	5.9	105.0	18.2	--	0.8	167.0
Cheboygan	31.2	53.1	--	--	--	8.6	21.2	16.3	--	11.9	100.5	122.2	--	2.8	367.8
Clare	21.1	8.4	--	--	1.9	--	8.4	56.1	--	24.1	19.3	47.3	--	0.8	187.4
Crawford	102.9	17.8	--	--	--	--	31.3	85.7	--	--	18.9	37.4	--	--	294.0
Emmet	4.4	23.3	--	2.3	--	2.3	--	2.6	--	8.6	94.3	57.9	--	1.4	196.9
Gladwin	8.9	2.3	--	--	--	--	1.0	46.3	--	33.5	29.8	77.4	--	--	199.2
Grand Traverse	17.7	13.3	--	--	--	2.2	20.0	47.7	3.0	16.9	61.2	16.6	--	--	198.6
Iosco	102.5	20.9	--	--	--	0.8	17.7	30.2	--	19.8	37.4	39.7	--	--	269.2
Isabella	6.3	3.1	--	--	--	3.1	1.5	29.0	--	16.0	24.2	20.8	--	2.1	106.1
Kalkaska	72.0	29.7	--	--	--	2.2	16.0	23.2	--	11.3	99.0	32.8	--	3.3	289.6
Lake	86.4	9.3	--	--	1.5	6.4	27.6	112.7	--	9.1	22.2	40.4	--	--	315.7
Leelanau	10.3	8.5	--	--	2.3	--	--	8.6	--	8.9	87.1	2.6	--	2.8	131.0
Manistee	30.2	3.8	--	--	3.4	0.8	8.2	73.3	--	9.8	86.4	20.6	--	3.8	240.2
Mason	30.2	2.9	--	--	2.2	5.6	13.7	55.4	3.1	34.4	16.7	16.7	--	5.2	186.1
Mecosta	11.0	--	--	--	--	1.5	5.0	27.7	--	10.6	29.2	38.5	--	0.7	124.2
Midland	3.1	--	--	--	--	--	3.4	60.9	6.1	19.4	26.0	33.9	--	1.5	154.2
Missaukee	25.6	14.8	--	--	--	10.9	7.2	30.1	--	12.9	60.8	67.9	--	1.3	231.6
Montmorency	39.6	38.6	--	--	--	--	25.6	52.8	--	2.8	70.3	74.2	--	--	304.0
Newaygo	47.0	2.8	--	--	--	6.2	17.7	132.1	--	32.8	52.0	28.9	--	0.8	320.4
Oceana	25.0	3.1	--	--	--	8.4	9.2	55.4	--	28.7	47.3	13.8	--	--	190.8
Ogemaw	43.5	14.4	--	--	--	0.7	7.9	50.7	--	23.5	32.4	55.6	--	2.6	231.2
Osceola	10.4	--	--	--	--	8.5	--	22.9	--	11.9	42.9	45.0	--	--	141.6
Oscoda	99.6	17.9	--	--	--	--	33.9	56.0	--	1.4	28.7	83.6	--	--	321.0
Otsego	44.4	19.4	--	--	--	2.7	24.8	10.4	--	--	110.6	45.2	--	1.2	258.8
Presque Isle	26.2	62.3	--	--	--	--	8.2	32.7	--	22.3	51.0	112.2	--	1.2	316.4
Roscommon	31.8	33.8	--	--	--	--	19.2	84.1	--	16.8	27.8	59.0	--	1.9	274.4
Wexford	41.9	15.7	--	--	--	17.1	9.9	19.4	--	8.1	104.9	40.6	--	0.7	258.3
Total	1,067.9	523.2	--	2.3	11.3	104.5	377.2	1,336.9	12.1	503.7	1,876.6	1,481.0	--	44.0	7,340.7

(Table 56 continued on next page)

(Table 56 continued)

Forest Survey Unit and county	Forest type group														All groups
	White-red-jack pine	Spruce-fir	Pinyon-juniper	Douglas-fir	Fir-spruce-mt. hemlock	Exotic softwoods	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood	Maple-beech-birch	Aspen-birch	Exotic hardwoods	Non-stocked	
Southern Lower Peninsula															
Allegan	6.1	--	--	--	--	6.3	4.0	94.9	2.6	20.3	26.2	2.6	0.7	--	163.7
Barry	--	3.0	--	--	--	--	2.6	50.8	--	24.7	33.1	4.3	--	0.9	119.3
Berrien	--	--	--	--	--	2.5	--	38.6	6.5	12.1	32.2	--	--	0.8	92.6
Branch	--	--	--	--	--	--	--	29.7	--	36.6	13.5	--	--	--	79.8
Calhoun	3.5	--	--	--	--	--	--	36.8	--	22.6	25.1	--	--	--	88.0
Cass	2.7	--	--	--	--	1.2	--	38.6	--	18.6	15.4	--	--	0.9	77.4
Clinton	--	--	--	--	--	--	--	11.5	--	7.6	19.7	--	--	--	38.8
Eaton	--	--	--	--	--	0.3	--	12.7	3.5	7.6	23.7	--	--	--	47.9
Genesee	--	--	--	--	--	--	--	32.5	--	18.7	31.9	7.0	--	1.4	91.4
Gratiot	5.6	--	--	--	--	--	--	5.5	--	16.4	17.6	4.0	--	--	49.1
Hillsdale	1.8	--	--	--	--	2.3	--	32.0	--	12.8	17.0	--	--	--	65.9
Huron	--	--	--	--	--	--	--	10.1	--	11.4	29.8	12.7	--	--	63.9
Ingham	--	--	--	--	--	2.0	--	20.9	--	12.4	23.5	--	--	--	58.9
Ionia	1.7	--	--	--	--	3.0	3.5	24.3	--	13.7	21.4	0.7	--	0.8	69.1
Jackson	2.8	--	--	--	--	2.9	--	76.8	--	14.2	19.2	3.9	0.8	--	120.6
Kalamazoo	4.2	--	--	--	--	4.9	1.0	50.6	--	24.7	25.9	--	--	--	111.2
Kent	3.4	3.5	--	--	--	7.2	3.5	65.0	--	23.5	34.2	10.1	0.7	--	151.0
Lapeer	2.5	1.1	--	--	--	--	5.9	35.6	--	31.1	31.0	4.5	--	1.4	113.1
Lenawee	--	--	--	--	--	--	2.3	33.2	--	26.2	10.0	--	--	--	71.7
Livingston	--	--	--	--	1.7	--	--	48.5	--	18.3	13.0	0.3	--	2.2	83.9
Macomb	--	--	--	--	--	--	--	6.6	--	10.5	25.7	--	--	1.1	43.9
Monroe	--	--	--	--	--	--	--	24.0	--	18.9	2.6	--	--	--	45.5
Montcalm	2.2	3.3	--	--	--	4.5	8.5	54.4	--	28.2	38.0	11.7	--	--	150.9
Muskegon	24.9	0.4	--	--	--	2.6	14.7	112.9	--	13.3	26.2	4.8	--	0.9	200.6
Oakland	0.8	--	--	--	--	--	1.9	62.3	2.5	15.7	32.5	0.0	--	2.7	118.3
Ottawa	11.2	--	--	--	--	1.3	6.7	27.6	5.7	14.2	32.7	2.7	--	--	102.1
Saginaw	4.1	--	1.3	--	--	0.8	--	64.4	--	12.3	10.9	0.3	--	--	94.1
St. Clair	0.8	--	--	--	--	--	--	32.0	2.8	16.4	39.7	6.1	--	--	97.7
St. Joseph	3.1	--	--	--	--	--	--	24.4	1.6	11.4	14.8	--	3.0	5.7	64.0
Sanilac	2.3	--	--	--	--	--	--	18.1	--	25.5	20.3	13.2	--	0.7	80.1
Shiawassee	--	--	--	--	--	--	--	14.7	--	14.2	13.7	--	--	--	42.6
Tuscola	1.6	1.2	--	--	--	7.5	1.4	25.5	--	25.2	39.6	20.0	--	0.5	122.5
Van Buren	5.2	--	--	--	--	--	3.5	52.7	5.8	20.3	44.9	1.4	--	4.2	137.9
Washtenaw	2.4	--	--	--	--	1.1	--	52.3	--	9.5	27.7	0.7	--	1.5	95.2
Wayne	--	--	--	--	--	--	--	14.9	--	17.7	8.3	--	--	--	40.9
Total	92.7	12.5	1.3	--	1.7	50.4	59.3	1,335.3	31.1	626.7	840.8	110.7	5.1	25.7	3,193.4
All counties	2,025.9	2,544.9	1.3	2.3	14.8	167.5	561.9	2,758.0	48.5	1,453.9	6,620.4	3,207.4	5.1	132.8	19,544.6

All table cells without observations in the inventory sample are indicated by --. Table value of 0.0 indicates the acres round to less than 0.1 thousand acres. Columns and rows may not add to their totals due to rounding.

Table 57. -- Area of timberland by Forest Survey Unit, county, and stand-size class, Michigan, 2002-2006

(In thousand acres)

Forest Survey Unit and county	Stand-size class					All size classes
	Large diameter	Medium diameter	Small diameter	Chaparral	Nonstocked	
Eastern Upper Peninsula						
Alger	282.3	173.1	48.7	--	5.0	509.2
Chippewa	272.2	322.4	185.4	--	9.1	789.1
Delta	206.0	225.1	169.6	--	2.1	602.9
Luce	210.5	178.4	95.1	--	8.0	491.9
Mackinac	216.9	239.6	101.1	--	6.1	563.7
Menominee	119.2	261.1	118.7	--	0.8	499.9
Schoolcraft	195.1	169.3	188.6	--	9.2	562.3
Total	1,502.2	1,569.1	907.3	--	40.4	4,019.0
Western Upper Peninsula						
Baraga	260.2	181.0	76.3	--	--	517.5
Dickinson	126.8	204.3	71.2	--	--	402.2
Gogebic	249.1	296.9	64.9	--	1.3	612.3
Houghton	264.5	181.5	59.4	--	6.5	511.9
Iron	264.0	275.4	140.4	--	3.1	682.9
Keweenaw	109.1	71.1	18.3	--	--	198.5
Marquette	345.6	427.1	210.3	--	2.7	985.8
Ontonagon	233.7	327.5	116.9	--	5.0	683.1
Total	1,853.1	1,964.7	757.7	--	18.7	4,594.2

(Table 57 continued on next page)

(Table 57 continued)

Forest Survey Unit and county	Stand-size class					All size classes
	Large diameter	Medium diameter	Small diameter	Chaparral	Nonstocked	
Northern Lower Peninsula						
Alcona	123.5	184.6	34.5	--	1.1	343.8
Alpena	62.5	133.0	56.9	--	0.7	253.1
Antrim	70.1	94.0	15.1	--	4.5	183.8
Arenac	36.2	61.9	11.2	--	--	109.4
Bay	14.8	16.0	5.6	--	--	36.4
Benzie	56.0	44.5	21.1	--	2.7	124.3
Charlevoix	98.4	58.1	9.7	--	0.8	167.0
Cheboygan	118.3	153.9	90.0	--	2.8	365.0
Clare	74.8	62.1	49.5	--	0.8	187.3
Crawford	78.7	129.9	77.0	--	--	285.6
Emmet	79.6	90.8	25.1	--	1.4	196.9
Gladwin	82.3	68.0	48.9	--	--	199.2
Grand Traverse	81.7	73.1	35.9	--	--	190.7
Iosco	110.9	113.1	37.0	--	--	260.9
Isabella	40.1	40.3	23.6	--	2.1	106.1
Kalkaska	101.2	127.1	58.0	--	3.3	289.6
Lake	160.5	110.0	45.3	--	--	315.7
Leelanau	70.4	21.5	16.3	--	2.8	110.9
Manistee	125.5	72.5	36.0	--	3.8	237.8
Mason	87.9	65.8	21.2	--	3.2	178.0
Mecosta	62.3	42.9	19.0	--	--	124.2
Midland	59.5	50.6	42.6	--	1.5	154.2
Missaukee	73.1	106.0	49.8	--	1.3	230.2
Montmorency	104.0	121.1	70.5	--	--	295.5
Newaygo	177.2	101.1	41.3	--	0.8	320.4
Oceana	90.6	80.4	19.8	--	--	190.8
Ogemaw	56.8	91.7	77.6	--	2.6	228.6
Osceola	56.2	60.6	24.8	--	--	141.6
Oscoda	107.4	102.3	97.7	--	--	307.4
Otsego	100.6	126.2	26.6	--	1.2	254.7
Presque Isle	70.7	153.1	82.0	--	1.2	307.1
Roscommon	87.4	99.3	83.0	--	1.9	271.6
Wexford	114.3	92.6	48.8	--	0.7	256.4
Total	2,833.4	2,948.1	1,401.6	--	41.3	7,224.3

(Table 57 continued on next page)

(Table 57 continued)

Forest Survey Unit and county	Stand-size class					All size classes
	Large diameter	Medium diameter	Small diameter	Chaparral	Nonstocked	
Southern Lower Peninsula						
Allegan	77.5	54.0	29.5	--	--	161.1
Barry	54.5	42.0	22.1	--	0.9	119.3
Berrien	68.3	14.9	8.6	--	0.8	92.6
Branch	65.6	11.4	2.9	--	--	79.8
Calhoun	69.6	9.3	9.1	--	--	88.0
Cass	52.8	18.2	5.5	--	0.9	77.4
Clinton	20.3	10.7	7.7	--	--	38.8
Eaton	25.4	16.5	6.0	--	--	47.9
Genesee	51.2	25.7	13.2	--	1.4	91.4
Gratiot	23.2	19.8	6.0	--	--	49.1
Hillsdale	35.5	27.7	2.7	--	--	65.9
Huron	23.5	32.5	8.0	--	--	63.9
Ingham	27.9	22.1	8.9	--	--	58.9
Ionia	34.4	21.4	12.4	--	0.8	69.1
Jackson	83.7	19.3	14.9	--	--	117.9
Kalamazoo	69.3	31.8	10.2	--	--	111.2
Kent	76.2	54.5	20.3	--	--	151.0
Lapeer	56.0	40.6	15.1	--	1.4	113.1
Lenawee	45.2	23.1	3.4	--	--	71.7
Livingston	44.7	23.6	13.4	--	2.2	83.9
Macomb	21.3	16.5	4.9	--	1.1	43.9
Monroe	37.5	4.9	3.0	--	--	45.5
Montcalm	66.8	57.3	26.8	--	--	150.9
Muskegon	123.5	46.6	29.6	--	0.9	200.6
Oakland	66.0	33.3	13.6	--	2.7	115.6
Ottawa	65.5	27.5	9.1	--	--	102.1
Saginaw	53.3	36.9	3.9	--	--	94.1
St. Clair	44.0	32.0	21.7	--	--	97.7
St. Joseph	47.8	8.9	1.6	--	5.7	64.0
Sanilac	21.6	38.0	19.9	--	0.7	80.1
Shiawassee	21.7	11.2	9.7	--	--	42.6
Tuscola	39.8	59.7	22.4	--	0.5	122.5
Van Buren	82.7	37.1	13.9	--	4.2	137.9

(Table 57 continued on next page)

(Table 57 continued)

Forest Survey Unit and county	Stand-size class					All size classes
	Large diameter	Medium diameter	Small diameter	Chaparral	Nonstocked	
Southern Lower Peninsula						
Washtenaw	44.4	27.8	21.4	--	1.5	95.2
Wayne	28.9	7.1	5.0	--	--	40.9
Total	1,769.3	964.0	426.3	--	25.7	3,185.3
All counties	7,957.9	7,445.9	3,492.9	--	126.1	19,022.8

All table cells without observations in the inventory sample are indicated by --. Table value of 0.0 indicates the acres round to less than 0.1 thousand acres. Columns and rows may not add to their totals due to rounding.

Table 58. -- Area of timberland by Forest Survey Unit, county, and stocking class, Michigan, 2002-2006

(In thousand acres)

Forest Survey Unit and county	Stocking class of growing-stock trees					All classes
	Nonstocked	Poorly stocked	Moderately stocked	Fully stocked	Overstocked	
Eastern Upper Peninsula						
Alger	5.8	45.8	148.2	274.0	35.3	509.2
Chippewa	18.7	79.2	291.8	355.3	44.1	789.1
Delta	4.4	61.2	232.0	246.7	58.6	602.9
Luce	8.0	52.7	181.5	225.6	24.0	491.9
Mackinac	6.9	51.6	179.4	282.8	42.9	563.7
Menominee	4.4	53.2	148.9	256.7	36.7	499.9
Schoolcraft	15.6	92.4	207.7	210.7	35.9	562.3
Total	63.8	436.2	1,389.6	1,851.9	277.6	4,019.0
Western Upper Peninsula						
Baraga	--	26.9	128.2	303.6	58.9	517.5
Dickinson	0.1	54.7	106.5	197.2	43.8	402.2
Gogebic	1.3	37.7	195.2	332.1	46.0	612.3
Houghton	6.7	31.7	151.1	274.9	47.4	511.9
Iron	5.8	75.6	228.4	340.7	32.3	682.9
Keweenaw	--	20.4	61.6	110.2	6.3	198.5
Marquette	3.2	121.6	272.7	472.7	115.4	985.8
Ontonagon	5.7	43.1	212.5	334.5	87.3	683.1
Total	22.9	411.8	1,356.1	2,366.0	437.4	4,594.2

(Table 58 continued on next page)

(Table 58 continued)

Forest Survey Unit and county	Stocking class of growing-stock trees					All classes
	Nonstocked	Poorly stocked	Moderately stocked	Fully stocked	Overstocked	
Northern Lower Peninsula						
Alcona	1.2	47.1	141.5	140.3	13.7	343.8
Alpena	1.4	31.0	110.6	104.9	5.3	253.1
Antrim	8.4	17.7	56.1	86.3	15.2	183.8
Arenac	0.5	28.8	37.9	41.3	0.8	109.4
Bay	0.7	3.6	21.5	10.2	0.4	36.4
Benzie	2.8	5.1	42.2	58.3	15.9	124.3
Charlevoix	0.9	6.1	57.4	87.8	14.8	167.0
Cheboygan	8.9	21.9	110.0	187.2	37.0	365.0
Clare	4.8	30.4	57.5	78.0	16.6	187.3
Crawford	8.3	52.6	91.9	102.7	30.1	285.6
Emmet	1.4	14.0	52.9	111.4	17.1	196.9
Gladwin	0.2	51.2	89.5	45.7	12.6	199.2
Grand Traverse	3.5	28.8	72.0	78.2	8.2	190.7
Iosco	0.4	31.8	122.9	87.6	18.4	260.9
Isabella	4.8	24.7	46.3	23.0	7.3	106.1
Kalkaska	6.4	47.6	89.0	129.9	16.6	289.6
Lake	3.4	54.3	107.2	132.0	18.8	315.7
Leelanau	3.0	10.2	36.3	43.0	18.3	110.9
Manistee	6.1	40.8	69.4	101.5	20.1	237.8
Mason	6.0	29.6	56.9	77.6	7.9	178.0
Mecosta	8.1	14.5	58.4	40.5	2.5	124.2
Midland	2.0	15.8	69.4	62.4	4.6	154.2
Missaukee	3.7	36.6	77.8	96.3	15.8	230.2
Montmorency	1.2	44.3	83.9	146.8	19.3	295.5
Newaygo	6.4	59.2	105.4	133.9	15.4	320.4
Oceana	6.3	16.3	80.4	76.8	11.0	190.8
Ogemaw	3.2	33.1	61.5	95.2	35.5	228.6
Osceola	4.7	27.7	46.2	51.1	11.9	141.6
Oscoda	0.3	40.9	109.2	123.9	33.1	307.4
Otsego	3.2	43.2	93.6	90.4	24.3	254.7
Presque Isle	2.4	44.7	92.0	120.2	47.8	307.1
Roscommon	6.8	47.0	93.6	99.8	24.3	271.6
Wexford	2.7	26.6	74.9	131.4	20.8	256.4
Total	124.5	1,027.0	2,515.5	2,995.6	561.6	7,224.3

(Table 58 continued on next page)

(Table 58 continued)

Forest Survey Unit and county	Stocking class of growing-stock trees					All classes
	Nonstocked	Poorly stocked	Moderately stocked	Fully stocked	Overstocked	
Southern Lower Peninsula						
Allegan	3.1	29.5	64.3	52.6	11.6	161.1
Barry	2.3	37.4	39.8	35.7	4.2	119.3
Berrien	5.6	23.5	33.2	29.6	0.9	92.6
Branch	--	31.4	17.7	30.1	0.6	79.8
Calhoun	0.9	18.5	45.1	21.6	2.0	88.0
Cass	1.6	28.0	27.1	20.8	--	77.4
Clinton	3.6	15.4	16.2	2.4	1.3	38.8
Eaton	--	8.0	20.7	18.6	0.7	47.9
Genesee	1.4	27.9	32.0	30.2	--	91.4
Gratiot	1.0	6.9	16.2	23.0	2.0	49.1
Hillsdale	0.4	26.8	26.6	10.9	1.2	65.9
Huron	--	21.4	16.8	23.2	2.6	63.9
Ingham	1.8	13.3	23.9	19.9	--	58.9
Ionia	7.4	17.9	13.8	25.7	4.3	69.1
Jackson	6.6	23.8	32.2	54.5	0.8	117.9
Kalamazoo	2.4	20.1	34.1	44.7	10.0	111.2
Kent	1.1	27.7	76.5	42.8	2.8	151.0
Lapeer	1.6	33.6	48.7	26.7	2.6	113.1
Lenawee	3.8	17.7	26.3	23.8	--	71.7
Livingston	6.2	16.0	45.1	16.0	0.6	83.9
Macomb	4.4	7.0	22.3	10.2	--	43.9
Monroe	--	13.3	14.8	16.7	0.7	45.5
Montcalm	2.6	51.4	36.6	57.9	2.3	150.9
Muskegon	2.2	22.3	82.9	88.4	4.8	200.6
Oakland	5.6	24.6	42.9	42.5	--	115.6
Ottawa	1.2	13.7	38.8	44.2	4.3	102.1
Saginaw	0.8	7.4	41.1	42.7	2.0	94.1
St. Clair	0.3	24.0	30.6	40.2	2.7	97.7
St. Joseph	7.7	8.9	29.0	16.5	1.9	64.0
Sanilac	0.7	15.5	39.0	23.8	1.1	80.1
Shiawassee	3.0	11.5	16.7	10.6	0.7	42.6
Tuscola	1.3	16.0	59.1	45.3	0.7	122.5
Van Buren	8.2	30.8	54.5	42.2	2.1	137.9

(Table 58 continued on next page)

(Table 58 continued)

Forest Survey Unit and county	Stocking class of growing-stock trees					All classes
	Nonstocked	Poorly stocked	Moderately stocked	Fully stocked	Overstocked	
Southern Lower Peninsula						
Washtenaw	3.3	42.1	39.8	9.4	0.6	95.2
Wayne	2.6	12.5	12.5	12.7	0.7	40.9
Total	94.6	745.4	1,216.8	1,055.8	72.7	3,185.3
All counties	305.8	2,620.5	6,478.0	8,269.3	1,349.3	19,022.8

All table cells without observations in the inventory sample are indicated by --. Table value of 0.0 indicates the acres round to less than 0.1 thousand acres. Columns and rows may not add to their totals due to rounding.

Table 59. -- Net volume of growing-stock and sawtimber (International 1/4-inch rule) on timberland by Forest Survey Unit, county, and major species group, Michigan, 2002-2006

Forest Survey Unit and county	Growing stock					Sawtimber					
	Major species group				All species	Major species group				All species	
	Pine	Other softwoods	Soft hardwoods	Hard hardwoods		Pine	Other softwoods	Soft hardwoods	Hard hardwoods		
(In million cubic feet)					(In million board feet) ¹						
Eastern Upper Peninsula											
Alger	87.8	219.9	242.5	353.9	904.1	413.4	826.0	556.9	1,005.8	2,802.0	
Chippewa	164.3	379.5	330.6	176.6	1,050.8	674.5	1,133.7	749.0	457.9	3,015.2	
Delta	103.5	328.1	253.9	92.0	777.5	411.2	909.5	545.4	254.6	2,120.7	
Luce	138.9	212.6	169.3	162.4	683.2	612.6	652.0	372.9	444.9	2,082.3	
Mackinac	69.6	384.9	220.4	170.8	845.7	309.0	1,049.1	499.8	495.3	2,353.2	
Menominee	33.4	273.9	199.9	155.5	662.7	151.1	640.2	385.8	385.8	1,562.9	
Schoolcraft	153.8	210.1	152.9	91.6	608.4	610.6	568.1	335.5	248.8	1,763.0	
Total	751.2	2,008.9	1,569.5	1,202.9	5,532.4	3,182.5	5,778.7	3,445.3	3,293.0	15,699.4	
Western Upper Peninsula											
Baraga	36.8	253.0	256.6	360.7	907.1	138.2	999.4	617.2	1,002.5	2,757.3	
Dickinson	38.1	211.0	195.7	144.5	589.3	179.8	527.5	468.3	312.7	1,488.3	
Gogebic	52.2	228.7	356.2	423.6	1,060.6	234.6	874.6	850.7	999.8	2,959.7	
Houghton	54.4	220.8	284.4	363.6	923.1	262.1	904.2	697.2	1,025.8	2,889.3	
Iron	87.9	211.6	298.1	363.1	960.7	415.7	633.7	653.9	940.3	2,643.5	
Keweenaw	25.3	111.2	89.2	126.5	352.3	129.3	427.2	221.9	357.9	1,136.3	
Marquette	148.7	467.8	426.5	426.5	1,469.5	676.2	1,499.1	913.8	1,153.7	4,242.8	
Ontonagon	38.8	231.0	425.4	382.5	1,077.7	189.3	950.6	965.1	914.6	3,019.7	
Total	482.1	1,935.2	2,332.1	2,591.0	7,340.3	2,225.4	6,816.3	5,388.1	6,707.3	21,137.0	

(Table 59 continued on next page)

(Table 59 continued)

Forest Survey Unit and county	Growing stock					Sawtimber				
	Major species group				All species	Major species group				All species
	Pine	Other softwoods	Soft hardwoods	Hard hardwoods		Pine	Other softwoods	Soft hardwoods	Hard hardwoods	
(In million cubic feet)					(In million board feet) ¹					
Northern Lower Peninsula										
Alcona	86.1	49.5	186.3	176.0	497.9	333.5	144.8	371.2	511.4	1,361.0
Alpena	62.8	82.0	128.0	53.2	325.9	288.4	191.1	250.9	139.5	869.9
Antrim	30.5	18.7	107.7	139.4	296.3	84.8	55.6	260.8	291.8	693.1
Arenac	17.9	4.3	70.8	48.4	141.4	70.7	12.3	160.2	148.0	391.2
Bay	0.9	0.4	36.7	19.4	57.4	5.1	--	93.8	64.5	163.4
Benzie	35.3	9.7	57.7	107.9	210.6	88.0	16.9	130.4	308.8	544.1
Charlevoix	40.7	70.8	91.5	129.1	332.2	199.6	210.8	269.1	345.3	1,024.8
Cheboygan	82.0	110.1	194.6	106.4	493.1	301.6	294.7	427.2	247.8	1,271.3
Clare	47.1	15.2	128.7	68.8	259.8	186.6	35.4	239.0	245.8	706.7
Crawford	115.2	24.3	59.2	96.3	295.1	415.8	40.5	110.8	234.2	801.3
Emmet	25.9	53.3	107.1	137.0	323.3	101.3	142.1	296.8	385.2	925.3
Gladwin	23.2	6.0	149.9	34.8	214.0	104.4	9.0	379.6	102.0	595.0
Grand Traverse	69.8	36.8	68.9	98.9	274.4	222.3	110.5	144.7	295.6	773.0
Iosco	168.7	52.0	129.7	62.2	412.7	645.2	132.6	352.3	165.0	1,295.1
Isabella	12.1	7.4	52.8	44.1	116.4	51.4	16.8	120.8	127.3	316.4
Kalkaska	153.2	29.2	114.4	110.6	407.4	489.3	65.6	255.3	280.6	1,090.8
Lake	177.1	19.5	104.8	174.8	476.2	626.6	54.2	239.5	565.0	1,485.4
Leelanau	22.7	19.5	45.6	127.0	214.7	77.5	70.6	144.8	436.6	729.6
Manistee	79.1	26.3	126.3	152.4	384.0	266.7	98.9	357.8	506.0	1,229.5
Mason	78.1	8.9	98.6	84.7	270.4	226.5	26.3	284.7	287.6	825.1
Mecosta	37.4	5.1	86.5	49.0	177.9	165.0	19.5	211.8	160.3	556.6
Midland	16.4	--	113.8	62.3	192.5	79.4	--	273.1	196.4	548.8
Missaukee	47.4	34.4	116.8	73.5	272.2	147.3	58.9	210.4	202.9	619.5
Montmorency	95.2	62.6	133.9	103.1	394.9	421.6	173.4	255.8	279.0	1,129.8
Newaygo	119.1	12.2	141.7	206.4	479.3	395.6	44.4	345.6	720.8	1,506.3
Oceana	74.1	16.7	120.9	103.9	315.6	239.0	53.9	292.8	331.1	916.8
Ogemaw	47.8	30.7	95.3	56.7	230.5	147.1	68.2	228.4	159.5	603.3
Osceola	20.3	20.5	105.6	53.2	199.6	47.4	75.7	239.9	181.6	544.5
Oscoda	125.0	24.2	85.7	92.9	327.7	464.8	51.9	152.0	327.1	995.8
Otsego	70.9	44.8	88.6	166.1	370.4	267.1	124.6	174.6	392.0	958.3
Presque Isle	51.0	122.4	127.8	51.3	352.6	212.4	264.5	244.8	120.3	842.0
Roscommon	54.5	48.9	82.7	79.5	265.6	237.9	100.8	148.9	238.2	725.9
Wexford	131.5	36.9	115.5	145.1	428.9	421.9	72.8	262.9	460.9	1,218.6
Total	2,218.9	1,103.3	3,474.2	3,214.5	10,010.9	8,032.0	2,837.3	7,930.6	9,458.0	28,257.8

(Table 59 continued on next page)

(Table 59 continued)

Forest Survey Unit and county	Growing stock					Sawtimber				
	Major species group				All species	Major species group				All species
	Pine	Other softwoods	Soft hardwoods	Hard hardwoods		Pine	Other softwoods	Soft hardwoods	Hard hardwoods	
(In million cubic feet)					(In million board feet) ¹					
Southern Lower Peninsula										
Allegan	39.6	3.8	93.4	111.2	248.0	127.9	7.9	280.4	390.3	806.5
Barry	2.2	1.1	59.4	99.2	161.9	8.5	1.2	151.7	354.1	515.6
Berrien	6.4	0.1	93.9	72.9	173.3	24.7	--	296.0	271.9	592.6
Branch	1.7	--	105.4	44.5	151.5	4.4	--	371.3	166.6	542.2
Calhoun	3.0	2.4	122.8	55.0	183.2	12.4	12.7	437.5	190.0	652.7
Cass	5.3	5.6	80.6	42.7	134.1	22.1	24.1	272.9	160.9	479.9
Clinton	0.5	--	19.7	27.5	47.8	2.8	--	55.6	89.4	147.8
Eaton	0.5	--	39.7	49.4	89.5	2.2	--	123.9	174.0	300.1
Genesee	--	0.1	54.5	64.1	118.8	--	--	142.3	188.6	330.9
Gratiot	8.4	--	31.6	34.7	74.6	19.6	--	79.5	85.5	184.6
Hillsdale	7.7	0.2	39.4	50.3	97.5	31.4	--	101.3	196.4	329.1
Huron	--	0.6	57.3	33.8	91.7	--	2.1	139.0	104.8	246.0
Ingham	0.6	0.0	53.3	38.9	92.9	0.9	--	154.3	131.5	286.8
Ionia	4.0	0.8	53.8	58.3	117.0	7.7	--	173.7	234.3	415.7
Jackson	6.6	0.3	110.2	121.8	238.9	26.7	--	373.4	489.0	889.1
Kalamazoo	24.6	9.5	118.8	90.6	243.4	116.4	29.0	395.7	327.2	868.2
Kent	18.9	3.4	97.9	113.4	233.6	50.6	7.1	282.9	379.3	719.9
Lapeer	10.2	6.5	59.4	85.3	161.5	36.0	20.5	154.6	298.2	509.3
Lenawee	0.4	0.8	60.4	48.8	110.3	1.4	1.8	191.9	186.8	381.9
Livingston	2.6	2.2	50.0	66.9	121.8	11.9	5.9	134.7	241.1	393.5
Macomb	--	2.7	22.7	26.9	52.4	--	8.9	47.2	67.5	123.6
Monroe	--	--	42.2	47.6	89.8	--	--	137.1	175.0	312.1
Montcalm	22.7	2.6	80.5	102.9	208.7	106.0	1.4	159.6	336.3	603.2
Muskegon	70.2	7.2	97.0	169.2	343.6	238.3	29.7	309.5	582.6	1,160.1
Oakland	3.5	3.6	80.6	113.0	200.7	15.8	12.3	263.5	436.4	728.1
Ottawa	21.0	1.5	86.6	85.2	194.4	80.6	5.9	270.4	319.2	676.1
Saginaw	13.5	0.7	99.8	55.7	169.7	56.9	2.6	249.7	168.6	477.8
St. Clair	2.4	0.0	78.9	72.2	153.7	11.8	--	258.2	242.0	512.0
St. Joseph	13.2	0.0	52.8	46.8	112.8	56.9	--	178.5	166.1	401.5
Sanilac	4.5	0.7	65.9	21.0	92.1	17.6	1.0	184.0	41.8	244.4
Shiawassee	1.0	--	23.5	28.0	52.5	3.1	--	66.8	104.9	174.8
Tuscola	17.6	6.6	85.6	53.2	163.0	61.5	15.8	190.7	168.1	436.0
Van Buren	13.9	8.2	120.3	85.4	227.8	56.3	42.5	405.5	313.2	817.6

(Table 59 continued on next page)

(Table 59 continued)

Forest Survey Unit and county	Growing stock					Sawtimber					
	Major species group				All species	Major species group				All species	
	Pine	Other softwoods	Soft hardwoods	Hard hardwoods		Pine	Other softwoods	Soft hardwoods	Hard hardwoods		
(In million cubic feet)					(In million board feet) ¹						
Southern Lower Peninsula											
Washtenaw	3.4	1.5	41.8	77.8	124.5	16.0	7.3	114.1	291.0	428.4	
Wayne	0.0	--	32.7	36.5	69.2	--	--	96.0	142.7	238.7	
Total	330.3	72.6	2,412.3	2,330.7	5,145.8	1,228.2	239.8	7,243.4	8,215.2	16,926.6	
All counties	3,782.5	5,120.0	9,788.0	9,339.0	28,029.5	14,668.0	15,672.0	24,007.4	27,673.4	82,020.8	

All table cells without observations in the inventory sample are indicated by --. Table value of 0.0 indicates the volume rounds to less than 0.1 million cubic or board feet. Columns and rows may not add to their totals due to rounding.

¹ International 1/4-inch rule.

Table 59a. -- Net volume of growing-stock and sawtimber (Doyle rule) on timberland by Forest Survey Unit, county, and major species group, Michigan, 2002-2006

Forest Survey Unit and county	Growing stock					Sawtimber					
	Major species group				All species	Major species group				All species	
	Pine	Other softwoods	Soft hardwoods	Hard hardwoods		Pine	Other softwoods	Soft hardwoods	Hard hardwoods		
(In million cubic feet)					(In million board feet) ¹						
Eastern Upper Peninsula											
Alger	87.8	219.9	242.5	353.9	904.1	274.5	510.9	301.6	574.2	1,661.1	
Chippewa	164.3	379.5	330.6	176.6	1,050.8	414.0	600.9	394.9	271.7	1,681.5	
Delta	103.5	328.1	253.9	92.0	777.5	229.9	490.4	298.6	142.1	1,161.0	
Luce	138.9	212.6	169.3	162.4	683.2	402.1	372.4	202.2	240.6	1,217.2	
Mackinac	69.6	384.9	220.4	170.8	845.7	202.4	511.0	257.4	275.1	1,245.9	
Menominee	33.4	273.9	199.9	155.5	662.7	109.9	306.8	219.2	205.0	841.0	
Schoolcraft	153.8	210.1	152.9	91.6	608.4	386.1	285.6	197.1	137.6	1,006.5	
Total	751.2	2,008.9	1,569.5	1,202.9	5,532.4	2,018.8	3,078.0	1,871.0	1,846.2	8,814.1	
Western Upper Peninsula											
Baraga	36.8	253.0	256.6	360.7	907.1	84.4	668.8	338.2	589.9	1,681.4	
Dickinson	38.1	211.0	195.7	144.5	589.3	136.6	258.6	265.3	169.7	830.2	
Gogebic	52.2	228.7	356.2	423.6	1,060.6	156.8	532.2	459.9	575.3	1,724.2	
Houghton	54.4	220.8	284.4	363.6	923.1	192.6	598.6	372.6	598.5	1,762.3	
Iron	87.9	211.6	298.1	363.1	960.7	303.6	358.7	355.3	524.1	1,541.7	
Keweenaw	25.3	111.2	89.2	126.5	352.3	108.0	268.5	125.6	202.7	704.8	
Marquette	148.7	467.8	426.5	426.5	1,469.5	480.0	909.8	495.9	684.5	2,570.3	
Ontonagon	38.8	231.0	425.4	382.5	1,077.7	131.3	607.0	544.7	544.1	1,827.1	
Total	482.1	1,935.2	2,332.1	2,591.0	7,340.3	1,593.4	4,202.2	2,957.5	3,888.9	12,642.0	

(Table 59a continued on next page)

(Table 59a continued)

Forest Survey Unit and county	Growing stock					Sawtimber					
	Major species group				All species	Major species group				All species	
	Pine	Other softwoods	Soft hardwoods	Hard hardwoods		Pine	Other softwoods	Soft hardwoods	Hard hardwoods		
(In million cubic feet)					(In million board feet) ¹						
Northern Lower Peninsula											
Alcona	86.1	49.5	186.3	176.0	497.9	227.6	76.5	200.3	285.2	789.6	
Alpena	62.8	82.0	128.0	53.2	325.9	202.1	91.5	138.7	79.7	512.0	
Antrim	30.5	18.7	107.7	139.4	296.3	36.4	28.1	135.9	156.8	357.1	
Arenac	17.9	4.3	70.8	48.4	141.4	53.4	6.0	84.7	92.1	236.1	
Bay	0.9	0.4	36.7	19.4	57.4	3.9	--	51.6	46.3	101.8	
Benzie	35.3	9.7	57.7	107.9	210.6	38.5	7.6	68.7	181.6	296.4	
Charlevoix	40.7	70.8	91.5	129.1	332.2	134.1	109.6	147.5	187.0	578.1	
Cheboygan	82.0	110.1	194.6	106.4	493.1	178.0	143.6	219.0	140.1	680.7	
Clare	47.1	15.2	128.7	68.8	259.8	97.0	16.0	119.0	152.5	384.5	
Crawford	115.2	24.3	59.2	96.3	295.1	258.6	16.8	53.2	126.2	454.8	
Emmet	25.9	53.3	107.1	137.0	323.3	53.9	75.0	169.5	221.3	519.7	
Gladwin	23.2	6.0	149.9	34.8	214.0	72.8	4.6	207.0	59.0	343.3	
Grand Traverse	69.8	36.8	68.9	98.9	274.4	136.7	51.3	78.0	168.2	434.2	
Iosco	168.7	52.0	129.7	62.2	412.7	384.3	66.4	201.0	107.2	758.9	
Isabella	12.1	7.4	52.8	44.1	116.4	26.6	6.8	70.5	77.0	180.9	
Kalkaska	153.2	29.2	114.4	110.6	407.4	259.2	33.6	148.2	165.5	606.5	
Lake	177.1	19.5	104.8	174.8	476.2	337.6	22.0	130.9	348.0	838.5	
Leelanau	22.7	19.5	45.6	127.0	214.7	48.2	41.2	81.1	266.7	437.2	
Manistee	79.1	26.3	126.3	152.4	384.0	152.6	50.2	244.4	313.0	760.1	
Mason	78.1	8.9	98.6	84.7	270.4	108.8	13.3	167.8	186.6	476.6	
Mecosta	37.4	5.1	86.5	49.0	177.9	105.2	10.1	116.2	95.2	326.7	
Midland	16.4	--	113.8	62.3	192.5	66.7	--	148.2	116.2	331.0	
Missaukee	47.4	34.4	116.8	73.5	272.2	83.1	24.6	116.2	115.4	339.2	
Montmorency	95.2	62.6	133.9	103.1	394.9	305.5	85.0	134.1	151.9	676.5	
Newaygo	119.1	12.2	141.7	206.4	479.3	206.0	21.7	218.2	460.4	906.4	
Oceana	74.1	16.7	120.9	103.9	315.6	109.4	28.8	160.7	198.5	497.3	
Ogemaw	47.8	30.7	95.3	56.7	230.5	90.8	33.4	134.9	93.2	352.2	
Osceola	20.3	20.5	105.6	53.2	199.6	20.6	40.8	128.7	106.2	296.4	
Oscoda	125.0	24.2	85.7	92.9	327.7	279.4	27.9	84.4	190.2	581.9	
Otsego	70.9	44.8	88.6	166.1	370.4	166.1	62.1	89.3	221.6	539.2	
Presque Isle	51.0	122.4	127.8	51.3	352.6	137.3	118.0	126.5	63.0	444.9	
Roscommon	54.5	48.9	82.7	79.5	265.6	145.0	43.0	78.3	133.7	400.0	
Wexford	131.5	36.9	115.5	145.1	428.9	204.1	33.0	135.7	269.1	642.0	
Total	2,218.9	1,103.3	3,474.2	3,214.5	10,010.9	4,729.5	1,388.5	4,388.4	5,574.6	16,081.0	

(Table 59a continued on next page)

(Table 59a continued)

Forest Survey Unit and county	Growing stock					Sawtimber					
	Major species group				All species	Major species group				All species	
	Pine	Other softwoods	Soft hardwoods	Hard hardwoods		Pine	Other softwoods	Soft hardwoods	Hard hardwoods		
(In million cubic feet)					(In million board feet) ¹						
Southern Lower Peninsula											
Allegan	39.6	3.8	93.4	111.2	248.0	71.7	3.1	191.4	253.4	519.6	
Barry	2.2	1.1	59.4	99.2	161.9	5.7	0.4	93.4	229.1	328.6	
Berrien	6.4	0.1	93.9	72.9	173.3	12.1	--	181.6	178.3	372.0	
Branch	1.7	--	105.4	44.5	151.5	1.7	--	235.5	106.5	343.7	
Calhoun	3.0	2.4	122.8	55.0	183.2	5.7	9.0	292.2	130.0	436.9	
Cass	5.3	5.6	80.6	42.7	134.1	11.6	11.3	175.7	105.1	303.8	
Clinton	0.5	--	19.7	27.5	47.8	1.1	--	31.6	70.0	102.7	
Eaton	0.5	--	39.7	49.4	89.5	1.3	--	76.9	142.7	220.9	
Genesee	--	0.1	54.5	64.1	118.8	--	--	88.4	118.1	206.5	
Gratiot	8.4	--	31.6	34.7	74.6	7.9	--	42.3	45.7	96.0	
Hillsdale	7.7	0.2	39.4	50.3	97.5	16.1	--	58.0	133.5	207.6	
Huron	--	0.6	57.3	33.8	91.7	--	1.3	93.5	79.8	174.6	
Ingham	0.6	0.0	53.3	38.9	92.9	0.4	--	89.5	101.5	191.5	
Ionia	4.0	0.8	53.8	58.3	117.0	2.6	--	105.8	170.8	279.2	
Jackson	6.6	0.3	110.2	121.8	238.9	12.1	--	240.6	337.0	589.7	
Kalamazoo	24.6	9.5	118.8	90.6	243.4	67.5	14.1	253.2	224.4	559.2	
Kent	18.9	3.4	97.9	113.4	233.6	24.5	2.8	190.7	227.0	445.1	
Lapeer	10.2	6.5	59.4	85.3	161.5	22.1	10.2	94.1	203.4	329.9	
Lenawee	0.4	0.8	60.4	48.8	110.3	0.5	0.9	129.8	129.0	260.2	
Livingston	2.6	2.2	50.0	66.9	121.8	6.8	2.2	76.2	156.9	242.1	
Macomb	--	2.7	22.7	26.9	52.4	--	4.9	27.4	50.9	83.1	
Monroe	--	--	42.2	47.6	89.8	--	--	93.0	116.0	209.0	
Montcalm	22.7	2.6	80.5	102.9	208.7	64.7	0.5	93.1	207.7	366.0	
Muskegon	70.2	7.2	97.0	169.2	343.6	138.5	17.7	196.8	355.6	708.6	
Oakland	3.5	3.6	80.6	113.0	200.7	11.1	6.0	197.5	299.7	514.3	
Ottawa	21.0	1.5	86.6	85.2	194.4	39.3	3.1	173.6	219.6	435.6	
Saginaw	13.5	0.7	99.8	55.7	169.7	40.9	1.1	152.2	110.1	304.3	
St. Clair	2.4	0.0	78.9	72.2	153.7	8.2	--	202.0	153.3	363.5	
St. Joseph	13.2	0.0	52.8	46.8	112.8	29.2	--	106.6	103.4	239.2	
Sanilac	4.5	0.7	65.9	21.0	92.1	10.8	0.3	123.7	20.5	155.4	
Shiawassee	1.0	--	23.5	28.0	52.5	1.6	--	42.3	69.4	113.3	
Tuscola	17.6	6.6	85.6	53.2	163.0	28.6	7.2	105.3	110.5	251.6	
Van Buren	13.9	8.2	120.3	85.4	227.8	42.3	32.0	265.8	209.7	549.9	

(Table 59a continued on next page)

(Table 59a continued)

Forest Survey Unit and county	Growing stock					Sawtimber				
	Major species group				All species	Major species group				All species
	Pine	Other softwoods	Soft hardwoods	Hard hardwoods		Pine	Other softwoods	Soft hardwoods	Hard hardwoods	
	(In million cubic feet)					(In million board feet) ¹				
Southern Lower Peninsula										
Washtenaw	3.4	1.5	41.8	77.8	124.5	9.6	3.7	75.9	201.8	291.0
Wayne	0.0	--	32.7	36.5	69.2	--	--	62.7	109.3	172.1
Total	330.3	72.6	2,412.3	2,330.7	5,145.8	696.2	132.0	4,658.7	5,479.7	10,966.6
All counties	3,782.5	5,120.0	9,788.0	9,339.0	28,029.5	9,037.9	8,800.6	13,875.6	16,789.5	48,503.7

All table cells without observations in the inventory sample are indicated by --. Table value of 0.0 indicates the volume rounds to less than 0.1 million cubic or board feet. Columns and rows may not add to their totals due to rounding.

¹ Doyle rule.

Table 60. -- Average annual net growth of growing-stock and sawtimber (International 1/4-inch rule) on timberland by Forest Survey Unit, county, and major species group, Michigan, 2000-2001 to 2005-2006

Forest Survey Unit and county	Growing stock					Sawtimber				
	Major species group				All species	Major species group				All species
	Pine	Other softwoods	Soft hardwoods	Hard hardwoods		Pine	Other softwoods	Soft hardwoods	Hard hardwoods	
(In million cubic feet)					(In million board feet) ¹					
Eastern Upper Peninsula										
Alger	0.3	14.2	3.9	8.1	26.5	-0.2	36.6	4.5	26.8	67.8
Chippewa	3.4	10.3	11.3	2.1	27.1	20.7	47.6	26.1	10.6	105.0
Delta	3.3	12.7	3.2	1.2	20.5	9.2	42.6	3.8	4.5	60.1
Luce	4.2	8.1	7.5	10.0	29.8	21.8	27.8	14.6	37.1	101.3
Mackinac	7.5	5.4	1.6	1.8	16.4	8.8	24.6	16.3	-0.1	49.5
Menominee	2.1	10.0	5.8	3.5	21.4	4.0	22.0	8.6	18.9	53.4
Schoolcraft	4.4	6.7	3.8	2.7	17.7	20.4	19.4	7.7	9.9	57.4
Total	25.4	67.3	37.1	29.5	159.3	84.7	220.6	81.6	107.7	494.5
Western Upper Peninsula										
Baraga	1.6	4.9	5.9	3.1	15.5	5.5	27.7	21.2	11.7	66.1
Dickinson	3.4	-1.0	5.5	2.2	10.1	19.3	9.6	12.5	7.8	49.2
Gogebic	2.3	3.7	3.3	7.5	16.8	11.8	25.5	10.9	38.2	86.4
Houghton	1.3	7.3	8.1	5.6	22.3	13.6	39.7	33.8	23.2	110.4
Iron	4.7	8.3	6.7	6.1	25.8	24.6	31.9	19.7	26.7	103.0
Keweenaw	0.6	6.6	1.5	1.6	10.3	4.1	38.7	2.8	5.4	51.0
Marquette	1.2	10.6	4.8	6.1	22.8	7.5	49.7	26.5	25.5	109.2
Ontonagon	2.1	0.7	4.9	4.4	12.1	6.4	7.0	35.5	17.0	65.9
Total	17.1	41.0	40.8	36.6	135.6	92.9	229.9	162.9	155.5	641.2

(Table 60 continued on next page)

(Table 60 continued)

Forest Survey Unit and county	Growing stock					Sawtimber					
	Major species group				All species	Major species group				All species	
	Pine	Other softwoods	Soft hardwoods	Hard hardwoods		Pine	Other softwoods	Soft hardwoods	Hard hardwoods		
(In million cubic feet)					(In million board feet) ¹						
Northern Lower Peninsula											
Alcona	0.8	1.4	3.9	4.1	10.2	3.8	4.4	16.1	17.9	42.2	
Alpena	2.3	4.3	3.6	1.9	12.2	10.1	10.3	4.2	6.2	30.8	
Antrim	0.8	--	1.6	3.0	5.4	5.9	--	9.0	10.8	25.7	
Arenac	1.7	0.1	2.6	5.2	9.5	5.4	0.3	3.1	19.1	27.9	
Bay	--	--	0.9	0.3	1.1	--	--	0.4	0.3	0.7	
Benzie	0.2	--	0.2	3.4	3.8	0.0	--	-5.7	15.0	9.4	
Charlevoix	0.9	0.2	1.2	2.9	5.2	5.3	3.9	7.9	12.0	29.0	
Cheboygan	3.6	2.8	2.6	2.2	11.1	21.7	13.9	8.5	6.9	50.9	
Clare	1.5	-0.1	6.2	0.7	8.4	8.2	0.4	25.2	6.0	39.8	
Crawford	2.3	1.0	1.3	0.2	4.9	10.1	0.4	5.4	0.3	16.2	
Emmet	1.8	0.5	2.6	3.5	8.5	9.9	1.8	8.8	19.2	39.7	
Gladwin	-0.2	--	4.0	1.8	5.7	0.5	--	16.2	5.7	22.3	
Grand Traverse	1.3	-0.1	1.5	3.0	5.7	8.7	1.1	2.5	8.9	21.2	
Iosco	4.9	1.2	2.8	4.6	13.5	23.5	6.6	12.1	16.7	58.9	
Isabella	--	-2.0	3.7	4.0	5.8	--	-7.9	11.2	11.9	15.2	
Kalkaska	5.9	0.2	7.4	2.8	16.3	38.2	-0.3	19.4	13.8	71.1	
Lake	5.2	1.7	2.7	3.8	13.4	24.8	4.0	7.2	15.0	50.9	
Leelanau	--	-1.4	0.3	1.9	0.8	--	-7.5	1.5	8.1	2.1	
Manistee	2.7	0.7	2.5	2.7	8.6	15.9	4.3	4.9	8.2	33.4	
Mason	2.7	0.0	1.8	3.0	7.5	16.4	--	5.8	10.4	32.6	
Mecosta	4.0	0.3	3.4	3.3	11.0	10.1	1.1	9.5	12.9	33.5	
Midland	0.2	--	2.9	1.6	4.8	1.0	--	5.4	2.3	8.7	
Missaukee	-1.5	0.6	4.2	3.7	7.0	-13.0	0.9	9.1	12.2	9.3	
Montmorency	3.6	1.0	1.0	1.8	7.4	18.4	4.6	-1.2	4.5	26.4	
Newaygo	5.9	0.2	2.7	2.7	11.4	34.6	0.2	8.2	11.6	54.7	
Oceana	2.4	0.2	4.1	3.4	10.1	10.4	0.6	12.8	13.1	37.0	
Ogemaw	2.2	0.2	1.8	1.9	6.1	12.1	--	8.3	13.6	33.9	
Osceola	0.1	0.2	4.5	0.1	4.9	1.9	0.6	17.6	4.3	24.5	
Oscoda	4.7	0.4	3.1	2.9	11.1	11.9	3.7	6.0	14.3	35.9	
Otsego	3.6	0.7	1.1	3.8	9.2	19.9	2.1	2.8	14.6	39.4	
Presque Isle	0.7	1.1	3.3	0.8	5.9	1.5	7.1	10.9	3.7	23.1	
Roscommon	0.7	-0.5	1.2	1.9	3.3	3.0	-0.7	1.6	10.8	14.7	
Wexford	5.1	2.0	3.4	6.2	16.7	31.4	7.1	8.6	29.4	76.4	
Total	70.3	17.1	90.2	89.0	266.6	351.6	63.0	263.3	359.5	1,037.4	

(Table 60 continued on next page)

(Table 60 continued)

Forest Survey Unit and county	Growing stock					Sawtimber				
	Major species group				All species	Major species group				All species
	Pine	Other softwoods	Soft hardwoods	Hard hardwoods		Pine	Other softwoods	Soft hardwoods	Hard hardwoods	
(In million cubic feet)					(In million board feet) ¹					
Southern Lower Peninsula										
Allegan	1.1	0.2	3.7	4.0	9.0	5.4	--	13.2	19.4	37.9
Barry	--	0.1	3.5	1.3	4.8	--	--	17.4	8.9	26.3
Berrien	0.9	0.0	20.4	0.7	22.0	5.1	--	75.4	2.1	82.5
Branch	-0.8	--	3.0	2.5	4.7	0.4	--	17.8	10.9	29.0
Calhoun	--	--	15.7	6.1	21.8	--	--	72.0	28.3	100.3
Cass	--	--	3.4	1.7	5.1	--	--	13.2	4.0	17.2
Clinton	--	--	0.5	0.7	1.2	--	--	0.4	2.2	2.6
Eaton	--	--	3.3	4.1	7.4	--	--	18.5	16.2	34.7
Genesee	--	0.1	8.1	2.0	10.1	--	--	27.4	2.3	29.7
Gratiot	--	--	0.3	0.0	0.3	--	--	--	--	--
Hillsdale	0.9	--	2.2	0.1	3.3	5.7	--	3.2	2.1	11.0
Huron	--	0.0	-2.1	3.0	1.0	--	0.3	-8.3	12.0	4.0
Ingham	--	--	2.0	0.8	2.8	--	--	7.7	3.6	11.3
Ionia	--	--	3.6	4.2	7.8	--	--	14.3	21.1	35.5
Jackson	0.9	--	4.1	10.2	15.2	6.1	--	21.0	47.0	74.1
Kalamazoo	-0.1	0.0	-1.7	2.5	0.8	-0.7	--	-9.1	10.6	0.7
Kent	0.7	--	1.4	2.8	4.9	2.4	--	2.2	9.4	14.0
Lapeer	0.9	0.1	2.3	2.1	5.5	5.4	--	13.1	8.4	26.9
Lenawee	--	--	0.0	0.3	0.3	--	--	-0.5	0.9	0.3
Livingston	--	--	1.2	1.2	2.4	--	--	6.3	6.3	12.6
Macomb	0.0	--	0.3	0.2	0.6	--	--	0.3	--	0.3
Monroe	--	--	1.7	0.4	2.1	--	--	9.0	-1.6	7.4
Montcalm	0.6	--	4.6	1.1	6.4	2.2	--	5.7	2.8	10.7
Muskegon	1.1	0.3	3.9	4.5	9.8	4.7	1.0	20.5	21.1	47.3
Oakland	0.3	0.2	7.6	16.8	24.9	--	--	13.7	69.5	83.2
Ottawa	-5.6	0.0	4.0	1.8	0.2	-29.6	0.1	20.0	8.2	-1.3
Saginaw	-0.6	--	3.9	0.4	3.8	-3.3	--	13.8	6.7	17.2
St. Clair	-1.2	--	1.5	1.0	1.3	-6.7	--	4.5	3.3	1.1
St. Joseph	1.6	--	0.7	0.4	2.7	11.0	--	2.0	3.5	16.5
Sanilac	1.6	--	-0.1	0.2	1.8	6.7	--	-2.3	--	4.4
Shiawassee	--	--	0.0	0.8	0.8	--	--	-1.0	1.8	0.7
Tuscola	0.9	0.1	3.4	2.0	6.4	2.9	0.2	9.2	2.6	14.8
Van Buren	--	--	4.2	4.4	8.6	--	--	21.0	22.2	43.1

(Table 60 continued on next page)

(Table 60 continued)

Forest Survey Unit and county	Growing stock					Sawtimber				
	Major species group				All species	Major species group				All species
	Pine	Other softwoods	Soft hardwoods	Hard hardwoods		Pine	Other softwoods	Soft hardwoods	Hard hardwoods	
(In million cubic feet)					(In million board feet) ¹					
Southern Lower Peninsula										
Washtenaw	--	--	1.7	1.5	3.2	--	--	2.3	5.8	8.1
Wayne	--	--	0.5	-3.6	-3.1	--	--	1.3	-6.6	-5.3
Total	3.4	1.1	112.9	82.4	199.8	17.6	1.5	425.2	354.8	799.1
All counties	116.2	126.6	281.0	237.5	761.2	546.9	515.0	932.9	977.5	2,972.3

All table cells without observations in the inventory sample are indicated by --. Table value of 0.0 indicates the volume rounds to less than 0.1 million cubic or board feet. Columns and rows may not add to their totals due to rounding.

¹ International 1/4-inch rule.

Table 60a. -- Average annual net growth of growing-stock and sawtimber (Doyle rule) on timberland by Forest Survey Unit, county, and major species group, Michigan, 2000-2001 to 2005-2006

Forest Survey Unit and county	Growing stock					Sawtimber				
	Major species group				All species	Major species group				All species
	Pine	Other softwoods	Soft hardwoods	Hard hardwoods		Pine	Other softwoods	Soft hardwoods	Hard hardwoods	
(In million cubic feet)					(In million board feet) ¹					
Eastern Upper Peninsula										
Alger	0.3	14.2	3.9	8.1	26.5	-0.5	14.3	-1.3	12.8	25.3
Chippewa	3.4	10.3	11.3	2.1	27.1	11.2	21.5	12.8	4.3	49.8
Delta	3.3	12.7	3.2	1.2	20.5	3.6	19.6	1.6	1.4	26.2
Luce	4.2	8.1	7.5	10.0	29.8	14.5	13.0	9.0	18.2	54.8
Mackinac	7.5	5.4	1.6	1.8	16.4	5.8	10.1	6.0	-4.7	17.2
Menominee	2.1	10.0	5.8	3.5	21.4	2.0	7.5	4.1	9.1	22.8
Schoolcraft	4.4	6.7	3.8	2.7	17.7	11.5	11.3	3.1	4.8	30.7
Total	25.4	67.3	37.1	29.5	159.3	48.1	97.3	35.3	46.0	226.7
Western Upper Peninsula										
Baraga	1.6	4.9	5.9	3.1	15.5	2.3	20.1	11.3	5.4	39.1
Dickinson	3.4	-1.0	5.5	2.2	10.1	16.3	3.1	5.7	3.4	28.5
Gogebic	2.3	3.7	3.3	7.5	16.8	6.3	10.5	6.2	17.9	40.9
Houghton	1.3	7.3	8.1	5.6	22.3	5.3	22.8	16.0	12.6	56.8
Iron	4.7	8.3	6.7	6.1	25.8	18.6	18.6	9.0	13.2	59.4
Keweenaw	0.6	6.6	1.5	1.6	10.3	3.6	29.3	1.5	2.8	37.2
Marquette	1.2	10.6	4.8	6.1	22.8	3.7	25.1	11.2	12.1	52.0
Ontonagon	2.1	0.7	4.9	4.4	12.1	3.3	4.2	17.6	7.7	32.7
Total	17.1	41.0	40.8	36.6	135.6	59.3	133.7	78.4	75.1	346.6

(Table 60a continued on next page)

(Table 60a continued)

Forest Survey Unit and county	Growing stock					Sawtimber				
	Major species group				All species	Major species group				All species
	Pine	Other softwoods	Soft hardwoods	Hard hardwoods		Pine	Other softwoods	Soft hardwoods	Hard hardwoods	
(In million cubic feet)					(In million board feet) ¹					
Northern Lower Peninsula										
Alcona	0.8	1.4	3.9	4.1	10.2	2.3	1.8	7.4	10.0	21.5
Alpena	2.3	4.3	3.6	1.9	12.2	4.9	3.7	1.9	3.5	14.0
Antrim	0.8	--	1.6	3.0	5.4	2.1	--	4.4	5.4	11.9
Arenac	1.7	0.1	2.6	5.2	9.5	2.8	0.1	1.4	15.1	19.4
Bay	--	--	0.9	0.3	1.1	--	--	0.2	0.1	0.3
Benzie	0.2	--	0.2	3.4	3.8	0.0	--	-3.1	7.7	4.6
Charlevoix	0.9	0.2	1.2	2.9	5.2	3.7	1.6	4.1	6.0	15.4
Cheboygan	3.6	2.8	2.6	2.2	11.1	11.8	5.9	4.2	3.2	25.0
Clare	1.5	-0.1	6.2	0.7	8.4	3.2	0.2	12.1	3.3	18.8
Crawford	2.3	1.0	1.3	0.2	4.9	6.2	0.1	2.4	0.0	8.8
Emmet	1.8	0.5	2.6	3.5	8.5	5.4	0.7	5.4	9.9	21.3
Gladwin	-0.2	--	4.0	1.8	5.7	0.3	--	8.1	3.3	11.7
Grand Traverse	1.3	-0.1	1.5	3.0	5.7	4.9	-0.1	1.9	4.6	11.3
Iosco	4.9	1.2	2.8	4.6	13.5	11.8	2.7	5.8	12.6	32.8
Isabella	--	-2.0	3.7	4.0	5.8	--	-4.8	5.5	6.2	7.0
Kalkaska	5.9	0.2	7.4	2.8	16.3	16.8	0.2	8.7	6.5	32.2
Lake	5.2	1.7	2.7	3.8	13.4	11.6	1.5	3.5	10.1	26.6
Leelanau	--	-1.4	0.3	1.9	0.8	--	-5.8	0.9	4.3	-0.6
Manistee	2.7	0.7	2.5	2.7	8.6	10.5	1.8	2.5	3.8	18.5
Mason	2.7	0.0	1.8	3.0	7.5	6.2	--	2.8	6.0	15.0
Mecosta	4.0	0.3	3.4	3.3	11.0	7.0	0.5	4.5	6.8	18.7
Midland	0.2	--	2.9	1.6	4.8	0.5	--	2.3	1.0	3.8
Missaukee	-1.5	0.6	4.2	3.7	7.0	-13.6	0.2	5.2	5.6	-2.6
Montmorency	3.6	1.0	1.0	1.8	7.4	12.9	1.9	-0.4	2.1	16.6
Newaygo	5.9	0.2	2.7	2.7	11.4	14.5	0.1	1.3	7.0	22.8
Oceana	2.4	0.2	4.1	3.4	10.1	4.7	0.4	6.4	7.2	18.7
Ogemaw	2.2	0.2	1.8	1.9	6.1	5.4	--	2.8	6.3	14.6
Osceola	0.1	0.2	4.5	0.1	4.9	0.7	-0.2	7.9	0.5	8.8
Oscoda	4.7	0.4	3.1	2.9	11.1	5.3	1.8	2.7	8.0	17.8
Otsego	3.6	0.7	1.1	3.8	9.2	8.1	1.1	1.4	6.8	17.5
Presque Isle	0.7	1.1	3.3	0.8	5.9	0.5	3.0	5.1	2.0	10.6
Roscommon	0.7	-0.5	1.2	1.9	3.3	1.3	-0.6	0.7	4.2	5.6
Wexford	5.1	2.0	3.4	6.2	16.7	14.0	2.4	4.5	15.2	36.2
Total	70.3	17.1	90.2	89.0	266.6	165.8	20.3	124.4	194.3	504.8

(Table 60a continued on next page)

(Table 60a continued)

Forest Survey Unit and county	Growing stock					Sawtimber				
	Major species group				All species	Major species group				All species
	Pine	Other softwoods	Soft hardwoods	Hard hardwoods		Pine	Other softwoods	Soft hardwoods	Hard hardwoods	
(In million cubic feet)					(In million board feet) ¹					
Southern Lower Peninsula										
Allegan	1.1	0.2	3.7	4.0	9.0	2.0	--	5.5	9.4	16.9
Barry	--	0.1	3.5	1.3	4.8	--	--	--	9.1	5.9
Berrien	0.9	0.0	20.4	0.7	22.0	2.5	--	46.1	1.4	50.0
Branch	-0.8	--	3.0	2.5	4.7	0.2	--	9.6	6.0	15.8
Calhoun	--	--	15.7	6.1	21.8	--	--	45.5	28.5	73.9
Cass	--	--	3.4	1.7	5.1	--	--	7.9	2.5	10.4
Clinton	--	--	0.5	0.7	1.2	--	--	0.3	1.2	1.5
Eaton	--	--	3.3	4.1	7.4	--	--	11.6	8.8	20.3
Genesee	--	0.1	8.1	2.0	10.1	--	--	19.7	1.0	20.7
Gratiot	--	--	0.3	0.0	0.3	--	--	--	--	--
Hillsdale	0.9	--	2.2	0.1	3.3	2.9	--	1.4	1.4	5.8
Huron	--	0.0	-2.1	3.0	1.0	--	0.2	-5.9	8.2	2.5
Ingham	--	--	2.0	0.8	2.8	--	--	4.5	1.6	6.0
Ionia	--	--	3.6	4.2	7.8	--	--	7.1	14.6	21.7
Jackson	0.9	--	4.1	10.2	15.2	2.9	--	11.2	31.2	45.2
Kalamazoo	-0.1	0.0	-1.7	2.5	0.8	-0.6	--	-5.3	5.9	0.0
Kent	0.7	--	1.4	2.8	4.9	0.9	--	1.4	6.3	8.5
Lapeer	0.9	0.1	2.3	2.1	5.5	1.9	--	9.3	4.0	15.2
Lenawee	--	--	0.0	0.3	0.3	--	--	-0.4	0.4	-0.1
Livingston	--	--	1.2	1.2	2.4	--	--	1.9	3.0	4.9
Macomb	0.0	--	0.3	0.2	0.6	--	--	0.2	--	0.2
Monroe	--	--	1.7	0.4	2.1	--	--	5.7	-1.2	4.5
Montcalm	0.6	--	4.6	1.1	6.4	1.6	--	2.7	0.8	5.1
Muskegon	1.1	0.3	3.9	4.5	9.8	2.4	0.7	10.3	11.3	24.7
Oakland	0.3	0.2	7.6	16.8	24.9	--	--	6.0	42.3	48.2
Ottawa	-5.6	0.0	4.0	1.8	0.2	-19.0	0.0	16.0	4.4	1.4
Saginaw	-0.6	--	3.9	0.4	3.8	-1.8	--	7.0	2.8	8.0
St. Clair	-1.2	--	1.5	1.0	1.3	-5.8	--	3.7	2.1	0.0
St. Joseph	1.6	--	0.7	0.4	2.7	5.7	--	1.2	2.3	9.1
Sanilac	1.6	--	-0.1	0.2	1.8	3.2	--	-1.9	--	1.3
Shiawassee	--	--	0.0	0.8	0.8	--	--	1.2	0.2	1.4
Tuscola	0.9	0.1	3.4	2.0	6.4	1.6	0.1	4.8	1.2	7.7
Van Buren	--	--	4.2	4.4	8.6	--	--	11.1	13.4	24.5

(Table 60a continued on next page)

(Table 60a continued)

Forest Survey Unit and county	Growing stock					Sawtimber				
	Major species group				All species	Major species group				All species
	Pine	Other softwoods	Soft hardwoods	Hard hardwoods		Pine	Other softwoods	Soft hardwoods	Hard hardwoods	
(In million cubic feet)					(In million board feet) ¹					
Southern Lower Peninsula										
Washtenaw	--	--	1.7	1.5	3.2	--	--	1.2	5.4	6.6
Wayne	--	--	0.5	-3.6	-3.1	--	--	1.3	-2.2	-0.9
Total	3.4	1.1	112.9	82.4	199.8	0.5	1.0	250.9	223.5	475.9
All counties	116.2	126.6	281.0	237.5	761.2	273.7	252.3	489.0	538.9	1,554.0

All table cells without observations in the inventory sample are indicated by --. Table value of 0.0 indicates the volume rounds to less than 0.1 million cubic or board feet. Columns and rows may not add to their totals due to rounding.

¹ Doyle rule.

Table 61. -- Average annual removals of growing-stock and sawtimber (International 1/4-inch rule) on timberland by Forest Survey Unit, county, and major species group, Michigan, 2000-2001 to 2005-2006

Forest Survey Unit and county	Growing stock					Sawtimber					All species		
	Major species group				All species	Major species group							
	Pine	Other softwoods	Soft hardwoods	Hard hardwoods		Pine	Other softwoods	Soft hardwoods	Hard hardwoods				
(In million cubic feet)									(In million board feet) ¹				
Eastern Upper Peninsula													
Alger	--	7.3	3.2	1.5	12.0	--	36.9	7.8	3.0	47.7			
Chippewa	--	5.0	3.8	11.1	19.9	--	11.1	12.4	50.9	74.4			
Delta	--	3.3	4.2	1.5	9.0	--	6.8	4.3	5.2	16.2			
Luce	--	0.9	0.9	3.7	5.5	--	3.7	4.2	17.4	25.2			
Mackinac	--	2.8	3.6	--	6.4	--	5.4	12.9	--	18.3			
Menominee	--	1.8	4.3	1.3	7.4	--	8.0	13.0	4.9	25.9			
Schoolcraft	1.6	2.1	4.9	--	8.6	8.9	10.4	8.4	--	27.7			
Total	1.6	23.4	24.8	19.1	68.8	8.9	82.2	63.0	81.4	235.4			
Western Upper Peninsula													
Baraga	--	1.9	2.1	5.2	9.2	--	5.6	7.1	19.2	32.0			
Dickinson	--	0.5	3.0	1.9	5.3	--	2.3	9.6	6.4	18.3			
Gogebic	--	1.9	4.8	1.2	7.9	--	2.9	12.7	2.3	17.9			
Houghton	1.0	3.5	7.1	8.8	20.4	3.1	13.0	17.4	25.5	59.0			
Iron	--	13.3	4.2	0.6	18.1	--	50.6	3.6	1.8	56.0			
Keweenaw	2.1	3.1	1.6	7.4	14.2	11.5	14.5	4.9	26.6	57.6			
Marquette	0.3	8.8	19.2	9.0	37.4	--	40.0	53.8	26.0	119.8			
Ontonagon	--	0.8	3.2	4.1	8.1	--	4.5	6.2	13.0	23.6			
Total	3.4	34.0	45.2	38.1	120.6	14.6	133.3	115.3	120.9	384.1			

(Table 61 continued on next page)

(Table 61 continued)

Forest Survey Unit and county	Growing stock					Sawtimber					
	Major species group				All species	Major species group				All species	
	Pine	Other softwoods	Soft hardwoods	Hard hardwoods		Pine	Other softwoods	Soft hardwoods	Hard hardwoods		
(In million cubic feet)					(In million board feet) ¹						
Northern Lower Peninsula											
Alcona	--	0.2	2.0	--	2.2	--	--	--	--	--	
Alpena	--	0.9	0.6	--	1.4	--	3.9	--	--	3.9	
Antrim	--	--	0.2	0.8	1.0	--	--	--	--	--	
Arenac	--	--	0.1	--	0.1	--	--	--	--	--	
Charlevoix	--	--	3.0	--	3.0	--	--	15.2	--	15.2	
Clare	--	0.1	--	--	0.1	--	--	--	--	--	
Crawford	1.2	--	--	--	1.2	0.6	--	--	--	0.6	
Emmet	--	--	0.1	1.0	1.1	--	--	--	--	--	
Gladwin	--	--	3.9	--	3.9	--	--	10.4	--	10.4	
Iosco	--	--	7.3	--	7.3	--	--	36.0	--	36.0	
Isabella	--	--	--	0.1	0.1	--	--	--	--	--	
Kalkaska	9.4	0.5	2.5	--	12.4	26.5	--	6.3	--	32.8	
Lake	1.2	--	0.8	0.0	2.1	1.4	--	2.0	--	3.4	
Leelanau	--	--	--	1.2	1.2	--	--	--	5.7	5.7	
Manistee	--	--	0.3	--	0.3	--	--	--	--	--	
Mason	3.0	--	--	2.0	5.0	5.6	--	--	10.6	16.2	
Missaukee	1.1	--	5.3	2.8	9.2	--	--	16.7	11.0	27.7	
Montmorency	1.1	--	2.3	0.2	3.6	2.7	--	--	--	2.7	
Newaygo	--	--	1.4	3.1	4.5	--	--	1.5	13.0	14.5	
Ogemaw	1.0	--	4.3	1.6	6.9	3.8	--	13.9	4.3	22.0	
Osceola	0.1	--	--	--	0.1	--	--	--	--	--	
Oscoda	--	--	0.1	--	0.1	--	--	--	--	--	
Otsego	1.7	--	1.3	1.6	4.6	2.3	--	1.5	6.5	10.4	
Presque Isle	--	3.9	2.7	0.4	6.9	--	9.0	--	--	9.0	
Roscommon	1.6	0.1	1.2	12.8	15.6	7.7	--	2.0	42.3	52.0	
Wexford	--	--	1.3	1.1	2.3	--	--	--	0.7	0.7	
Total	21.3	5.6	40.6	28.7	96.2	50.6	12.9	105.5	94.2	263.2	

(Table 61 continued on next page)

(Table 61 continued)

Forest Survey Unit and county	Growing stock					Sawtimber					
	Major species group				All species	Major species group				All species	
	Pine	Other softwoods	Soft hardwoods	Hard hardwoods		Pine	Other softwoods	Soft hardwoods	Hard hardwoods		
(In million cubic feet)					(In million board feet) ¹						
Southern Lower Peninsula											
Allegan	0.1	--	--	--	0.1	--	--	--	--	--	
Berrien	--	--	0.3	0.1	0.4	--	--	--	--	--	
Branch	--	--	0.3	--	0.3	--	--	--	--	--	
Calhoun	--	--	1.8	0.6	2.3	--	--	8.2	2.5	10.7	
Cass	--	--	0.2	0.2	0.4	--	--	--	--	--	
Eaton	--	--	10.4	1.4	11.8	--	--	50.2	6.6	56.8	
Genesee	--	--	--	2.4	2.4	--	--	--	--	--	
Ingham	--	--	0.1	--	0.1	--	--	--	--	--	
Ionia	--	--	1.3	--	1.3	--	--	--	--	--	
Jackson	--	--	1.2	2.4	3.6	--	--	5.6	12.0	17.6	
Kent	--	--	0.7	3.7	4.4	--	--	2.6	11.7	14.4	
Macomb	0.0	--	0.9	--	0.9	--	--	3.5	--	3.5	
Oakland	--	--	--	2.9	2.9	--	--	--	13.9	13.9	
Saginaw	--	--	0.4	--	0.4	--	--	--	--	--	
St. Joseph	--	--	--	9.2	9.2	--	--	--	42.5	42.5	
Shiawassee	--	--	1.0	0.9	1.8	--	--	4.6	4.0	8.7	
Van Buren	--	--	1.0	2.0	3.0	--	--	4.6	9.1	13.7	
Wayne	--	--	--	2.0	2.0	--	--	--	10.2	10.2	
Total	0.2	--	19.5	27.7	47.4	--	--	79.3	112.5	191.8	
All counties	26.4	62.9	130.1	113.6	333.0	74.1	228.3	363.1	408.9	1,074.5	

All table cells without observations in the inventory sample are indicated by --. Table value of 0.0 indicates the volume rounds to less than 0.1 million cubic or board feet. Columns and rows may not add to their totals due to rounding.

¹ International 1/4-inch rule.

Table 61a. -- Average annual removals of growing stock and sawtimber (Doyle rule) on timberland by Forest Survey Unit, county, and major species group, Michigan, 2000-2001 to 2005-2006

Forest Survey Unit and county	Growing stock					Sawtimber				
	Major species group				All species	Major species group				All species
	Pine	Other softwoods	Soft hardwoods	Hard hardwoods		Pine	Other softwoods	Soft hardwoods	Hard hardwoods	
(In million cubic feet)					(In million board feet) ¹					
Eastern Upper Peninsula										
Alger	--	7.3	3.2	1.5	12.0	--	27.6	3.6	1.5	32.7
Chippewa	--	5.0	3.8	11.1	19.9	--	6.5	8.3	31.0	45.8
Delta	--	3.3	4.2	1.5	9.0	--	2.3	2.3	3.1	7.7
Luce	--	0.9	0.9	3.7	5.5	--	2.2	3.0	11.9	17.1
Mackinac	--	2.8	3.6	--	6.4	--	1.9	6.7	--	8.5
Menominee	--	1.8	4.3	1.3	7.4	--	3.9	6.8	2.8	13.5
Schoolcraft	1.6	2.1	4.9	--	8.6	7.8	6.0	3.0	--	16.8
Total	1.6	23.4	24.8	19.1	68.8	7.8	50.5	33.7	50.2	142.2
Western Upper Peninsula										
Baraga	--	1.9	2.1	5.2	9.2	--	3.0	4.0	11.4	18.4
Dickinson	--	0.5	3.0	1.9	5.3	--	1.1	6.1	4.6	11.8
Gogebic	--	1.9	4.8	1.2	7.9	--	1.2	5.7	1.2	8.1
Houghton	1.0	3.5	7.1	8.8	20.4	0.3	11.6	8.5	14.4	34.9
Iron	--	13.3	4.2	0.6	18.1	--	29.6	1.3	0.8	31.6
Keweenaw	2.1	3.1	1.6	7.4	14.2	10.1	9.8	2.5	15.2	37.6
Marquette	0.3	8.8	19.2	9.0	37.4	--	21.6	31.9	14.5	68.0
Ontonagon	--	0.8	3.2	4.1	8.1	--	3.4	3.3	6.8	13.5
Total	3.4	34.0	45.2	38.1	120.6	10.4	81.4	63.2	68.9	223.9

(Table 61a continued on next page)

(Table 61a continued)

Forest Survey Unit and county	Growing stock					Sawtimber				
	Major species group				All species	Major species group				All species
	Pine	Other softwoods	Soft hardwoods	Hard hardwoods		Pine	Other softwoods	Soft hardwoods	Hard hardwoods	
(In million cubic feet)					(In million board feet) ¹					
Northern Lower Peninsula										
Alcona	--	0.2	2.0	--	2.2	--	--	--	--	--
Alpena	--	0.9	0.6	--	1.4	--	2.1	--	--	2.1
Antrim	--	--	0.2	0.8	1.0	--	--	--	--	--
Arenac	--	--	0.1	--	0.1	--	--	--	--	--
Charlevoix	--	--	3.0	--	3.0	--	--	11.5	--	11.5
Clare	--	0.1	--	--	0.1	--	--	--	--	--
Crawford	1.2	--	--	--	1.2	0.2	--	--	--	0.2
Emmet	--	--	0.1	1.0	1.1	--	--	--	--	--
Gladwin	--	--	3.9	--	3.9	--	--	4.3	--	4.3
Iosco	--	--	7.3	--	7.3	--	--	28.8	--	28.8
Isabella	--	--	--	0.1	0.1	--	--	--	--	--
Kalkaska	9.4	0.5	2.5	--	12.4	19.4	--	4.1	--	23.5
Lake	1.2	--	0.8	0.0	2.1	0.5	--	0.8	--	1.3
Leelanau	--	--	--	1.2	1.2	--	--	--	3.4	3.4
Manistee	--	--	0.3	--	0.3	--	--	--	--	--
Mason	3.0	--	--	2.0	5.0	1.9	--	--	8.3	10.1
Missaukee	1.1	--	5.3	2.8	9.2	--	--	9.3	5.8	15.1
Montmorency	1.1	--	2.3	0.2	3.6	0.9	--	--	--	0.9
Newaygo	--	--	1.4	3.1	4.5	--	--	--	9.3	9.3
Ogemaw	1.0	--	4.3	1.6	6.9	1.6	--	5.7	1.8	9.1
Osceola	0.1	--	--	--	0.1	--	--	--	--	--
Oscoda	--	--	0.1	--	0.1	--	--	--	--	--
Otsego	1.7	--	1.3	1.6	4.6	--	--	0.6	3.6	4.2
Presque Isle	--	3.9	2.7	0.4	6.9	--	4.5	--	--	4.5
Roscommon	1.6	0.1	1.2	12.8	15.6	2.9	--	1.0	20.4	24.4
Wexford	--	--	1.3	1.1	2.3	--	--	--	--	--
Total	21.3	5.6	40.6	28.7	96.2	27.4	6.6	66.3	52.6	152.9

(Table 61a continued on next page)

(Table 61a continued)

Forest Survey Unit and county	Growing stock					Sawtimber					
	Major species group				All species	Major species group				All species	
	Pine	Other softwoods	Soft hardwoods	Hard hardwoods		Pine	Other softwoods	Soft hardwoods	Hard hardwoods		
(In million cubic feet)					(In million board feet) ¹						
Southern Lower Peninsula											
Allegan	0.1	--	--	--	0.1	--	--	--	--	--	
Berrien	--	--	0.3	0.1	0.4	--	--	--	--	--	
Branch	--	--	0.3	--	0.3	--	--	--	--	--	
Calhoun	--	--	1.8	0.6	2.3	--	--	6.4	1.5	7.9	
Cass	--	--	0.2	0.2	0.4	--	--	--	--	--	
Eaton	--	--	10.4	1.4	11.8	--	--	39.1	5.2	44.3	
Genesee	--	--	--	2.4	2.4	--	--	--	--	--	
Ingham	--	--	0.1	--	0.1	--	--	--	--	--	
Ionia	--	--	1.3	--	1.3	--	--	--	--	--	
Jackson	--	--	1.2	2.4	3.6	--	--	3.7	10.5	14.2	
Kent	--	--	0.7	3.7	4.4	--	--	1.1	6.2	7.3	
Macomb	0.0	--	0.9	--	0.9	--	--	2.3	--	2.3	
Oakland	--	--	--	2.9	2.9	--	--	--	9.6	9.6	
Saginaw	--	--	0.4	--	0.4	--	--	--	--	--	
St. Joseph	--	--	--	9.2	9.2	--	--	--	34.8	34.8	
Shiawassee	--	--	1.0	0.9	1.8	--	--	2.7	2.4	5.1	
Van Buren	--	--	1.0	2.0	3.0	--	--	2.7	5.4	8.1	
Wayne	--	--	--	2.0	2.0	--	--	--	8.9	8.9	
Total	0.2	--	19.5	27.7	47.4	--	--	58.0	84.4	142.4	
All counties	26.4	62.9	130.1	113.6	333.0	45.6	138.4	221.3	256.1	661.4	

All table cells without observations in the inventory sample are indicated by --. Table value of 0.0 indicates the volume rounds to less than 0.1 million cubic or board feet. Columns and rows may not add to their totals due to rounding.

¹ Doyle rule.

Table 65. -- Sampling errors by Forest Survey Unit and county for area of timberland, volume, average annual net growth, average annual removals, and average annual mortality on timberland, Michigan, 2002-2006

(Sampling error in percent)

Forest Survey Unit and county	Forest area	Timberland area	Growing stock			Volume	Sawtimber		
			Volume	Average annual net growth	Average annual removals		Average annual net growth	Average annual removals	Average annual mortality
Eastern Upper Peninsula									
Alger	6.52	6.64	--	--	--	--	--	--	--
Chippewa	5.19	5.31	--	--	--	--	--	--	--
Delta	6.12	6.15	--	--	--	--	--	--	--
Luce	6.79	6.87	--	--	--	--	--	--	--
Mackinac	6.34	6.48	--	--	--	--	--	--	--
Menominee	6.76	6.79	--	--	--	--	--	--	--
Schoolcraft	6.43	6.52	--	--	--	--	--	--	--
Total	0.73	0.83	--	--	--	--	--	--	--
Western Upper Peninsula									
Baraga	6.76	6.85	--	--	--	--	--	--	--
Dickinson	7.69	7.69	--	--	--	--	--	--	--
Gogebic	5.81	6.05	--	--	--	--	--	--	--
Houghton	6.75	6.88	--	--	--	--	--	--	--
Iron	5.89	5.90	--	--	--	--	--	--	--
Keweenaw	8.49	11.40	--	--	--	--	--	--	--
Marquette	4.60	4.68	--	--	--	--	--	--	--
Ontonagon	5.51	5.74	--	--	--	--	--	--	--
Total	0.60	0.82	--	--	--	--	--	--	--

(Table 65 continued on next page)

(Table 65 continued)

Forest Survey Unit and county	Forest area	Timberland area	Growing stock			Sawtimber		
			Volume	Average annual net growth	Average annual removals	Average annual mortality	Volume	Average annual net growth
Northern Lower Peninsula								
Alcona	8.58	8.61	--	--	--	--	--	--
Alpena	10.02	10.09	--	--	--	--	--	--
Antrim	11.79	11.79	--	--	--	--	--	--
Arenac	15.25	15.43	--	--	--	--	--	--
Bay	25.63	25.63	--	--	--	--	--	--
Benzie	14.09	14.41	--	--	--	--	--	--
Charlevoix	12.44	12.44	--	--	--	--	--	--
Cheboygan	8.32	8.35	--	--	--	--	--	--
Clare	11.76	11.77	--	--	--	--	--	--
Crawford	9.42	9.55	--	--	--	--	--	--
Emmet	11.55	11.55	--	--	--	--	--	--
Gladwin	11.42	11.42	--	--	--	--	--	--
Grand Traverse	11.20	11.44	--	--	--	--	--	--
Iosco	9.74	9.90	--	--	--	--	--	--
Isabella	15.38	15.38	--	--	--	--	--	--
Kalkaska	9.34	9.34	--	--	--	--	--	--
Lake	8.94	8.94	--	--	--	--	--	--
Leelanau	14.12	15.37	--	--	--	--	--	--
Manistee	10.28	10.34	--	--	--	--	--	--
Mason	11.78	12.04	--	--	--	--	--	--
Mecosta	14.26	14.26	--	--	--	--	--	--
Midland	13.06	13.06	--	--	--	--	--	--
Missaukee	10.49	10.50	--	--	--	--	--	--
Montmorency	9.25	9.38	--	--	--	--	--	--
Newaygo	8.85	8.85	--	--	--	--	--	--
Oceana	11.52	11.52	--	--	--	--	--	--
Ogemaw	10.58	10.64	--	--	--	--	--	--
Osceola	13.41	13.41	--	--	--	--	--	--
Oscoda	8.86	9.07	--	--	--	--	--	--
Otsego	9.98	10.07	--	--	--	--	--	--
Presque Isle	9.08	9.22	--	--	--	--	--	--
Roscommon	9.67	9.73	--	--	--	--	--	--
Wexford	9.93	9.97	--	--	--	--	--	--

(Table 65 continued on next page)

(Table 65 continued)

Forest Survey Unit and county	Forest area	Timberland area	Growing stock			Sawtimber		
			Volume	Average annual net growth	Average annual removals	Average annual mortality	Volume	Average annual net growth
Total	0.64	0.68	--	--	--	--	--	--

(Table 65 continued on next page)

(Table 65 continued)

Forest Survey Unit and county	Forest area	Timberland area	Growing stock			Sawtimber			
			Volume	Average annual net growth	Average annual removals	Average annual mortality	Volume	Average annual net growth	Average annual removals
Southern Lower Peninsula									
Allegan	12.36	12.47	--	--	--	--	--	--	--
Barry	14.44	14.44	--	--	--	--	--	--	--
Berrien	16.33	16.33	--	--	--	--	--	--	--
Branch	17.71	17.71	--	--	--	--	--	--	--
Calhoun	16.66	16.66	--	--	--	--	--	--	--
Cass	17.37	17.37	--	--	--	--	--	--	--
Clinton	24.72	24.72	--	--	--	--	--	--	--
Eaton	21.60	21.60	--	--	--	--	--	--	--
Genesee	16.40	16.40	--	--	--	--	--	--	--
Gratiot	22.63	22.63	--	--	--	--	--	--	--
Hillsdale	18.63	18.63	--	--	--	--	--	--	--
Huron	19.24	19.24	--	--	--	--	--	--	--
Ingham	19.82	19.82	--	--	--	--	--	--	--
Ionia	18.86	18.86	--	--	--	--	--	--	--
Jackson	14.13	14.28	--	--	--	--	--	--	--
Kalamazoo	14.69	14.69	--	--	--	--	--	--	--
Kent	12.65	12.65	--	--	--	--	--	--	--
Lapeer	14.46	14.46	--	--	--	--	--	--	--
Lenawee	17.54	17.54	--	--	--	--	--	--	--
Livingston	16.99	16.99	--	--	--	--	--	--	--
Macomb	24.32	24.32	--	--	--	--	--	--	--
Monroe	22.85	22.85	--	--	--	--	--	--	--
Montcalm	12.68	12.68	--	--	--	--	--	--	--
Muskegon	11.35	11.35	--	--	--	--	--	--	--
Oakland	14.26	14.40	--	--	--	--	--	--	--
Ottawa	15.52	15.52	--	--	--	--	--	--	--
Saginaw	16.02	16.02	--	--	--	--	--	--	--
St. Clair	15.82	15.82	--	--	--	--	--	--	--
St. Joseph	20.03	20.03	--	--	--	--	--	--	--
Sanilac	17.55	17.55	--	--	--	--	--	--	--
Shiawassee	23.65	23.65	--	--	--	--	--	--	--
Tuscola	14.26	14.26	--	--	--	--	--	--	--
Van Buren	13.24	13.24	--	--	--	--	--	--	--

(Table 65 continued on next page)

(Table 65 continued)

Forest Survey Unit and county	Forest area	Timberland area	Growing stock			Sawtimber		
			Volume	Average annual net growth	Average annual removals	Average annual mortality	Volume	Average annual net growth
Washtenaw	15.70	15.70	--	--	--	--	--	--
Wayne	23.63	23.63	--	--	--	--	--	--
Total	1.40	1.40	--	--	--	--	--	--
All counties	0.39	0.43	--	--	--	--	--	--