

Table 1. -- Percentage of area by land status, Michigan 2003-2007

Land status	Percentage of area
Accessible forest land	
Unreserved forest land	
Timberland	47.9
Unproductive	0.6
Total unreserved forest land	48.6
Reserved forest land	
Productive	0.8
Unproductive	0.0
Total reserved forest land	0.8
All accessible forest land	49.4
Nonforest and other land	
Nonforest land	42.2
Water	
Census	2.7
Non-Census	0.6
All nonforest and other land	45.5
Nonsampled land	
Access denied	5.1
Hazardous conditions	0.1
Other	--
All land	100.0
Total area (thousands of acres)	37,399

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 2003-2007

(In thousand acres)

Owner class	Unreserved forests			Reserved forests			All forest land
	Timberland	Unproductive	Total	Productive	Unproductive	Total	
Forest Service							
National forest	2,478.6	71.6	2,550.2	88.3	--	88.3	2,638.4
Other national forest	5.3	--	5.3	--	--	--	5.3
Other Federal							
National Park Service	59.5	--	59.5	126.7	5.3	132.0	191.5
Fish and Wildlife Service	33.9	--	33.9	2.8	--	2.8	36.8
Department of Defense or Energy	9.0	--	9.0	--	--	--	9.0
Other Federal	32.7	--	32.7	--	--	--	32.7
State and local government							
State	4,039.3	44.4	4,083.7	86.0	--	86.0	4,169.8
Local (county, municipal, etc.)	336.4	5.7	342.1	2.6	--	2.6	344.7
Other non-Federal lands	7.8	--	7.8	--	--	--	7.8
Private							
Undifferentiated private	12,163.0	111.1	12,274.1	--	--	--	12,274.1
All owners	19,165.7	232.8	19,398.5	306.4	5.3	311.7	19,710.2

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 2003-2007

(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	72.9	734.3	608.6	511.6	122.2	7.5	0.7	2,057.7
Spruce / fir group	48.6	1,842.6	518.5	181.9	23.6	1.0	--	2,616.2
Pinyon / juniper group	--	1.7	--	0.8	--	--	--	2.5
Douglas-fir group	--	2.3	--	2.8	--	--	--	5.1
Fir / spruce / mountain hemlock grou	--	--	7.2	9.5	--	--	--	16.7
Exotic softwoods group	1.4	36.2	69.0	50.3	28.4	--	--	185.4
Oak / pine group	18.7	199.2	216.6	118.3	39.9	--	--	592.6
Oak / hickory group	11.9	554.7	1,267.7	784.2	96.0	20.7	--	2,735.2
Oak / gum / cypress group	--	13.4	13.0	17.3	3.8	--	--	47.6
Elm / ash / cottonwood group	19.2	515.2	477.1	354.6	69.3	3.2	1.9	1,440.5
Maple / beech / birch group	17.1	2,879.5	2,594.5	1,027.2	136.1	14.4	4.0	6,672.8
Aspen / birch group	43.3	730.7	1,356.8	953.8	97.5	13.0	5.4	3,200.5
Exotic hardwoods group	--	0.7	0.7	2.7	--	--	--	4.1
Nonstocked	4.9	66.6	40.6	16.7	4.2	--	--	133.1
All forest type groups	238.1	7,577.1	7,170.3	4,032.0	621.0	59.7	12.0	19,710.2

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Table 4. -- Area of forest land by forest type group, ownership group, and land status, Michigan 2003-2007

(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	549.9	49.1	26.6	4.2	656.6	34.9	724.9	11.7	2,057.7
Spruce / fir group	368.4	35.2	17.1	42.8	740.8	20.4	1,372.3	19.4	2,616.2
Pinyon / juniper group	--	--	--	--	--	--	2.5	--	2.5
Douglas-fir group	--	--	--	--	2.3	--	2.8	--	5.1
Fir / spruce / mountain hemlock group	--	--	--	--	--	--	16.7	--	16.7
Exotic softwoods group	3.0	--	--	--	4.8	--	176.3	1.4	185.4
Oak / pine group	101.3	5.2	--	--	193.5	8.4	277.0	7.2	592.6
Oak / hickory group	200.7	5.8	16.0	--	601.8	9.7	1,894.2	6.9	2,735.2
Oak / gum / cypress group	--	--	--	--	4.7	--	42.8	--	47.6
Elm / ash / cottonwood group	79.7	2.8	4.6	--	271.9	--	1,065.2	16.4	1,440.5
Maple / beech / birch group	759.9	38.3	44.8	44.5	1,040.4	59.3	4,671.2	14.4	6,672.8
Aspen / birch group	404.5	18.6	24.1	42.6	836.2	4.2	1,836.8	33.7	3,200.5
Exotic hardwoods group	--	--	--	--	--	--	4.1	--	4.1
Nonstocked	16.6	4.9	2.1	0.7	30.6	2.0	76.2	--	133.1
All forest type groups	2,483.9	159.8	135.2	134.8	4,383.6	138.7	12,163.0	111.1	19,710.2

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Table 5. -- Area of forest land by forest type group and stand-size class, Michigan 2003-2007

(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	1,152.1	610.4	295.3	--	--	2,057.7
Spruce / fir group	714.4	1,206.2	695.6	--	--	2,616.2
Pinyon / juniper group	--	1.7	0.8	--	--	2.5
Douglas-fir group	2.3	2.8	--	--	--	5.1
Fir / spruce / mountain hemlock group	3.6	1.3	11.9	--	--	16.7
Exotic softwoods group	69.0	80.5	36.0	--	--	185.4
Oak / pine group	231.1	213.6	147.9	--	--	592.6
Oak / hickory group	1,614.5	743.3	377.4	--	--	2,735.2
Oak / gum / cypress group	21.2	23.5	2.9	--	--	47.6
Elm / ash / cottonwood group	554.1	558.3	328.1	--	--	1,440.5
Maple / beech / birch group	3,452.0	2,592.5	628.4	--	--	6,672.8
Aspen / birch group	614.9	1,389.1	1,196.5	--	--	3,200.5
Exotic hardwoods group	--	4.1	--	--	--	4.1
Nonstocked	--	--	--	--	133.1	133.1
All forest type groups	8,429.0	7,427.3	3,720.9	--	133.1	19,710.2

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Table 6. -- Area of forest land by forest type group and stand-age class, Michigan 2003-2007

(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	--	231.5	486.3	713.4	399.1	131.5	41.9	33.4	6.5	8.2	4.7	--	2,057.7
Spruce / fir group	--	125.7	252.9	671.2	883.9	450.0	159.0	43.0	21.1	3.4	3.3	2.9	2,616.2
Pinyon / juniper group	--	--	0.8	1.7	--	--	--	--	--	--	--	--	2.5
Douglas-fir group	--	--	5.1	--	--	--	--	--	--	--	--	--	5.1
Fir / spruce / mountain hemlock group	--	11.9	2.7	2.1	--	--	--	--	--	--	--	--	16.7
Exotic softwoods group	--	30.1	80.5	72.7	2.2	--	--	--	--	--	--	--	185.4
Oak / pine group	--	82.2	144.0	225.4	96.5	38.1	5.1	1.3	--	--	--	--	592.6
Oak / hickory group	--	140.9	453.9	861.5	775.2	419.4	69.1	15.2	--	--	--	--	2,735.2
Oak / gum / cypress group	--	--	7.6	28.4	8.4	3.2	--	--	--	--	--	--	47.6
Elm / ash / cottonwood group	--	74.5	286.7	611.7	331.7	108.5	22.5	1.8	3.1	--	--	--	1,440.5
Maple / beech / birch group	--	279.8	565.9	2,023.8	2,750.7	844.5	146.5	33.4	12.6	--	8.0	2.7	6,672.8
Aspen / birch group	--	640.7	897.2	974.8	574.0	95.2	18.6	--	--	--	--	--	3,200.5
Exotic hardwoods group	--	2.5	0.9	0.7	--	--	--	--	--	--	--	--	4.1
Nonstocked	133.1	--	--	--	--	--	--	--	--	--	--	--	133.1
All forest type groups	133.1	1,619.8	3,184.5	6,187.4	5,821.6	2,090.3	462.7	128.2	43.2	11.6	15.9	5.5	19,710.2

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Table 7. -- Area of forest land by forest type group and stand origin, Michigan 2003-2007

(In thousand acres)

Forest type group	Stand origin		All forest land
	Natural stands	Artificial regeneration	
White / red / jack pine group	1,189.3	868.4	2,057.7
Spruce / fir group	2,559.0	57.2	2,616.2
Pinyon / juniper group	2.5	--	2.5
Douglas-fir group	--	5.1	5.1
Fir / spruce / mountain hemlock group	--	16.7	16.7
Exotic softwoods group	38.2	147.2	185.4
Oak / pine group	502.0	90.7	592.6
Oak / hickory group	2,707.9	27.2	2,735.2
Oak / gum / cypress group	47.6	--	47.6
Elm / ash / cottonwood group	1,437.3	3.2	1,440.5
Maple / beech / birch group	6,643.8	29.0	6,672.8
Aspen / birch group	3,172.1	28.4	3,200.5
Exotic hardwoods group	4.1	--	4.1
Nonstocked	123.6	9.5	133.1
All forest type groups	18,427.4	1,282.8	19,710.2

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Table 8. -- Area of forest land by forest type group and primary disturbance class, Michigan 2003-2007

(In thousand acres)

Forest type group	Disturbance class									All forest land
	None	Insects	Disease	Weather	Fire	Domestic animals	Wild animals	Human	Other	
White / red / jack pine group	2,026.4	4.2	6.8	5.3	6.6	--	4.9	3.5	--	2,057.7
Spruce / fir group	2,568.4	2.8	7.0	21.8	--	--	14.0	2.1	--	2,616.2
Pinyon / juniper group	2.5	--	--	--	--	--	--	--	--	2.5
Douglas-fir group	5.1	--	--	--	--	--	--	--	--	5.1
Fir / spruce / mountain hemlock group	16.7	--	--	--	--	--	--	--	--	16.7
Exotic softwoods group	174.2	2.7	--	--	--	--	--	4.4	4.2	185.4
Oak / pine group	563.7	--	2.9	6.5	--	--	1.2	11.9	6.4	592.6
Oak / hickory group	2,669.9	2.8	4.1	11.9	0.6	3.8	3.0	39.1	--	2,735.2
Oak / gum / cypress group	40.9	--	--	6.7	--	--	--	--	--	47.6
Elm / ash / cottonwood group	1,340.5	--	5.0	67.6	2.7	--	9.3	10.2	5.2	1,440.5
Maple / beech / birch group	6,463.7	6.6	46.3	13.5	4.3	8.0	26.2	101.8	2.5	6,672.8
Aspen / birch group	3,120.9	2.1	3.6	20.7	--	3.4	25.3	24.6	--	3,200.5
Exotic hardwoods group	4.1	--	--	--	--	--	--	--	--	4.1
Nonstocked	126.4	1.2	--	--	--	--	1.4	4.1	--	133.1
All forest type groups	19,123.6	22.4	75.7	153.9	14.3	15.2	85.2	201.6	18.2	19,710.2

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Table 9. -- Area of timberland by forest type group and stand-size class, Michigan 2003-2007

(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	1,114.3	600.5	243.1	--	--	1,957.9
Spruce / fir group	672.4	1,163.1	663.0	--	--	2,498.5
Pinyon / juniper group	--	1.7	0.8	--	--	2.5
Douglas-fir group	2.3	2.8	--	--	--	5.1
Fir / spruce / mountain hemlock group	3.6	1.3	11.9	--	--	16.7
Exotic softwoods group	69.0	79.1	36.0	--	--	184.0
Oak / pine group	226.4	207.8	137.7	--	--	571.8
Oak / hickory group	1,599.7	740.7	372.4	--	--	2,712.8
Oak / gum / cypress group	21.2	23.5	2.9	--	--	47.6
Elm / ash / cottonwood group	548.3	552.8	320.2	--	--	1,421.3
Maple / beech / birch group	3,336.6	2,561.6	618.0	--	--	6,516.3
Aspen / birch group	584.7	1,351.9	1,164.8	--	--	3,101.5
Exotic hardwoods group	--	4.1	--	--	--	4.1
Nonstocked	--	--	--	--	125.5	125.5
All forest type groups	8,178.4	7,291.0	3,570.8	--	125.5	19,165.7

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 2003-2007

(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																		
Loblolly and shortleaf pines	--	--	--	--	33	33	--	--	--	--	--	--	--	--	--	--	--	65
Other yellow pines	15,077	16,832	11,250	8,532	5,070	2,111	542	184	72	--	--	--	--	--	--	--	--	59,669
Eastern white and red pines	186,330	112,297	100,419	83,552	55,001	32,116	15,916	9,575	5,128	3,236	2,831	905	454	61	31	607,853		
Jack pine	145,496	69,105	43,447	28,412	14,014	5,117	1,403	419	130	30	--	--	--	--	--	--	307,571	
Spruce and balsam fir	1,788,256	503,882	195,815	84,517	30,116	10,869	4,580	1,740	586	414	120	--	--	--	--	--	2,620,896	
Eastern hemlock	55,042	27,383	15,311	13,418	11,599	8,864	7,272	4,969	3,615	2,010	2,068	468	133	16	16	16	152,184	
Other eastern softwoods	491,305	336,174	232,419	141,188	74,006	34,758	15,781	7,460	2,902	1,331	866	200	78	38	--	--	1,338,508	
All softwoods	2,681,505	1,065,674	598,661	359,652	189,840	93,835	45,494	24,346	12,434	7,021	5,885	1,574	665	115	47	5,086,747		
Hardwood species groups																		
Eastern hardwood species groups																		
Select white oaks	54,745	26,741	16,870	12,908	10,117	7,113	4,718	2,776	2,331	1,244	1,122	512	147	91	105	141,540		
Select red oaks	106,751	44,182	22,592	16,272	16,584	14,236	9,301	7,569	3,978	2,414	1,825	484	129	69	--	246,387		
Other white oaks	--	--	--	--	13	--	--	--	--	--	--	--	--	--	--	--	13	
Other red oaks	64,850	27,163	14,994	12,853	10,512	7,300	6,388	4,056	2,321	1,703	1,331	561	160	80	56	154,328		
Hickory	31,776	9,522	5,390	4,163	2,303	1,866	1,347	913	315	303	191	18	--	29	--	58,137		
Yellow birch	72,334	36,262	18,707	14,251	9,679	5,957	3,843	2,422	1,842	647	802	291	103	--	33	167,173		
Hard maple	763,818	274,194	151,426	113,892	75,619	47,266	26,439	13,129	7,131	2,982	2,782	648	139	92	--	1,479,557		
Soft maple	974,694	316,423	177,113	117,486	76,085	42,439	22,836	12,149	5,861	3,432	2,911	758	262	72	75	1,752,594		
Beech	163,341	39,379	14,108	8,647	6,104	4,442	2,973	2,246	1,437	716	859	212	12	--	--	244,477		
Tupelo and blackgum	2,191	762	509	533	148	68	58	14	25	--	--	--	--	--	--	4,308		
Ash	581,898	179,211	81,344	41,942	23,445	12,505	8,031	4,056	1,838	1,013	765	208	81	19	--	936,355		
Cottonwood and aspen	1,136,652	338,057	143,000	77,823	49,885	31,136	18,915	9,886	4,475	2,229	996	274	62	82	20	1,813,492		
Basswood	46,105	22,438	14,923	16,103	13,638	10,478	6,563	3,160	1,419	774	501	78	52	--	--	136,233		
Yellow-poplar	1,329	447	386	246	185	305	365	394	223	118	138	42	14	--	--	4,192		
Black walnut	2,007	2,913	1,154	1,071	878	716	425	102	158	114	133	--	19	73	--	9,763		
Other eastern soft hardwoods	584,839	196,288	98,605	59,482	33,836	19,838	9,028	5,071	2,099	1,005	696	249	36	12	21	1,011,105		
Other eastern hard hardwoods	29,838	3,282	1,874	1,520	666	279	409	116	201	55	--	--	--	--	--	38,239		
Eastern noncommercial hardwoods	691,552	88,531	20,475	5,885	1,404	495	118	130	--	--	12	--	--	--	--	808,602		
All hardwoods	5,308,720	1,605,794	783,469	505,088	331,087	206,439	121,758	68,188	35,655	18,747	15,067	4,336	1,215	621	310	9,006,494		
All species groups	7,990,226	2,671,468	1,382,130	864,739	520,926	300,274	167,252	92,534	48,089	25,768	20,952	5,910	1,880	736	358	14,093,242		

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Table 11. -- Number of growing-stock trees on timberland by species group and diameter class, Michigan 2003-2007

(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															
Loblolly and shortleaf pines	--	16	33	--	--	--	--	--	--	--	--	--	--	49	
Other yellow pines	8,648	7,155	4,281	1,876	440	151	17	--	--	--	--	--	--	22,570	
Eastern white and red pines	94,637	80,580	53,447	31,253	15,450	9,369	4,846	3,064	2,657	801	386	61	16	296,568	
Jack pine	37,066	26,620	13,256	4,823	1,353	401	101	16	--	--	--	--	--	83,637	
Spruce and balsam fir	186,419	80,252	28,322	10,280	4,082	1,510	586	361	87	--	--	--	--	311,900	
Eastern hemlock	13,036	11,459	10,007	7,846	6,281	4,373	2,985	1,603	1,712	319	51	16	--	59,689	
Other eastern softwoods	206,118	125,323	63,643	29,743	13,452	6,081	2,452	1,069	606	167	78	38	--	448,771	
All softwoods	545,925	331,408	172,990	85,821	41,058	21,885	10,988	6,113	5,062	1,288	515	115	16	1,223,184	
Hardwood species groups															
Eastern hardwood species groups															
Select white oaks	15,582	12,018	9,410	6,606	4,230	2,506	2,175	1,111	997	425	94	23	57	55,233	
Select red oaks	20,524	14,993	15,837	13,464	8,515	7,041	3,779	2,251	1,452	345	113	52	--	88,367	
Other white oaks	--	13	--	--	--	--	--	--	--	--	--	--	--	13	
Other red oaks	12,460	11,096	9,505	6,500	5,827	3,457	2,124	1,533	1,236	459	123	14	37	54,370	
Hickory	5,148	3,915	2,226	1,833	1,205	807	292	267	140	18	--	--	--	15,851	
Yellow birch	15,646	12,054	8,074	4,451	2,908	1,745	1,175	390	434	136	52	--	17	47,082	
Hard maple	140,793	106,641	71,294	44,053	24,331	11,887	6,160	2,472	2,024	309	32	60	--	410,055	
Soft maple	161,922	108,075	69,748	36,862	20,306	10,710	4,902	2,857	2,251	391	172	33	27	418,255	
Beech	12,190	7,618	5,242	3,524	2,337	1,626	1,080	484	557	52	12	--	--	34,723	
Tupelo and blackgum	462	456	148	46	58	14	25	--	--	--	--	--	--	1,210	
Ash	73,581	38,171	21,734	11,426	7,383	3,759	1,621	985	681	163	81	--	--	159,584	
Cottonwood and aspen	138,262	74,522	47,366	28,242	17,400	8,728	3,949	1,897	887	249	43	82	--	321,630	
Basswood	13,354	15,002	12,657	10,025	6,082	2,996	1,238	688	439	54	36	--	--	62,571	
Yellow-poplar	349	246	185	270	365	369	209	104	138	42	14	--	--	2,291	
Black walnut	1,003	996	776	522	351	63	158	80	107	--	19	73	--	4,147	
Other eastern soft hardwoods	77,949	48,830	27,652	15,490	7,249	3,761	1,597	782	542	154	36	12	--	184,055	
Other eastern hard hardwoods	988	880	398	139	197	95	166	55	--	--	--	--	--	2,918	
All hardwoods	690,212	455,526	302,255	183,454	108,745	59,564	30,649	15,956	11,886	2,797	827	349	137	1,862,355	
All species groups	1,236,137	786,933	475,244	269,275	149,803	81,449	41,637	22,069	16,948	4,085	1,342	464	153	3,085,539	

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 2003-2007

(In million cubic feet)

Owner class	Unreserved forests			Reserved forests			All forest land
	Timberland	Unproductive	Total	Productive	Unproductive	Total	
Forest Service							
National forest	4,555.9	42.4	4,598.3	243.9	--	243.9	4,842.2
Other national forest	10.5	--	10.5	--	--	--	10.5
Other Federal							
National Park Service	150.3	--	150.3	257.7	5.2	262.8	413.1
Fish and Wildlife Service	28.3	--	28.3	2.9	--	2.9	31.2
Department of Defense or Energy	16.6	--	16.6	--	--	--	16.6
Other Federal	43.4	--	43.4	--	--	--	43.4
State and local government							
State	5,706.7	6.9	5,713.6	280.6	--	280.6	5,994.1
Local (county, municipal, etc.)	545.3	8.2	553.6	0.7	--	0.7	554.3
Other non-Federal lands	8.7	--	8.7	--	--	--	8.7
Private							
Undifferentiated private	19,372.4	96.6	19,469.0	--	--	--	19,469.0
All owners	30,438.1	154.2	30,592.2	785.7	5.2	790.8	31,383.0

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 13. -- Net volume of all live trees on forest land by forest type group and stand-size class, Michigan 2003-2007

(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	2,811.4	921.2	41.5	--	--	3,774.1
Spruce / fir group	1,610.6	1,949.0	234.1	--	--	3,793.6
Pinyon / juniper group	--	0.9	0.1	--	--	1.0
Douglas-fir group	2.6	5.3	--	--	--	7.9
Fir / spruce / mountain hemlock group	6.4	1.6	1.0	--	--	8.9
Exotic softwoods group	159.8	99.4	4.5	--	--	263.7
Oak / pine group	429.8	286.2	27.6	--	--	743.6
Oak / hickory group	3,542.4	916.0	84.7	--	--	4,543.1
Oak / gum / cypress group	60.3	35.8	1.4	--	--	97.5
Elm / ash / cottonwood group	1,288.3	699.2	98.7	--	--	2,086.2
Maple / beech / birch group	8,227.3	4,098.3	157.5	--	--	12,483.1
Aspen / birch group	1,359.0	1,909.4	301.6	--	--	3,570.1
Exotic hardwoods group	--	2.7	--	--	--	2.7
Nonstocked	--	--	--	--	7.5	7.5
All forest type groups	19,497.9	10,924.9	952.8	--	7.5	31,383.0

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 14. -- Net volume of all live trees on forest land by species group and ownership group, Michigan 2003-2007

(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						
Loblolly and shortleaf pines	--	--	--	0.5	0.5	
Other yellow pines	2.1	--	1.3	168.9	172.3	
Eastern white and red pines	969.7	16.9	1,029.7	1,430.0	3,446.4	
Jack pine	153.5	13.2	192.0	139.2	497.8	
Spruce and balsam fir	366.6	50.2	394.1	938.4	1,749.4	
Eastern hemlock	204.4	7.4	173.9	560.9	946.6	
Other eastern softwoods	441.7	78.3	820.4	1,752.9	3,093.3	
All softwoods	2,138.0	166.0	2,611.4	4,990.8	9,906.3	
Hardwood species groups						
Eastern hardwood species groups						
Select white oaks	94.9	4.5	162.3	573.9	835.7	
Select red oaks	154.5	27.4	333.5	986.2	1,501.5	
Other white oaks	--	--	--	0.1	0.1	
Other red oaks	131.1	4.1	181.7	591.1	908.1	
Hickory	--	1.4	23.6	190.8	215.8	
Yellow birch	128.1	33.5	101.5	385.3	648.3	
Hard maple	697.2	69.2	761.8	3,089.8	4,618.0	
Soft maple	578.1	34.0	775.5	3,025.9	4,413.5	
Beech	72.2	36.2	95.6	332.7	536.7	
Tupelo and blackgum	--	--	0.7	8.8	9.5	
Ash	101.5	6.1	214.4	1,149.0	1,470.9	
Cottonwood and aspen	452.8	55.7	731.9	1,954.5	3,194.9	
Basswood	110.5	7.5	186.6	588.1	892.7	
Yellow-poplar	--	--	6.1	66.9	73.0	
Black walnut	--	--	5.5	80.7	86.2	
Other eastern soft hardwoods	187.8	57.2	351.3	1,346.0	1,942.2	
Other eastern hard hardwoods	--	--	1.8	39.2	41.0	
Eastern noncommercial hardwoods	5.9	1.4	12.0	69.2	88.5	
All hardwoods	2,714.7	338.2	3,945.7	14,478.1	21,476.7	
All species groups	4,852.7	504.3	6,557.1	19,469.0	31,383.0	

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 15. -- Net volume of all live trees on forest land by species group and diameter class, Michigan 2003-2007

(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															
Loblolly and shortleaf pines	--	0	0	--	--	--	--	--	--	--	--	--	--	1	
Other yellow pines	25	45	48	33	13	6	3	--	--	--	--	--	--	172	
Eastern white and red pines	256	477	559	523	385	329	237	200	242	122	86	18	13	3,446	
Jack pine	97	144	128	76	32	13	6	2	--	--	--	--	--	498	
Spruce and balsam fir	509	493	317	186	119	62	28	25	10	--	--	--	--	1,749	
Eastern hemlock	24	52	85	108	134	131	129	92	128	40	17	3	4	947	
Other eastern softwoods	536	701	640	469	312	198	100	57	49	16	8	6	--	3,093	
All softwoods	1,446	1,912	1,778	1,395	993	739	503	377	430	178	111	27	17	9,906	
Hardwood species groups															
Eastern hardwood species groups															
Select white oaks	39	66	92	104	100	82	93	64	77	55	19	17	29	836	
Select red oaks	52	86	161	221	209	242	173	135	137	54	19	13	--	1,502	
Other white oaks	--	0	--	--	--	--	--	--	--	--	--	--	--	0	
Other red oaks	33	66	94	105	133	115	87	84	87	56	22	12	16	908	
Hickory	12	23	24	32	33	33	15	20	15	3	--	7	--	216	
Yellow birch	47	79	93	88	81	70	66	31	50	22	13	--	8	648	
Hard maple	418	700	826	808	651	441	309	165	197	66	18	19	--	4,618	
Soft maple	470	698	802	699	542	397	257	189	211	76	37	14	21	4,413	
Beech	38	52	65	73	69	68	58	38	55	19	2	--	--	537	
Tupelo and blackgum	1	3	1	1	1	0	1	--	--	--	--	--	--	9	
Ash	202	240	245	208	195	137	82	60	63	24	13	1	--	1,471	
Cottonwood and aspen	385	473	541	530	474	337	197	124	76	29	7	16	5	3,195	
Basswood	41	99	149	179	162	105	63	42	37	8	8	--	--	893	
Yellow-poplar	1	2	2	6	11	14	11	7	12	5	2	--	--	73	
Black walnut	4	7	10	13	11	3	8	6	10	--	2	12	--	86	
Other eastern soft hardwoods	262	354	360	333	220	168	92	56	52	27	5	2	12	1,942	
Other eastern hard hardwoods	4	7	6	3	7	3	7	3	--	--	--	--	--	41	
Eastern noncommercial hardwoods	40	26	11	6	2	3	--	--	1	--	--	--	--	89	
All hardwoods	2,050	2,978	3,481	3,409	2,899	2,220	1,521	1,023	1,079	443	167	115	91	21,477	
All species groups	3,496	4,890	5,260	4,804	3,892	2,960	2,024	1,399	1,509	621	278	142	107	31,383	

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 2003-2007

(In million cubic feet)

Forest type group	Stand origin		All forest land
	Natural stands	Artificial regeneration	
White / red / jack pine group	2,073.9	1,700.1	3,774.1
Spruce / fir group	3,720.0	73.6	3,793.6
Pinyon / juniper group	1.0	--	1.0
Douglas-fir group	--	7.9	7.9
Fir / spruce / mountain hemlock group	--	8.9	8.9
Exotic softwoods group	49.5	214.2	263.7
Oak / pine group	645.6	98.0	743.6
Oak / hickory group	4,493.3	49.8	4,543.1
Oak / gum / cypress group	97.5	--	97.5
Elm / ash / cottonwood group	2,084.8	1.3	2,086.2
Maple / beech / birch group	12,444.3	38.8	12,483.1
Aspen / birch group	3,543.9	26.2	3,570.1
Exotic hardwoods group	2.7	--	2.7
Nonstocked	7.2	0.3	7.5
All forest type groups	29,163.9	2,219.1	31,383.0

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 17. -- Net volume of growing-stock trees on timberland by species group and diameter class, Michigan 2003-2007

(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															
Loblolly and shortleaf pines	--	0	0	--	--	--	--	--	--	--	--	--	--	0	
Other yellow pines	20	39	42	30	11	5	1	--	--	--	--	--	--	148	
Eastern white and red pines	243	463	545	511	374	322	226	190	228	108	72	18	6	3,309	
Jack pine	85	137	123	73	31	13	4	1	--	--	--	--	--	466	
Spruce and balsam fir	486	469	298	176	106	54	28	22	7	--	--	--	--	1,646	
Eastern hemlock	21	45	75	97	118	116	108	74	107	28	6	3	--	799	
Other eastern softwoods	485	635	568	413	273	168	88	49	37	14	8	6	--	2,746	
All softwoods	1,340	1,788	1,652	1,300	913	679	456	337	378	151	87	27	6	9,115	
Hardwood species groups															
Eastern hardwood species groups															
Select white oaks	37	61	86	98	91	75	87	58	69	46	13	5	19	746	
Select red oaks	48	80	155	210	193	228	166	127	110	39	17	11	--	1,383	
Other white oaks	--	0	--	--	--	--	--	--	--	--	--	--	--	0	
Other red oaks	28	58	86	95	122	100	81	76	82	47	17	3	11	804	
Hickory	11	22	23	32	30	29	14	18	12	3	--	--	--	194	
Yellow birch	40	68	79	69	64	53	44	19	28	13	7	--	4	488	
Hard maple	393	661	784	760	605	404	270	139	148	34	5	13	--	4,216	
Soft maple	435	651	747	622	492	358	220	161	171	44	27	7	10	3,945	
Beech	34	47	57	60	57	52	46	28	40	5	2	--	--	429	
Tupelo and blackgum	1	3	1	1	1	0	1	--	--	--	--	--	--	9	
Ash	186	223	232	193	181	129	74	59	58	19	13	--	--	1,368	
Cottonwood and aspen	376	458	520	493	444	309	181	110	71	27	6	16	--	3,011	
Basswood	37	93	140	173	152	101	56	39	32	5	5	--	--	833	
Yellow-poplar	1	2	2	5	11	14	10	7	12	5	2	--	--	70	
Black walnut	3	7	9	10	9	2	8	4	8	--	2	12	--	74	
Other eastern soft hardwoods	212	297	301	267	183	131	75	44	42	18	5	2	--	1,580	
Other eastern hard hardwoods	2	5	4	2	4	3	6	3	--	--	--	--	--	29	
All hardwoods	1,845	2,735	3,226	3,089	2,639	1,989	1,341	892	884	305	123	69	43	19,179	
All species groups	3,185	4,523	4,878	4,389	3,552	2,668	1,797	1,229	1,263	456	209	96	50	28,294	

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 2003-2007

(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							
Loblolly and shortleaf pines	--	--	--	0.4	0.4		
Other yellow pines	0.6	--	1.2	146.7	148.4		
Eastern white and red pines	925.7	16.7	1,001.0	1,366.0	3,309.4		
Jack pine	147.2	10.1	178.2	130.5	466.0		
Spruce and balsam fir	333.9	11.5	384.6	915.8	1,645.8		
Eastern hemlock	163.4	6.9	98.4	530.4	799.1		
Other eastern softwoods	371.8	16.8	748.2	1,608.9	2,745.7		
All softwoods	1,942.5	62.0	2,411.6	4,698.7	9,114.9		
Hardwood species groups							
Eastern hardwood species groups							
Select white oaks	85.7	4.4	140.7	515.5	746.3		
Select red oaks	143.5	17.1	293.5	928.8	1,383.0		
Other white oaks	--	--	--	0.1	0.1		
Other red oaks	118.1	3.7	161.2	521.4	804.4		
Hickory	--	1.4	20.3	171.9	193.6		
Yellow birch	88.5	5.5	66.1	327.8	487.9		
Hard maple	615.2	38.4	640.9	2,921.7	4,216.2		
Soft maple	509.1	28.0	685.4	2,722.6	3,945.0		
Beech	54.1	22.1	77.2	275.9	429.2		
Tupelo and blackgum	--	--	0.7	8.1	8.8		
Ash	94.5	2.0	197.1	1,074.5	1,368.1		
Cottonwood and aspen	420.0	18.2	694.8	1,877.9	3,010.9		
Basswood	106.0	2.5	164.9	559.5	833.0		
Yellow-poplar	--	--	5.0	65.3	70.2		
Black walnut	--	--	5.5	68.8	74.4		
Other eastern soft hardwoods	158.8	16.1	293.1	1,111.6	1,579.6		
Other eastern hard hardwoods	--	--	1.4	27.1	28.5		
All hardwoods	2,393.5	159.2	3,448.0	13,178.4	19,179.1		
All species groups	4,336.1	221.2	5,859.6	17,877.1	28,294.0		

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 19. -- Net volume of sawtimber trees (International 1/4-inch rule) on timberland by species group and diameter class, Michigan 2003-2007

(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													
Loblolly and shortleaf pines	2	--	--	--	--	--	--	--	--	--	--	2	
Other yellow pines	197	149	55	28	4	--	--	--	--	--	--	433	
Eastern white and red pines	2,686	2,566	1,931	1,709	1,225	1,051	1,291	634	427	112	39	13,672	
Jack pine	586	359	157	69	25	5	--	--	--	--	--	1,200	
Spruce and balsam fir	1,488	909	569	299	161	128	41	--	--	--	--	3,595	
Eastern hemlock	363	468	590	603	581	410	607	167	39	17	--	3,844	
Other eastern softwoods	2,835	2,093	1,423	900	482	277	212	84	50	36	--	8,392	
All softwoods	8,158	6,543	4,724	3,608	2,478	1,872	2,151	884	517	164	39	31,138	
Hardwood species groups													
Eastern hardwood species groups													
Select white oaks	--	400	394	341	410	279	344	238	66	28	105	2,606	
Select red oaks	--	851	842	1,040	780	614	547	202	92	59	--	5,028	
Other red oaks	--	388	536	461	387	368	411	242	91	14	62	2,961	
Hickory	--	115	120	127	63	85	57	14	--	--	--	581	
Yellow birch	--	302	301	257	223	97	146	71	41	--	21	1,458	
Hard maple	--	3,149	2,708	1,889	1,303	689	753	175	25	73	--	10,763	
Soft maple	--	2,530	2,165	1,652	1,047	785	858	227	143	37	53	9,497	
Beech	--	266	269	258	235	145	215	29	10	--	--	1,428	
Tupelo and blackgum	--	3	6	2	6	--	--	--	--	--	--	16	
Ash	--	797	805	597	353	289	293	100	69	--	--	3,303	
Cottonwood and aspen	--	2,091	2,012	1,455	875	541	359	137	34	87	--	7,591	
Basswood	--	728	688	474	272	193	161	26	28	--	--	2,569	
Yellow-poplar	--	23	48	64	51	33	64	26	10	--	--	319	
Black walnut	--	43	41	11	37	22	40	--	13	63	--	271	
Other eastern soft hardwoods	--	1,090	804	601	352	216	211	95	29	11	--	3,409	
Other eastern hard hardwoods	--	8	18	12	29	14	--	--	--	--	--	81	
All hardwoods	--	12,785	11,758	9,239	6,424	4,368	4,458	1,583	652	372	243	51,884	
All species groups	8,158	19,328	16,482	12,847	8,902	6,240	6,609	2,467	1,169	537	282	83,022	

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 2003-2007

(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													
Loblolly and shortleaf pines	1	--	--	--	--	--	--	--	--	--	--	1	
Other yellow pines	68	71	33	19	3	--	--	--	--	--	--	195	
Eastern white and red pines	928	1,227	1,157	1,181	941	901	1,146	608	473	124	44	8,730	
Jack pine	203	171	94	48	19	4	--	--	--	--	--	539	
Spruce and balsam fir	514	434	341	207	124	110	36	--	--	--	--	1,766	
Eastern hemlock	126	224	353	416	447	351	538	160	43	18	--	2,676	
Other eastern softwoods	979	1,001	852	622	371	237	188	80	56	40	--	4,426	
All softwoods	2,819	3,128	2,830	2,492	1,904	1,605	1,908	848	572	182	44	18,331	
Hardwood species groups													
Eastern hardwood species groups													
Select white oaks	--	167	202	200	269	200	277	220	75	32	120	1,763	
Select red oaks	--	355	431	612	513	441	439	183	105	67	--	3,145	
Other red oaks	--	162	275	271	254	264	329	219	103	16	71	1,965	
Hickory	--	48	62	75	42	61	44	13	--	--	--	344	
Yellow birch	--	126	154	151	147	69	116	64	46	--	24	898	
Hard maple	--	1,314	1,386	1,111	856	495	603	158	28	83	--	6,034	
Soft maple	--	1,056	1,108	971	688	564	687	204	162	42	61	5,542	
Beech	--	111	138	152	155	104	174	25	12	--	--	870	
Tupelo and blackgum	--	1	3	1	4	--	--	--	--	--	--	9	
Ash	--	333	412	351	232	207	238	89	79	--	--	1,940	
Cottonwood and aspen	--	872	1,030	856	575	389	290	123	38	99	--	4,271	
Basswood	--	304	352	279	178	138	129	23	32	--	--	1,434	
Yellow-poplar	--	9	25	38	34	24	50	23	11	--	--	214	
Black walnut	--	18	21	7	25	15	32	--	15	72	--	204	
Other eastern soft hardwoods	--	455	411	354	231	155	169	88	33	13	--	1,909	
Other eastern hard hardwoods	--	3	9	7	19	10	--	--	--	--	--	49	
All hardwoods	--	5,334	6,018	5,435	4,220	3,136	3,577	1,433	740	422	275	30,591	
All species groups	2,819	8,462	8,848	7,927	6,124	4,741	5,484	2,282	1,312	604	319	48,922	

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 2003-2007
 (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							
Loblolly and shortleaf pines	--	--	--	0.3	0.3		
Other yellow pines	0.4	--	0.2	74.8	75.4		
Eastern white and red pines	636.7	13.6	739.5	922.8	2,312.7		
Jack pine	62.7	4.4	73.7	65.9	206.6		
Spruce and balsam fir	141.3	6.4	135.8	329.4	612.9		
Eastern hemlock	135.3	5.7	75.3	425.5	641.8		
Other eastern softwoods	207.3	12.5	348.4	828.9	1,397.0		
All softwoods	1,183.6	42.6	1,373.0	2,647.6	5,246.7		
Hardwood species groups							
Eastern hardwood species groups							
Select white oaks	39.4	2.0	73.0	297.4	411.7		
Select red oaks	83.6	10.8	163.2	544.5	802.2		
Other red oaks	63.2	2.0	92.7	311.1	469.0		
Hickory	--	0.4	9.7	82.6	92.7		
Yellow birch	50.9	3.0	29.0	146.1	229.0		
Hard maple	257.0	17.0	257.9	1,169.5	1,701.3		
Soft maple	184.4	10.2	249.1	1,050.7	1,494.4		
Beech	28.1	13.1	40.8	141.0	223.1		
Tupelo and blackgum	--	--	0.3	2.4	2.6		
Ash	31.0	1.2	75.4	423.9	531.5		
Cottonwood and aspen	181.7	9.0	236.6	790.5	1,217.9		
Basswood	53.1	1.2	82.4	274.6	411.3		
Yellow-poplar	--	--	3.8	46.5	50.3		
Black walnut	--	--	2.1	40.1	42.2		
Other eastern soft hardwoods	55.3	4.7	93.6	386.7	540.2		
Other eastern hard hardwoods	--	--	0.1	12.9	13.1		
All hardwoods	1,027.7	74.5	1,409.6	5,720.7	8,232.4		
All species groups	2,211.4	117.1	2,782.5	8,368.2	13,479.2		

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 21. -- Average annual net growth of all live trees by owner class and forest land status, Michigan 2000-2002 to 2005-2007

(In million cubic feet)

Owner class	Unreserved forests			Reserved forests			All forest land
	Timberland	Unproductive	Total	Productive	Unproductive	Total	
Forest Service							
National forest	72.6	0.4	73.1	5.2	0.0	5.3	78.3
Other Federal							
National Park Service	2.5	--	2.5	2.9	0.4	3.3	5.8
Fish and Wildlife Service	1.9	0.1	1.9	--	--	--	1.9
Department of Defense or Energy	-0.2	--	-0.2	--	--	--	-0.2
Other Federal	3.2	--	3.2	--	--	--	3.2
State and local government							
State	117.4	2.7	120.1	-0.3	--	-0.3	119.8
Local (county, municipal, etc.)	7.6	--	7.6	0.4	--	0.4	8.1
Other non-Federal lands	0.8	--	0.8	--	--	--	0.8
Private							
Undifferentiated private	524.5	5.4	529.8	0.4	0.2	0.6	530.4
All owners	730.3	8.6	738.9	8.7	0.6	9.3	748.2

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 22. -- Average annual net growth of all live trees on forest land by forest type group and stand-size class, Michigan 2000-2002 to 2005-2007

(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	46.2	42.9	9.4	--	--	98.5
Spruce / fir group	22.7	36.3	13.6	--	--	72.6
Pinyon / juniper group	--	0.1	--	--	--	0.1
Douglas-fir group	0.2	0.1	--	--	--	0.3
Fir / spruce / mountain hemlock group	--	0.4	0.4	--	--	0.8
Exotic softwoods group	1.3	2.1	0.6	--	--	4.1
Oak / pine group	6.3	8.1	4.5	--	--	18.9
Oak / hickory group	90.0	33.3	8.9	--	--	132.3
Oak / gum / cypress group	2.9	0.9	-0.1	--	--	3.8
Elm / ash / cottonwood group	36.8	30.0	5.0	--	--	71.8
Maple / beech / birch group	120.8	108.6	14.9	--	--	244.3
Aspen / birch group	8.8	58.1	31.6	--	--	98.4
Exotic hardwoods group	0.3	--	--	--	--	0.3
Nonstocked	--	--	--	--	2.1	2.1
All forest type groups	336.4	320.7	88.9	--	2.1	748.2

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 23. -- Average annual net growth of all live trees on forest land by species group and ownership group, Michigan 2000-2002 to 2005-2007

(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							
Loblolly and shortleaf pines	--	--	--	0.1	0.1		
Other yellow pines	--	--	0.5	1.0	1.5		
Eastern white and red pines	29.2	1.1	26.1	60.6	117.1		
Jack pine	0.8	-0.2	5.0	0.4	6.0		
Spruce and balsam fir	6.7	1.9	5.0	25.4	39.0		
Eastern hemlock	2.5	0.2	0.0	8.4	11.1		
Other eastern softwoods	7.5	2.1	11.6	30.6	51.9		
All softwoods	46.7	5.2	48.2	126.5	226.6		
Hardwood species groups							
Eastern hardwood species groups							
Select white oaks	1.4	0.1	2.1	13.6	17.3		
Select red oaks	4.3	0.3	7.7	40.7	53.0		
Other white oaks	--	--	--	0.0	0.0		
Other red oaks	1.1	--	8.4	14.7	24.2		
Hickory	--	--	0.7	5.2	5.9		
Yellow birch	-0.9	0.6	0.0	4.1	3.8		
Hard maple	10.3	0.3	14.6	74.8	100.0		
Soft maple	12.7	1.4	18.0	102.8	134.9		
Beech	2.3	0.1	-0.4	5.0	7.0		
Tupelo and blackgum	--	--	0.0	0.3	0.3		
Ash	1.8	0.0	3.3	35.8	41.0		
Cottonwood and aspen	3.5	3.2	18.8	49.3	74.9		
Basswood	-4.3	0.0	1.7	13.6	11.1		
Yellow-poplar	--	--	0.0	3.2	3.2		
Black walnut	--	--	0.3	5.4	5.7		
Other eastern soft hardwoods	-0.6	-0.7	4.7	31.8	35.3		
Other eastern hard hardwoods	--	--	0.0	1.4	1.3		
Eastern noncommercial hardwoods	0.0	-0.1	0.4	2.3	2.6		
All hardwoods	31.7	5.5	80.5	403.9	521.6		
All species groups	78.3	10.8	128.7	530.4	748.2		

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 24. -- Average annual net growth of growing-stock trees on timberland by species group and ownership group, Michigan 2000-2002 to 2005-2007

(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							
Loblolly and shortleaf pines	--	--	--	0.1	0.1		
Other yellow pines	--	--	0.4	0.7	1.2		
Eastern white and red pines	28.3	6.3	25.5	56.3	116.3		
Jack pine	0.9	0.4	4.0	0.4	5.7		
Spruce and balsam fir	5.3	2.4	6.5	25.7	39.8		
Eastern hemlock	2.3	0.1	3.2	8.7	14.4		
Other eastern softwoods	4.4	1.3	13.1	37.6	56.3		
All softwoods	41.1	10.4	52.7	129.6	233.9		
Hardwood species groups							
Eastern hardwood species groups							
Select white oaks	1.7	0.9	2.6	12.1	17.3		
Select red oaks	3.9	1.1	9.2	36.7	51.0		
Other white oaks	--	--	--	0.0	0.0		
Other red oaks	1.4	--	7.4	13.1	21.9		
Hickory	--	--	0.6	4.6	5.2		
Yellow birch	0.1	0.3	0.7	5.1	6.1		
Hard maple	13.8	-0.1	12.1	69.1	94.8		
Soft maple	11.0	2.0	17.2	95.0	125.2		
Beech	1.9	0.3	-0.4	5.5	7.3		
Tupelo and blackgum	--	--	0.0	0.2	0.2		
Ash	2.7	0.0	3.7	33.7	40.1		
Cottonwood and aspen	6.2	4.6	21.3	50.9	83.0		
Basswood	-3.5	0.0	1.6	13.6	11.7		
Yellow-poplar	--	--	0.0	2.9	2.9		
Black walnut	--	--	0.4	4.2	4.6		
Other eastern soft hardwoods	-0.5	2.8	7.1	20.3	29.7		
Other eastern hard hardwoods	--	--	0.0	0.5	0.4		
Eastern noncommercial hardwoods	--	--	--	0.0	0.0		
All hardwoods	38.7	11.9	83.4	367.6	501.6		
All species groups	79.8	22.4	136.1	497.2	735.5		

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 25. -- Average annual mortality of all live trees by owner class and forest land status, Michigan 2000-2002 to 2005-2007

(In million cubic feet)

Owner class	Unreserved forests			Reserved forests			All forest land
	Timberland	Unproductive	Total	Productive	Unproductive	Total	
Forest Service							
National forest	40.7	0.6	41.3	2.2	--	2.2	43.5
Other Federal							
National Park Service	1.6	--	1.6	1.5	0.1	1.6	3.1
Fish and Wildlife Service	0.3	--	0.3	--	--	--	0.3
Department of Defense or Energy	0.3	--	0.3	--	--	--	0.3
Other Federal	0.3	--	0.3	--	--	--	0.3
State and local government							
State	66.5	0.6	67.1	4.7	--	4.7	71.8
Local (county, municipal, etc.)	9.5	--	9.5	0.2	--	0.2	9.7
Other non-Federal lands	0.4	--	0.4	--	--	--	0.4
Private							
Undifferentiated private	210.5	2.4	212.9	0.0	0.1	0.1	212.9
All owners	330.0	3.6	333.6	8.7	0.1	8.8	342.3

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 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 2000-2002 to 2005-2007

(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	20.6	6.7	0.5	--	--	27.8
Spruce / fir group	22.0	30.2	3.4	--	--	55.6
Douglas-fir group	0.0	--	--	--	--	0.0
Exotic softwoods group	4.1	1.2	0.2	--	--	5.5
Oak / pine group	4.9	1.5	0.5	--	--	6.9
Oak / hickory group	23.6	12.1	1.4	--	--	37.1
Oak / gum / cypress group	1.7	0.3	--	--	--	2.1
Elm / ash / cottonwood group	17.1	14.4	2.8	--	--	34.3
Maple / beech / birch group	56.9	40.9	4.4	--	--	102.2
Aspen / birch group	27.2	36.4	6.8	--	--	70.4
Nonstocked	--	--	--	--	0.4	0.4
All forest type groups	178.2	143.9	19.9	--	0.4	342.3

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 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 2000-2002 to 2005-2007

(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	--	--	--	6.8	6.8		
Eastern white and red pines	2.1	--	5.8	6.3	14.1		
Jack pine	4.5	0.4	2.7	3.9	11.5		
Spruce and balsam fir	8.7	0.4	12.3	25.1	46.5		
Eastern hemlock	0.2	--	4.3	3.5	8.0		
Other eastern softwoods	2.3	0.0	6.2	11.5	20.0		
All softwoods	17.7	0.9	31.3	57.1	106.9		
Hardwood species groups							
Eastern hardwood species groups							
Select white oaks	0.2	--	0.7	3.4	4.3		
Select red oaks	0.3	--	4.0	3.3	7.6		
Other red oaks	1.3	--	0.5	2.6	4.4		
Hickory	--	--	--	1.8	1.8		
Yellow birch	0.9	0.2	1.2	3.6	5.9		
Hard maple	3.1	0.7	3.0	9.4	16.2		
Soft maple	1.5	0.0	4.9	14.0	20.5		
Beech	--	--	1.9	2.7	4.6		
Tupelo and blackgum	--	--	0.0	--	0.0		
Ash	1.1	--	2.6	12.9	16.6		
Cottonwood and aspen	11.2	0.6	20.1	51.8	83.7		
Basswood	1.9	0.0	0.8	3.5	6.2		
Yellow-poplar	--	--	--	0.0	0.0		
Black walnut	--	--	--	0.8	0.8		
Other eastern soft hardwoods	4.2	1.5	10.4	44.0	60.0		
Other eastern hard hardwoods	--	--	0.1	0.4	0.6		
Eastern noncommercial hardwoods	0.2	0.1	0.3	1.6	2.2		
All hardwoods	25.9	3.2	50.6	155.9	235.5		
All species groups	43.5	4.0	81.9	212.9	342.3		

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 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 2000-2002 to 2005-2007

(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	--	--	--	5.9	5.9		
Eastern white and red pines	1.8	--	5.3	5.1	12.2		
Jack pine	3.8	0.2	2.5	3.7	10.3		
Spruce and balsam fir	8.0	0.2	11.6	24.1	43.8		
Eastern hemlock	0.1	--	1.6	3.3	5.1		
Other eastern softwoods	1.6	--	5.5	9.8	16.9		
All softwoods	15.3	0.4	26.5	51.9	94.1		
Hardwood species groups							
Eastern hardwood species groups							
Select white oaks	0.2	--	0.7	3.2	4.0		
Select red oaks	0.3	--	1.5	2.9	4.7		
Other red oaks	0.4	--	0.4	2.0	2.8		
Hickory	--	--	--	1.7	1.7		
Yellow birch	0.5	0.2	0.8	2.0	3.4		
Hard maple	1.3	0.6	2.3	6.5	10.7		
Soft maple	1.2	--	4.0	9.7	14.8		
Beech	--	--	1.8	1.3	3.0		
Tupelo and blackgum	--	--	0.0	--	0.0		
Ash	0.9	--	1.9	11.5	14.4		
Cottonwood and aspen	8.9	0.1	15.6	43.2	67.8		
Basswood	1.7	--	0.7	2.6	5.0		
Black walnut	--	--	--	0.8	0.8		
Other eastern soft hardwoods	3.4	0.6	8.6	36.2	48.8		
Other eastern hard hardwoods	--	--	0.1	0.3	0.4		
Eastern noncommercial hardwoods	--	--	--	0.0	0.0		
All hardwoods	18.8	1.5	38.3	123.9	182.5		
All species groups	34.1	1.9	64.8	175.8	276.7		

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 29. -- Average annual removals of all live trees on forest land by species group and ownership group, Michigan 2000-2002 to 2005-2007

(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	--	--	3.6	4.4	8.0		
Eastern white and red pines	1.1	--	9.1	10.3	20.5		
Jack pine	8.1	--	7.0	2.4	17.5		
Spruce and balsam fir	1.5	--	1.6	18.3	21.4		
Eastern hemlock	--	--	0.2	2.5	2.7		
Other eastern softwoods	0.2	--	3.2	6.7	10.0		
All softwoods	10.9	--	24.6	44.5	80.1		
Hardwood species groups							
Eastern hardwood species groups							
Select white oaks	0.1	--	2.1	4.7	6.9		
Select red oaks	0.1	--	5.1	19.5	24.6		
Other white oaks	--	--	--	0.3	0.3		
Other red oaks	0.6	--	2.8	3.5	6.9		
Hickory	--	--	--	1.2	1.2		
Yellow birch	0.0	--	0.5	4.7	5.2		
Hard maple	1.0	--	11.0	50.5	62.5		
Soft maple	1.0	--	8.7	33.5	43.3		
Beech	0.1	--	0.7	5.3	6.0		
Tupelo and blackgum	--	--	--	0.0	0.0		
Ash	--	--	0.9	9.2	10.1		
Cottonwood and aspen	2.8	--	14.5	52.2	69.6		
Basswood	0.4	--	0.7	4.1	5.3		
Yellow-poplar	--	--	--	0.5	0.5		
Other eastern soft hardwoods	0.8	--	2.2	17.2	20.2		
Other eastern hard hardwoods	--	--	0.1	0.2	0.2		
Eastern noncommercial hardwoods	--	--	0.2	1.2	1.4		
All hardwoods	6.9	--	49.5	207.9	264.3		
All species groups	17.9	--	74.1	252.4	344.4		

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 30. -- Average annual removals of growing-stock trees on timberland by species group and ownership group, Michigan 2000-2002 to 2005-2007

(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	--	--	3.3	4.8	8.1		
Eastern white and red pines	1.1	--	9.4	11.6	22.1		
Jack pine	8.0	--	6.7	2.4	17.1		
Spruce and balsam fir	1.5	1.0	1.6	21.3	25.4		
Eastern hemlock	--	--	2.5	2.8	5.3		
Other eastern softwoods	0.2	2.2	4.7	8.2	15.2		
All softwoods	10.7	3.2	28.2	51.1	93.2		
Hardwood species groups							
Eastern hardwood species groups							
Select white oaks	0.1	--	1.9	3.5	5.6		
Select red oaks	0.1	--	9.0	19.0	28.1		
Other white oaks	--	--	--	0.3	0.3		
Other red oaks	0.5	--	2.4	3.2	6.2		
Hickory	--	--	1.1	1.1	2.3		
Yellow birch	0.2	3.0	0.5	4.0	7.8		
Hard maple	5.7	1.1	14.9	43.9	65.5		
Soft maple	1.5	--	11.3	28.2	40.9		
Beech	3.2	--	4.0	4.2	11.5		
Tupelo and blackgum	--	--	--	0.0	0.0		
Ash	--	--	1.5	8.0	9.4		
Cottonwood and aspen	2.7	--	14.4	49.9	67.0		
Basswood	2.0	--	0.7	3.9	6.7		
Yellow-poplar	--	--	--	0.5	0.5		
Other eastern soft hardwoods	1.2	--	2.2	15.0	18.4		
Other eastern hard hardwoods	--	--	0.0	0.1	0.1		
All hardwoods	17.1	4.1	63.9	185.0	270.2		
All species groups	27.8	7.3	92.1	236.1	363.4		

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 31. -- Aboveground dry weight of all live trees by owner class and forest land status, Michigan 2003-2007

(In thousand dry tons)

Owner class	Unreserved forests			Reserved forests			All forest land
	Timberland	Unproductive	Total	Productive	Unproductive	Total	
Forest Service							
National forest	112,678	1,153	113,831	5,864	--	5,864	119,695
Other national forest	257	--	257	--	--	--	257
Other Federal							
National Park Service	4,014	--	4,014	6,261	125	6,386	10,400
Fish and Wildlife Service	604	--	604	59	--	59	663
Department of Defense or Energy	431	--	431	--	--	--	431
Other Federal	1,221	--	1,221	--	--	--	1,221
State and local government							
State	145,000	265	145,264	7,163	--	7,163	152,427
Local (county, municipal, etc.)	14,898	177	15,074	24	--	24	15,098
Other non-Federal lands	237	--	237	--	--	--	237
Private							
Undifferentiated private	517,833	2,473	520,307	--	--	--	520,307
All owners	797,173	4,067	801,240	19,370	125	19,495	820,735

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 2003-2007

(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																		
Loblolly and shortleaf pines	--	--	--	4	7	--	--	--	--	--	--	--	--	--	--	--	--	11
Other yellow pines	51	279	556	929	966	649	243	115	55	--	--	--	--	--	--	--	--	3,844
Eastern white and red pines	449	1,689	4,621	8,319	9,566	8,863	6,467	5,503	3,974	3,329	2,568	1,447	1,058	980	1,942	60,775		
Jack pine	348	940	1,807	2,583	2,253	1,320	541	230	99	27	--	--	--	--	--	--	10,147	
Spruce and balsam fir	4,711	8,163	9,913	9,101	5,636	3,197	2,002	1,020	459	407	107	44	--	--	--	--	44,761	
Eastern hemlock	108	317	581	1,176	1,862	2,281	2,770	2,640	2,593	1,815	1,601	900	469	311	445	19,868		
Other eastern softwoods	1,300	4,670	9,272	11,453	10,153	7,270	4,699	2,954	1,480	849	475	249	180	49	189	55,241		
All softwoods	6,966	16,058	26,750	33,564	30,442	23,581	16,722	12,462	8,661	6,426	4,751	2,640	1,706	1,340	2,576	194,646		
Hardwood species groups																		
Eastern hardwood species groups																		
Select white oaks	249	708	1,406	2,232	3,015	3,337	3,143	2,530	2,814	1,920	1,276	1,037	581	1,025	1,998	27,271		
Select red oaks	472	1,162	1,741	2,751	4,944	6,612	6,160	7,021	4,935	3,812	2,288	1,548	884	623	906	45,860		
Other white oaks	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--	--	2	
Other red oaks	265	648	1,144	2,151	2,967	3,221	4,004	3,410	2,564	2,415	1,619	872	1,002	570	1,458	28,310		
Hickory	105	232	424	756	765	1,000	1,015	999	452	599	419	47	--	74	235	7,123		
Yellow birch	337	1,026	1,559	2,486	2,843	2,701	2,402	2,062	1,942	867	845	579	426	283	550	20,908		
Hard maple	3,557	7,947	13,494	21,464	24,491	23,420	18,569	12,414	8,592	4,555	3,482	1,976	1,001	817	1,033	146,813		
Soft maple	3,697	7,680	13,487	19,051	21,239	18,168	13,821	9,961	6,381	4,637	3,224	2,040	1,458	447	1,783	127,073		
Beech	620	1,073	1,237	1,604	1,934	2,147	2,005	1,996	1,665	1,080	798	813	296	308	49	17,626		
Tupelo and blackgum	6	12	31	80	36	24	32	11	27	--	--	--	--	--	--	--	259	
Ash	2,123	4,105	5,778	6,613	6,617	5,557	5,153	3,547	2,162	1,539	808	804	390	215	405	45,817		
Cottonwood and aspen	3,462	6,662	8,576	10,069	11,194	10,837	9,492	6,777	3,922	2,467	786	709	347	202	554	76,055		
Basswood	133	408	818	1,874	2,748	3,201	2,860	1,824	1,083	736	403	207	83	47	122	16,547		
Yellow-poplar	5	9	24	38	42	128	219	299	222	145	195	49	97	--	35	1,506		
Black walnut	9	83	105	200	273	351	273	89	185	148	194	38	--	--	328	2,276		
Other eastern soft hardwoods	2,119	4,578	7,202	9,239	9,089	8,230	5,308	3,992	2,152	1,243	742	408	176	367	391	55,238		
Other eastern hard hardwoods	82	55	107	195	146	88	185	72	162	59	--	--	--	--	--	1,150		
Eastern noncommercial hardwoods	1,957	1,719	1,219	746	306	165	49	76	--	--	--	19	--	--	--	6,257		
All hardwoods	19,199	38,105	58,354	81,550	92,651	89,187	74,691	57,079	39,262	26,224	17,080	11,145	6,740	4,978	9,846	626,090		
All species groups	26,166	54,163	85,104	115,114	123,092	112,767	91,413	69,541	47,923	32,650	21,832	13,785	8,446	6,318	12,422	820,735		

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 2003-2007

(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	543.8	0.7	544.6	11.5	--	11.5	556.0
Chippewa	753.4	26.4	779.8	3.1	--	3.1	783.0
Delta	596.6	10.1	606.7	--	--	--	606.7
Luce	516.6	9.1	525.7	2.6	--	2.6	528.4
Mackinac	572.1	12.5	584.5	14.6	--	14.6	599.1
Menominee	531.8	4.0	535.8	--	--	--	535.8
Schoolcraft	548.7	7.2	555.9	8.1	--	8.1	564.0
Total	4,063.1	70.0	4,133.1	39.9	--	39.9	4,173.0
Western Upper Peninsula							
Baraga	502.4	3.7	506.0	8.4	--	8.4	514.4
Dickinson	422.5	--	422.5	--	--	--	422.5
Gogebic	609.4	11.8	621.2	38.2	--	38.2	659.3
Houghton	525.7	--	525.7	17.4	--	17.4	543.1
Iron	665.7	5.9	671.6	--	--	--	671.6
Keweenaw	206.1	9.0	215.1	106.0	5.3	111.2	326.3
Marquette	1,007.4	22.6	1,030.1	14.2	--	14.2	1,044.3
Ontonagon	671.0	19.9	690.8	49.4	--	49.4	740.2
Total	4,610.1	72.8	4,683.0	233.5	5.3	238.8	4,921.8

(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	325.9	3.0	328.9	--	--	--	328.9
Alpena	246.0	5.5	251.5	--	--	--	251.5
Antrim	170.7	--	170.7	--	--	--	170.7
Arenac	115.3	2.7	118.0	--	--	--	118.0
Bay	38.3	--	38.3	--	--	--	38.3
Benzie	143.7	--	143.7	--	--	--	143.7
Charlevoix	163.7	--	163.7	--	--	--	163.7
Cheboygan	349.5	--	349.5	--	--	--	349.5
Clare	219.5	0.1	219.6	--	--	--	219.6
Crawford	288.0	8.2	296.2	--	--	--	296.2
Emmet	203.4	--	203.4	2.6	--	2.6	205.9
Gladwin	194.3	--	194.3	--	--	--	194.3
Grand Traverse	173.6	--	173.6	--	--	--	173.6
Iosco	248.9	8.4	257.3	--	--	--	257.3
Isabella	110.8	--	110.8	--	--	--	110.8
Kalkaska	261.2	--	261.2	--	--	--	261.2
Lake	300.7	--	300.7	--	--	--	300.7
Leelanau	119.8	1.0	120.9	17.1	--	17.1	137.9
Manistee	219.2	3.0	222.2	--	--	--	222.2
Mason	186.9	3.5	190.5	2.8	--	2.8	193.3
Mecosta	161.0	--	161.0	--	--	--	161.0
Midland	177.5	--	177.5	--	--	--	177.5
Missaukee	234.2	1.2	235.4	--	--	--	235.4
Montmorency	291.2	2.8	294.0	--	--	--	294.0
Newaygo	314.6	--	314.6	--	--	--	314.6
Oceana	172.5	1.9	174.3	--	--	--	174.3
Ogemaw	221.9	5.7	227.6	--	--	--	227.6
Osceola	192.2	--	192.2	--	--	--	192.2
Oscoda	310.3	13.2	323.5	--	--	--	323.5
Otsego	237.5	7.1	244.6	--	--	--	244.6
Presque Isle	304.2	8.9	313.1	--	--	--	313.1
Roscommon	264.8	5.2	269.9	--	--	--	269.9
Wexford	272.2	3.1	275.4	--	--	--	275.4
Total	7,233.2	84.7	7,317.9	22.5	--	22.5	7,340.4

(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	171.2	--	171.2	2.8	--	2.8	174.1
Barry	131.0	--	131.0	--	--	--	131.0
Berrien	97.2	--	97.2	2.3	--	2.3	99.5
Branch	68.4	--	68.4	--	--	--	68.4
Calhoun	109.3	--	109.3	--	--	--	109.3
Cass	83.6	--	83.6	--	--	--	83.6
Clinton	50.5	--	50.5	--	--	--	50.5
Eaton	62.2	--	62.2	--	--	--	62.2
Genesee	74.6	2.5	77.1	--	--	--	77.1
Gratiot	41.6	--	41.6	--	--	--	41.6
Hillsdale	83.7	--	83.7	--	--	--	83.7
Huron	57.8	--	57.8	--	--	--	57.8
Ingham	60.9	--	60.9	--	--	--	60.9
Ionia	89.4	--	89.4	--	--	--	89.4
Jackson	110.7	2.8	113.5	--	--	--	113.5
Kalamazoo	112.0	--	112.0	--	--	--	112.0
Kent	152.6	--	152.6	--	--	--	152.6
Lapeer	103.6	--	103.6	--	--	--	103.6
Lenawee	72.4	--	72.4	--	--	--	72.4
Livingston	85.8	--	85.8	--	--	--	85.8
Macomb	43.8	--	43.8	--	--	--	43.8
Monroe	51.1	--	51.1	--	--	--	51.1
Montcalm	165.8	--	165.8	--	--	--	165.8
Muskegon	156.2	--	156.2	--	--	--	156.2
Oakland	131.5	--	131.5	2.6	--	2.6	134.1
Ottawa	92.4	--	92.4	--	--	--	92.4
Saginaw	95.3	--	95.3	--	--	--	95.3
St. Clair	94.6	--	94.6	--	--	--	94.6
St. Joseph	69.1	--	69.1	--	--	--	69.1
Sanilac	83.7	--	83.7	--	--	--	83.7
Shiawassee	49.6	--	49.6	--	--	--	49.6
Tuscola	138.1	--	138.1	--	--	--	138.1
Van Buren	133.8	--	133.8	--	--	--	133.8

(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	101.9	--	101.9	2.8	--	2.8	104.8
Wayne	34.0	--	34.0	--	--	--	34.0
Total	3,259.3	5.2	3,264.5	10.6	--	10.6	3,275.1
All counties	19,165.7	232.8	19,398.5	306.4	5.3	311.7	19,710.2

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 2003-2007

(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	113.5	5.2	18.1	6.2	119.4	--	292.8	0.7	556.0	
Chippewa	204.7	16.9	2.0	--	212.6	1.2	334.1	11.4	783.0	
Delta	222.5	--	--	--	57.6	--	316.5	10.1	606.7	
Luce	--	--	--	--	255.2	6.3	261.5	5.4	528.4	
Mackinac	135.4	15.3	2.3	--	214.4	5.1	219.9	6.6	599.1	
Menominee	--	--	--	--	85.0	--	446.9	4.0	535.8	
Schoolcraft	105.2	8.4	36.4	2.8	194.3	4.1	212.8	--	564.0	
Total	781.3	45.9	58.9	9.0	1,138.4	16.7	2,084.5	38.2	4,173.0	
Western Upper Peninsula										
Baraga	30.0	8.4	13.5	--	71.5	--	387.3	3.7	514.4	
Dickinson	--	--	--	--	198.2	--	224.3	--	422.5	
Gogebic	260.8	25.6	--	--	61.2	20.8	287.3	3.5	659.3	
Houghton	133.7	17.4	--	--	42.8	--	349.2	--	543.1	
Iron	147.5	--	--	--	94.7	--	423.4	5.9	671.6	
Keweenaw	--	--	16.6	111.2	9.5	--	180.0	9.0	326.3	
Marquette	14.6	14.2	2.7	--	262.2	5.5	728.0	17.1	1,044.3	
Ontonagon	247.5	17.2	--	--	13.4	49.4	410.1	2.6	740.2	
Total	834.2	82.9	32.8	111.2	753.6	75.6	2,989.6	41.9	4,921.8	

(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	
Northern Lower Peninsula										
Alcona	107.2	--	--	--	10.0	--	208.6	3.0	328.9	
Alpena	--	--	--	--	51.7	--	194.3	5.5	251.5	
Antrim	--	--	--	--	48.9	--	121.8	--	170.7	
Arenac	--	--	--	--	26.5	2.7	88.8	--	118.0	
Bay	--	--	--	--	2.5	--	35.8	--	38.3	
Benzie	--	--	6.9	--	65.4	--	71.3	--	143.7	
Charlevoix	--	--	--	--	48.0	--	115.7	--	163.7	
Cheboygan	--	--	--	--	169.2	--	180.2	--	349.5	
Clare	--	--	--	--	47.4	--	172.1	0.1	219.6	
Crawford	30.1	5.4	--	--	178.0	2.8	79.8	--	296.2	
Emmet	--	--	--	--	68.0	2.6	135.4	--	205.9	
Gladwin	--	--	--	--	84.4	--	109.8	--	194.3	
Grand Traverse	--	--	--	--	75.3	--	98.3	--	173.6	
Iosco	110.8	5.9	--	--	25.9	2.5	112.2	--	257.3	
Isabella	--	--	--	--	5.1	--	105.6	--	110.8	
Kalkaska	--	--	2.1	--	156.8	--	102.4	--	261.2	
Lake	94.8	--	--	--	62.2	--	143.7	--	300.7	
Leelanau	--	--	20.9	14.5	3.6	2.6	95.3	1.0	137.9	
Manistee	66.3	3.0	--	--	23.5	--	129.4	--	222.2	
Mason	60.5	3.5	--	--	9.3	2.8	117.1	--	193.3	
Mecosta	--	--	--	--	18.3	--	142.6	--	161.0	
Midland	--	--	--	--	46.6	--	130.9	--	177.5	
Missaukee	--	--	--	--	98.1	1.2	136.1	--	235.4	
Montmorency	--	--	--	--	129.6	2.8	161.6	--	294.0	
Newaygo	98.4	--	2.5	--	10.3	--	203.5	--	314.6	
Oceana	38.8	--	--	--	9.6	--	124.0	1.9	174.3	
Ogemaw	19.0	--	4.3	--	72.1	5.7	126.5	--	227.6	
Osceola	--	--	--	--	25.3	--	167.0	--	192.2	
Oscoda	135.3	13.2	--	--	45.9	--	129.0	--	323.5	
Otsego	--	--	--	--	81.4	--	156.1	7.1	244.6	
Presque Isle	--	--	--	--	80.5	2.8	223.7	6.1	313.1	
Roscommon	--	--	--	--	179.5	5.2	85.3	--	269.9	
Wexford	93.5	--	--	--	58.5	2.0	120.2	1.1	275.4	
Total	854.8	31.1	36.7	14.5	2,017.7	35.7	4,324.0	25.8	7,340.4	

(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	--	--	--	--	49.8	2.8	121.4	--	--	174.1
Barry	--	--	--	--	21.4	--	109.6	--	--	131.0
Berrien	--	--	--	--	10.5	2.3	86.7	--	--	99.5
Branch	--	--	--	--	1.9	--	66.5	--	--	68.4
Calhoun	--	--	4.3	--	7.2	--	97.8	--	--	109.3
Cass	--	--	--	--	2.8	--	80.8	--	--	83.6
Clinton	--	--	--	--	1.7	--	48.7	--	--	50.5
Eaton	--	--	--	--	6.2	--	55.9	--	--	62.2
Genesee	--	--	--	--	17.3	--	57.3	2.5	--	77.1
Gratiot	--	--	--	--	3.7	--	37.9	--	--	41.6
Hillsdale	--	--	--	--	2.8	--	80.8	--	--	83.7
Huron	--	--	--	--	9.0	--	48.8	--	--	57.8
Ingham	--	--	--	--	9.1	--	51.7	--	--	60.9
Ionia	--	--	--	--	11.0	--	78.4	--	--	89.4
Jackson	--	--	--	--	16.2	--	94.5	2.8	--	113.5
Kalamazoo	--	--	--	--	8.2	--	103.8	--	--	112.0
Kent	--	--	--	--	31.0	--	121.6	--	--	152.6
Lapeer	--	--	--	--	16.0	--	87.5	--	--	103.6
Lenawee	--	--	--	--	6.8	--	65.7	--	--	72.4
Livingston	--	--	--	--	5.6	--	80.2	--	--	85.8
Macomb	--	--	--	--	15.7	--	28.0	--	--	43.8
Monroe	--	--	--	--	1.9	--	49.2	--	--	51.1
Montcalm	--	--	2.5	--	34.4	--	128.9	--	--	165.8
Muskegon	13.6	--	--	--	32.1	--	110.5	--	--	156.2
Oakland	--	--	--	--	26.4	2.6	105.0	--	--	134.1
Ottawa	--	--	--	--	7.8	--	84.6	--	--	92.4
Saginaw	--	--	--	--	13.5	--	81.9	--	--	95.3
St. Clair	--	--	--	--	9.7	--	84.9	--	--	94.6
St. Joseph	--	--	--	--	5.7	--	63.4	--	--	69.1
Sanilac	--	--	--	--	9.1	--	74.6	--	--	83.7
Shiawassee	--	--	--	--	4.5	--	45.1	--	--	49.6
Tuscola	--	--	--	--	28.7	--	109.4	--	--	138.1
Van Buren	--	--	--	--	6.8	--	127.0	--	--	133.8

(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	--	--	--	--	23.3	2.8	78.6	--	104.8
Wayne	--	--	--	--	15.9	--	18.2	--	34.0
Total	13.6	--	6.8	--	473.9	10.6	2,764.9	5.2	3,275.1
All counties	2,483.9	159.8	135.2	134.8	4,383.6	138.7	12,163.0	111.1	19,710.2

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 2003-2007

(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	74.6	75.3	--	--	--	--	8.0	--	1.9	22.6	350.1	21.0	--	2.4	556.0
Chippewa	127.5	234.4	--	--	--	2.1	8.4	10.3	--	35.6	178.7	166.0	--	20.1	783.0
Delta	79.4	203.9	--	--	--	--	7.8	5.8	--	28.0	134.8	144.0	--	3.1	606.7
Luce	98.3	167.2	--	--	--	3.1	19.2	--	3.1	6.7	196.3	31.7	--	2.6	528.4
Mackinac	43.8	225.6	--	--	--	--	3.1	1.1	--	11.2	162.6	146.6	--	5.1	599.1
Menominee	15.7	192.3	--	--	--	10.2	2.8	15.3	--	45.7	149.0	104.2	--	0.8	535.8
Schoolcraft	126.7	155.5	--	--	--	--	10.6	4.4	--	25.4	135.9	100.3	--	5.3	564.0
Total	565.9	1,254.2	--	--	--	15.3	59.8	36.9	5.0	175.3	1,307.3	713.8	--	39.4	4,173.0
Western Upper Peninsula															
Baraga	34.9	91.3	--	--	--	--	9.5	4.1	--	27.5	296.8	50.2	--	--	514.4
Dickinson	13.7	132.5	--	--	1.6	--	5.7	3.1	--	7.9	132.3	124.6	--	1.1	422.5
Gogebic	35.6	92.8	--	--	--	2.2	--	5.4	--	31.9	409.6	79.7	--	2.2	659.3
Houghton	35.3	51.7	--	--	--	--	5.6	11.5	--	6.2	378.7	54.3	--	--	543.1
Iron	29.2	134.2	--	--	--	--	12.2	4.0	--	5.5	323.7	159.8	--	2.8	671.6
Keweenaw	8.6	81.0	--	--	--	--	2.6	7.4	--	4.7	146.9	74.6	--	0.7	326.3
Marquette	125.4	214.3	--	--	--	0.8	18.2	17.0	--	27.7	471.9	165.6	--	3.3	1,044.3
Ontonagon	30.2	41.5	--	--	--	--	3.4	2.0	--	31.4	446.4	182.6	--	2.6	740.2
Total	312.9	839.4	--	--	1.6	2.9	57.3	54.4	--	142.7	2,606.4	891.4	--	12.7	4,921.8

(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	40.4	23.5	--	--	--	3.5	10.3	60.4	--	9.8	89.7	90.5	--	0.8	328.9
Alpena	14.3	45.8	--	--	--	3.3	5.5	12.7	--	33.5	53.2	82.4	--	0.8	251.5
Antrim	14.7	5.3	--	--	--	4.3	2.5	--	--	10.7	109.2	23.2	--	0.8	170.7
Arenac	4.2	--	--	--	1.3	--	10.9	26.0	--	21.2	32.0	22.4	--	--	118.0
Bay	--	--	--	--	--	--	--	19.1	--	4.1	2.6	12.5	--	--	38.3
Benzie	13.7	3.5	--	--	--	5.1	3.5	1.5	--	5.1	101.3	7.3	--	2.7	143.7
Charlevoix	12.5	25.5	--	--	--	--	2.0	2.6	--	9.3	93.6	17.5	--	0.8	163.7
Cheboygan	37.2	49.8	--	--	--	7.6	21.1	24.9	--	14.6	88.9	102.5	--	2.8	349.5
Clare	27.8	9.2	--	--	2.6	--	9.5	66.6	--	29.1	27.0	47.1	--	0.7	219.6
Crawford	97.8	23.7	--	--	--	--	33.2	77.0	--	--	19.9	44.6	--	--	296.2
Emmet	4.3	21.1	--	2.8	--	7.2	3.8	2.6	--	11.9	99.0	52.0	--	1.4	205.9
Gladwin	9.7	2.0	--	--	--	--	7.1	38.8	--	28.1	38.4	69.3	--	0.8	194.3
Grand Traverse	22.2	12.6	--	--	--	1.6	15.4	39.4	2.5	11.4	52.9	14.7	--	0.8	173.6
Iosco	103.4	12.1	--	--	--	1.1	24.3	32.7	--	17.8	37.4	27.5	--	1.1	257.3
Isabella	7.0	2.9	--	--	--	2.9	1.8	19.0	--	17.8	30.2	26.5	--	2.6	110.8
Kalkaska	66.4	19.1	--	--	--	1.4	18.8	25.6	--	5.4	94.7	28.5	--	1.2	261.2
Lake	79.8	9.4	--	--	2.1	7.0	27.8	102.8	--	12.6	20.0	39.3	--	--	300.7
Leelanau	8.5	10.4	--	--	2.7	0.5	1.7	10.5	--	9.4	87.0	2.6	--	4.7	137.9
Manistee	27.7	3.5	--	--	2.8	1.5	14.0	65.7	--	10.4	67.2	24.1	--	5.2	222.2
Mason	45.6	2.5	--	--	2.1	4.5	18.4	53.9	2.5	21.5	13.3	23.9	--	5.0	193.3
Mecosta	20.6	2.1	--	--	--	--	5.8	40.8	3.6	5.1	48.8	34.3	--	--	161.0
Midland	3.2	--	--	--	--	1.3	4.8	64.5	6.4	17.5	40.1	38.9	--	0.9	177.5
Missaukee	33.0	22.0	--	--	--	10.7	6.6	29.8	--	14.3	55.0	62.8	--	1.2	235.4
Montmorency	40.6	29.9	--	--	--	--	26.5	46.7	--	8.1	72.4	69.9	--	--	294.0
Newaygo	50.0	1.4	--	--	--	5.6	16.6	134.4	--	23.1	49.2	33.5	--	0.7	314.6
Oceana	20.5	4.0	--	--	--	6.6	13.7	48.2	--	22.1	43.6	15.8	--	--	174.3
Ogemaw	38.4	14.9	--	--	--	0.6	11.3	37.3	--	29.5	33.3	59.7	--	2.6	227.6
Osceola	13.3	--	--	--	--	11.2	2.4	24.3	--	10.8	51.2	79.1	--	--	192.2
Oscoda	98.2	18.0	--	--	--	--	35.5	59.2	--	3.7	25.5	83.3	--	--	323.5
Otsego	38.3	15.8	--	--	--	3.1	21.3	10.5	--	--	117.6	36.6	--	1.4	244.6
Presque Isle	20.7	70.1	--	--	--	--	7.7	23.0	--	16.5	67.7	106.1	--	1.2	313.1
Roscommon	31.8	28.3	--	--	--	--	23.5	84.7	--	14.4	34.4	48.0	--	4.8	269.9
Wexford	47.0	20.3	--	--	--	19.6	13.2	18.3	--	11.6	103.8	39.4	--	2.0	275.4
Total	1,092.8	508.6	--	2.8	13.7	110.3	420.5	1,303.8	15.0	460.3	1,900.0	1,465.6	--	47.0	7,340.4

(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	5.2	--	--	--	--	5.9	0.5	103.4	--	23.4	32.2	2.8	0.7	--	174.1
Barry	--	4.8	--	2.3	--	3.5	2.6	51.3	--	36.5	25.4	3.3	--	1.2	131.0
Berrien	--	--	--	--	--	3.5	--	38.7	6.4	6.8	43.0	--	--	1.2	99.5
Branch	--	--	--	--	--	--	--	28.1	--	27.7	12.6	--	--	--	68.4
Calhoun	--	--	--	--	--	--	--	39.3	--	42.6	25.7	1.7	--	--	109.3
Cass	3.1	--	--	--	--	1.2	--	32.6	--	26.0	20.8	--	--	--	83.6
Clinton	--	--	--	--	--	--	--	19.9	--	8.2	22.4	--	--	--	50.5
Eaton	--	--	--	--	--	0.3	--	25.0	3.8	10.2	22.8	--	--	--	62.2
Genesee	--	--	--	--	--	--	--	31.4	--	18.4	24.3	2.9	--	--	77.1
Gratiot	5.4	--	--	--	--	--	--	2.4	--	10.3	21.2	2.3	--	--	41.6
Hillsdale	1.3	--	--	--	--	1.6	--	34.9	--	22.4	23.5	--	--	--	83.7
Huron	--	--	--	--	--	--	--	5.8	--	6.4	32.9	12.6	--	--	57.8
Ingham	--	--	--	--	--	2.0	--	18.6	--	16.7	23.5	--	--	--	60.9
Ionia	2.7	--	--	--	--	2.4	3.5	25.1	--	21.4	30.8	2.4	--	1.3	89.4
Jackson	2.8	3.0	1.7	--	--	2.7	--	66.1	--	16.6	16.5	4.1	--	--	113.5
Kalamazoo	3.0	--	--	--	--	3.2	0.8	47.3	--	22.3	33.7	--	--	1.8	112.0
Kent	5.5	--	--	--	--	6.6	6.0	66.8	1.7	24.3	30.3	10.1	0.7	0.7	152.6
Lapeer	6.6	1.9	--	--	--	--	5.2	34.9	2.3	29.8	19.5	1.8	--	1.6	103.6
Lenawee	--	--	--	--	--	--	1.6	34.0	--	20.2	16.6	--	--	--	72.4
Livingston	--	--	--	--	1.4	--	--	43.6	--	20.2	16.1	0.4	--	4.1	85.8
Macomb	--	--	--	--	--	--	--	7.4	--	9.0	27.3	--	--	--	43.8
Monroe	--	--	--	--	--	--	1.9	26.5	--	19.5	3.1	--	--	--	51.1
Montcalm	8.2	1.5	--	--	--	7.0	6.2	72.3	--	23.7	31.2	15.7	--	--	165.8
Muskegon	14.0	0.5	--	--	--	3.3	10.5	88.1	--	14.6	18.4	6.2	--	0.6	156.2
Oakland	0.8	--	--	--	--	--	1.8	60.3	2.3	24.3	36.5	2.3	--	5.8	134.1
Ottawa	10.9	--	--	--	--	1.3	6.8	20.5	3.8	16.5	26.5	5.5	--	0.7	92.4
Saginaw	3.7	--	0.8	--	--	1.1	--	67.1	--	10.5	10.3	1.3	--	0.5	95.3
St. Clair	0.6	1.0	--	--	--	--	--	28.9	2.9	17.9	39.7	3.6	--	--	94.6
St. Joseph	3.0	--	--	--	--	--	--	25.7	--	16.1	14.1	2.0	2.7	5.5	69.1
Sanilac	3.2	--	--	--	--	--	--	19.0	--	24.7	21.5	14.6	--	0.7	83.7
Shiawassee	--	--	--	--	--	--	--	14.0	1.6	13.0	18.9	--	--	2.1	49.6
Tuscola	1.8	0.5	--	--	--	9.6	1.8	28.6	--	31.3	35.2	28.7	--	0.6	138.1
Van Buren	1.0	0.7	--	--	--	1.6	5.9	54.7	2.8	11.0	48.7	4.1	--	3.5	133.8
Washtenaw	3.3	--	--	--	--	0.2	--	59.0	--	10.6	29.7	1.2	--	0.8	104.8
Wayne	--	--	--	--	--	--	--	19.0	--	9.2	4.2	--	--	1.6	34.0
Total	86.1	13.9	2.5	2.3	1.4	56.9	55.1	1,340.1	27.5	662.3	859.2	129.6	4.1	34.0	3,275.1
All counties	2,057.7	2,616.2	2.5	5.1	16.7	185.4	592.6	2,735.2	47.6	1,440.5	6,672.8	3,200.5	4.1	133.1	19,710.2

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 2003-2007

(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	298.7	171.5	71.2	--	2.4	543.8
Chippewa	249.1	296.4	192.0	--	16.0	753.4
Delta	200.0	218.8	174.8	--	3.1	596.6
Luce	220.9	186.3	106.8	--	2.6	516.6
Mackinac	226.1	239.5	101.4	--	5.1	572.1
Menominee	136.7	267.4	126.9	--	0.8	531.8
Schoolcraft	197.0	166.4	180.0	--	5.3	548.7
Total	1,528.5	1,546.3	953.0	--	35.3	4,063.1
Western Upper Peninsula						
Baraga	246.2	186.8	69.3	--	--	502.4
Dickinson	137.3	190.3	93.8	--	1.1	422.5
Gogebic	257.0	292.0	59.0	--	1.4	609.4
Houghton	288.3	186.4	51.0	--	--	525.7
Iron	261.2	260.6	141.0	--	2.8	665.7
Keweenaw	115.7	67.5	22.9	--	--	206.1
Marquette	367.6	422.7	213.8	--	3.3	1,007.4
Ontonagon	239.8	316.0	112.6	--	2.6	671.0
Total	1,913.2	1,922.4	763.4	--	11.2	4,610.1

(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	126.1	164.4	34.6	--	0.8	325.9
Alpena	48.7	131.1	65.3	--	0.8	246.0
Antrim	82.3	74.6	13.0	--	0.8	170.7
Arenac	30.8	69.6	14.9	--	--	115.3
Bay	16.4	12.0	9.9	--	--	38.3
Benzie	75.2	45.9	19.8	--	2.7	143.7
Charlevoix	105.7	44.0	13.3	--	0.8	163.7
Cheboygan	123.5	147.2	75.9	--	2.8	349.5
Clare	105.5	69.7	43.6	--	0.7	219.5
Crawford	83.6	113.8	90.6	--	--	288.0
Emmet	82.8	87.5	31.7	--	1.4	203.4
Gladwin	78.2	64.1	51.2	--	0.8	194.3
Grand Traverse	66.9	76.6	29.2	--	0.8	173.6
Iosco	106.3	107.6	34.0	--	1.1	248.9
Isabella	48.6	32.8	26.8	--	2.6	110.8
Kalkaska	103.1	100.3	56.7	--	1.2	261.2
Lake	157.1	93.7	50.0	--	--	300.7
Leelanau	73.8	17.2	24.2	--	4.7	119.8
Manistee	107.7	73.6	32.7	--	5.2	219.2
Mason	88.8	72.2	22.9	--	3.0	186.9
Mecosta	77.1	58.4	25.5	--	--	161.0
Midland	55.4	74.2	47.0	--	0.9	177.5
Missaukee	67.6	115.3	50.1	--	1.2	234.2
Montmorency	110.5	125.5	55.2	--	--	291.2
Newaygo	185.6	87.2	41.1	--	0.7	314.6
Oceana	87.5	68.1	16.9	--	--	172.5
Ogemaw	57.3	93.4	68.7	--	2.6	221.9
Osceola	69.7	83.0	39.5	--	--	192.2
Oscoda	116.1	107.5	86.6	--	--	310.3
Otsego	98.1	101.0	37.0	--	1.4	237.5
Presque Isle	84.0	124.7	94.2	--	1.2	304.2
Roscommon	90.7	95.9	73.4	--	4.8	264.8
Wexford	127.5	89.1	53.6	--	2.0	272.2
Total	2,938.1	2,821.1	1,429.0	--	45.0	7,233.2

(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	
Southern Lower Peninsula						
Allegan	92.6	61.4	17.3	--	--	171.2
Barry	73.2	39.6	17.0	--	1.2	131.0
Berrien	71.1	14.3	10.6	--	1.2	97.2
Branch	54.4	9.2	4.9	--	--	68.4
Calhoun	75.0	20.3	14.1	--	--	109.3
Cass	52.0	21.2	10.5	--	--	83.6
Clinton	25.2	20.3	5.0	--	--	50.5
Eaton	36.6	22.8	2.7	--	--	62.2
Genesee	37.0	26.9	10.8	--	--	74.6
Gratiot	21.3	15.5	4.8	--	--	41.6
Hillsdale	47.1	33.5	3.1	--	--	83.7
Huron	22.1	27.7	8.0	--	--	57.8
Ingham	27.4	25.4	8.1	--	--	60.9
Ionia	41.3	30.3	16.6	--	1.3	89.4
Jackson	70.4	17.7	22.6	--	--	110.7
Kalamazoo	67.2	33.4	9.7	--	1.8	112.0
Kent	77.5	53.9	20.5	--	0.7	152.6
Lapeer	50.8	36.7	14.5	--	1.6	103.6
Lenawee	41.7	21.6	9.1	--	--	72.4
Livingston	47.1	21.5	13.1	--	4.1	85.8
Macomb	20.3	15.3	8.1	--	--	43.8
Monroe	40.7	6.8	3.6	--	--	51.1
Montcalm	74.0	68.0	23.7	--	--	165.8
Muskegon	99.9	37.5	18.2	--	0.6	156.2
Oakland	67.2	41.8	16.6	--	5.8	131.5
Ottawa	60.3	20.3	11.1	--	0.7	92.4
Saginaw	51.1	42.4	1.3	--	0.5	95.3
St. Clair	43.5	25.1	25.9	--	--	94.6
St. Joseph	49.2	12.8	1.6	--	5.5	69.1
Sanilac	24.5	33.6	24.9	--	0.7	83.7
Shiawassee	25.5	11.4	10.5	--	2.1	49.6
Tuscola	49.4	65.2	22.9	--	0.6	138.1
Van Buren	81.6	31.2	17.6	--	3.5	133.8

(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	60.4	24.4	16.4	--	0.8	101.9
Wayne	20.1	12.3	--	--	1.6	34.0
Total	1,798.6	1,001.2	425.4	--	34.0	3,259.3
All counties	8,178.4	7,291.0	3,570.8	--	125.5	19,165.7

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 2003-2007

(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	3.4	54.9	186.4	256.8	42.4	543.8
Chippewa	26.6	67.6	289.7	322.9	46.7	753.4
Delta	5.8	69.3	216.1	243.8	61.6	596.6
Luce	3.9	59.4	206.1	223.2	24.1	516.6
Mackinac	7.0	53.9	194.0	281.9	35.3	572.1
Menominee	4.9	52.4	172.4	265.6	36.5	531.8
Schoolcraft	12.0	87.4	183.9	229.8	35.7	548.7
Total	63.6	444.8	1,448.6	1,823.9	282.2	4,063.1
Western Upper Peninsula						
Baraga	--	21.5	133.3	298.8	48.8	502.4
Dickinson	3.4	66.0	96.0	213.2	43.9	422.5
Gogebic	1.5	48.6	188.2	323.4	47.8	609.4
Houghton	0.3	28.2	159.4	302.9	34.9	525.7
Iron	5.5	80.7	216.4	331.4	31.8	665.7
Keweenaw	--	19.8	81.2	98.0	7.1	206.1
Marquette	6.8	95.3	293.6	518.7	93.1	1,007.4
Ontonagon	3.3	48.6	219.6	319.5	80.0	671.0
Total	20.8	408.6	1,387.6	2,405.7	387.4	4,610.1

(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	0.8	43.4	119.5	149.1	13.1	325.9
Alpena	1.6	32.6	93.9	116.1	1.7	246.0
Antrim	7.1	12.0	48.5	90.1	13.0	170.7
Arenac	0.5	30.3	37.6	46.1	0.8	115.3
Bay	0.6	1.8	32.4	3.2	0.4	38.3
Benzie	2.8	7.6	45.8	72.2	15.2	143.7
Charlevoix	1.1	9.9	54.0	81.0	17.6	163.7
Cheboygan	10.6	23.4	100.5	183.4	31.5	349.5
Clare	4.4	34.0	66.7	99.3	15.2	219.5
Crawford	5.7	53.6	90.9	102.4	35.4	288.0
Emmet	4.1	13.6	53.8	107.2	24.7	203.4
Gladwin	2.2	33.8	88.7	58.6	11.0	194.3
Grand Traverse	3.4	32.8	62.8	64.8	9.7	173.6
Iosco	1.9	29.2	121.3	81.7	14.7	248.9
Isabella	5.6	17.7	47.8	34.2	5.5	110.8
Kalkaska	2.5	36.9	86.0	122.2	13.7	261.2
Lake	2.9	53.0	101.5	119.3	24.0	300.7
Leelanau	6.4	9.7	26.6	60.4	16.8	119.8
Manistee	8.2	30.4	58.9	103.6	18.0	219.2
Mason	3.0	16.6	71.2	90.6	5.6	186.9
Mecosta	10.0	17.4	56.9	69.8	6.8	161.0
Midland	0.9	26.3	76.3	69.1	5.1	177.5
Missaukee	3.5	39.4	91.7	85.6	14.1	234.2
Montmorency	0.5	32.7	95.3	142.9	19.8	291.2
Newaygo	7.8	45.1	117.8	127.9	16.0	314.6
Oceana	6.9	11.4	64.2	79.7	10.2	172.5
Ogemaw	3.2	28.5	61.4	89.9	38.9	221.9
Osceola	5.6	34.2	63.4	67.2	21.8	192.2
Oscoda	0.5	40.8	116.6	118.4	34.1	310.3
Otsego	3.4	30.6	77.0	103.5	23.0	237.5
Presque Isle	2.3	58.2	96.0	100.3	47.3	304.2
Roscommon	9.5	42.3	80.1	105.4	27.5	264.8
Wexford	4.1	32.6	83.4	131.3	20.9	272.2
Total	133.6	961.8	2,488.6	3,076.5	572.7	7,233.2

(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	
Southern Lower Peninsula						
Allegan	5.2	25.9	63.1	62.8	14.2	171.2
Barry	3.3	37.0	47.8	42.3	0.6	131.0
Berrien	5.1	20.6	33.9	35.5	2.0	97.2
Branch	--	28.0	20.2	19.7	0.5	68.4
Calhoun	1.1	26.2	51.3	27.2	3.5	109.3
Cass	0.9	33.9	26.3	22.6	--	83.6
Clinton	4.2	9.4	29.0	6.6	1.2	50.5
Eaton	0.3	14.6	29.8	16.2	1.4	62.2
Genesee	--	22.5	20.7	29.7	1.8	74.6
Gratiot	0.8	4.8	19.3	16.7	0.0	41.6
Hillsdale	0.3	44.3	25.5	11.9	1.7	83.7
Huron	--	15.8	17.1	22.1	2.8	57.8
Ingham	2.9	4.1	37.7	16.2	--	60.9
Ionia	9.9	24.4	19.1	29.7	6.3	89.4
Jackson	5.7	27.1	33.0	44.4	0.5	110.7
Kalamazoo	7.0	21.4	25.3	53.4	4.9	112.0
Kent	1.8	31.4	68.3	46.9	4.1	152.6
Lapeer	3.9	35.9	33.5	26.6	3.7	103.6
Lenawee	4.9	20.8	31.8	14.9	--	72.4
Livingston	7.7	21.5	42.6	13.2	0.8	85.8
Macomb	3.1	17.0	16.8	6.9	--	43.8
Monroe	--	14.5	13.5	22.4	0.7	51.1
Montcalm	6.9	49.0	44.0	63.3	2.5	165.8
Muskegon	2.1	20.4	63.9	65.9	3.9	156.2
Oakland	11.6	34.2	42.4	40.6	2.6	131.5
Ottawa	2.3	18.7	33.1	33.5	4.8	92.4
Saginaw	1.4	8.3	33.6	50.0	2.0	95.3
St. Clair	1.0	23.0	28.8	38.5	3.3	94.6
St. Joseph	9.6	11.1	26.8	19.8	1.9	69.1
Sanilac	0.7	24.0	34.1	24.1	0.9	83.7
Shiawassee	5.3	12.7	21.9	8.3	1.5	49.6
Tuscola	4.2	21.6	63.4	48.2	0.6	138.1
Van Buren	8.2	29.4	52.3	42.5	1.4	133.8

(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	3.4	44.7	34.8	18.7	0.4	101.9
Wayne	3.9	4.9	13.1	12.2	--	34.0
Total	128.7	802.7	1,197.8	1,053.4	76.7	3,259.3
All counties	346.6	2,618.0	6,522.6	8,359.6	1,318.9	19,165.7

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 2003-2007

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	92.9	234.7	262.0	327.5	917.1	430.7	905.2	588.3	933.7	2,857.8	
Chippewa	146.1	372.4	309.9	148.5	977.0	601.1	1,086.6	671.9	374.7	2,734.3	
Delta	108.8	313.1	222.6	96.8	741.2	428.1	784.8	492.0	275.0	1,979.8	
Luce	151.3	238.0	178.1	154.6	722.1	670.4	741.2	379.4	422.2	2,213.1	
Mackinac	79.0	351.9	220.9	173.3	825.1	345.6	913.0	499.9	533.9	2,292.5	
Menominee	40.0	294.5	205.8	171.7	712.1	184.5	652.9	427.1	421.6	1,686.1	
Schoolcraft	158.9	219.8	173.7	92.7	645.1	652.0	590.0	374.3	266.1	1,882.4	
Total	777.1	2,024.5	1,573.0	1,165.1	5,539.6	3,312.4	5,673.6	3,432.9	3,227.2	15,646.1	
Western Upper Peninsula											
Baraga	30.1	250.3	249.9	349.1	879.5	118.0	986.2	582.1	961.9	2,648.3	
Dickinson	42.0	210.2	207.4	139.6	599.1	199.9	538.6	522.8	277.9	1,539.2	
Gogebic	52.8	251.3	327.9	428.1	1,060.2	240.8	917.8	768.6	1,041.5	2,968.8	
Houghton	57.9	226.8	305.7	392.3	982.6	283.4	921.7	767.5	1,132.8	3,105.5	
Iron	96.2	210.2	280.7	356.1	943.1	454.7	654.9	634.5	940.9	2,685.0	
Keweenaw	29.5	118.7	100.1	115.3	363.7	161.7	460.6	252.1	336.3	1,210.8	
Marquette	165.4	475.3	445.2	446.1	1,532.0	753.0	1,541.9	947.0	1,239.1	4,480.9	
Ontonagon	31.0	216.2	435.3	348.7	1,031.1	152.5	865.1	995.0	799.5	2,812.0	
Total	504.9	1,959.1	2,352.1	2,575.2	7,391.3	2,363.9	6,886.9	5,469.6	6,730.0	21,450.4	

(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	81.0	61.7	184.9	169.3	496.9	295.2	178.5	376.2	519.2	1,369.1
Alpena	42.5	78.3	116.5	52.9	290.2	177.8	177.2	199.2	143.0	697.2
Antrim	33.4	16.8	110.4	145.4	305.9	111.9	50.3	289.1	360.1	811.4
Arenac	15.6	5.6	59.8	46.4	127.3	49.9	16.8	126.0	131.1	323.8
Bay	0.4	0.1	33.9	10.2	44.6	2.0	--	90.1	27.2	119.2
Benzie	57.4	13.8	75.7	118.1	265.0	171.5	42.6	196.4	364.2	774.7
Charlevoix	44.4	68.8	94.4	133.4	340.9	223.7	218.5	267.4	375.1	1,084.6
Cheboygan	107.7	108.2	194.9	106.5	517.3	415.2	296.7	421.1	255.5	1,388.6
Clare	70.6	21.1	173.8	74.5	340.1	296.1	55.5	363.9	262.4	978.0
Crawford	110.9	27.6	57.1	97.4	293.0	400.6	45.8	106.8	251.4	804.6
Emmet	29.6	46.0	112.7	152.5	340.8	113.3	127.5	311.5	409.5	961.7
Gladwin	28.3	4.5	150.2	40.1	223.0	117.7	8.7	384.9	131.6	642.8
Grand Traverse	70.3	34.8	65.4	83.4	253.8	229.1	99.4	140.6	239.7	708.7
Iosco	159.6	42.9	113.4	64.7	380.6	583.2	111.3	283.8	176.0	1,154.3
Isabella	13.3	7.6	73.5	43.6	138.0	55.5	18.1	222.3	128.1	423.9
Kalkaska	139.2	22.9	116.2	101.8	380.1	489.2	51.2	271.6	248.4	1,060.4
Lake	176.9	23.0	89.8	152.1	441.8	665.6	67.3	189.1	490.5	1,412.4
Leelanau	30.9	21.0	38.6	132.8	223.2	92.0	71.3	115.1	440.5	719.0
Manistee	77.1	24.2	112.3	139.6	353.3	238.5	89.6	281.9	433.1	1,043.2
Mason	104.8	4.2	109.5	92.9	311.3	314.0	12.7	293.5	313.4	933.6
Mecosta	55.6	8.1	112.4	74.7	250.7	195.9	30.2	280.4	248.9	755.5
Midland	21.3	--	118.5	70.6	210.4	102.9	--	245.8	219.3	568.0
Missaukee	50.8	43.9	112.5	71.8	279.0	150.7	74.6	200.0	190.9	616.2
Montmorency	110.9	58.2	142.8	107.7	419.6	478.6	159.2	275.9	304.4	1,218.1
Newaygo	120.1	9.1	133.5	210.3	472.9	382.7	33.5	315.0	731.5	1,462.7
Oceana	63.4	24.6	104.2	94.9	287.0	182.0	84.2	251.1	300.8	818.1
Ogemaw	49.9	28.8	91.9	73.1	243.6	163.2	65.3	187.8	236.6	652.8
Osceola	29.8	24.8	136.4	67.0	257.9	76.3	91.1	305.6	222.3	695.3
Oscoda	126.2	28.9	94.4	105.0	354.5	458.1	61.8	170.5	388.5	1,078.8
Otsego	75.6	34.7	81.7	166.8	358.7	315.1	98.3	160.5	411.1	985.0
Presque Isle	44.7	113.0	119.5	62.2	339.4	201.1	255.6	253.2	167.0	877.0
Roscommon	55.4	48.8	85.6	93.3	283.0	239.2	103.8	152.3	292.3	787.6
Wexford	154.5	41.3	103.5	139.4	438.6	568.6	86.3	241.3	431.8	1,328.1
Total	2,352.0	1,097.1	3,519.6	3,294.1	10,262.8	8,556.4	2,883.1	7,969.8	9,845.4	29,254.7

(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	29.9	4.1	117.6	153.9	305.4	100.1	8.8	375.3	541.9	1,026.2	
Barry	7.3	9.9	74.7	124.7	216.6	32.2	38.3	205.3	452.5	728.2	
Berrien	8.3	0.1	107.5	69.6	185.5	31.5	--	330.2	247.5	609.3	
Branch	3.1	0.1	76.2	36.2	115.6	8.0	--	260.8	128.7	397.6	
Calhoun	1.6	--	163.3	58.2	223.2	5.2	--	579.5	184.9	769.5	
Cass	4.7	0.8	74.0	37.5	117.1	20.2	2.5	246.6	132.0	401.3	
Clinton	--	--	31.8	37.7	69.5	--	--	90.9	121.0	211.9	
Eaton	0.5	--	46.2	57.2	103.8	2.4	--	138.0	191.1	331.5	
Genesee	--	0.1	48.0	56.0	104.1	--	--	132.1	165.6	297.7	
Gratiot	8.5	--	25.3	34.6	68.4	19.5	--	67.5	103.8	190.8	
Hillsdale	5.4	0.2	55.9	58.1	119.6	22.0	--	153.9	226.9	402.8	
Huron	2.0	1.8	48.9	31.3	84.0	10.4	7.4	119.4	97.9	235.1	
Ingham	0.8	0.0	54.5	42.9	98.2	1.9	--	149.1	170.3	321.3	
Ionia	5.8	2.1	49.3	81.7	138.9	12.2	1.6	134.6	328.7	477.1	
Jackson	5.9	1.7	79.8	106.7	194.1	23.7	2.7	251.3	426.7	704.4	
Kalamazoo	17.8	5.9	98.7	100.3	222.8	83.1	18.1	319.2	366.9	787.4	
Kent	25.0	3.4	91.6	107.9	227.9	78.8	15.4	252.3	367.2	713.7	
Lapeer	9.7	6.6	59.8	70.2	146.3	34.7	17.4	168.2	256.9	477.2	
Lenawee	0.4	0.7	48.3	41.5	90.9	1.4	1.8	150.6	146.9	300.7	
Livingston	2.6	3.1	46.2	62.5	114.4	11.6	11.6	123.6	219.2	366.0	
Macomb	--	2.4	16.2	23.5	42.1	--	8.0	29.0	64.3	101.3	
Monroe	1.0	--	50.7	51.9	103.6	1.0	--	166.9	201.2	369.0	
Montcalm	30.4	2.2	93.8	104.0	230.4	131.4	3.8	218.8	339.8	693.8	
Muskegon	57.1	6.1	70.0	131.3	264.3	184.8	27.0	227.9	443.6	883.3	
Oakland	3.7	3.3	71.3	105.8	184.2	16.5	10.9	201.3	391.7	620.4	
Ottawa	20.7	1.4	70.3	72.0	164.4	82.4	5.3	220.5	278.3	586.4	
Saginaw	16.3	0.7	101.6	57.2	175.9	65.0	3.0	251.5	164.8	484.3	
St. Clair	2.9	0.7	66.5	71.0	141.1	14.1	--	182.9	243.2	440.2	
St. Joseph	13.4	0.0	61.1	46.4	120.9	57.8	--	205.6	169.8	433.2	
Sanilac	5.2	0.7	55.6	20.8	82.3	20.7	1.0	138.9	49.1	209.8	
Shiawassee	1.3	--	33.9	29.1	64.3	4.5	--	104.0	111.3	219.7	
Tuscola	20.4	7.5	98.6	52.2	178.7	71.7	16.9	232.0	148.3	469.0	
Van Buren	8.0	9.3	93.7	85.8	196.9	40.7	46.6	306.4	311.0	704.7	

(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	4.5	1.2	44.8	93.1	143.7	21.3	3.0	116.5	359.5	500.3	
Wayne	--	--	29.3	32.0	61.3	--	--	76.7	129.0	205.7	
Total	324.1	76.1	2,355.1	2,344.9	5,100.3	1,210.7	250.9	6,927.5	8,281.3	16,670.4	
All counties	3,958.0	5,156.8	9,799.8	9,379.3	28,294.0	15,443.4	15,694.5	23,799.8	28,083.8	83,021.5	

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 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 2000-2002 to 2005-2007

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	2.1	5.5	4.4	7.6	19.6	8.7	18.2	14.7	31.6	73.1
Chippewa	3.3	7.2	6.5	1.3	18.2	17.0	31.8	13.3	5.0	67.0
Delta	4.0	9.5	4.3	1.5	19.3	16.6	31.1	8.0	5.6	61.2
Luce	3.5	4.7	5.3	5.7	19.3	18.1	15.8	9.9	19.5	63.3
Mackinac	2.5	8.6	-0.3	2.1	12.8	6.0	29.0	4.4	5.6	45.0
Menominee	1.9	8.4	6.4	3.9	20.6	7.3	20.1	15.4	16.8	59.7
Schoolcraft	4.1	8.2	4.8	2.1	19.2	17.1	28.7	11.4	10.4	67.5
Total	21.3	52.0	31.4	24.3	129.0	90.8	174.6	77.2	94.4	437.0
Western Upper Peninsula										
Baraga	1.2	4.5	4.7	4.8	15.2	4.2	18.8	20.5	18.7	62.3
Dickinson	1.8	1.0	4.4	2.8	10.0	10.1	7.4	16.1	8.8	42.5
Gogebic	1.9	3.1	0.5	9.7	15.3	10.7	25.3	-4.1	34.6	66.5
Houghton	1.4	5.0	5.4	6.1	17.9	10.4	25.1	20.8	27.4	83.7
Iron	4.3	5.4	4.3	5.0	19.0	15.1	24.7	15.2	24.4	79.3
Keweenaw	0.4	5.0	5.8	2.3	13.5	2.9	21.4	8.8	8.4	41.5
Marquette	3.8	8.1	5.8	5.3	23.0	15.3	33.2	18.6	23.3	90.4
Ontonagon	0.9	1.9	6.0	8.3	17.2	3.0	12.3	25.5	27.7	68.6
Total	15.8	34.1	37.0	44.3	131.1	71.8	168.3	121.4	173.4	534.9

(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	0.7	2.1	3.1	4.3	10.2	4.4	7.4	17.0	17.4	46.3
Alpena	1.3	2.1	4.2	1.3	8.9	4.7	5.1	6.5	5.4	21.7
Antrim	1.8	-0.1	3.7	4.5	9.9	11.0	-0.2	16.1	21.4	48.3
Arenac	0.9	0.3	2.6	2.4	6.2	3.8	0.4	4.8	7.8	16.7
Bay	--	--	1.4	0.7	2.1	--	--	8.0	2.0	10.0
Benzie	7.4	0.7	4.0	4.2	16.2	33.6	2.9	6.9	18.8	62.3
Charlevoix	0.4	0.4	2.4	2.6	5.9	2.3	4.3	10.8	10.1	27.4
Cheboygan	3.1	1.3	4.6	2.9	12.0	21.2	6.3	16.4	9.7	53.6
Clare	1.5	0.6	5.7	1.8	9.6	9.2	3.2	23.4	10.1	45.8
Crawford	2.9	1.0	2.0	2.0	7.9	12.6	1.9	5.8	7.1	27.6
Emmet	1.4	0.6	0.8	3.1	5.9	7.3	2.8	8.7	18.0	36.9
Gladwin	0.5	0.0	4.5	1.5	6.5	2.7	0.1	10.3	7.4	20.4
Grand Traverse	5.0	-0.1	2.1	2.1	9.1	24.0	1.2	5.1	6.6	36.9
Iosco	4.6	0.7	3.3	2.9	11.5	23.4	2.8	13.0	13.3	52.4
Isabella	0.1	-0.6	4.6	1.2	5.4	1.7	-2.2	16.2	3.2	19.0
Kalkaska	4.9	1.5	3.2	2.1	11.7	33.7	2.5	7.8	10.9	55.0
Lake	4.4	1.3	4.0	3.4	13.2	21.6	3.8	7.5	14.3	47.2
Leelanau	-0.4	-0.5	0.0	2.7	1.8	-0.1	-3.4	0.9	11.1	8.4
Manistee	2.4	0.7	2.9	2.6	8.6	8.6	3.3	10.5	8.6	31.0
Mason	3.0	0.0	2.7	2.6	8.3	18.5	--	6.1	10.3	34.9
Mecosta	3.4	0.4	3.6	3.0	10.4	6.5	1.2	10.3	13.3	31.3
Midland	0.3	--	2.0	1.8	4.2	0.7	--	2.1	5.7	8.4
Missaukee	0.0	0.8	2.4	2.4	5.5	-5.3	1.8	4.9	9.1	10.5
Montmorency	4.0	0.9	5.7	4.5	14.9	19.4	2.7	14.4	17.3	53.9
Newaygo	3.4	0.3	3.5	3.3	10.6	22.1	0.9	11.3	15.5	49.9
Oceana	1.9	1.5	2.7	3.2	9.3	9.6	4.8	8.0	13.2	35.7
Ogemaw	2.8	0.1	3.2	3.0	9.1	15.9	0.1	11.9	14.7	42.7
Osceola	2.0	0.1	5.3	1.6	9.0	8.6	0.5	13.9	8.1	31.1
Oscoda	4.4	1.3	5.1	3.9	14.7	18.8	3.7	6.0	16.7	45.2
Otsego	2.9	0.3	1.1	4.6	9.0	16.5	1.4	2.5	16.0	36.3
Presque Isle	1.5	2.1	4.8	2.4	10.8	6.3	7.5	16.5	9.0	39.2
Roscommon	1.8	-0.1	1.0	5.0	7.7	6.0	2.2	3.0	21.4	32.7
Wexford	4.3	1.0	2.6	5.1	13.0	30.3	4.0	7.6	27.0	68.8
Total	78.7	21.0	105.0	94.6	299.3	399.8	72.8	314.2	400.5	1,187.4

(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	1.3	0.1	3.8	4.0	9.2	5.6	--	18.2	17.4	41.2	
Barry	0.0	0.3	4.0	2.7	7.0	0.7	1.4	14.1	14.2	30.5	
Berrien	0.3	0.0	11.2	1.6	13.2	1.7	--	44.3	6.1	52.1	
Branch	-0.5	0.0	2.2	1.5	3.3	0.2	--	11.8	6.8	18.7	
Calhoun	--	--	11.3	3.3	14.6	--	--	51.2	14.5	65.7	
Cass	--	--	1.4	1.6	3.0	--	--	9.4	4.8	14.2	
Clinton	--	--	0.1	0.7	0.8	--	--	-1.3	2.0	0.8	
Eaton	0.0	--	2.4	5.5	7.9	0.1	--	8.2	18.7	27.0	
Genesee	0.0	0.0	3.8	1.4	5.2	0.2	--	15.0	1.9	17.1	
Gratiot	--	--	0.6	2.7	3.2	--	--	1.3	8.2	9.6	
Hillsdale	0.3	0.0	2.3	-0.2	2.4	1.8	--	4.0	0.6	6.4	
Huron	0.2	0.1	-0.3	1.6	1.6	1.1	0.6	-1.9	6.9	6.7	
Ingham	0.1	--	0.0	0.9	1.0	0.3	--	-2.1	1.9	0.1	
Ionia	--	0.0	4.3	5.4	9.8	--	0.0	15.3	25.6	40.9	
Jackson	0.3	0.0	2.6	4.8	7.7	2.0	0.0	12.4	23.2	37.6	
Kalamazoo	0.0	0.0	0.3	1.9	2.2	-0.3	--	-0.1	9.6	9.2	
Kent	3.4	0.1	2.4	2.3	8.2	9.9	0.4	5.5	8.3	24.1	
Lapeer	0.3	0.4	0.3	1.4	2.4	1.5	0.8	0.4	6.9	9.5	
Lenawee	--	--	1.2	1.5	2.6	--	--	4.4	4.2	8.6	
Livingston	--	0.3	1.8	2.3	4.4	--	1.9	6.8	10.6	19.3	
Macomb	0.0	0.0	0.0	-0.2	-0.2	--	0.1	-1.2	-0.7	-1.8	
Monroe	0.2	--	1.1	0.5	1.8	0.3	--	5.0	1.7	7.0	
Montcalm	1.4	0.0	3.2	3.1	7.8	6.8	0.2	9.5	13.2	29.7	
Muskegon	0.4	0.1	1.5	4.6	6.5	4.2	0.3	7.1	13.6	25.2	
Oakland	0.0	0.1	4.1	7.7	11.9	-0.9	--	10.5	31.5	41.1	
Ottawa	-2.4	0.0	2.4	1.7	1.6	-13.6	0.1	11.3	8.2	6.0	
Saginaw	0.0	0.0	2.5	1.0	3.5	0.1	0.3	7.0	5.4	12.7	
St. Clair	0.7	0.5	5.4	1.6	8.3	3.2	--	16.1	6.7	26.0	
St. Joseph	0.6	--	2.4	1.3	4.3	4.1	--	7.6	6.9	18.6	
Sanilac	0.7	0.0	1.3	0.7	2.7	3.0	--	3.1	1.5	7.5	
Shiawassee	0.1	--	0.8	1.1	2.0	0.7	--	3.6	4.4	8.7	
Tuscola	0.3	0.2	3.6	2.1	6.2	1.0	0.1	16.5	3.6	21.2	
Van Buren	0.1	0.2	1.8	2.6	4.7	1.2	1.2	6.8	12.4	21.5	

(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	0.4	0.2	2.8	3.0	6.4	2.8	0.2	6.3	13.6	22.8
Wayne	--	--	0.7	-1.9	-1.2	--	--	1.4	-6.5	-5.0
Total	8.2	2.7	89.5	75.7	176.1	37.6	7.5	327.5	307.7	680.4
All counties	124.0	109.8	262.8	238.9	735.5	600.0	423.3	840.3	976.0	2,839.7

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 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 2000-2002 to 2005-2007

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	2.1	5.5	4.4	7.6	19.6	6.1	7.9	6.0	15.1	35.1
Chippewa	3.3	7.2	6.5	1.3	18.2	8.9	13.0	6.4	-1.2	27.2
Delta	4.0	9.5	4.3	1.5	19.3	6.5	14.1	3.6	1.9	26.1
Luce	3.5	4.7	5.3	5.7	19.3	11.8	6.3	4.8	9.4	32.4
Mackinac	2.5	8.6	-0.3	2.1	12.8	3.6	11.7	1.4	1.3	18.1
Menominee	1.9	8.4	6.4	3.9	20.6	4.3	7.1	7.0	8.1	26.5
Schoolcraft	4.1	8.2	4.8	2.1	19.2	9.0	15.1	5.2	5.1	34.3
Total	21.3	52.0	31.4	24.3	129.0	50.1	75.3	34.5	39.8	199.7
Western Upper Peninsula										
Baraga	1.2	4.5	4.7	4.8	15.2	2.5	12.2	9.6	8.9	33.1
Dickinson	1.8	1.0	4.4	2.8	10.0	7.1	2.6	7.6	4.1	21.5
Gogebic	1.9	3.1	0.5	9.7	15.3	6.0	11.1	-4.4	16.4	29.1
Houghton	1.4	5.0	5.4	6.1	17.9	6.1	14.4	9.1	14.1	43.7
Iron	4.3	5.4	4.3	5.0	19.0	11.6	12.8	7.4	12.0	43.9
Keweenaw	0.4	5.0	5.8	2.3	13.5	2.6	14.8	4.7	4.7	26.8
Marquette	3.8	8.1	5.8	5.3	23.0	6.9	15.8	6.9	10.2	39.9
Ontonagon	0.9	1.9	6.0	8.3	17.2	1.9	5.4	11.6	13.8	32.6
Total	15.8	34.1	37.0	44.3	131.1	44.8	89.1	52.5	84.2	270.7

(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	0.7	2.1	3.1	4.3	10.2	2.3	3.2	6.4	9.4	21.3
Alpena	1.3	2.1	4.2	1.3	8.9	2.7	1.9	3.0	3.0	10.7
Antrim	1.8	-0.1	3.7	4.5	9.9	4.7	-0.1	7.9	10.4	22.9
Arenac	0.9	0.3	2.6	2.4	6.2	1.7	0.3	2.2	5.1	9.3
Bay	--	--	1.4	0.7	2.1	--	--	4.4	1.5	5.9
Benzie	7.4	0.7	4.0	4.2	16.2	20.7	1.0	3.6	11.0	36.3
Charlevoix	0.4	0.4	2.4	2.6	5.9	1.6	1.8	6.1	5.3	14.8
Cheboygan	3.1	1.3	4.6	2.9	12.0	12.5	2.1	7.6	4.8	27.0
Clare	1.5	0.6	5.7	1.8	9.6	4.7	1.9	12.4	5.7	24.6
Crawford	2.9	1.0	2.0	2.0	7.9	6.8	0.9	2.4	3.4	13.4
Emmet	1.4	0.6	0.8	3.1	5.9	3.9	1.2	4.3	9.4	18.7
Gladwin	0.5	0.0	4.5	1.5	6.5	1.4	0.0	5.2	3.7	10.4
Grand Traverse	5.0	-0.1	2.1	2.1	9.1	10.1	0.1	2.8	3.4	16.4
Iosco	4.6	0.7	3.3	2.9	11.5	10.9	1.2	6.1	9.5	27.7
Isabella	0.1	-0.6	4.6	1.2	5.4	0.6	-1.4	8.8	1.7	9.7
Kalkaska	4.9	1.5	3.2	2.1	11.7	16.4	1.3	3.6	5.8	27.1
Lake	4.4	1.3	4.0	3.4	13.2	9.9	1.6	3.7	8.4	23.6
Leelanau	-0.4	-0.5	0.0	2.7	1.8	0.0	-3.8	1.1	5.2	2.6
Manistee	2.4	0.7	2.9	2.6	8.6	4.4	1.7	4.8	4.9	15.8
Mason	3.0	0.0	2.7	2.6	8.3	7.9	--	2.9	5.7	16.6
Mecosta	3.4	0.4	3.6	3.0	10.4	3.6	0.5	5.6	6.9	16.6
Midland	0.3	--	2.0	1.8	4.2	0.3	--	-0.3	3.0	3.0
Missaukee	0.0	0.8	2.4	2.4	5.5	-8.1	0.6	2.5	4.3	-0.7
Montmorency	4.0	0.9	5.7	4.5	14.9	11.5	1.3	7.2	8.9	28.8
Newaygo	3.4	0.3	3.5	3.3	10.6	9.3	0.4	4.0	8.4	22.1
Oceana	1.9	1.5	2.7	3.2	9.3	3.9	2.8	3.7	6.5	16.9
Ogemaw	2.8	0.1	3.2	3.0	9.1	6.3	0.0	5.2	7.3	18.9
Osceola	2.0	0.1	5.3	1.6	9.0	4.2	-0.1	4.2	3.9	12.2
Oscoda	4.4	1.3	5.1	3.9	14.7	8.6	2.0	2.7	9.6	22.9
Otsego	2.9	0.3	1.1	4.6	9.0	7.0	0.6	1.2	7.6	16.4
Presque Isle	1.5	2.1	4.8	2.4	10.8	3.9	3.4	8.6	4.8	20.7
Roscommon	1.8	-0.1	1.0	5.0	7.7	3.2	0.6	1.3	9.6	14.8
Wexford	4.3	1.0	2.6	5.1	13.0	14.2	1.5	3.8	14.3	33.8
Total	78.7	21.0	105.0	94.6	299.3	191.2	28.7	148.7	212.8	581.4

(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	1.3	0.1	3.8	4.0	9.2	2.3	--	9.5	9.5	21.2	
Barry	0.0	0.3	4.0	2.7	7.0	0.4	0.8	7.9	8.1	17.2	
Berrien	0.3	0.0	11.2	1.6	13.2	0.8	--	26.3	3.9	31.0	
Branch	-0.5	0.0	2.2	1.5	3.3	0.1	--	6.5	3.7	10.3	
Calhoun	--	--	11.3	3.3	14.6	--	--	31.3	13.9	45.2	
Cass	--	--	1.4	1.6	3.0	--	--	4.9	2.7	7.6	
Clinton	--	--	0.1	0.7	0.8	--	--	-1.9	1.0	-0.9	
Eaton	0.0	--	2.4	5.5	7.9	0.1	--	5.3	10.6	15.9	
Genesee	0.0	0.0	3.8	1.4	5.2	0.2	--	10.4	1.0	11.6	
Gratiot	--	--	0.6	2.7	3.2	--	--	0.6	4.9	5.5	
Hillsdale	0.3	0.0	2.3	-0.2	2.4	1.0	--	1.9	0.5	3.3	
Huron	0.2	0.1	-0.3	1.6	1.6	0.7	0.3	-1.7	4.9	4.2	
Ingham	0.1	--	0.0	0.9	1.0	0.2	--	-1.6	1.4	-0.1	
Ionia	--	0.0	4.3	5.4	9.8	--	0.0	9.7	16.4	26.1	
Jackson	0.3	0.0	2.6	4.8	7.7	0.9	0.0	6.5	14.8	22.3	
Kalamazoo	0.0	0.0	0.3	1.9	2.2	-0.2	--	-0.2	5.1	4.7	
Kent	3.4	0.1	2.4	2.3	8.2	4.4	0.3	3.2	5.4	13.3	
Lapeer	0.3	0.4	0.3	1.4	2.4	0.4	0.4	0.1	3.8	4.7	
Lenawee	--	--	1.2	1.5	2.6	--	--	2.7	1.8	4.5	
Livingston	--	0.3	1.8	2.3	4.4	--	0.7	3.0	5.6	9.4	
Macomb	0.0	0.0	0.0	-0.2	-0.2	--	0.1	-0.7	-0.5	-1.2	
Monroe	0.2	--	1.1	0.5	1.8	0.1	--	2.9	1.2	4.2	
Montcalm	1.4	0.0	3.2	3.1	7.8	3.9	0.1	4.5	7.2	15.8	
Muskegon	0.4	0.1	1.5	4.6	6.5	2.0	0.2	3.5	7.2	12.8	
Oakland	0.0	0.1	4.1	7.7	11.9	-0.6	--	4.5	18.3	22.2	
Ottawa	-2.4	0.0	2.4	1.7	1.6	-8.9	0.0	7.5	4.5	3.1	
Saginaw	0.0	0.0	2.5	1.0	3.5	-0.1	0.1	3.7	3.1	6.8	
St. Clair	0.7	0.5	5.4	1.6	8.3	1.5	--	9.5	4.1	15.0	
St. Joseph	0.6	--	2.4	1.3	4.3	2.1	--	4.5	3.8	10.4	
Sanilac	0.7	0.0	1.3	0.7	2.7	1.4	--	1.0	0.7	3.1	
Shiawassee	0.1	--	0.8	1.1	2.0	0.3	--	2.9	2.2	5.4	
Tuscola	0.3	0.2	3.6	2.1	6.2	0.6	0.0	7.6	1.9	10.2	
Van Buren	0.1	0.2	1.8	2.6	4.7	0.5	0.5	3.3	7.0	11.2	

(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	0.4	0.2	2.8	3.0	6.4	1.2	0.1	3.5	9.3	14.1
Wayne	--	--	0.7	-1.9	-1.2	--	--	1.0	-6.4	-5.3
Total	8.2	2.7	89.5	75.7	176.1	15.0	3.6	183.7	182.5	384.8
All counties	124.0	109.8	262.8	238.9	735.5	301.1	196.8	419.4	519.3	1,436.6

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 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 2000-2002 to 2005-2007

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	--	4.2	6.0	9.8	20.0	--	19.1	20.8	36.4	76.4	
Chippewa	3.1	2.7	2.2	5.6	13.7	4.9	6.2	6.9	26.0	44.0	
Delta	2.3	2.0	3.2	1.3	8.7	4.9	3.8	5.0	3.7	17.5	
Luce	0.3	0.9	2.8	2.3	6.3	1.9	3.5	9.4	9.8	24.5	
Mackinac	--	2.7	4.4	0.2	7.3	--	6.4	15.4	--	21.9	
Menominee	1.6	1.9	5.3	2.7	11.5	5.4	7.1	9.8	9.0	31.3	
Schoolcraft	0.7	1.1	1.7	0.2	3.8	4.1	4.1	4.0	0.5	12.7	
Total	8.0	15.6	25.6	22.2	71.4	21.2	50.2	71.4	85.4	228.2	
Western Upper Peninsula											
Baraga	--	0.8	2.6	3.5	6.9	--	2.3	10.2	10.9	23.3	
Dickinson	--	0.7	4.1	0.8	5.6	--	1.3	10.2	2.9	14.3	
Gogebic	0.5	3.6	2.9	3.0	10.0	2.3	9.3	5.3	8.5	25.5	
Houghton	1.9	1.6	3.3	7.6	14.4	8.0	4.4	8.0	27.7	48.1	
Iron	0.6	5.4	2.6	4.1	12.7	2.2	20.0	1.6	14.9	38.6	
Keweenaw	0.9	5.8	4.0	9.3	20.0	4.8	24.3	9.8	38.9	77.8	
Marquette	2.4	4.7	11.1	7.8	25.9	5.6	19.6	33.2	28.1	86.6	
Ontonagon	--	3.2	6.1	5.8	15.1	--	15.8	20.0	26.2	62.0	
Total	6.2	25.7	36.7	42.0	110.5	22.9	96.9	98.4	158.0	376.2	

(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				
Northern Lower Peninsula										
Alcona	0.3	0.2	2.2	--	2.7	--	--	2.1	--	2.1
Alpena	--	0.3	2.1	1.6	4.1	--	1.4	6.5	6.1	14.0
Antrim	--	--	0.4	1.6	1.9	--	--	0.9	3.9	4.8
Arenac	--	--	1.2	1.6	2.8	--	--	0.5	6.4	6.9
Charlevoix	--	--	1.4	0.1	1.5	--	--	6.9	--	6.9
Cheboygan	--	0.1	2.6	0.1	2.8	--	--	4.0	--	4.0
Clare	0.4	0.1	1.3	0.3	2.0	0.8	--	5.6	0.9	7.4
Crawford	3.3	--	0.3	0.7	4.3	6.4	--	0.5	2.3	9.3
Emmet	--	--	0.0	2.0	2.1	--	--	--	4.8	4.8
Gladwin	0.1	--	4.1	0.1	4.3	--	--	15.3	--	15.3
Grand Traverse	1.1	--	--	--	1.1	1.1	--	--	--	1.1
Iosco	0.9	--	5.9	0.0	6.8	2.3	--	29.2	--	31.5
Isabella	0.3	--	0.5	0.2	1.0	1.4	--	1.1	0.3	2.8
Kalkaska	7.0	0.3	1.7	0.0	9.0	20.5	--	4.6	--	25.1
Lake	0.9	--	0.4	0.2	1.5	1.3	--	0.9	--	2.2
Leelanau	0.1	0.8	3.3	5.7	9.9	--	3.1	14.6	23.2	40.9
Manistee	0.2	--	0.5	0.1	0.8	1.0	--	2.1	--	3.1
Mason	3.0	--	--	1.0	4.0	3.6	--	--	5.2	8.8
Mecosta	3.1	--	2.4	1.0	6.5	9.3	--	10.2	4.9	24.5
Midland	--	--	0.2	0.9	1.2	--	--	--	4.6	4.6
Missaukee	0.5	0.2	3.5	2.0	6.2	--	--	8.6	6.0	14.7
Montmorency	0.4	--	0.7	1.3	2.5	1.1	--	--	4.0	5.0
Newaygo	2.1	--	1.1	1.5	4.8	6.1	--	3.0	6.0	15.1
Oceana	0.1	0.1	--	--	0.2	--	--	--	--	--
Ogemaw	1.4	--	5.3	1.7	8.4	3.5	--	19.9	5.3	28.7
Osceola	0.5	--	4.3	0.2	5.0	0.8	--	7.6	--	8.4
Oscoda	3.1	--	0.7	0.1	3.9	13.5	--	--	0.4	14.0
Otsego	0.9	0.0	4.0	2.7	7.6	0.6	--	9.7	10.8	21.1
Presque Isle	--	2.1	1.4	0.9	4.4	--	4.8	--	--	4.8
Roscommon	0.6	0.0	0.6	5.4	6.7	3.2	--	1.0	17.6	21.8
Wexford	1.1	--	0.5	4.2	5.8	0.2	--	--	17.9	18.1
Total	31.5	4.1	52.8	37.4	125.7	76.6	9.3	155.1	130.6	371.6

(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	0.0	--	1.8	1.1	2.9	--	--	6.1	4.7	10.8	
Barry	--	--	0.1	0.0	0.1	--	--	0.2	--	0.2	
Berrien	--	--	0.1	1.1	1.2	--	--	--	--	5.4	
Branch	--	--	0.1	--	0.1	--	--	--	--	--	
Calhoun	--	--	2.3	0.8	3.1	--	--	8.3	2.5	10.8	
Cass	--	--	0.1	0.1	0.2	--	--	--	--	--	
Eaton	--	--	5.0	0.9	5.8	--	--	24.0	4.1	28.1	
Genesee	0.1	--	0.0	2.1	2.2	0.7	--	--	4.0	4.6	
Ingham	--	--	0.1	--	0.1	--	--	0.4	--	0.4	
Ionia	--	--	0.6	--	0.6	--	--	--	--	--	
Jackson	--	--	0.4	3.8	4.2	--	--	2.0	18.5	20.5	
Kalamazoo	--	--	--	0.1	0.1	--	--	--	--	--	
Kent	--	--	0.5	2.0	2.5	--	--	1.4	6.2	7.5	
Lapeer	--	--	0.0	1.7	1.7	--	--	--	8.6	8.6	
Lenawee	--	--	0.2	0.2	0.4	--	--	--	--	--	
Livingston	--	--	--	0.6	0.6	--	--	--	2.8	2.8	
Macomb	0.0	--	0.6	--	0.7	--	--	2.5	--	2.5	
Montcalm	--	--	0.4	1.5	1.9	--	--	--	6.4	6.4	
Muskegon	0.0	--	0.0	0.3	0.4	--	--	--	1.0	1.0	
Oakland	--	--	--	1.0	1.0	--	--	--	4.6	4.6	
Ottawa	--	--	0.0	0.0	0.1	--	--	--	--	--	
Saginaw	--	0.0	0.3	0.3	0.7	--	--	--	0.4	0.4	
St. Clair	--	--	2.1	1.1	3.3	--	--	6.8	5.1	11.9	
St. Joseph	--	--	--	1.9	1.9	--	--	--	8.7	8.7	
Sanilac	--	--	0.4	0.1	0.5	--	--	--	--	--	
Shiawassee	--	--	0.4	0.4	0.8	--	--	2.1	1.8	3.8	
Tuscola	--	--	0.5	1.7	2.1	--	--	1.6	7.6	9.2	
Van Buren	1.8	--	2.9	3.9	8.6	8.1	--	10.1	17.0	35.3	
Washtenaw	--	--	1.4	5.7	7.1	--	--	5.2	24.7	29.9	
Wayne	--	--	0.1	0.8	0.9	--	--	--	4.2	4.2	
Total	2.0	0.0	20.6	33.0	55.7	8.8	--	70.5	138.4	217.7	
All counties	47.7	45.4	135.7	134.5	363.4	129.5	156.4	395.3	512.4	1,193.6	

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 or board feet. Columns and rows may not add to their totals due to rounding.

¹ International 1/4-inch rule.

(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					

Table 61a. -- Average annual removals of growing stock and sawtimber (Doyle rule) on timberland by Forest Survey Unit, county, and major species group, Michigan 2000-2002 to 2005-2007

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	--	4.2	6.0	9.8	20.0	--	13.9	10.8	24.3	49.1
Chippewa	3.1	2.7	2.2	5.6	13.7	1.9	3.3	4.5	15.8	25.5
Delta	2.3	2.0	3.2	1.3	8.7	2.1	1.5	2.6	2.2	8.3
Luce	0.3	0.9	2.8	2.3	6.3	1.3	1.7	4.7	6.5	14.2
Mackinac	--	2.7	4.4	0.2	7.3	--	2.9	7.9	--	10.8
Menominee	1.6	1.9	5.3	2.7	11.5	3.3	3.3	4.8	4.7	16.2
Schoolcraft	0.7	1.1	1.7	0.2	3.8	3.6	2.7	1.9	--	8.3
Total	8.0	15.6	25.6	22.2	71.4	12.2	29.4	37.1	53.6	132.3
Western Upper Peninsula										
Baraga	--	0.8	2.6	3.5	6.9	--	1.2	6.5	6.3	14.1
Dickinson	--	0.7	4.1	0.8	5.6	--	0.6	5.9	2.1	8.6
Gogebic	0.5	3.6	2.9	3.0	10.0	1.6	4.5	2.4	4.2	12.7
Houghton	1.9	1.6	3.3	7.6	14.4	3.0	3.9	3.8	17.1	27.7
Iron	0.6	5.4	2.6	4.1	12.7	1.2	11.3	0.5	10.7	23.7
Keweenaw	0.9	5.8	4.0	9.3	20.0	4.2	17.0	5.5	24.7	51.3
Marquette	2.4	4.7	11.1	7.8	25.9	2.1	10.5	19.3	16.4	48.4
Ontonagon	--	3.2	6.1	5.8	15.1	--	9.7	11.1	21.4	42.1
Total	6.2	25.7	36.7	42.0	110.5	12.1	58.5	55.1	102.9	228.6

(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	0.3	0.2	2.2	--	2.7	--	--	1.0	--	1.0	
Alpena	--	0.3	2.1	1.6	4.1	--	0.7	4.1	3.9	8.8	
Antrim	--	--	0.4	1.6	1.9	--	--	0.4	2.8	3.2	
Arenac	--	--	1.2	1.6	2.8	--	--	--	3.6	3.6	
Charlevoix	--	--	1.4	0.1	1.5	--	--	5.2	--	5.2	
Cheboygan	--	0.1	2.6	0.1	2.8	--	--	1.4	--	1.4	
Clare	0.4	0.1	1.3	0.3	2.0	0.3	--	3.0	0.4	3.6	
Crawford	3.3	--	0.3	0.7	4.3	2.2	--	--	1.2	3.5	
Emmet	--	--	0.0	2.0	2.1	--	--	--	2.2	2.2	
Gladwin	0.1	--	4.1	0.1	4.3	--	--	7.9	--	7.9	
Grand Traverse	1.1	--	--	--	1.1	0.3	--	--	--	0.3	
Iosco	0.9	--	5.9	0.0	6.8	0.8	--	23.3	--	24.1	
Isabella	0.3	--	0.5	0.2	1.0	0.6	--	0.5	0.2	1.3	
Kalkaska	7.0	0.3	1.7	0.0	9.0	13.4	--	2.6	--	16.1	
Lake	0.9	--	0.4	0.2	1.5	0.2	--	0.4	--	0.6	
Leelanau	0.1	0.8	3.3	5.7	9.9	--	1.5	8.6	15.4	25.4	
Manistee	0.2	--	0.5	0.1	0.8	0.3	--	1.3	--	1.6	
Mason	3.0	--	--	1.0	4.0	1.2	--	--	4.1	5.3	
Mecosta	3.1	--	2.4	1.0	6.5	3.6	--	4.9	3.4	11.9	
Midland	--	--	0.2	0.9	1.2	--	--	--	3.3	3.3	
Missaukee	0.5	0.2	3.5	2.0	6.2	--	--	4.8	3.0	7.8	
Montmorency	0.4	--	0.7	1.3	2.5	0.4	--	--	2.5	2.8	
Newaygo	2.1	--	1.1	1.5	4.8	3.1	--	1.0	4.0	8.0	
Oceana	0.1	0.1	--	--	0.2	--	--	--	--	--	
Ogemaw	1.4	--	5.3	1.7	8.4	1.2	--	9.2	2.2	12.6	
Osceola	0.5	--	4.3	0.2	5.0	0.2	--	2.3	--	2.5	
Oscoda	3.1	--	0.7	0.1	3.9	9.0	--	--	0.2	9.1	
Otsego	0.9	0.0	4.0	2.7	7.6	--	--	5.4	6.3	11.7	
Presque Isle	--	2.1	1.4	0.9	4.4	--	2.4	--	--	2.4	
Roscommon	0.6	0.0	0.6	5.4	6.7	1.2	--	0.5	8.4	10.2	
Wexford	1.1	--	0.5	4.2	5.8	--	--	--	10.4	10.4	
Total	31.5	4.1	52.8	37.4	125.7	38.0	4.6	87.9	77.3	207.7	

(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	0.0	--	1.8	1.1	2.9	--	--	4.6	3.3	7.9	
Barry	--	--	0.1	0.0	0.1	--	--	0.1	--	0.1	
Berrien	--	--	0.1	1.1	1.2	--	--	--	5.1	5.1	
Branch	--	--	0.1	--	0.1	--	--	--	--	--	
Calhoun	--	--	2.3	0.8	3.1	--	--	5.3	1.3	6.6	
Cass	--	--	0.1	0.1	0.2	--	--	--	--	--	
Eaton	--	--	5.0	0.9	5.8	--	--	18.4	3.2	21.6	
Genesee	0.1	--	0.0	2.1	2.2	0.5	--	--	4.5	5.0	
Ingham	--	--	0.1	--	0.1	--	--	0.2	--	0.2	
Ionia	--	--	0.6	--	0.6	--	--	--	--	--	
Jackson	--	--	0.4	3.8	4.2	--	--	1.3	14.4	15.7	
Kalamazoo	--	--	--	0.1	0.1	--	--	--	--	--	
Kent	--	--	0.5	2.0	2.5	--	--	0.6	3.3	3.8	
Lapeer	--	--	0.0	1.7	1.7	--	--	--	7.1	7.1	
Lenawee	--	--	0.2	0.2	0.4	--	--	--	--	--	
Livingston	--	--	--	0.6	0.6	--	--	--	1.8	1.8	
Macomb	0.0	--	0.6	--	0.7	--	--	1.6	--	1.6	
Montcalm	--	--	0.4	1.5	1.9	--	--	--	3.8	3.8	
Muskegon	0.0	--	0.0	0.3	0.4	--	--	--	0.6	0.6	
Oakland	--	--	--	1.0	1.0	--	--	--	3.2	3.2	
Ottawa	--	--	0.0	0.0	0.1	--	--	--	--	--	
Saginaw	--	0.0	0.3	0.3	0.7	--	--	--	0.2	0.2	
St. Clair	--	--	2.1	1.1	3.3	--	--	4.2	3.3	7.5	
St. Joseph	--	--	--	1.9	1.9	--	--	--	7.1	7.1	
Sanilac	--	--	0.4	0.1	0.5	--	--	--	--	--	
Shiawassee	--	--	0.4	0.4	0.8	--	--	1.2	1.1	2.3	
Tuscola	--	--	0.5	1.7	2.1	--	--	0.8	5.2	6.0	
Van Buren	1.8	--	2.9	3.9	8.6	4.6	--	6.7	11.5	22.8	
Washtenaw	--	--	1.4	5.7	7.1	--	--	2.8	17.0	19.9	
Wayne	--	--	0.1	0.8	0.9	--	--	--	3.7	3.7	
Total	2.0	0.0	20.6	33.0	55.7	5.1	--	47.7	100.8	153.7	
All counties	47.7	45.4	135.7	134.5	363.4	67.4	92.5	227.9	334.5	722.3	

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.

(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					

Doyle rule.