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2006 Silvicultural Activities Report

including Annual Report on Clearcutting and Precommercial Activities

Compiled from the 2006 Landowner Reports and other survey instruments. Data collected under the provisions of Title 12 MRSA §8885 and §8878-A

Published: August 15, 2007



Department of Conservation

Maine Forest Service

Forest Policy and Management Division

#22 SHS, Augusta, ME 04333

(207)287-2791 OR 1-800-367-0223(instate)

www.maineforestservice.gov; www.bewoodswise.org

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Printed under appropriation 010-04A-5400-552

Report Highlights

Harvesting and Land Use Changes

- **321,554** acres were harvested in 2006, a 2% decrease from 532,285 acres in 2005.
- 496,446 acres were "partially harvested" (partial and shelterwood totals) in 2006, 2% decrease from 504,767 acres in 2005.
- The number of harvests reported increased slightly from 5,498 to 5,547 harvests.

Clearcutting:

- 1. The total area clearcut decreased, from 21,278 acres in 2005 to 18,704 acres in 2006. Clearcutting amounts to less than 5% of total harvested acres.
- 2. Landowners owning more than 100,000 acres in Maine created 88% of all clearcuts (16,479 acres).
- 3. Average clearcut size in 2006 was 21 acres. Landowners owning more than 100,000 acres had an average clearcut size of 22 acres. Landowners owning less than 100,000 acres had an average clearcut size of 14 acres. Two clearcuts larger than 75 acres were created in 2006.
- 4. The primary silvicultural reason for clearcutting reported by large landowners were the removal of poor quality, intolerant, under stocked, short lived or mature overstories where the retention of the residual overstory trees is not justified for further increase in value, as a source of seed, or for protection of the new stand.

Land Use Changes:

Harvesting to convert land from forest management to some other land use increased 3% from 6,240 acres in 2005 to 6,403 acres in 2006.

Precommercial Silvicultural Activities

Herbicide Use:

- For site preparation decreased 83%, from 837 acres in 2005 to 142 acres in 2006.
- To release crop trees from competing vegetation did not significantly change, from 11,530 acres in 2005 to 11,528 acres in 2006.

Timber Stand Improvement (TSI):

Precommercial thinning of young stands with spacing saws decreased 32%, from 14,358 acres in 2005 to 9,709 acres in 2006. 85% of this activity was done by landowners owning more than 100,000 acres.

Planting:

Tree planting decreased, from 7,545 acres in 2005 to 4,040 acres in 2006. 94% of the planting was by landowners owning more than 100,000 acres.

Forester Involvement

In 2006, licensed foresters supervised harvesting on 374,389 acres, compared to 365,974 acres in 2005.

72% of all harvest acres in 2006 had a licensed forester involved; the same as 2005.

Licensed Forester supervision on small woodlots (<= 100 acres) increased to 28% between 2005 and 2006.

2006 Harvesting and Land Use Changes

Commercial Harvest Information by Lando	wner Size and Tyne			Shelterwood			Land Use Change	Total Harvest
OwnershipType	Ownership Size	Partial Harvests	Initial or Intermediate Entry	Final Entry	Total Shelterwood			
Forest Industry Woodlands	1 to 100 acres	285	4	0	4	0	33	322
	101 to 1,000 acres	587	0	0	0	0	0	587
	1,001 to 100,000 acres	3,704	791	1,167	1,958	461	64	6,187
	100,000 + acres	27,087	15,172	22,593	37,765	7,015	0	71,867
	SubTotal	31,663	15,967	23,760	39,727	7,476	97	78,963
Investor Timberlands	1 to 100 acres	0	0	0	0	0	0	0
	101 to 1,000 acres	0	0	0	0	0	0	0
	1,001 to 100,000 acres	2,117	1,068	834	1,902	200	0	4,219
	100,000 + acres	17,751	79,873	57,079	136,952	9,292	424	164,419
	SubTotal	19,868	80,941	57,913	138,854	9,492	424	168,638
Non-Industrial Land	1 to 100 acres	45,736	2,331	2,640	4,971	254	2,667	53,628
	101 to 1,000 acres	61,980	3,876	8,253	12,129	307	2,045	76,461
	1,001 to 100,000 acres	53,891	6,788	12,103	18,891	753	900	74,435
	100,000 + acres	36,513	4,923	11,572	16,495	130	200	53,338
	SubTotal	198,120	17,918	34,568	52,486	1,444	5,812	257,862
Other Woodlands (Govt, etc.)	1 to 100 acres	157	15	42	57	0	18	232
	101 to 1,000 acres	1,488	107	24	131	0	38	1,657
	1,001 to 100,000 acres	3,586	606	366	972	251	12	4,821
	100,000 + acres	7,701	654	982	1,636	42	2	9,381
	SubTotal	12,932	1,382	1,414	2,796	293	70	16,091
2006 Totals:		262,583	116,208	117,655	233,863	18,704	6,403	521,554
Percent of 2006 Harvest:		50.35%	22.28%	22.56%		3.59%	1.23%	100.00%
2005 Totals:		282,751	95,413	126,603	222,016	21,278	6,240	532,285
Percent Change from 2005 to 2006:		-7%	22%	-7%	5%	-12%	3%	-2%

2006 Precommercial Activities and Professional Assistance

				ercial Activities ner Size and Ty			Licensed Forester Involvement by Landowner Size and Type		
				Acres	The Wall State	Number			
OwnershipType	Ownership Size	Herbicio Site Prep		TSI	Tree Planting	of Reported	Number of Harvests	Total Acres	
Forest Industry Woodlands	1 to 100 acres	0	0	0	0	13	1	40	
	101 to 1,000 acres	0	0	3	0	16	2	75	
	1,001 to 100,000 acres	0	0	0	0	57	43	5,144	
	100,000 + acres	0	7,560	5,453	3,038	142	146	54,690	
	Subtotal	0	7,560	5,456	3,038	228	192	59,949	
Investor Timberlands	1 to 100 acres	0	0	0	0	0	0	0	
	101 to 1,000 acres	0	0	0	0	0	0	0	
	1,001 to 100,000 acres	0	0	394	46	21	19	4,179	
	100,000 + acres	80	2,076	2,437	748	306	281	148,832	
	Subtotal	80	2,076	2,831	794	327	300	153,011	
Non-Industrial Land	1 to 100 acres	0	30	349	53	2,651	613	14,935	
	101 to 1,000 acres	62	12	349	124	1,620	552	29,518	
	1,001 to 100,000 acres	0	1,850	368	21	430	287	52,546	
	100,000 + acres	0	0	356	0	136	124	50,012	
	Subtotal	62	1,892	1,422	197	4,837	1,576	147,011	
Other Woodlands (Govt, etc.)	1 to 100 acres	0	0	0	0	15	5	82	
	101 to 1,000 acres	0	0	0	10	43	28	1,205	
	1,001 to 100,000 acres	0	0	0	0	44	34	3,750	
	100,000 + acres	0	0	0	0	53	53	9,381	
	Subtotal	0	0	.0	10	155	120	14,418	
2006 Totals:		142	11,528	9,709	4,040	5,547	2,188	374,389	
2005 Totals:	837	11,530	14,358	7,545	5,498	2,156	365,973		
Change from 2005 to 2006:	-83%	0%	-32%	-46%	1%	1%	2%		

Definitions:

Ownership Type Forest Industry Land: Woodlands owned by a forest products industry; usually most of the wood harvested is used by that industry.

Investor Timberlands Woodlands owned by organizations, including Timberland Investment Management Organizations (TIMOs) and Real Estate Investment

Trusts (REITs) that hold timberland assets as fiduciaries for the benefit of others.

Non-Industrial Land: Woodlands privately owned but NOT by a forest industry. These include private individuals and other non-forest product industries.

Other woodlands: Woodlands owned by other entities not listed above -- including local, state, federal, or tribal governments.

Types of Harvests Partial Harvest: Harvest where trees are removed individually or in small (<5 acre) patches.

Shelterwood: Harvest of mature trees from a forest site in two or more stages. The first stage removes only a portion of the trees to allow

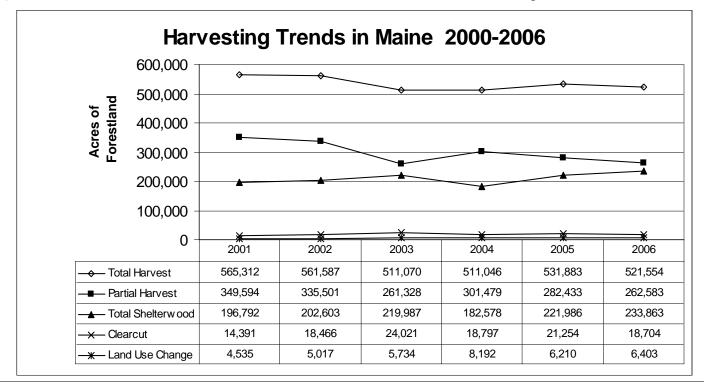
establishment of regeneration before the remaining trees are removed in subsequent harvest.

Clearcut: Harvest on a site larger than 5 acres that results in a residual basal area of acceptable growing stock trees >4.5" DBH of less than 30

square feet per acre, unless after harvesting the site has a well-distributed stand of acceptable growing stock 3 feet tall for softwood and 5 feet for hardwoods (Overstory Removal). Refer to the latest copy of the Maine Forest Practices Act, Maine Forest Service Rules

Chapter 20 for additional information.

Change of Land Use: Harvest conducted to convert forestland to another land use such as house lots, farm pastures, etc.



2006 Annual Report on Clearcutting and Precommercial Activities

Compiled from the 2006 Landowner Reports and other survey instruments. Data collected under the provisions of the Forest Resources Assessment Program, 12 MRSA § 8878-A

	Large Landowners (own >100,000 acres)									All Other Landowners				All	
	Precom Activ	mercial vities	Clearcu	its > 75	luowners	Purp	ose for Cle	arcut					eres		Landowners
	Ac	res					_	res					Clea	rcut	Acres
County	TSI	Planted	#	Acres	1	2	3	4	Sub Total	Avg. Size	TSI	Planted	Sub Total	Avg. Size	Clearcut
Androscoggin	0	0	0	0	0	0	0	0	0	0	58	0	0	0	0
Aroostook	3,883	3,060	0	0	7,134	13	192	0	7,339	25	239	15	197	15	7,536
Cumberland	0	0	0	0	0	0	0	0	0	0	27	5	20	20	20
Franklin	231	50	0	0	484	0	98	0	582	25	90	0	343	15	925
Hancock	0	0	0	0	97	0	0	0	97	24	52	4	68	10	165
Kennebec	0	0	0	0	0	0	0	0	0	0	15	1	80	20	80
Knox	0	0	0	0	0	0	0	0	0	0	2	0	5	5	5
Lincoln	0	0	0	0	0	0	0	0	0	0	6	20	15	8	15
Oxford	500	0	0	0	144	0	108	0	252	19	258	5	53	11	305
Penobscot	689	0	0	0	134	0	0	0	134	15	79	18	274	17	408
Piscataquis	803	17	2	355	545	0	1,735	0	2,280	18	24	85	163	12	2,443
Sagadahoc	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0
Somerset	1,784	659	0	0	5,145	0	634	0	5,779	22	441	62	259	16	6,038
Waldo	0	0	0	0	0	0	0	0	0	0	25	16	53	13	53
Washington	356	0	0	0	0	0	10	5	15	8	25	3	670	13	685
York	0	0	0	0	0	0	0	0	0	0	112	20	26	7	26
State Total:	8,246	3,786	2	355	13,683	13	2,777	5	16,478	22	1,463	254	2,226	14	18,704

Purposes for creating clearcut:

- 1. Removal of poor quality, intolerant, under stocked, short lived or mature overstories where the retention of the residual overstory trees is not justified for further increase in value, as a source of seed, or for protection of the new stand.
- 2. Ecologically appropriate improvement or creation of wildlife habitat.
- 3. Removal of stands that, if partially harvested according to accepted silvicultural practice, are at high risk for windthrow due to factors such as soils, rooting depth, crown ratio or stem quality.
- 4. Harvesting of an existing plantation or other forest stand established by or previously treated with precommercial silvicultural activities.

Frequency Distribution of Clearcutting for Large Landowners who own more than 100,000 acres

2006 Clearcut as

percent of statewide ownership	# of Landowners	Clearcut Acres
0% - 0.001%	8	15
0.001%-0.25%	11	9,091
0.26%-0.75%	2	7,373
0.76%-1.00%	0	0