2000 Silvicultural Activities Report

including Annual Report on Clearcutting

Compiled from the 2000 Landowner Reports and other survey instruments. Data collected under the provisions of Title 12 MRSA §8885 and §8878-A

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Report Highlights

Timber Harvesting:

The total area harvested has increased 5%, from 537,333 acres in 1999 to 566,685 acres in 2000.

The total area partially harvested increased 6%, from 513,212 acres in 1999 to 546,956 acres in 2000.

Clearcutting:

The total area clearcut decreased by 26%, from 18,754 acres in 1999 to 13,838 acres in 2000.

The total area clearcut in 2000 is the lowest since data collection began in 1982.

Clearcutting made up 2.5% of the total harvesting acres in 2000.

The average size clearcut in 2000 was 21 acres statewide. Landowners owning more than 100,000 acres had an average clearcut size of 24 acres. Landowners owning less than 100,000 acres had an average clearcut size of 12 acres.

Landowners owning more than 100,000 acres in Maine created 85% of all clearcuts (11,781 acres). 98% of these clearcuts were smaller than 75 acres. The highest rate of clearcutting for an individual landowner was 0.6% of total statewide ownership.

The dominant silvicultural reason for clearcutting, reported by the large landowners, was for areas 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 primary land use increased 1% from 5,367 to 5,891 acres.

Herbicide Use:

For site preparation decreased 61%, from 2,469 acres to 962 acres.

To release crop trees from competing vegetation decreased 17%, from 28,906 acres to 24,091 acres.

Timber Stand Improvement (TSI):

Thinning of young stands with saws increased 41%, from 17,486 acres to 24,590 acres. 87% of this activity was done by landowners owning more than 100,000 acres.

Planting:

Tree planting decreased 12%, from 12,859 acres to 11,341 acres. 95% of the planting was by landowners owning more than 100,000 acres. The predominant species planted was spruce.

Professional Assistance:

The harvest acres supervised by licensed foresters increased 15%, from 368,403 acres to 424,426 acres. 75% of all harvest acres in 2000 had a licensed professional forester involved.

*Footnote:

The revised Maine Forest Service Rules - Chapter 20: Forest Regeneration and Clearcutting Standards that took effect in October 1999 require 60 days preharvest notification on-site review by Maine Forest Service staff for any clearcut proposed to exceed 75 acres. The clearcuts reported in 2000 that exceed 75 acres in 2000 were notified and beguinder the old Chapter 20 Rules.

2000 Harvesting and Land Use Changes

Commercial Harvest Information by Lando	<u>Acres</u>							
00111101 0111 1 000 1111 01 1111 01 01	owner size and Type				Land Use	Total		
OwnershipType*	Ownership Size	Selection	Shelterwood	Clearcut	Change	Harvest		
Forest Industry Land	1 to 100 acres	110	0	0	0	110		
	101 to 1,000 acres	9,170	1,539	51	27	10,787		
	1,001 to 100,000 acres	30,040	4,181	1,022	85	35,328		
	100,000 + acres	55,123	84,462	9,786	263	149,634		
	SubTotal	94,443	90,182	10,859	375	195,859		
Institutional Investor Timberlands	1 to 100 acres	0	0	0	0	0		
	101 to 1,000 acres	0	0	0	0	0		
	1,001 to 100,000 acres	1,148	480	0	0	1,628		
	100,000 + acres	37,410	53,756	1,907	0	93,073		
	SubTotal	38,558	54,236	1,907	0	94,701		
Non-Industrial Land	1 to 100 acres	56,978	7,628	402	3,262	68,270		
	101 to 1,000 acres	76,707	13,213	226	1,627	91,773		
	1,001 to 100,000 acres	61,014	5,055	229	363	66,661		
	100,000 + acres	10,512	21,649	88	0	32,249		
	SubTotal	205,211	47,545	945	5,252	258,953		
Other woodlands (Govt, etc.)	1 to 100 acres	362	62	0	54	478		
	101 to 1,000 acres	1,367	41	70	111	1,589		
	1,001 to 100,000 acres	2,041	1,090	57	84	3,272		
	100,000 + acres	9,485	2,333	0	15	11,833		
	SubTotal	13,255	3,526	127	264	17,172		
2000 Totals:		351,467	195,489	13,838	5,891	566,685		
Percent of 2000 Harvest:		62.02%	34.50%	2.44%	1.04%	100.00%		
1999 Totals:		368,355	144,857	18,754	5,367	537,333		
Percent Change from 1999 to 2000:		-5%	35%	-26%	10%	5%		

2000 Precommercial Activities and Professional Assistance

		b		nercial Activition		Licensed Professional Forester Use by Landowner Size and Type				
				Acres		Landowner	Forester Involved			
OwnershipType*	Ownership Size	Herbicide Use Site Prep Release		TSI	Tree Planting	Reports Received	Number of Harvests	Total		
Forest Industry Land	1 to 100 acres	0	0	0	0	2	1	Acres 100		
	101 to 1,000 acres	0	0	265	3	188	53	3,596		
	1,001 to 100,000 acres	5	448	311	298	158	115	23,467		
	100,000 + acres	645	17,550	18,568	9,753	319	316	146,271		
	Subtotal	650	17,998	19,144	10,054	667	485	173,434		
Institutional 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	0	0	7	5	1,258		
	100,000 + acres	98	5,843	1,655	986	122	119	91,593		
	Subtotal	98	5,843	1,655	986	129	124	92,851		
Non-Industrial Land	1 to 100 acres	10	25	1,046	72	3,061	817	19,638		
	101 to 1,000 acres	4	0	1,180	182	1,872	767	37,003		
	1,001 to 100,000 acres	200	200	305	21	314	239	58,870		
	100,000 + acres	0	0	1,075	0	111	108	31,849		
	Subtotal	214	225	3,606	275	5,358	1,931	147,360		
Other woodlands (Govt, etc.)	1 to 100 acres	0	0	1	0	17	9	231		
	101 to 1,000 acres	0	25	165	20	39	30	1,334		
	1,001 to 100,000 acres	0	0	15	6	42	33	2,983		
	100,000 + acres	0	0	4	0	40	37	6,233		
	Subtotal	0	25	185	26	138	109	10,781		
2000 Totals:		962	24,091	24,590	11,341	6,292	2,649	424,426		
1999 Totals:		2,469	28,906	17,486	12,859	6,954	2,346	368,403		
Change from 1999 to 2000:		-61%	-17%	41%	-12%	-10%	13%	15%		

Definitions:

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

Institutional Investor Timberlands Woodlands owned by organizations that hold 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 a governmental entity -- local, state, federal, or tribal governments.

Types of Harvests Selection:

Selection: Harvest method where trees are removed individually or in small (<5 acre) patches.

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

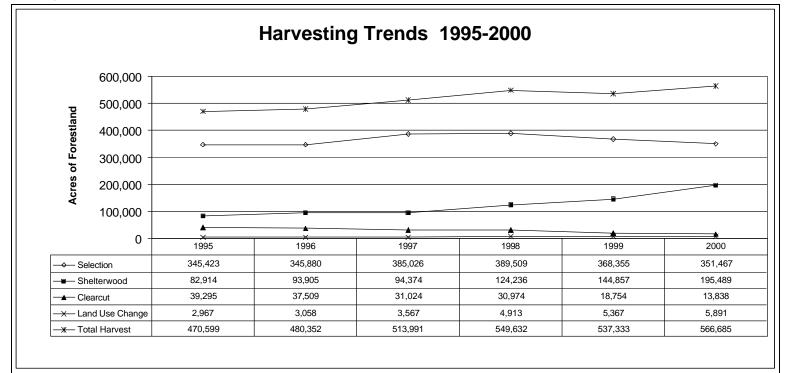
establishment of regeneration before the remaining trees are removed in subsequent harvest.

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

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

20 for additional information.

Change of Land Use. the land use after harvest does not include growing forest products.



2000 Annual Report on Clearcutting

Compiled from the 2000 Landowner Reports and 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		
Precommercial Clearcuts > 75 Activities acres in size			Purpose for Clearcut (see explanation below)					<u>Acres</u>			Landowners				
	Ac	res					<u> </u>	cres					Clear	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	7	6	0	0	0
Aroostook	11,960	4,636	0	0	4,203	0	149	0	4,352	21	856	176	209	11	4,561
Cumberland	0	0	0	0	0	0	0	0	0	0	66	0	70	12	70
Franklin	378	377	0	0	986	0	0	0	986	31	231	9	54	8	1,040
Hancock	980	645	0	0	472	0	0	0	472	39	251	35	105	18	577
Kennebec	0	0	0	0	0	0	0	0	0	0	111	3	41	10	41
Knox	0	0	0	0	0	0	0	0	0	0	0	5	45	11	45
Lincoln	0	0	0	0	0	0	0	0	0	0	133	4	81	9	81
Oxford	0	716	0	0	1,303	0	126	0	1,429	19	594	105	89	7	1,518
Penobscot	728	863	2	174	1,021	0	0	0	1,021	24	355	31	154	12	1,175
Piscataquis	4,434	1,695	0	0	578	12	153	0	743	26	123	140	55	9	798
Sagadahoc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Somerset	1,646	1,119	0	0	1,620	0	684	0	2,304	32	202	26	747	13	3,051
Waldo	0	0	0	0	0	0	0	0	0	0	164	59	244	20	244
Washington	1,176	688	0	0	469	0	5	0	474	34	121	0	148	11	622
York	0	0	0	0	0	0	0	0	0	0	74	5	15	8	15
State Total:	21,302	10,739	2	174	10,652	12	1,117	0	11,781	24	3,288	602	2,057	12	13,838

Purposes for creating clearcut:

- Removal of poor quality, intolerant, under stocked, short lived or mature overstories where the retention
 the residual overstory trees is not justified for further increase in value, as a source of seed, or for protect
 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 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.

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Frequency Distribution of Clearcutting for Large Landowners who own more than 100,000 acres									
	00 Clearcu ent of state ownership	wide_	# of Land	<u>owners</u>	Clear	rcut Acres			
(0.0019	/ o	13		0				
0.	.001%-0.25	0/0	10		5,587				
0.26%-0.75%			2		6,194				
0	.76%-1.00	%	0			0			