

# 1998 Silvicultural Activities Report

Compiled from the **1998** Landowner Reports

*Data collected under the provisions of  
Title 12 MRSA §8885  
August 5, 1999*

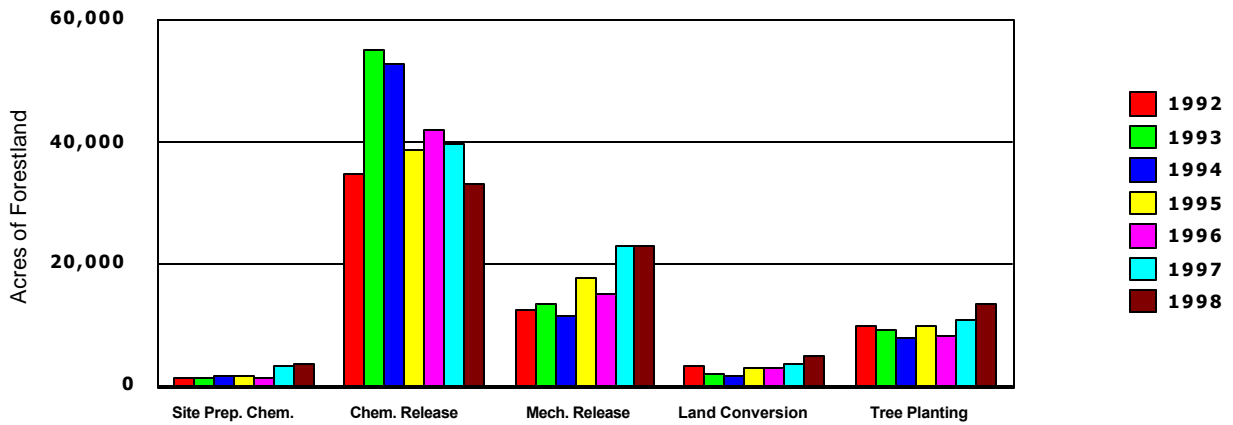


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# 1998 Report on Silvicultural and Harvesting Practices

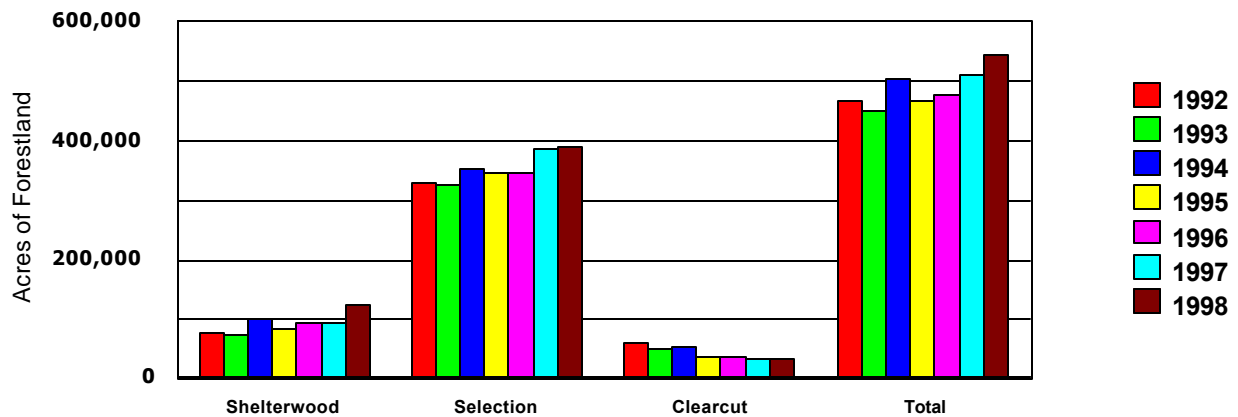
	1998			Total 1998	1997 (Corrected)	
	Ownership 1-1000	Acreage class 1001-5000	5000+		Total 1997	%change 1997-1998
<b>Forestland Ownership: Number of Landowner Reports</b>						
Forest Industry	18	19	445	482	466	3%
Private	5,954	239	366	6,559	5,146	27%
Other	<u>47</u>	<u>9</u>	<u>55</u>	<u>111</u>	<u>100</u>	11%
Total	6,019	267	866	7,152	5,712	25%
<b>Pre-Commercial Activities (acres)</b>						
<b>Timber Stand Improvement (TSI)</b>						
TSI Mechanical	6,543	96	16,413	23,052	23,113	-0.3%
Herbicide Treatments						
Site Preparation	203	0	3,738	3,941	3,264	21%
Release	<u>135</u>	<u>0</u>	<u>33,070</u>	<u>33,205</u>	<u>39,716</u>	-16%
Total	338	0	36,808	37,146	42,980	-14%
	0.91%	0.00%	99.09%	100%		
<b>Tree Planting</b>						
(AS REPORTED ON LANDOWNER REPORTS ONLY)	3,355	85	10,185	13,625	10,830	26%
<b>Land Use Conversion</b>						
Change to other use	4,254	426	233	4,913	3,567	38%
<b>Harvesting Activities (acres)</b>						
<b>Partial Cut Methods</b>						
Shelterwood cuts	15,290	1,969	106,905	124,164	94,374	32%
Selection or Partial cuts	169,393	22,892	194,912	387,197	385,026	1%
Total Acres	<u>184,683</u>	<u>24,861</u>	<u>301,817</u>	<u>511,361</u>	<u>479,400</u>	7%
	36%	5%	59%	100%		
<b>Clearcutting Methods</b>						
Total acres	<u>3,741</u>	<u>896</u>	<u>26,302</u>	<u>30,939</u>	<u>31,024</u>	-0.3%
	12%	3%	85%	100%		
<b>Total Harvest, by acres</b>						
Total Acres	<u>188,424</u>	<u>25,757</u>	<u>328,119</u>	<u>542,300</u>	<u>510,424</u>	6%
	35%	5%	61%	100%		
<b>Distribution of partial and clearcut, by percentage</b>						
Partial cut methods	98%	97%	92%	94%	94%	
Clearcut methods	<u>2%</u>	<u>3%</u>	<u>8%</u>	<u>6%</u>	<u>6%</u>	
Total	100%	100%	100%	100%	100%	
<b>Forester Supervision (acres)</b>						
Amount of total harvest with Forester involved	<u>58,444</u>	<u>15,291</u>	<u>310,272</u>	<u>384,007</u>	<u>373,893</u>	
% Forester supervision	31%	59%	95%	71%	73%	

### Silvicultural Trends 1998 Silvicultural Report



	Site Prep. Chem.	Chem. Release	Mech. Release	Land Conversion	Tree Planting
<b>1992</b>	1,342	34,962	12,636	3,296	10,109
<b>1993</b>	1,340	55,385	13,385	2,201	9,382
<b>1994</b>	1,950	52,939	11,651	1,944	7,825
<b>1995</b>	1,880	38,926	17,826	2,967	9,695
<b>1996</b>	1,443	41,977	15,109	3,058	8,325
<b>1997</b>	3,264	39,716	23,113	3,567	10,830
<b>1998</b>	3,941	33,205	23,052	4,913	13,625

### Harvesting Trends 1998 Silvicultural Report



	Shelterwood	Selection	Clearcut	Total
<b>1992</b>	78,888	328,488	59,602	466,978
<b>1993</b>	75,267	323,476	51,253	449,996
<b>1994</b>	97,654	353,176	53,762	504,592
<b>1995</b>	82,914	345,423	39,295	467,632
<b>1996</b>	93,905	345,880	37,509	477,294
<b>1997</b>	94,374	385,026	31,024	510,424
<b>1998</b>	124,164	387,197	30,939	542,300

# 1998 Silvicultural Activities Report

The information contained in this report represents forest management activities that occurred between January 1 and December 31, 1998 according to forest *landowner reports* filed with the Maine Forest Service (MFS) for 1998.

All landowners who conduct a timber harvesting operation must file a *Forest Operations Notification of intent to harvest forest products, construct land management roads, and/or establish water crossings* before beginning the operation. Following receipt of the notification each landowner is sent a form on which to report their management activities.

Activities in the forest affect everyone. These activities supply resources to build homes, provide furniture, supply paper products, provide wildlife habitat and recreation, reduce fire danger, improve aesthetics, and protect valuable soils and clean water.

## Highlights

- The total area harvested increased by 6%, from 510,424 acres in 1997 to 542,300 acres in 1998. The total area clearcut decreased by .3% while partial cuts increased by 7%.
- The use of herbicides to release competing vegetation decreased from 39,716 acres (in 1997) to 33,205 acres (in 1998) – a decrease of 16%. Herbicide used for site preparation increased by 21% to 3,941 acres.
- Mechanical thinning – using saws– decreased slightly from 23,113 to 23,052 acres.
- Land Use Conversion, changing from forest management to some other primary land use, increased 38% to 4,913 acres.
- Tree planting as reported here, is only from those owners who filed a landowner report. Plantings done on locations where the landowner harvested no wood are not required to be reported.

## Notes & Definitions

- **Forestland Ownership**
  - ◆ **Forest industry.** Land owned by a forest products industry; usually most of the wood harvested is used by that industry.
  - ◆ **Private.** Private ownership but NOT by a forest industry. This includes lands of other industries that are not forest industries.
  - ◆ **Other.** Lands owned by a government entity -- municipal, county, or state, quasi-public lands, etc.

- **Timber Stand Improvement.** Timber Stand Improvement (TSI) - "TSI" is pre-commercial thinning or weeding of young stands to improve the growing conditions for the residual crop. In a TSI procedure there are no, or very few, commercial forest products harvested. This report shows the number of acres thinned or weeded using mechanical means (saws, axes, etc.).
- **Change of (land) Use** Change of land use for a particular area means that following timber harvesting the subsequent use does not include growing *forest products*. Such change of use includes but is not limited to the following: farm pasture, site for growing agricultural crops, residential dwelling unit, development site. The division of forestland into smaller units does not constitute a change of land use.
- **Forest products** means logs, pulpwood, veneer, boltwood, wood chips, stud wood, poles, pilings, biomass fuelwood, fuelwood or other products commonly known as forest products, but does not include Christmas trees, maple syrup, nursery products used for ornamental purposes, wreaths, bough material, cones or other seed crops.
- **Types of harvest**
  - ◆ **Partial harvest.** All harvest systems except clearcut harvest.
    - **Selection system.** A selection cutting system is a method where trees are removed individually or in small groups from a harvest site. Diameter limit harvests (all trees above a certain diameter are harvested) are recorded on this line also.
    - **Shelterwood system.** A shelterwood cutting system is a method of harvesting mature timber 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 harvests.
  - ◆ **Clearcut harvest.** Clear-cut means any timber harvesting on a forested site greater than 5 acres in size which, over a 10 year, period results in an average residual basal area of trees over 6 inches in diameter of less than 30 square feet per acre, unless one or both of the following conditions exist: A. If, after harvesting, the average residual basal area of trees over 1 inch in diameter measured at 4.5 feet above the ground is 30 square feet per acre or more, a clear-cut does not occur until the average residual basal area of trees 6 inches or larger measured at 4.5 feet above the ground is less than 10 square feet per acre; or B. After harvesting, the site has a well-distributed stand of trees at least 5 feet in height, that meets the regeneration standards applicable under 12 MRSA, c. 805, §8869, subsection 1.