MAINE STATE LEGISLATURE

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2016 Silvicultural Activities Report

including Annual Report on Clearcutting and Precommercial Activities

Compiled from the 2016 Landowner Reports and other survey instruments.

Data collected under the provisions of 12 MRS §8885

Published: September 13, 2017



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Printed under appropriation 010-01A-5416-52

Report Highlights

Harvesting and Land Use Change

- **344,210** acres were harvested in 2016, a decrease of 14% from 401,213 acres in 2015.
- ■319,817 acres were partially harvested (partial and shelterwood totals) in 2016, a 14% decrease from 372,383 acres in 2015.
- The number of harvests reported decreased from 5,432 to 4,642.

Clearcutting:

- 1. The total area clearcut decreased, from 25,083 acres in 2015 to 20,971 acres in 2016. Clearcutting amounted to 6.1% of total harvested acres.
- 2. Landowners owning more than 100,000 acres in Maine created 92% of all clearcut acreage (19,283 acres).
- 3. Average clearcut size in 2016 was 32 acres. Landowners owning more than 100,000 acres had an average clearcut size of 36 acres. Landowners owning less than 100,000 acres had an average clearcut size of 14 acres. 16 clearcuts larger than 75 acres were created in 2016.
- 4. The primary silvicultural reason for clearcutting reported by large landowners was 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 decreased 9% from 3,747 acres in 2015 to 3,422 acres in 2016.

Precommercial Silvicultural Activities

Herbicide Use:

- Site preparation increased 15%, from 1,957 acres in 2015 to 2,247 acres in 2016.
- To release crop trees from competing vegetation increased 31%, from 10,273 acres in 2015 to 13,464 acres in 2016.

Timber Stand Improvement (TSI):

Precommercial thinning of young stands with spacing saws decreased 70%, from 12,212 acres in 2015 to 3,724 acres in 2016. 76% of the acreage was done by landowners owning more than 100,000 acres (2,818 acres).

Planting:

Tree planting decreased 2%, from 6,820 acres in 2015 to 6,677 acres in 2016.

99% of the planting acreage was by landowners owning more than 100,000 acres (6,592 acres).

Forester Involvement

In 2016, licensed foresters supervised harvesting on 259,615 acres, compared to 295,335 acres in 2015.

75% of all harvest acres in 2016 had a licensed forester involved; an increase from 2015 (74% involvement).

Licensed Forester supervision occurred on 32% (721 out of 2,240 harvests) of the harvests on non-industrial family forests (<= 100 acres) in 2016. This is the same percentage as in 2015 (843 out of 2,650 harvests).

2016 Harvesting Activities

					Acres			
Commercial Harvest Information by Lando	wner Size and Tyne			Shelterwood	l			
OwnershipType	Ownership Size	Partial Harvests	Initial or Intermediate Entry	Final Entry	Total Shelterwood	Clearcut	Land Use Change	Total Harves
Forest Industry Woodlands	1 to 100 acres	0	0	0	0	0	12	12
	101 to 1,000 acres	240	0	0	0	0	0	240
	1,001 to 100,000 acres	6,083	863	171	1,034	34	_	7,151
	100,000 + acres	13,875	12,884	18,712	31,596	6,432	~	51,907
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	SubTotal	20,198	13,747	18,883	32,630	6,466	16	59,310
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	549	323	2,236	2,559	0	166	3,274
	100,000 + acres	13,529	4,060	23,206	27,266	5,792	4 16 0 0 166 72 238 1,398 986 605 0 2,989 46	46,659
	SubTotal	14,078	4,383	25,442	29,825	5,792	238	49,933
Non-Industrial Land	1 to 100 acres	41,747	2,149	4,651	6,800	527		50,472
	101 to 1,000 acres	46,443	4,258	5,261	9,519	459	986	57,407
	1,001 to 100,000 acres	27,610	3,285	7,326	10,611	555	605	39,381
	100,000 + acres	17,463	17,648	30,482	48,130	6,870	0	72,463
	SubTotal	133,263	27,340	47,720	75,060	8,411	2,989	219,723
Other Woodlands (Govt, etc.)	1 to 100 acres	350	15	12	27	0	46	423
	101 to 1,000 acres	1,226	180	0	180	113	38	1,557
	1,001 to 100,000 acres	2,017	709	542	1,251	0	4	3,272
	100,000 + acres	6,852	1,271	1,589	2,860	189	91	9,992
	SubTotal	10,445	2,175	2,143	4,318	302	179	15,244
2016 Totals:		177,984	47,645	94,188	141,833	20,971	3,422	344,210
Percent of 2016 Harvest		51.71%	13.84%	27.36%	41.21%	6.09%	0.99%	100.00%
2015 Totals:		209,286	53,096	110,001	163,097	25,083	3,747	401,213
Percent Change from 2015 to 2016:		-15%	-10%	-14%	-13%	-16%	-9%	-14%

2016 Precommercial Activities and Professional Assistance

		by	y Landowi	ercial Activitiener Size and Ty Acres	ре	01	Licensed Involv by Landowner			
OwnershipType	Ownership Size	Herbicio Site Prep		TSI	Tree Planting	Reported Harvests	Number of Harvests	Total Acres		
Forest Industry Woodlands	1 to 100 acres	0	0	0	0	1	1	12	344,210 401,213	
	101 to 1,000 acres	0	0	0	0	3	0	0		
	1,001 to 100,000 acres	0	0	0	0	35	20	1,915		
	100,000 + acres	0	10,845	1,589	4,079	132	106	51,353		
	Subtotal	0	10,845	1,589	4,079	171	127	53,280		
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	13	13	3,274		
	100,000 + acres	0	918	0	149	139	137	44,535		
	Subtotal	0	918	0	149	152	150	47,809		
Non-Industrial Land	1 to 100 acres	20	12	329	38	2,240	721	19,449		
	101 to 1,000 acres	21	19	536	39	1,263	505	26,713		
	1,001 to 100,000 acres	0	0	0	0	394	289	28,091		
	100,000 + acres	2,204	1,670	1,166	2,364	280	264	70,015		
	Subtotal	2,245	1,701	2,031	2,441	4,177	1,779	144,268		
Other Woodlands (Govt, etc.)	1 to 100 acres	2	0	2	3	22	10	259		
	101 to 1,000 acres	0	0	34	5	42	28	940		
	1,001 to 100,000 acres	0	0	5	0	26	24	3,167		
	100,000 + acres	0	0	63	0	52	50	9,892		
	Subtotal	2	0	104	8	142	112	14,258		
2016 Totals:		2,247	13,464	3,724	6,677	4,642	2,168	259,615		
2015 Totals: Change from 2015 to 2016:		1,957 15%	10,273 31%	12,212 -70%	6,820	5,432 -15%	2,381 -9%	295,335 -12%	401,213	_

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

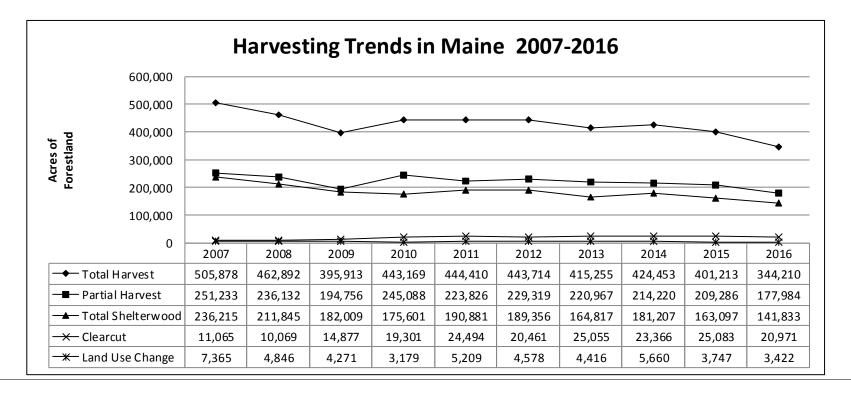
allow establishment of regeneration before the remaining trees are removed in subsequent harvest.

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 Service Rules Chapter 20 for additional

information. It can be found on the Maine Forest Service website at http://www.state.me.us/doc/mfs/rules_regs/index.htm

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



2016 Annual Report on Clearcutting and Precommercial Activities

Compiled from the 2016 Landowner Reports and other survey instruments. Data collected under the provisions of the Forest Resources Assessment Program, 12 MRS § 8878-A

		Large Landowners (own >100,000 acres) All Other Landowners											All		
	Precom Acti		uts > 75 in size		Purpose for Clearcut (see explanation below)					Acres				Landowners	
	Ac	eres					<u>A</u>	cres					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	12	0	10	5	10
Aroostook	1,589	4,134	1	89	6,512	5	48	0	6,565	119	199	3	297	17	6,862
Cumberland	0	0	0	0	0	0	0	0	0	0	12	4	44	6	44
Franklin	186	0	7	1,313	989	1,097	879	0	2,965	34	1	10	210	15	3,175
Hancock	0	0	1	219	400	0	0	0	400	100	85	3	289	17	689
Kennebec	0	0	0	0	0	0	0	0	0	0	44	0	80	80	80
Knox	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Lincoln	0	0	0	0	0	0	0	0	0	0	0	0	20	20	20
Oxford	0	57	2	222	750	763	649	0	2,162	23	50	10	103	13	2,265
Penobscot	3	149	1	96	277	0	12	0	289	29	3	20	10	10	299
Piscataquis	392	1,237	1	138	733	0	403	174	1,310	28	232	27	45	9	1,355
Sagadahoc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Somerset	618	997	2	373	5,045	0	53	8	5,106	22	72	4	401	24	5,507
Waldo	0	18	0	0	35	0	0	0	35	35	12	0	113	16	148
Washington	30	0	1	235	330	72	49	0	451	23	78	0	24	12	475
York	0	0	0	0	0	0	0	0	0	0	105	4	42	7	42
State Total:	2,818	6,592	16	2,685	15,071	1,937	2,093	182	19,283	36	906	85	1,688	14	20,971

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.





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