MAINE STATE LEGISLATURE

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2012 Wood Processor Report

Including Import and Export Information

Compiled from 2012 Wood Processor Reports pursuant to 12 M.R.S. § 8884

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What is the purpose of the Wood Processor Report?

Each year, the Maine Forest Service collects information from Maine primary wood processors regarding the volume of wood processed in Maine. Information is also collected for volumes imported into Maine or exported from Maine.

This report summarizes, for 2012, the volume of wood harvested in Maine, processed by Maine mills, and imported into or exported from Maine.

Wood flow data is summarized for sawlogs, pulpwood, biomass chips, other miscellaneous products, and imports and exports.

How was this information collected?

In 2012, the Maine Forest Service received wood processor reports from 126 primary processing mills (sawmills, pulp and paper mills), 37 portable sawmills, 93 firewood dealers, 32 loggers and brokers who may have exported wood, 23 concentration yards, and 6 mills that burn some form of wood for energy. Volume information contained in these individual reports is confidential and by law shall not be made public, except that summary reports may be published using aggregated data which does not reveal the activities of an individual person or firm (12 M.R.S. §8884, sub-§3, "Forest Landowner and Wood Processor Reporting Requirements").

Interpreting Harvest, Export, Import, and Processed by the Maine Forest Products Industry

Maine wood processed

wood that is harvested in Maine and used by a Maine primary processing facility.

Exported from Maine without processing

wood that is harvested in Maine and exported out of state without processing by a Maine mill.

Imported from out of state

wood that is imported from out of state (not harvested in Maine) and processed by a Maine mill.

Total processed by Maine Forest Products Industry

total volume of wood processed in Maine, regardless of origin.

Definitions and Notes

1. Biomass Chips:

produced in the woods by chipping the entire tree, including branches and tops. Usually used as energy fuel, they may also be suitable for sludge composting, playground padding, and mulch.

2. Bole/Stem Pulp Chips:

produced in the woods by chipping the lower portion of the tree. These chips are not free of bark, but are suitable for use in pulp mills.

3. Cords (cds):

a stack of fuel wood, pulpwood, or other material that measures 4 x 4 x 8 feet, or 128 cubic feet.

4. Construction and Demolition Waste (C and D Waste):

ground up wooden debris left over from construction and demolition that is burned by wood to energy facilities.

5. Firewood:

roundwood that is burned for home heating.

6. Hog Fuel:

any woody residue produced from mills, such as sawdust, bark or shavings, and used as energy fuel.

7. Pellets:

wood fuel generally made from dried wood fiber compressed into uniform diameter for burning.

8. Pulpwood:

roundwood that is used for the production of wood pulp. Generally sold as tree length, 16', 8' or 4' len

9. Sawlogs:

a log that meets minimum standards of diameter, length, and defect, intended for sawing into boards or lumber. Includes sawlogs, studwood, pallet logs, boltwood, and veneer logs.

10. Sawmill residues:

clean, pulp-quality chips made from debarked slabs and edgings at sawmills. Used by pulp and paper mills to produce wood pulp.

11. Thousand Board Feet (MBF):

One thousand board feet. One board foot is the amount of wood contained in an unfinished board 1" thick, 12" long, and 12" wide.

Report Highlights

- Maine's forest products industry consumed 15.8 million green ton equivalents in 2012, up from 14.5 million green ton equivalents in 2011. Seventy-nine percent of the processing total (12.5 million green ton equivalents) was harvested in Maine, while 21% (3.3 million green ton equivalents) was imported.
- Maine landowners harvested 14.7 million green ton equivalents of wood in 2012, up from 2011 (13.5 million green ton equivalents). Fifteen percent (2.2 million green ton equivalents) of the 2012 harvest was exported, which is a slight volume increase from 2011 (2.0 million green ton equivalents).
- Maine's pulp and paper producers processed 9.6 million green tons of pulpwood, up 0.6 million tons (6%) from 2011 consumption. Seventy-four percent of the pulpwood originated from Maine's forests; 26% was imported.
- Biomass harvesting volume was 2.36 million tons in 2012, nearly the same as 2011 (2.43 million tons). Biomass energy facilities consumed 2.6 million tons in 2012, up 7% from 2011 (2.5 million tons). Eighty-five percent originated from Maine's forests; 15% was imported.
- Maine's sawlog processing in 2012 was 0.7 billion board feet, up slightly from 2011 (0.6 billion board feet).
- Maine's forest products industry imported 3.3 million green tons during 2012, compared to 3.0 million tons in 2011. 2.2 million green tons were exported in 2012, compared to 2.0 million tons in 2011.

SAWLOGS

2012 Wood flow in Maine as reported to the Maine Forest Service (in MBF)

County	Spruce and Fir	White and Red Pine	Hemlock	Cedar	Other Softwood	Total Softwood	Beech	White Birch	Yellow Birch	Sugar Maple	Red Maple	Oak	Ash	Aspen	Other Hardwood	Total Hardwood	Total Sawlogs
ANDROSCOGGIN	2,803	8,788	391	4	0	11,986	61	155	624	482	316	570	385	26	9	2,628	14,614
AROOSTOOK	81,757	273	235	10,879	198	93,342	67	6,799	6,964	4,887	2,826	18	221	44,168	340	66,290	159,632
CUMBERLAND	1,497	15,481	1,859	0	1	18,838	125	57	107	33	193	310	52	32	2	911	19,749
FRANKLIN	17,528	5,149	168	10	7	22,862	325	1,980	1,033	2,807	899	1,001	689	94	1,457	10,285	33,147
HANCOCK	13,061	3,019	85	316	0	16,481	2	870	227	549	322	250	183	29	774	3,206	19,687
KENNEBEC	1,182	17,959	1,790	5	110	21,046	255	894	246	468	208	1,077	240	56	19	3,463	24,509
KNOX	254	2,975	408	8	0	3,645	0	32	110	242	163	887	77	4	0	1,515	5,160
LINCOLN	422	7,557	1,058	7	0	9,044	6	72	30	53	48	170	57	9	2	447	9,491
OXFORD	14,489	33,581	1,525	1	4	49,600	575	1,892	807	2,423	827	2,476	1,130	117	732	10,979	60,579
PENOBSCOT	49,039	9,319	15,838	3,182	2	77,380	53	2,704	1,657	3,637	364	352	604	269	579	10,219	87,599
PISCATAQUIS	26,442	3,427	1,284	188	49	31,390	720	2,278	3,055	6,067	1,830	905	1,055	15	430	16,355	47,745
SAGADAHOC	90	2,630	240	1	0	2,961	12	2	3	3	16	48	8	2	0	94	3,055
SOMERSET	36,216	12,580	443	394	53	49,686	1,233	3,474	4,457	7,715	1,379	3,266	1,361	59	918	23,862	73,548
WALDO	2,063	6,774	782	181	2	9,802	53	435	129	257	215	1,109	275	288	4	2,765	12,567
WASHINGTON	19,110	1,306	80	540	76	21,112	33	213	223	453	177	292	83	23	625	2,122	23,234
YORK	52	18,451	1,430	0	0	19,933	170	34	15	25	492	1,304	33	2	0	2,075	22,008
Maine wood processed:	266,005	149,269	27,616	15,716	502	459,108	3,690	21,891	19,687	30,101	10,275	14,035	6,453	45,193	5,891	157,216	616,324
Exported from Maine without processing:	212,356	30,170	408	11,126	16	254,076	1,682	1,136	10,919	13,678	3,974	17,024	2,538	448	1,266	52,665	306,741
Total harvested from Maine	478,361	179,439	28,024	26,842	518	713,184	5,372	23,027	30,606	43,779	14,249	31,059	8,991	45,641	7,157	209,881	923,065
forests:	·																
Imported from out of state:	4,307	47,579	913	561	0	53,360	299	8,123	2,676	3,252	3,560	489	65	32,912	15	51,391	104,751
Total processed by Maine Forest Products Industry:	270,312	196,848	28,529	16,277	502	512,468	3,989	30,014	22,363	33,353	13,835	14,524	6,518	78,105	5,906	208,607	721,075

Notes:

- 1. Sawlogs include logs, veneer, boltwood, studwood, palletwood, etc. Green ton converted to MBF @ 5 green tons = 1 MBF.
- 2. Other Softwood includes larch, pitch pine, and others.

PULPWOOD

2012 Wood flow in Maine as reported to the Maine Forest Service (in Green Tons), including both solid wood and bole/stem pulp chips (Totals do not add up due to rounding)

White SAWMILL RESIDUE Other and Red Spruce Other Total Total Mixed Total County Pine Hemlock Cedar Softwood Softwood Hardwood Hardwood Wood Green Tons and Fir Aspen Pulpwood 17,292 56.192 5.589 58.253 0 114,445 10,081 ANDROSCOGGIN 606 31.518 52,664 59,617 AROOSTOOK 72,861 892 36,386 0 443 110,582 46,240 1,129,846 1,176,086 0 1.286,668 312 708 76.874 35.829 120.214 3.670 55.349 59.019 179.233 CUMBERLAND 0 6.803 0 FRANKLIN 50,867 12,489 21 862 3,577 88.795 52,685 273,978 326,663 0 415 458 56,438 29,986 115,732 18,999 145,618 261.350 10,184 HANCOCK 70,807 11,977 0 2,962 126,619 0 KENNEBEC 32,400 16,333 84,997 173,049 10,123 37,291 0 8.238 88,052 68,664 0 0 KNOX 11,211 7,089 3,340 0 947 22,587 3,139 17,413 20,552 0 43,139 LINCOLN 5,415 28,154 12,220 0 4,329 50,118 4,533 26,311 30,844 0 80,962 1,304 OXFORD 46,194 229,341 15,023 0 13,195 303,753 32,059 460,104 492,163 0 795,916 42,932 PENOBSCOT 201,988 243,253 2,817 466,706 68,392 869,066 937,458 0 18,648 0 1,404,164 499,543 539,410 154,730 PISCATAQUIS 108,853 17,616 22,693 0 1,031 150,193 39,867 0 689,603 0 SAGADAHOC 447 10,202 11,616 0 2,582 24 847 2,206 8,886 11 092 0 35 939 22.295 SOMERSET 48,307 55,835 671,568 727,403 132,566 61,126 0 7,262 249,261 0 976,664 WALDO 20,940 37,411 9,607 0 1.365 69 323 11,314 92,788 104,102 0 173 425 9,687 127 WASHINGTON 21,594 57,579 206,946 170,268 187,733 0 394,679 124,706 0 3,067 17,465 YORK 3.377 14,782 59,597 10,314 0 4.579 89,272 4,879 37,760 42,639 0 131.911 Maine wood 873,074 661,819 607,707 69.973 2,212,573 383,205 4,560,827 4,944,032 0 7,156,605 371.084 0 processed: Exported from 191,992 23,678 206,004 4,766 0 28,615 263,063 47,847 430,697 478,544 0 741,607 Maine without processing: **Total harvested** 1,079,078 685,497 612,473 98.588 2,475,636 431,052 4,991,524 5.422.576 0 7.898.212 from Maine 563,076 forests: Imported from 218,828 329,202 149,142 170,331 1,545,108 1,715,439 0 43.040 740,212 0 2,455,651 246,926 out of state: Total processed by 1,091,902 991,021 756,849 113,013 2,952,785 553,536 6,105,935 6,659,471 9,612,256 Maine Forest 618.010 **Products Industry:**

Sawmill residues are clean, pulpquality wood chips made from slabs and edgings at sawmills. The volume is reported here as an additional input to the pulp and paper mills and pellet mills. Sawmill residues are a byproduct of the sawing process, and are not included as additional harvest volumes from Maine's forests.

Pulpwood Notes:

- Other Softwood is comprised of bole chips of which specific species information was not collected.
- 2. Aspen volumes are based upon pure loads.
- Other Hardwood is comprised of all hardwood species except aspen sold in pure loads.

2012 Wood Flow in Maine as reported to the Maine Forest Service (in Green Tons)

		Further utilization of wood already tallied.	C AND D	FIREWOOD / PELLET*	
County	BIOMASS CHIPS	HOG FUEL	WASTE	CORDS	
Androscoggin	167,081	32,899	28,504	4,556	
Aroostook	250,935	144,868	0	7,268	
Cumberland	109,348	18,308	9,382	1,907	
Franklin	188,057	89,139	244	21,975	
Hancock	112,586	5,613	0	2,803	
Kennebec	110,974	6,334	2,461	3,574	
Knox	39,584	609	66	624	
Lincoln	51,035	2,532	2,697	5,446	
Oxford	135,935	132,321	684	13,493	
Penobscot	335,127	105,364	899	12,003	
Piscataquis	114,830	77,898	959	17,916	
Sagadahoc	14,001	639	602	434	
Somerset	222,478	92,896	194	33,660	
Statewide*	0	0	0	6,769	
Waldo	92,620	12,432	0	7,344	
Washington	148,999	7,947	0	2,622	
York	141,495	14,129	4,398	3,542	
Maine wood processed:	2,235,085	743,928	51,090	145,936	
Exported from Maine without processing:	120,049	146,341	0	0	
Total harvested from Maine Forests:	2,355,134	890,269	51,090	145,936	
Imported from out of state:	380,846	465,666	64,498	215	
Total processed by Maine Forest Products Industry:	2,615,931	1,209,594	115,588	146,151	

^{*}Volumes reported with no indication of originating county were identified as Statewide volume.

Wood Imports and Exports

Import Origins	Export Destinations
States:	States:
Connecticut	Massachusetts
Massachusetts	Michigan
New Hampshire	New Hampshire
New York	New York
Rhode Island	Rhode Island
Vermont	Vermont
Provinces:	Provinces:
New Brunswick	New Brunswick
Nova Scotia	Quebec
Ontario	Countries:
Quebec	China
	France
	Thailand

* This is the fifth Wood Processor Report to separately report firewood as a new product. Report forms were sent to known firewood dealers. In the past some firewood was uniquely identified and reported to MFS as an export, and MFS grouped these minor volumes into the pulpwood product. This by no means a complete accounting of the volume of processed firewood merchandized, sold, or distributed within Maine, or as an export or import. The only previous estimation of annual firewood consumption is a survey conducted by the State Planning Office in the early 1990's. That survey estimated an annual processing, sale, distribution and consumption of 400,000 cords. MFS will continue to improve its survey methods in order to obtain a consistent and reliable estimate of annual firewood processing.

In addition, this is the fifth year we have received reports from Maine's pellet mills. We have included reported volumes for pellet production under this section also.

Product	Harvest, Export, Import, Instate Processing	Total Volume in 2012	Total Volume in Green Tons
Sawlogs	a. Maine wood processed	616,324	2,708,554
(in MBF) 1 MBF = 1,000 board feet	b. Exported from Maine without processing	306,741	1,336,988
	c. Total harvested from Maine forests (a+b=c)	923,065	4,045,542
Note on conversions:	d. Imported from out of state	104,751	459,435
see conversion table at the end of report	f. Total processed by Maine Forest Products Industry (a+d=e)	721,075	3,167,989
Pulpwood	a. Maine wood processed	7,156,605	7,156,605
(in green tons)	b. Exported from Maine without processing	741,607	741,607
	c. Total harvested from Maine forests (a+b=c)	7,898,212	7,898,212
	d. Imported from out of state	2,455,651	2,455,651
	f. Total processed by Maine Forest Products Industry (a+d=e)	9,612,256	9,612,256
Biomass Chips	a. Maine wood processed	2,235,085	2,235,085
(in green tons)	b. Exported from Maine without processing	120,049	120,049
	c. Total harvested from Maine forests (a+b=c)	2,355,134	2,355,134
	d. Imported from out of state	380,846	380,846
	f. Total processed by Maine Forest Products Industry (a+d=e)	2,615,931	2,615,931
Firewood / Pellets	a. Maine wood processed	145,936	364,840
(in cords)	b. Exported from Maine without processing	0	0
	c. Total harvested from Maine forests (a+b=c)	145,936	364,840
Note on conversion:	d. Imported from out of state	215	538
1 cord = 2.5 green tons	f. Total processed by Maine Forest Products Industry (a+d=e)	146,151	365,378
Totals	a. Maine wood processed		12,465,084
(in green tons)	b. Exported from Maine without processing		2,198,644
	c. Total harvested from Maine forests (a+b=c)		14,663,728
	d. Imported from out of state		3,296,469
	f. Total processed by Maine Forest Products Industry (a+d=e)		15,761,553

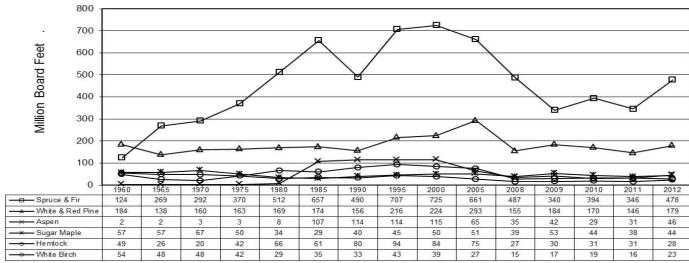
Wood Harvesting Trends (1960-2012)

The Maine Forest Service has been collecting data on volume of wood harvested since the late 1940's. The following three charts illustrate wood harvesting trends over the past 50 years.

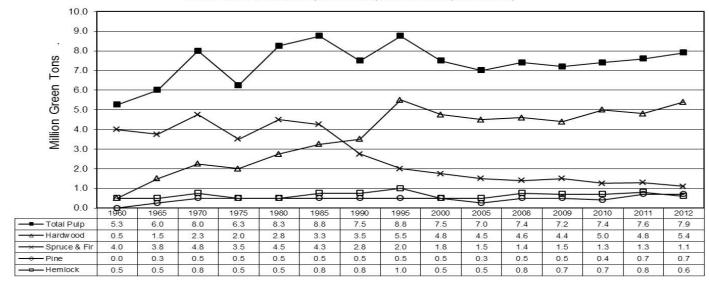
The two graphs to the right show the harvest volumes for selected species for sawlogs and pulpwood. These volumes include exported volumes.



Harvest Levels of Selected Species for Sawlogs in Maine (1960 to 2012)







Wood Harvesting Trends (1960-2012)

The graph to the right shows the volumes for commercially important species.

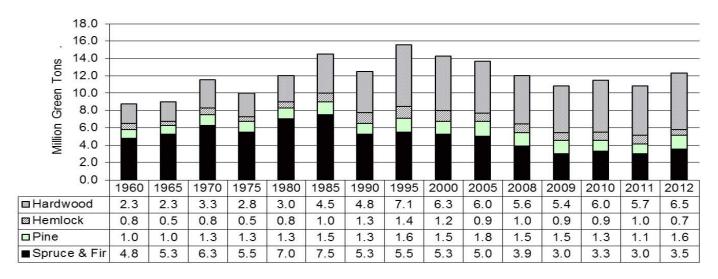


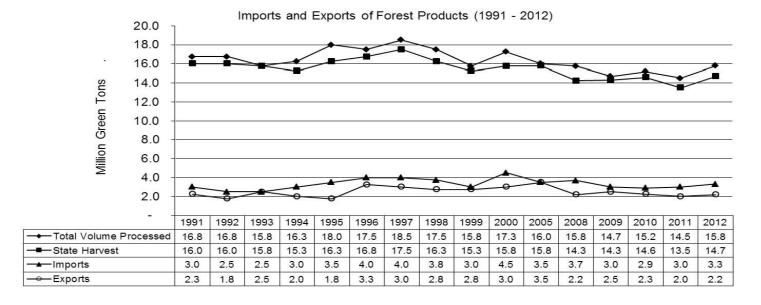
Import and Export Trends (1990-2012)

The graph to the right shows the volumes of forest products being exported from Maine, imported into Maine, and processed within Maine.



Harvest Commercially Important Species in Maine (1960 - 2012)





Conversion Table MBF/Weight Equivalents

for various Maine Commercial Tree Species

These conversions are used by the Maine Forest Service.

Users of this report may wish to confirm the conversion rate(s) used by individual mills and/or contractors who purchase wood.

<u>Species</u>	MBF	<u>Tons</u>
Spruce Fir	1	4.2
White Pine	1	4.3
Red Pine	1	4.3
Hemlock	1	4.8
Cedar	1	3.4
Tamarack (Larch)	1	4.8
Beech	1	4.5
White Birch	1	4.5
Yellow Birch	1	5.4
Sugar Maple	1	5.4
Red Maple	1	4.5
White Oak	1	5.4
Red Oak	1	5.4
Ash	1	4.5
Aspen/Poplar	1	4.3
Softwood	1	4.6
Hardwood	1	5.4
Mixed Wood	1	4.6

For purposes of comparing volumes, a rough conversion of 1 MBF = 2 cords is commonly used.

These conversions factors are handy for making estimates and for forest inventory purposes, but are advisory only. The weight of a particular volume of wood varies greatly by species, time of year and other factors.

It is illegal in Maine to convert from one system of measurement to another for the basis of payment (e.g. convert a mill payment for pulpwood in dollars per ton to a landowner payment in dollars per cord).



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Maine Forest Service District Foresters

The Maine Forest Service has 10 District Foresters who provide technical assistance and educational services to landowners, loggers, schools and educational institutions, municipalities and other stakeolders. District Foresters conduct educational workshops, field demonstrations, media presentations, and can provide limited one-on-one contact with individual landowners.

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