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2009 Wood Processor Report

Including Import and Export Information

Compiled from 2009 Wood Processor Reports pursuant to 12 MRSA § 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 2009, 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 2009, the Maine Forest Service received wood processor reports from 141 primary processing mills (sawmills, pulp and paper mills), 49 portable sawmills, 70 firewood dealers, 39 loggers and brokers who may have exported wood, 28 concentration yards, and 8 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 MRSA §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 f

7. Pellets:

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

8. Pulpwood:

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

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 14.8 million green ton equivalents in 2009, down from 15.8 million green ton equivalents in 2008. Eighty percent of the supply (11.7 million green ton equivalents) was harvested in Maine, while 20% (3.0 million green ton equivalents) was imported.
- Maine landowners harvested 14.3 million green ton equivalents of wood in 2009, same as 2008. Seventeen percent (2.5 million green ton equivalents) of the 2009 harvest was exported, up from 2008 (2.2 million green ton
- Maine's pulp and paper producers processed 7.9 million green tons of pulpwood, down 1.1 million tons (12%) from 2008 consumption. Seventy-six percent of the pulpwood originated from Maine's forests; 24% was imported.
- Biomass harvesting volume was 3.4 million tons in 2009, up from 2008 (3.1 million tons). Biomass energy facilities consumed 3.9 million tons in 2009, up slightly from 2008. Eighty percent originated from Maine's forests; 20% was imported.
- Maine's sawlog processing in 2009 was .6 billion board feet, down from 2008 (.7 billion board feet).
- During 2009, Maine's forest products industry imported 3.0 million green tons, while 2.5 million green tons were exported.
- The harvest of spruce and fir was the lowest since before 1960. Hardwood harvest has increased by more than two times since 1960.

SAWLOGS

2009 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	75	8,905	658	1	0	9,639	81	75	195	215	72	290	86	43	2	1,059	10,698
AROOSTOOK	49,198	3,304	557	8,257	521	61,837	1,807	3,309	4,278	8,944	7,028	103	200	37,031	233	62,933	124,770
CUMBERLAND	356	15,053	2,233	1	4	17,647	55	92	97	73	174	688	67	14	2	1,262	18,909
FRANKLIN	5,102	6,399	184	115	20	11,820	393	1,400	606	1,797	572	924	394	44	129	6,259	18,079
HANCOCK	10,327	4,405	1,327	255	123	16,437	63	636	153	304	162	214	223	29	471	2,255	18,692
KENNEBEC	843	10,184	961	62	2	12,052	145	689	242	645	178	820	258	118	1	3,096	15,148
KNOX	258	14,620	55	4	0	14,937	1	24	4	14	13	61	9	9	1	136	15,073
LINCOLN	552	11,583	2,081	5	0	14,221	10	20	2	53	23	67	16	1	3	195	14,416
OXFORD	11,841	28,394	2,217	56	9	42,517	398	897	789	2,721	1,382	952	410	27	60	7,636	50,153
PENOBSCOT	34,021	8,603	14,552	1,700	106	58,982	200	1,940	2,102	4,131	1,210	1,134	1,014	2,225	355	14,311	73,293
PISCATAQUIS	31,763	4,303	2,289	315	68	38,738	754	2,178	2,888	5,407	1,375	187	508	675	242	14,214	52,952
SAGADAHOC	29	1,727	108	1	0	1,865	0	0	0	1	1	8	5	2	0	17	1,882
SOMERSET	39,015	11,212	553	459	25	51,264	1,027	2,634	3,140	4,620	1,433	1,447	1,132	69	115	15,617	66,881
WALDO	598	6,038	357	55	8	7,056	21	160	23	49	36	188	28	80	0	585	7,641
WASHINGTON	21,192	3,121	475	534	103	25,425	37	91	132	209	149	43	156	1,044	385	2,246	27,671
YORK	12	14,279	421	0	14	14,726	19	10	6	21	73	638	13	1	3	784	15,510
Maine wood processed:	205,182	152,130	29,028	11,820	1,003	399,163	5,011	14,155	14,657	29,204	13,881	7,764	4,519	41,412	2,002	132,605	531,768
Exported from Maine without processing:	134,838	43,666	779	8,608	2	187,893	63	2,811	9,507	23,674	6,714	8,733	3,368	228	1,042	56,140	244,033
Total harvested from Maine forests:	340,020	195,796	29,807	20,428	1,005	587,056	5,074	16,966	24,164	52,878	20,595	16,497	7,887	41,640	3,044	188,745	775,801
Imported from out of state:	6,446	52,174	89	372	0	59,081	1	1,229	275	859	133	140	62	0	997	3,696	62,777
Total processed by Maine Forest Products Industry:	211,628	204,304	29,117	12,192	1,003	458,244	5,012	15,384	14,932	30,063	14,014	7,904	4,581	41,412	2,999	136,301	594,545

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

2009 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 and Fir Pine Hemlock Cedar Softwood Softwood Hardwood Hardwood Wood Green Tons Aspen Pulpwood 7,760 ANDROSCOGGIN 648 24,839 15 046 0 4,147 44 680 3.097 21,925 25 022 0 69.702 10,248 AROOSTOOK 95,295 360 41,206 0 610 137,471 41,083 901,955 943,038 0 1,080,509 314 CUMBERLAND 1,387 79,903 34,782 0 2,080 118,152 1.918 24,439 26.357 0 144,509 37,315 FRANKLIN 58,713 17,723 22,617 2,675 101,728 27,091 246,006 273 097 0 374 825 HANCOCK 125,126 72,568 13,553 33,846 0 5,159 27,063 34,557 61,620 0 186,746 KENNEBEC 9,474 23,871 67,362 39,309 38 29,990 0 4,027 8,305 31,004 0 106,671 0 KNOX 15,085 6.395 2,384 0 324 24,188 1,944 5,137 7.081 0 31,269 LINCOLN 4,520 25,347 8,848 1,297 40,012 2,241 4,253 6,494 0 46,506 0 OXFORD 8,950 46,677 129,803 67,912 0 7,600 251,992 12,747 274,148 286,895 0 538,887 PENOBSCOT 176,910 220,075 426,893 674,193 737,858 3,837 26,432 0 3,476 63,665 0 1.164,751 PISCATAQUIS 149,867 474,752 508,495 725,297 94.268 9.584 56,103 0 1,248 216,802 33,743 0 75 SAGADAHOC 778 6 992 5,295 0 611 13,676 722 2,145 2.867 0 16 543 22,228 SOMERSET 59,972 40,071 650,521 194,034 58,657 0 3,498 316,161 690,592 0 1.006,753 WALDO 23,251 30,504 9 661 0 1,149 64,565 8,244 22,518 30,762 0 95,327 0 WASHINGTON 106,554 3.944 166,891 28,827 190,352 219,179 0 386,070 53,652 0 2,741 YORK 3.924 45 48,517 17,923 0 712 67,197 1,017 13,435 14,452 0 81.649 Maine wood 955,806 512,543 673.193 0 41,354 2,182,896 301,778 3,571,340 3.873,118 0 188.957 6.056,014 processed: Exported from 68,179 567,847 1.178 14,492 0 8,178 591,695 25,685 514,578 540,263 0 1.131.958 Maine without processing: Total harvested 49,532 2,774,591 327,463 4,085,918 1,523,653 513,721 687,685 0 4,413,381 0 7,187,972 from Maine 257,136 forests: Imported from 309,746 342.072 142,138 0 24.255 818,211 114,579 1,001,410 1.115.989 0 1.934.200 44.313 out of state: Total processed by 1,297,878 822,289 815,331 65,609 3,001,107 416,357 4,572,750 4,989,107 0 Maine Forest 7,990,214 233,270 **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.

2009 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* CORDS	
County	BIOMASS CHIPS	HOG FUEL	WASTE		
Androscoggin	176,712	1,127	22,617	147	
Aroostook	555,000	147,275	3	7,072	
Cumberland	96,421	27,177	0	2,533	
Franklin	440,844	17,911	0	764	
Hancock	122,704	0	0	754	
Kennebec	95,492	19	1,362	1,360	
Knox	36,982	0	0	572	
Lincoln	90,725	0	2,011	706	
Oxford	185,160	27,573	0	2,091	
Penobscot	375,401	89,159	1,149	5,059	
Piscataquis	240,462	34,947	1,496	18,338	
Sagadahoc	32,788	387	0	32	
Somerset	263,182	25,700	357	1,829	
Statewide*	0	0	0	54,325	
Waldo	57,649	4,353	0	1,473	
Washington	268,266	4,500	0	596	
York	103,862	11,494	4,160	953	
Maine wood processed:	3,141,650	391,622	33,155	98,604	
Exported from Maine without processing:	276,807	141,928	0	3,313	
Total harvested from Maine Forests:	3,418,457	533,550	33,155	101,917	
Imported from out of state:	800,425	151,435	27,726	0	
Total processed by Maine Forest Products Industry:	3,942,075	543,057	60,881	98,604	

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

Wood Imports and Exports

Import Origins	Export Destinations			
States:	States:			
Connecticut	Connecticut			
Maryland	Indiana			
Massachusetts	Michigan			
New Hampshire	New Hampshire			
New York	New York			
Ohio	Vermont			
Rhode Island	Virginia			
Vermont	Washington			
Provinces:	Provinces:			
New Brunswick	New Brunswick			
Nova Scotia	Nova Scotia			
Ontario	Quebec			
Quebec	Countries:			
	China			
	Europe			

* This is the second 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 second year we have received reports from Maine's pellet mills. We have included reported volumes for pellet production under this section also.

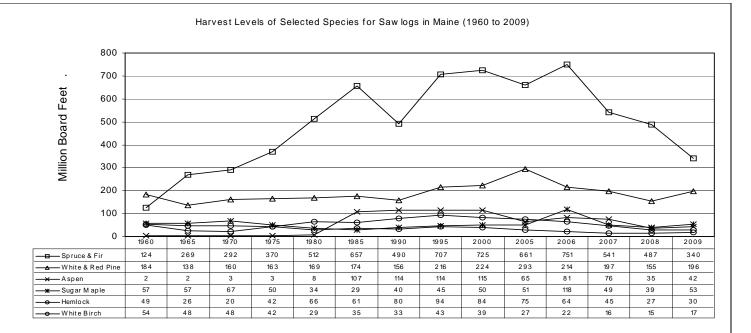
<u>Product</u>	Harvest, Export, Import, Instate Processing	Total Volume in 2009	Total Volume in Green Tons
Sawlogs	a. Maine wood processed	531,768	2,336,764
(in MBF) 1 MBF = 1,000 board feet	b. Exported from Maine without processing	244,033	1,078,344
	c. Total harvested from Maine forests (a+b=c)	775,801	3,415,108
Note on conversions: see conversion table	d. Imported from out of state	62,777	271,789
at the end of report	f. Total processed by Maine Forest Products Industry (a+d=e)	594,545	2,608,553
Pulpwood	a. Maine wood processed	6,056,014	6,056,014
(in green tons)	b. Exported from Maine without processing	1,131,958	1,131,958
	c. Total harvested from Maine forests (a+b=c)	7,187,972	7,187,972
	d. Imported from out of state	1,934,200	1,934,200
	f. Total processed by Maine Forest Products Industry (a+d=e)	7,990,214	7,990,214
Biomass Chips	a. Maine wood processed	3,141,650	3,141,650
(in green tons)	b. Exported from Maine without processing	276,807	276,807
	c. Total harvested from Maine forests (a+b=c)	3,418,457	3,418,457
	d. Imported from out of state	800,425	800,425
	f. Total processed by Maine Forest Products Industry (a+d=e)	3,942,075	3,942,075
Firewood / Pellets	a. Maine wood processed	98,604	246,510
(in cords)	b. Exported from Maine without processing	3,313	8,283
	c. Total harvested from Maine forests (a+b=c)	101,917	254,793
Note on conversion:	d. Imported from out of state	0	0
1 $cord = 2.5$ green tons	f. Total processed by Maine Forest Products Industry (a+d=e)	98,604	246,510
Totals	a. Maine wood processed		11,780,938
(in green tons)	b. Exported from Maine without processing		2,495,391
	c. Total harvested from Maine forests (a+b=c)		14,276,329
	d. Imported from out of state		3,006,414
	f. Total processed by Maine Forest Products Industry (a+d=e)		14,787,352

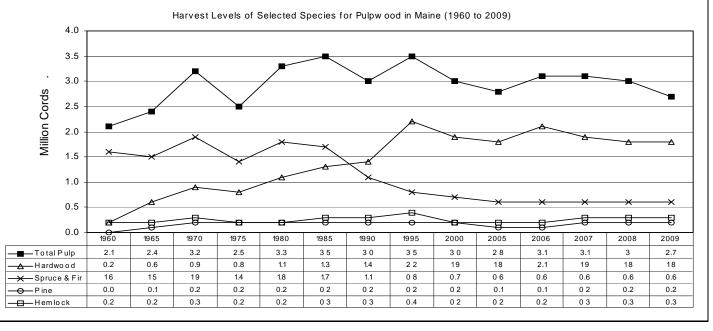
Wood Harvesting Trends (1960-2009)

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 49 years.

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







Wood Harvesting Trends (1960-2009)

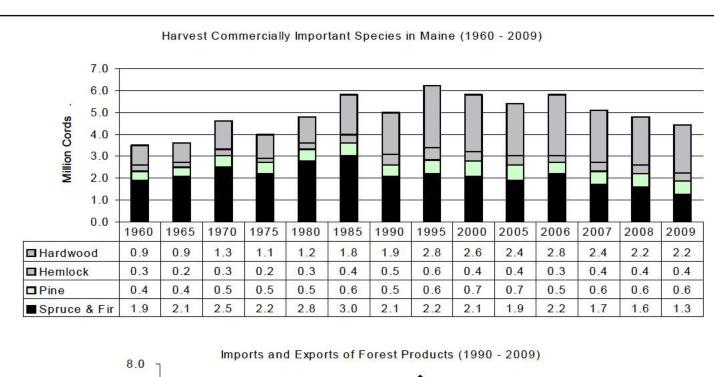
The graph to the right shows the volumes for commercially important species.

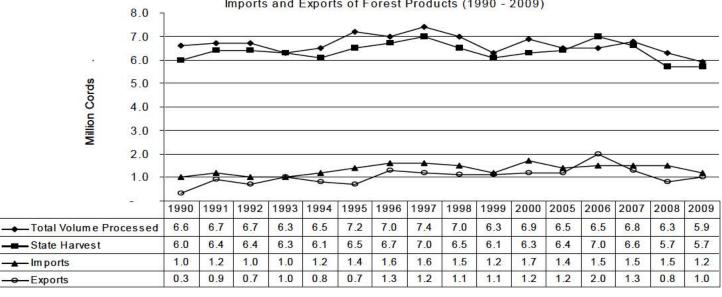


Import and Export Trends (1990-2009)

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







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.

Species	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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