

2003 Wood Processor Report

Including Import and Export Information

Compiled from 2003 Wood Processor Reports,
pursuant to 12 MRSA c. 805, sub-c. 5

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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 2003, the volume of wood that was harvested in Maine, processed by Maine mills, and imported into or exported from Maine.

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

How was this information collected?

In 2003, the Maine Forest Service received wood processor reports from 213 primary processing mills (sawmills, pulp and paper mills), 107 portable sawmills, 50 loggers and brokers who may have exported wood, and from 13 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 chapter 805, subchapter 5, "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 (cfs):

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

4. Hog Fuel:

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

5. Pulpwood:

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

6. 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.

7. Sawmill residues:

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

8. 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 5.6 million cord equivalents in 2003, down 19% from 2002 consumption. Eighty percent of the supply (4.5 million cord equivalents) was harvested in Maine, while 19% (1 million cord equivalents) was imported from out of state.
- Maine landowners harvested 5.9 million cord equivalents of wood in 2003, down 10% from 6.7 million cord equivalents in 2002. Twenty-five percent (1.5 million cord equivalents) of the 2003 harvest was exported out of state, same volume as was reported in 2002 (1.5 million cord equivalents).
- Maine's pulp and paper producers processed 3.2 million cord equivalents of pulp wood, down 11% from 2002. Seventy-seven percent of the pulpwood originated from Maine's forests; 23% was imported from out of state.
- Pulp and paper producers also processed 0.7 million tons of sawmill residues.
- Maine's pulpwood production has steadily declined in recent years, ranging from 3.5 million cords in 1995 to 3.2 million cords in 2003.
- Maine's sawlog production has been relatively steady in recent years, ranging from 1.3 billion board feet in 1995 to 1.0 billion board feet in 2003.
- During 2003, Maine's forest products industry exported more roundwood (1.4 million cords) from the state than it imported (1 million cords).

SAWLOGS

2003 Wood flow in Maine as reported to the Maine Forest Service (Converted to 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	46	10,807	1,675	11	0	12,539	144	127	107	150	301	505	120	11	1	1,466	14,005
AROOSTOOK	140,030	4,205	7,082	10,846	3,723	165,886	310	649	3,001	7,894	600	69	170	67,084	9,515	89,292	255,178
CUMBERLAND	242	20,755	4,922	1	2	25,922	113	117	120	251	2,380	2,239	588	12	7	5,827	31,749
FRANKLIN	9,471	7,020	386	219	0	17,096	1,832	2,643	1,856	2,731	1,821	637	706	104	6	12,336	29,432
HANCOCK	11,878	5,766	681	481	9	18,815	90	983	157	699	150	556	196	1,474	110	4,415	23,230
KENNEBEC	795	16,086	1,313	46	2	18,242	202	587	306	421	381	1,350	233	46	4	3,530	21,772
KNOX	394	2,456	579	23	10	3,462	24	135	44	22	44	327	22	16	1	635	4,097
LINCOLN	465	8,274	1,023	8	0	9,770	2	151	226	391	187	1,256	140	7	2	2,362	12,132
OXFORD	13,423	33,190	4,945	0	0	51,558	1,199	2,202	930	862	1,316	2,550	594	76	17	9,746	61,304
PENOBSCOT	40,354	19,047	21,491	5,201	71	86,164	1,404	3,160	1,809	4,176	2,238	271	631	16,827	4,735	35,251	121,415
PISCATAQUIS	57,832	9,090	2,227	742	2	69,893	2,041	2,431	3,896	9,891	3,792	130	1,280	9,520	4	32,985	102,878
SAGadahoc	62	1,202	133	16	0	1,413	6	42	8	23	38	204	18	4	0	343	1,756
SOMERSET	31,768	14,569	428	644	1	47,410	2,767	3,414	2,513	5,633	3,144	756	1,139	1,167	23	20,556	67,966
WALDO	1,351	5,938	322	225	7	7,843	50	569	46	46	101	293	84	74	1	1,264	9,107
WASHINGTON	18,380	20,056	8,621	638	24	47,719	16	141	117	324	413	98	1	5,379	37	6,526	54,245
YORK	24	22,403	936	16	1	23,380	215	135	53	76	159	1,904	59	4	9	2,614	25,994
Maine wood processed:	326,515	200,864	56,764	19,117	3,852	607,112	10,415	17,486	15,189	33,590	17,065	13,145	5,981	101,805	14,472	229,148	836,260
Exported from Maine without processing:	289,431	35,852	1,864	18,078	235	345,460	3,403	4,511	25,463	38,927	8,526	6,127	5,049	4,365	7,240	103,611	449,071
Total harvested from Maine forests:	615,946	236,716	58,628	37,195	4,087	952,572	13,818	21,997	40,652	72,517	25,591	19,272	11,030	106,170	21,712	332,759	1,285,331
Imported from out of state:	12,872	36,445	1,404	2,389	3,008	56,118	261	2,807	4,145	4,234	573	1,713	84	69,273	10,352	93,442	149,560
Total processed by Maine Forest Products Industry:	339,387	237,309	58,168	21,506	4,087	663,230	10,676	20,293	19,334	37,824	17,638	14,858	6,065	171,078	24,824	322,590	985,820

Notes:

1. Sawlogs include logs, veneer, boltwood, studwood, palletwood, etc. Cords converted to MBF @ 2 cords =1 MBF.
2. Other Softwood includes larch, pitch pine, and others.

PULPWOOD

2003 Wood flow in Maine as reported to the Maine Forest Service (Converted to Cords) including both solid wood and bole/stem pulp chips

County	Spruce and Fir	White and Red Pine	Hemlock	Cedar	Other Softwood	Total Softwood	Aspen	Other Hardwood	Total Hardwood	Total Pulpwood
ANDROSCOGGIN	723	12,768	4,530	0	0	18,021	2,221	40,641	42,862	60,884
AROOSTOOK	24,697	1,214	23,558	0	13,173	62,642	7,454	217,000	224,454	287,096
CUMBERLAND	1,403	27,649	4,900	0	0	33,952	1,555	16,815	18,370	52,322
FRANKLIN	33,242	9,287	14,163	0	0	56,692	16,033	138,155	154,188	210,880
HANCOCK	44,630	6,516	10,296	0	0	61,442	7,795	66,832	74,627	136,069
KENNEBEC	3,274	18,218	8,234	0	1,434	31,160	5,859	16,156	22,015	53,175
KNOX	5,113	2,611	1,243	0	0	8,967	3,637	3,058	6,695	15,662
LINCOLN	4,518	6,900	1,453	0	0	12,871	1,563	4,048	5,611	18,482
OXFORD	35,209	36,238	26,383	0	0	97,830	12,289	147,731	160,020	257,849
PENOBSCOT	60,669	8,819	28,684	0	36,436	134,608	20,680	244,306	264,986	399,595
PISCATAQUIS	69,265	1,710	14,439	0	0	85,414	16,944	160,577	177,521	262,935
SAGADAHOC	454	4,960	2,035	0	0	7,449	448	4,583	5,031	12,480
SOMERSET	48,011	14,936	19,343	0	0	82,290	43,602	249,131	292,733	375,023
WALDO	12,023	5,412	3,022	0	0	20,457	6,877	17,544	24,421	44,878
WASHINGTON	51,595	10,000	25,313	0	0	86,908	4,771	146,407	151,178	238,086
YORK	252	30,984	10,811	0	0	42,047	550	10,764	11,314	53,361
Maine wood processed:	395,079	211,136	200,776	0	51,043	858,034	152,278	1,486,198	1,638,476	2,496,510
Exported from Maine without processing:	244,442	353	7,231	0	15,626	267,652	16,945	249,419	266,363	534,015
Total harvested from Maine forests:	639,520	211,490	208,007	0	66,669	1,125,686	169,223	1,735,617	1,904,839	3,030,525
Imported from out of state:	93,382	108,538	38,029	0	9,339	249,288	60,271	433,089	493,360	742,647
Total processed by Maine Forest Products Industry:	488,461	319,674	238,805	0	60,382	1,107,322	212,549	1,919,287	2,131,836	3,239,157

SAWMILL RESIDUE
<i>Green Tons</i>
39,050
29,157
28,056
35,464
2,961
26,995
200
16,025
107,636
118,588
33,157
0
34,461
32,233
3,835
32,023
540,806
155,896
696,702
163,502
704,308

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

Pulpwood Notes:

1. Other Softwood is comprised of bole chips of which specific species information was not collected.
 2. Aspen volumes are based upon pure loads.
 3. Other Hardwood is comprised of all hardwood species except aspen sold in pure loads.
 4. The volume of hardwood is down, in part, because information from one mill was unavailable.
- * Some volume reported could not be identified within a specific county and are reported in the totals only.

2003 Wood Flow in Maine as reported to the Maine Forest Service (in Green Tons)

County	BIOMASS CHIPS	Further utilization of wood already tallied.
		HOG FUEL
ANDROSCOGGIN	48,452	26,946
AROOSTOOK	59,238	155,783
CUMBERLAND	14,157	76,619
FRANKLIN	62,784	69,659
HANCOCK	60,795	6,573
KENNEBEC	51,172	35,317
KNOX	12,701	561
LINCOLN	28,497	8,467
OXFORD	55,755	84,668
PENOBSCOT	123,227	342,636
PISCATAQUIS	92,756	79,045
SAGadahoc	6,614	473
SOMERSET	146,898	169,844
WALDO	40,694	24,351
WASHINGTON	99,060	39,509
YORK	13,593	334
*		
Maine wood processed:	916,393	1,235,207
Exported from Maine without processing:	73,170	228,338
Total harvested from Maine Forests:	989,563	1,463,545
Imported from out of state:	65,079	1,267,558
Total processed by Maine Forest Products Industry:	981,472	2,502,765

* Some volume reported could not be identified within a specific county and are reported in the totals only.

Wood Imports and Exports

<u>Import Origins</u>	<u>Export Destinations</u>
<u>States:</u>	<u>States:</u>
Connecticut	Connecticut
Massachusetts	Massachusetts
New Hampshire	Michigan
New York	New Hampshire
Rhode Island	New Jersey
Vermont	New York
<u>Provinces:</u>	Pennsylvania
New Brunswick	Rhode Island
Nova Scotia	Vermont
Prince Edward Island	<u>Provinces:</u>
Quebec	New Brunswick
	Ontario
	Quebec
	<u>Countries:</u>
	Italy

SUMMARY**2003 Wood flow in Maine as reported to the Maine Forest Service**

Product	Harvest, Export, Import, Instate Processing	Total Volume in 2003	Total Volume converted to cords
Sawlogs (in MBF) 1 MBF = 1,000 board feet	a. Maine wood processed	836,260	1,672,520
	b. Exported from Maine without processing	449,071	898,142
	c. Total harvested from Maine forests (a+b=c)	1,285,331	2,570,662
	d. Imported from out of state	149,560	299,120
	f. Total processed by Maine Forest Products Industry (a+d=e)	985,820	1,971,640
Pulpwood (in cords)	a. Maine wood processed	2,496,510	2,496,510
	b. Exported from Maine without processing	534,015	534,015
	c. Total harvested from Maine forests (a+b=c)	3,030,525	3,030,525
	d. Imported from out of state	742,647	742,647
	f. Total processed by Maine Forest Products Industry (a+d=e)	3,239,157	3,239,157
Biomass Chips (in green tons)	a. Maine wood processed	916,393	366,557
	b. Exported from Maine without processing	73,170	29,268
	c. Total harvested from Maine forests (a+b=c)	989,563	395,825
	d. Imported from out of state	65,079	26,032
	f. Total processed by Maine Forest Products Industry (a+d=e)	981,472	392,589
Totals (in cords)	a. Maine wood processed		4,535,587
	b. Exported from Maine without processing		1,461,425
	c. Total harvested from Maine forests (a+b=c)		5,997,013
	d. Imported from out of state		1,067,799
	f. Total processed by Maine Forest Products Industry (a+d=e)		5,603,386

Note on conversions: For sawlogs: 1 MBF = 2 cords

For Biomass Chips: 1 cord = 2.5 green tons

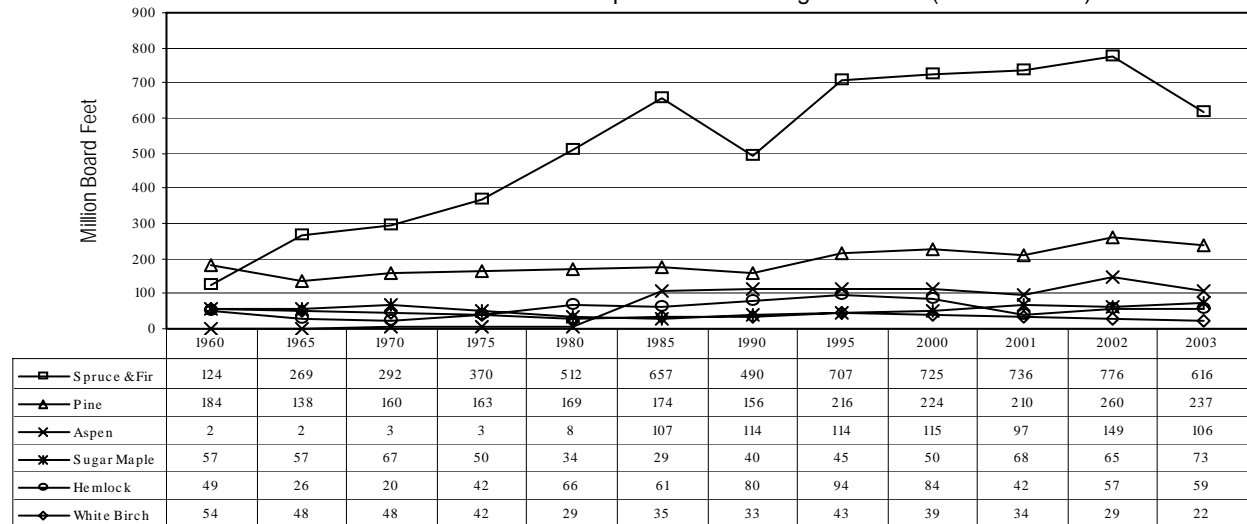
Wood Harvesting Trends (1960-2003)

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 41 years.

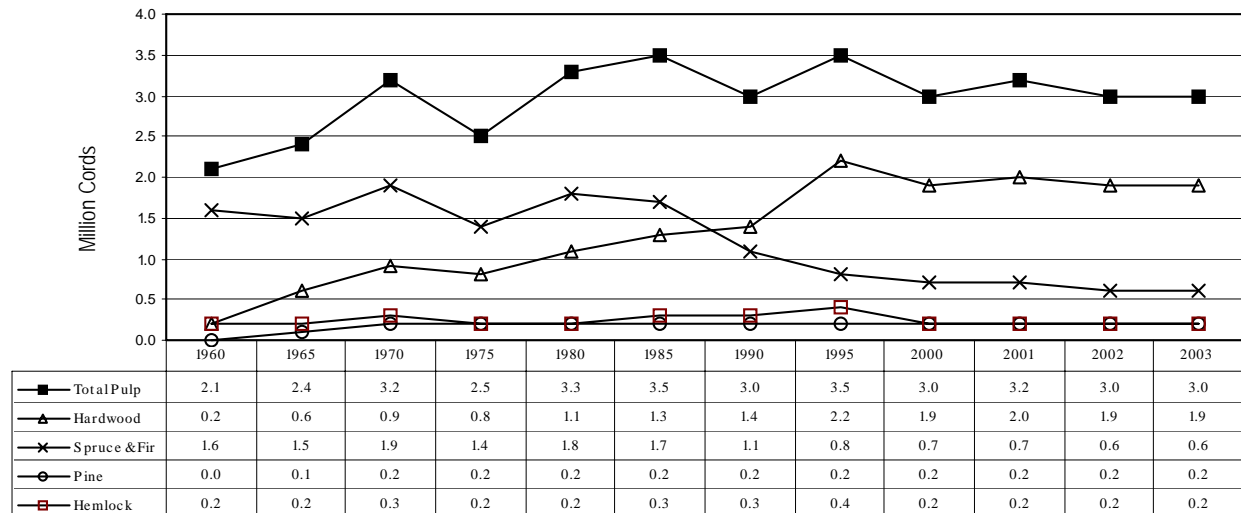
The two graphs to the right show the harvest volumes for selected species for sawlogs and pulpwood. These volumes include exported volumes.



Harvest Levels of Selected Species for Sawlogs in Maine (1960 to 2003)



Harvest Levels of Selected Species for Pulpwood in Maine (1960 -2003)

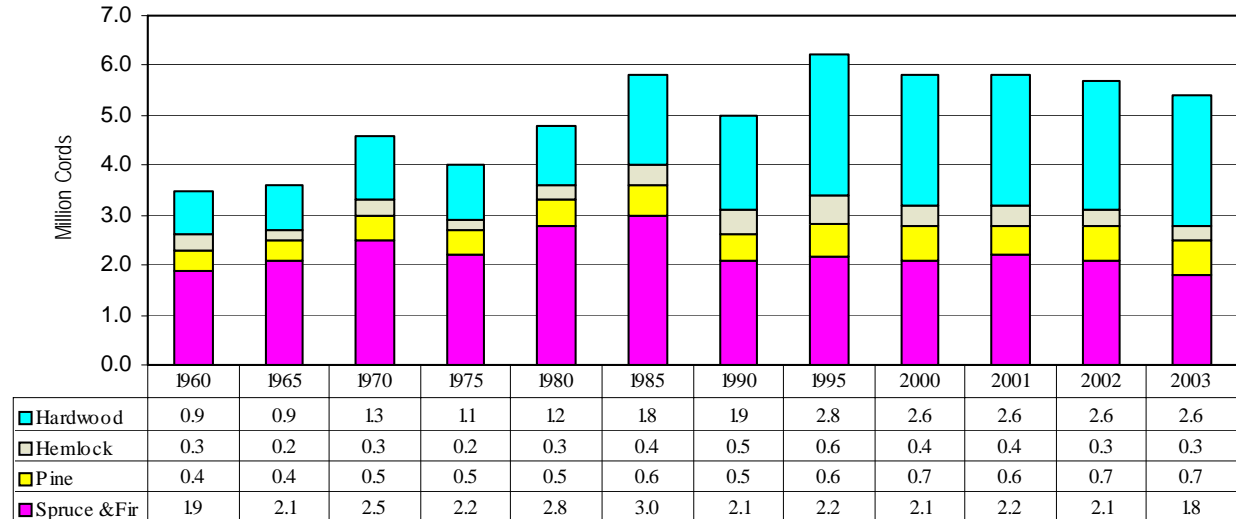


Wood Harvesting Trends (1960-2003)

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



Harvest of Commercially Important Species in Maine (1960 - 2003)

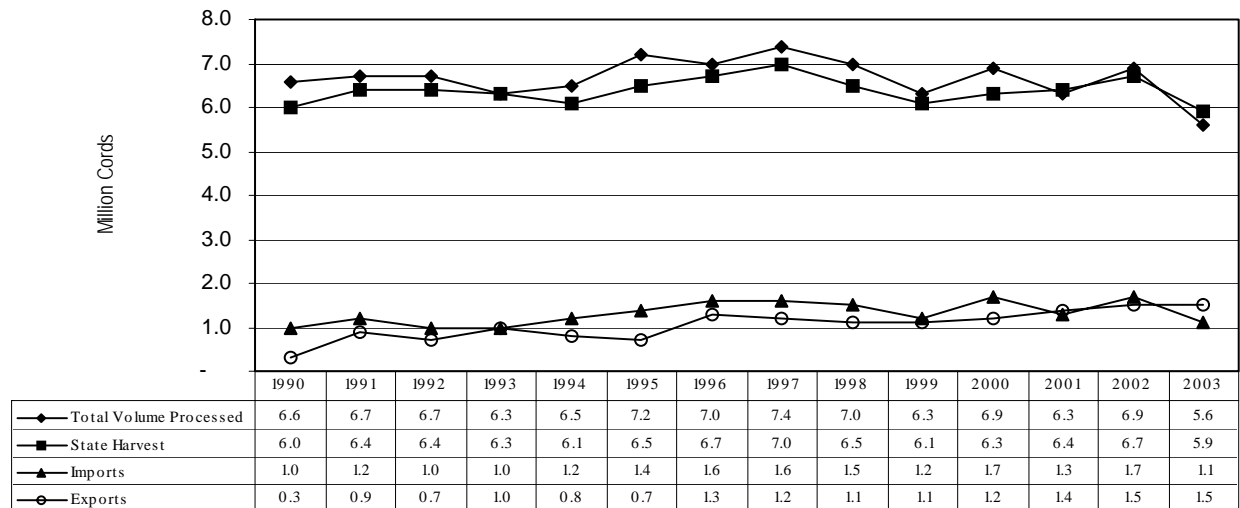


Import and Export Trends (1990-2003)

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



Imports and Exports of Forest Products (1990-2003)





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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 stakeholders. District Foresters conduct educational workshops, field demonstrations, media presentations, and can provide limited one-on-one contact with individual landowners.

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