

MAINE STATE LEGISLATURE

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2000 Wood processor Report Including Import and Export Information

Compiled from 2000 Woodprocessor Reports,
pursuant to 12 MRSA c 805, sub-c !

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What is in this report?

This report shows the volume of wood that was processed by Maine mills, imported into Maine, and exported from Maine.

- ▣ Tables display wood flow details for: Sawlogs, Pulpwood, Biomass Chips, and Imports and Exports.
- ▣ Sawlogs and Pulpwood figures appear in a species-by-county matrix.
- ▣ Biomass figures appear by county.
- ▣ Import and export figures are tallied by species only.

How was this information collected?

The Maine Forest Service collects information on woodflow through the annual Wood processor Report. The information contained in this report is based upon 2000 woodprocessor reporting forms.

For 2000, reports were received from 212 primary processing mills, 79 portable mills, 70 loggers and brokers who may have exported, and from 51 mills that burn some form of wood for energy. These businesses report wood volumes processed by species and county of origin.

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. Volume information contained in these 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 (under provisions of 12 MRSA c805, sub-c 5 "Forest Landowner and Wood processor Reporting Requirements"). Information in this database is tabulated and used for additional purposes as well.

Notes on reading this report:

This wood processor report is arranged so that you can look up volumes by county, imports, exports, and state totals. Maine's sixteen counties are:

<i>Androscoggin</i>	<i>Hancock</i>	<i>Oxford</i>	<i>Somerset</i>
<i>Aroostook</i>	<i>Kennebec</i>	<i>Penobscot</i>	<i>Waldo</i>
<i>Cumberland</i>	<i>Knox</i>	<i>Piscataquis</i>	<i>Washington</i>
<i>Franklin</i>	<i>Lincoln</i>	<i>Sagadahoc</i>	<i>York</i>

The information provided for each county is organized into three (3) major product sections

Product	*Unit of Measure
Sawlogs	MBF
Pulpwood	Cords
Biomass Chips	Green Tons

* Note: Volumes also appear as cords (on summary page) for the purpose of having a common measurement unit for comparison and for calculating grand totals across product type

Wood flow is tallied by: Sawlogs, Pulpwood, and Biomass Chips.

Sawlog Species in this report

<u>Softwood:</u>	Spruce and Fir	<u>Hardwood:</u>	Beech
	White and Red Pine		White Birch
	Hemlock		Yellow Birch
	Cedar		Sugar Maple
	Other Softwood		Red (soft) Maple
	<i>(including Larch or Tamarack)</i>		Oak (all)
			Ash (all)
			Aspen
			Other Hardwood

Pulpwood Species in this report

<u>Softwood:</u>	Spruce and Fir	<u>Hardwood:</u>	Aspen
	White and Red Pine		Other Hardwood
	Hemlock		
	Cedar		
	Other Softwood		

Biomass Chips Species in this report

All Species

Definitions and Notes

1. Biomass Chips:

Produced in the woods using entire tree, stem or bole, branches and tops. These chips usually go to wood to energy facilities; however they are suitable for sludge composting, play ground padding, and mulch.

2. Bole/Stem Chips:

Produced in the woods using portable chippers and are made from the lower portion of tree minus limbs and tops. These chips may not be bark free but are suitable for use in pulp mills. There are some stationary tree-length chipping operations.

3. Cords (cfs):

A "cord" is a unit of measure of wood products 4 feet wide, 4 feet high, and 8 feet long, or its equivalent, containing 128 cubic feet when the wood is stacked and well stowed. Any voids that will accommodate a stick, log or bolt of average dimensions to those in the pile shall be deducted from the measured volume.

4. Hog Fuel:

Any woody residue from the woods or mills (such as sawdust, bark, and shavings) and can be biomass chips measured in either green or dry (bone dry) tons.

5. Mill residues:

Clean, pulp quality chips, made from slabs and edgings at sawmills, etc. Measured green tons, mill residues come from the sawlog component of the volume reported and therefore are not additional harvest volumes figures. They do make up a part of the volumes of fiber used to make pulp and should be added to the volume of pulpwood to get the total amount of wood used to make paper.

6. Pulpwood:

Includes tree length; long length; 4', 8', 16'; bole or stem chips converted to cords for comparison with previous figure.

7. Sawlogs:

Include sawlogs, studwood, palletwood, boltwood, and veneer.

8. Thousand Board Feet (MBF):

One thousand board feet. One board foot is equivalent to a piece of wood 1" thick by 12" long by 12" wide.

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

Maine wood processed

wood that was harvested in Maine and utilized by a Maine primary processing facility.

Exported from Maine without processing

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

Imported from out of state

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

Total processed by Maine Forest Products Industry

amount of wood that was primary processed in Maine regardless of origin.

Pulpwood figures include pulp-quality bole or stem chips that are produced by many of Maine's whole tree chipper operators. These chippers also produce biomass which is burned for energy by many mills and wood-fired electrical generating facilities.

Conversions:

1 MBF = 2 cords 1 cord = 2.5 green tons

Sawlogs

2000 Wood flow in Maine as Reported to the Maine Forest Service (Converted to MBF)

County	White					Total	Beech	White Birch	Yellow Birch	Sugar Maple	Red Maple	Oak	Ash	Aspen	Other Hardwood	Total Hardwood	Total Sawlogs
	Spruce and Fir	and Red Pine	Hemlock	Cedar	Other Softwood												
Androscoggin	103	6,462	929	0	5	7,499	224	309	124	116	262	207	126	14	7	1,389	8,888
Aroostook	131,805	2,535	8,550	28,904	5,500	177,294	1,502	4,668	4,780	7,931	5,166	104	1,256	84,297	3	109,707	287,001
Cumberland	121	26,958	5,495	0	0	32,574	582	479	133	150	939	601	97	13	6	3,000	35,574
Franklin	12,109	11,462	856	113	6	24,546	1,380	6,180	3,800	6,244	3,863	2,918	1,483	74	17	25,959	50,505
Hancock	14,408	6,049	4,227	176	0	24,860	68	2,069	209	784	85	166	227	158	0	3,766	28,626
Kennebec	5,387	21,080	3,804	30	2	30,303	272	1,527	300	328	330	1,349	284	50	4	4,444	34,747
Knox	83	2,975	835	25	0	3,918	58	120	52	41	74	93	14	14	7	473	4,391
Lincoln	230	8,519	1,156	16	0	9,921	20	189	20	23	31	166	10	6	1	466	10,387
Oxford	12,139	36,256	4,910	0	15	53,320	1,946	4,055	1,518	1,501	2,228	4,189	967	55	54	16,513	69,833
Penobscot	92,581	26,268	21,986	10,946	133	151,914	2,151	3,147	1,222	1,828	1,643	277	560	17,213	19	28,060	179,974
Piscataquis	39,310	7,298	5,309	459	31	52,407	1,859	3,220	3,708	7,816	2,227	153	833	8,360	35	28,211	80,618
Sagadahoc	23	1,075	239	0	0	1,337	7	33	3	7	6	21	7	4	0	88	1,425
Somerset	52,546	8,578	4,412	1,177	23	66,736	1,909	5,871	4,517	1,728	3,472	1,103	787	2,090	2	21,479	88,215
Waldo	2,395	9,223	1,240	685	7	13,550	69	1,300	162	194	88	319	117	36	24	2,309	15,859
Washington	49,184	8,888	3,696	492	3	62,263	13	590	97	245	23	32	18	1,119	2	2,139	64,402
York	21	27,219	14,596	150	109	42,095	55	155	29	51	95	330	30	26	1	772	42,867
Maine wood processed:	412,445	210,845	82,240	43,173	5,834	754,537	12,115	33,912	20,674	28,987	20,532	12,028	6,816	113,529	182	248,775	1,003,312
Exported From Maine Without Processing:	312,230	13,332	1,851	11,662	62	339,137	2,411	5,402	15,198	21,296	14,335	10,225	2,050	1,297	6,767	78,981	418,118
Total Harvested from Maine forests :	724,675	224,177	84,091	54,835	5,896	1,093,674	14,526	39,314	35,872	50,283	34,867	22,253	8,866	114,826	6,949	327,756	1,421,430
Imported from Out- of-State:	61,616	72,751	6,517	5,197	55	146,136	1,967	9,292	2,464	3,882	1,588	994	751	47,767	3,405	72,110	218,246
Total Processed by Maine Forest Products Industry :	474,061	283,596	88,757	48,370	5,889	900,673	14,082	43,204	23,138	32,869	22,120	13,022	7,567	161,296	3,587	320,885	1,221,558

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 a few others.



2000 Wood flow in Maine as Reported to the Maine Forest Service (Converted to Cords)

County	Spruce and Fir	White and Red Pine	Hemlock	Cedar	Other Softwood	Total Softwood	Aspen	Other Hardwood	Total Hardwood	Total Pulpwood
Androscoggin	1,135	16,265	6,040	0	0	23,440	8,522	20,095	28,617	52,057
Aroostook	64,544	911	18,572	0	0	84,027	10,376	298,374	308,750	392,777
Cumberland	607	30,783	15,062	0	0	46,452	6,176	22,683	28,859	75,311
Franklin	35,588	9,657	12,519	0	0	57,764	23,882	141,310	165,192	222,956
Hancock	42,070	3,324	1,993	0	50	47,437	15,478	64,981	80,459	127,896
Kennebec	6,909	18,417	32,374	0	4	57,704	9,995	36,744	46,739	104,443
Knox	12,805	3,165	869	0	13	16,852	3,881	14,696	18,577	35,429
Lincoln	8,129	8,076	1,358	0	0	17,563	1,218	7,488	8,706	26,269
Oxford	49,834	38,128	31,320	0	0	119,282	28,475	157,286	185,761	305,043
Penobscot	109,400	15,286	79,147	0	2,344	206,177	22,412	199,262	221,674	427,851
Piscataquis	60,424	4,961	10,138	0	0	75,523	20,200	222,425	242,625	318,148
Sagadahoc	580	3,619	2,109	0	0	6,308	2,289	2,538	4,827	11,135
Somerset	52,948	15,305	19,728	0	0	87,981	37,010	270,713	307,723	395,704
Waldo	22,700	5,434	2,513	0	0	30,647	11,701	43,161	54,862	85,509
Washington	43,079	1,238	1,200	0	234	45,751	6,198	48,926	55,124	100,875
York	51	30,711	6,406	0	0	37,168	4,991	15,579	20,570	57,738
Maine wood processed:	510,803	205,280	241,348	0	2,645	960,076	212,804	1,566,261	1,779,065	2,739,141
Exported From Maine Without Processing:	163,206	4,697	3,310	1,676	5,668	178,557	7,273	115,383	122,656	301,213
Total Harvested from Maine forests:	674,009	209,977	244,658	1,676	8,313	1,138,633	220,077	1,681,644	1,901,721	3,040,354
Imported from Out-of-State:	155,782	88,086	69,063	0	671	313,602	141,038	432,218	573,256	886,858
Total Processed by Maine Forest Products Industry:	666,585	293,366	310,411	0	3,316	1,273,678	353,842	1,998,479	2,352,321	3,625,999

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.

Mill Residues: 1,733,232 tons of mill residues were obtained from Maine sawmills and 117,205 tons were imported for manufacture into pulp. These figures are not included in the pulpwood volumes presented elsewhere in this report. This does not represent a drain on the forest resource, but rather, a further utilization of wood already included in the tally.

Biomass Chips

2000 Wood flow in Maine as Reported to the Maine Forest Service (in Green Tons)

County	Biomass Chips
Androscoggin	36,033
Aroostook	195,949
Cumberland	55,994
Franklin	59,335
Hancock	8,441
Kennebec	26,191
Knox	10,006
Lincoln	11,381
Oxford	22,845
Penobscot	84,708
Piscataquis	63,051
Sagadahoc	8,290
Somerset	111,888
Waldo	40,418
Washington	45,910
York	79,880
Maine wood processed:	860,320
Exported From Maine Without Processing:	57,339
Total Harvested from Maine Forests:	917,659
Imported from Out-of-State:	1,111,940
Total Processed by Maine Forest Products Industry:	1,972,260

Biomass Chips are produced in the woods using whole trees, stem or bole, branches, and top. These chips usually go to wood-to-energy facilities. They are also used in sludge composting, playground padding, and mulch.

Wood Imports and Exports

**Origins and Destinations
To and From the State of Maine**

<u>Import Origins</u>	<u>Export Destinations</u>
Connecticut	Connecticut
Massachusetts	New Hampshire
New Hampshire	Vermont
New York	Wisconsin
Pennsylvania	West Virginia
 <u>Canada</u>	 <u>Canada</u>
New Brunswick	New Brunswick
Nova Scotia	Nova Scotia
Quebec	Quebec

Summary:

2000 Wood flow in Maine as Reported to the Maine Forest Service

2000

<u>Product</u>		<u>Harvest, Export, Import, Processed by Maine Forest Products Industries</u>	<u>Total Volume in 2000</u>	<u>Total Volume Converted to cords</u>
Sawlogs (in MBF) 1 MBF = 1,000 board feet	a	Maine wood processed	1,003,312	2,006,624
	b	Exported from Maine without processing	418,118	836,236
	c	Total harvested from Maine forests (a+b-c)	1,421,430	2,842,860
	d	Imported from outside Maine	218,246	436,492
	e	Total processed by Maine Forest Products Industry (a+d=e)	1,221,558	2,443,116
Pulpwood (in cords)	a	Maine wood processed	2,739,141	2,739,141
	b	Exported from Maine without processing	301,213	301,213
	c	Total harvested from Maine forests (a+b-c)	3,040,354	3,040,354
	d	Imported from outside Maine	886,858	886,858
	e	Total processed by Maine Forest Products Industry (a+d=e)	3,625,999	3,625,999
Biomass Chips (in green tons)	a	Maine wood processed	860,320	344,128
	b	Exported from Maine without processing	57,339	22,936
	c	Total harvested from Maine forests (a+b-c)	917,659	367,064
	d	Imported from outside Maine	1,111,940	444,776
	e	Total processed by Maine Forest Products Industry (a+d=e)	1,972,260	788,904
Totals	a	Maine wood processed		5,089,893
	b	Exported from Maine without processing		1,160,385
	c	Total harvested from Maine forests (a+b-c)		6,250,278
	d	Imported from outside Maine		1,768,126
	e	Total processed by Maine Forest Products Industry (a+d=e)		6,858,019

Note on conversions: For Sawlogs: 1 MBF = 2 cords For Biomass Chips: 1 cords = 2.5 green tons

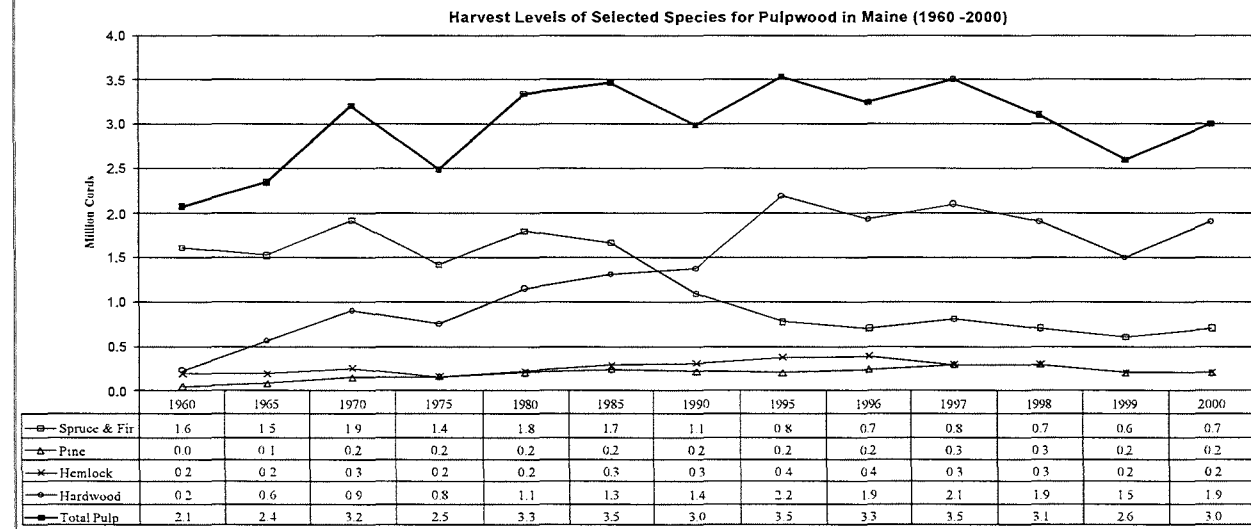
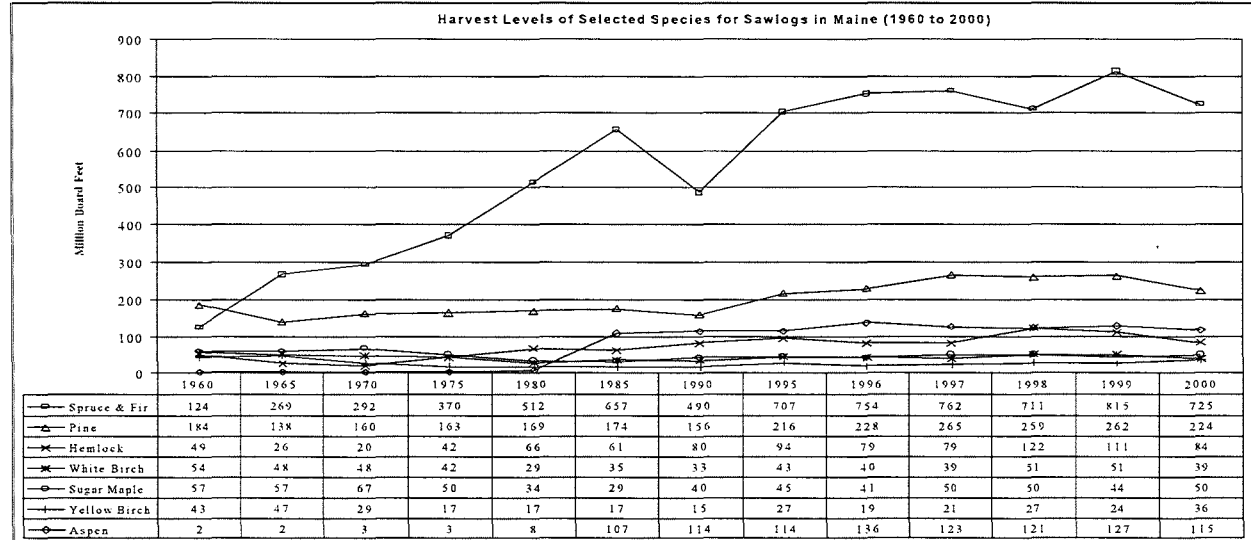
Summary:

2000 Wood flow in Maine as Reported to the Maine Forest Service

Wood Harvesting Trends (1960-2000)

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.

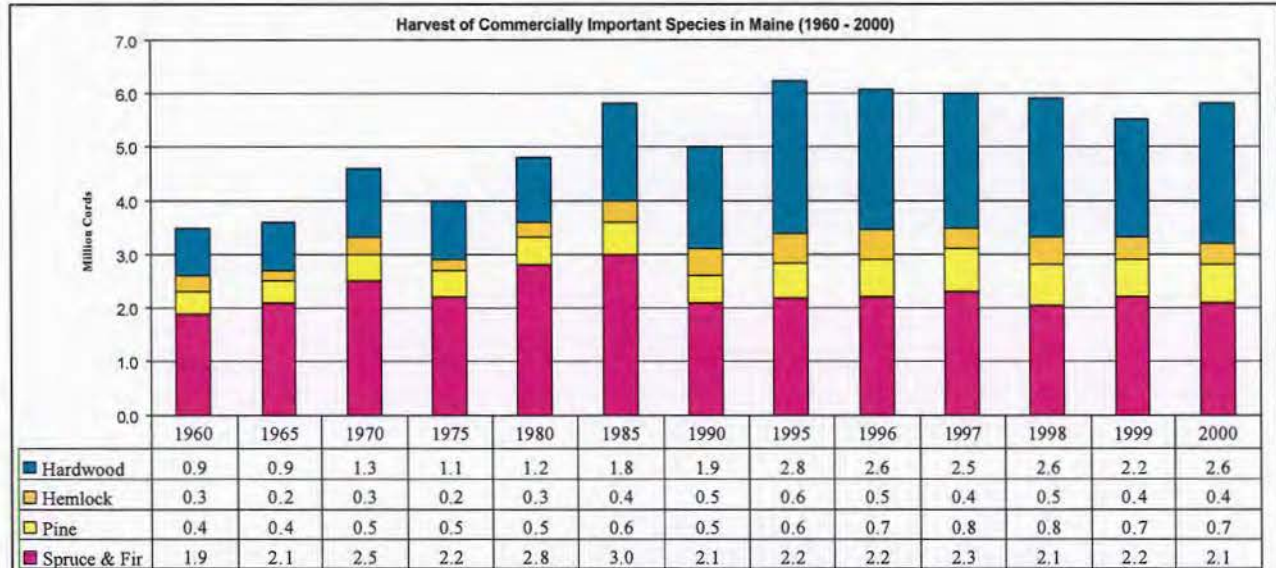


Summary:

2000 Wood flow in Maine as Reported to the Maine Forest Service

Wood Harvesting Trends (1960-2000)

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



Import and Export Trends (1990-2000)

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

