

1993 Woodprocessor Report

including Import/Export Information

Data Collected Under the Provisions of

Title 12 MRSA §8884

July 1995



Maine Forest Service
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What is in this report?

This report shows the volume of wood that was processed by Maine mills, imported from out of state, and exported from Maine without processing during 1993.

- Tables display woodflow 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 (MFS) collects information on woodflow through the Annual Woodprocessor Report (under the provisions of 12MRSA § 8884). The information contained in this report is based on the 1993 woodprocessor reporting forms.

For 1993, reporting forms were sent to 390 primary processing mills, 218 loggers and brokers who may have exported, and to 61 mills that burn some form of wood for heat for energy. These businesses report volumes processed or burned by species and county of origin.

Those who failed to file a report were referred for enforcement action.

What is the purpose of the Woodprocessor Report

Each year, the Maine Forest Service collects information from Maine primary woodprocessors regarding the volumes of wood processed in Maine. Volume information contained in these reports is confidential and by law shall not be made public except that summary reports may be published that uses aggregated data which do not reveal the activities of an individual person or firm. Information in this database is tabulated and used for additional purposes as well.

Notes on reading this report.

This woodprocessor report is arranged so that you can look up volumes by county, imports, exports, and state totals.

Maine's sixteen counties are listed here.

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

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

Product	*Measurement
Sawlogs	MBF
Pulpwood	cords
Biomass Chips	green tons

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

Woodflow is tallied by: Sawlogs; Pulpwood; and Whole Tree Chips and Biomass Chips.

Sawlog Species in this report

Soft wood	Spruce& Fir	White & Red Pine	Hemlock	Cedar	Other Softwood				
Hard wood	Beech	White Birch	Yellow Birch	Sugar Maple	Red(soft) Maple	Oak (all)	Ash (all)	Aspen	Other Hardwd.

Pulpwood Species in this report

Softwood	Spruce& Fir	White& Red Pine	Hemlock	Cedar	Other Softwood
Hardwood	Aspen	Other Hardwood			

Biomass Chips in this report

All Species

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

- **Maine wood processed** is wood that was cut from the stump in Maine and utilized by a Maine primary processing facility.
- **Exported from Maine without processing** is wood that was reported as being exported out of the state without primary processing by a Maine mill.
- **Imported from out-of-state for processing** is 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** is the 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

Definitions and notes

1. **Biomass Chips** are produced in the woods using the entire tree, stem or bole, branches and top. 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** are usually produced in the woods using portable chippers and are made from the lower portion of the tree minus limbs and top. These chips may not be bark free but are suitable for use in pulp mills. There are some tree length stationary chipping operations.
3. **Cords (cds)** (MFS Rules Chapter 20 Definition). 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 ranked 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** is 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** are clean, pulp quality chips, made from slabs and edgings at sawmills, etc. Measured in green tons, mill residues come from the sawlog component of the volumes reported and therefore are not drain 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 figures.
7. **Sawlogs** includes sawlogs, palletwood, boltwood and veneer.
8. **Thousand board feet (MBF)** One thousand board feet. One board foot is a piece of wood 1" thick by 12" long by 12" wide.

Sawlogs' Woodflow in Maine as Reported to the Maine Forest Service (converted to MBF)

County	Softwood						Hardwood										Grand Total
	Spruce & Fir	White & Red Pine	Hemlock	Cedar	Other softwood	Total softwood	Beech	White Birch	Yellow Birch	Sugar Maple	Red Maple	Oak	Ash	Aspen	Other hardwood	Total hardwood	
Androscoggin	79	9,152	1,699	33	18	10,981	210	619	120	927	340	536	333	109	113	3,307	14,288
Aroostook	98,464	3,270	4,360	18,371	842	125,307	344	3,315	2,429	3,463	7,170	0	1,588	66,921	2,996	88,226	213,533
Cumberland	251	19,562	2,497	200	18	22,528	55	280	438	72	94	487	36	3	25	1,490	24,018
Franklin	14,899	17,305	1,712	122	0	34,038	1,244	8,189	3,932	5,485	2,110	774	1,023	408	67	23,232	57,270
Hancock	21,739	8,496	6,205	84	6	36,530	11	722	96	64	39	29	201	145	0	1,307	37,837
Kennebec	1,482	15,183	2,964	43	7	19,679	417	790	766	943	528	1,031	380	164	93	5,112	24,791
Knox	2,516	2,843	308	27	5	5,699	5	205	32	40	10	82	80	3	0	457	6,156
Lincoln	3,580	5,613	486	3	0	9,682	19	601	32	1	48	57	47	8	0	813	10,495
Oxford	10,289	28,451	2,592	43	0	41,375	2,207	5,797	2,014	2,410	1,685	2,669	880	91	56	17,809	59,184
Penobscot	79,735	24,295	36,242	1,597	21	141,890	563	2,880	724	2,840	554	175	1,306	26,141	510	35,693	177,583
Piscataquis	47,842	9,325	3,230	504	6	60,907	590	1,889	3,068	6,649	2,438	106	1,683	9,837	78	26,338	87,245
Sagadahoc	785	2,136	193	6	0	3,120	9	25	0	0	12	174	0	1	1	222	3,342
Somerset	27,559	14,081	3,661	523	26	45,850	1,146	6,582	1,848	3,809	1,778	55	1,586	1,958	8	18,770	64,620
Waldo	5,598	7,972	1,070	281	16	14,937	15	971	39	443	16	108	242	43	8	1,885	16,822
Washington	49,035	6,123	10,092	249	27	65,526	55	272	384	223	231	23	617	718	26	2,549	68,075
York	106	20,101	1,077	0	5	21,289	84	185	8	155	54	424	37	20	1	968	22,257
Maine wood processed	363,959	193,908	78,388	22,086	997	659,338	6,974	33,322	15,930	27,524	17,107	6,730	10,039	106,570	3,982	228,178	887,516
+ Exported from Maine without processing	313,211	18,186	9,486	9,355	40	350,278	1,994	2,567	4,977	16,976	2,531	2,194	2,528	2,134	13,813	49,714	399,992
= Total harvested from Maine forests	677,170	212,094	87,874	31,441	1,037	1,009,616	8,968	35,889	20,907	44,500	19,638	8,924	12,567	108,704	17,795	277,892	1,287,508
+ Imported from out of state	40,860	15,378	595	3,277	3	60,113	1,337	7,345	929	1,945	826	980	594	34,203	1,544	49,703	109,816
Total processed by Maine Forest Products Industry	404,819	209,286	78,983	25,363	1,000	719,451	8,311	40,667	16,859	29,469	17,933	7,710	10,633	140,773	5,526	277,881	997,332

Notes: 1. Sawlogs includes, logs, veneer, boltwood, pallet-wood., etc. Cords converted to MBF @ 2 cords = 1 MBF.

2. *Other softwood* is larch, pitch pine, and a few *others*.

Pulpwood Woodflow in Maine as Reported to the Maine Forest Service (converted to cords)

County	Softwood						Hardwood			All
	Spruce & Fir	White & Red Pine	Hemlock	Cedar	Other softwood ¹	Total pulpwood	Aspen ²	Other ³ hardwood	Total hardwood	Grand Total
Androscoggin	3,677	30,102	8,689	0	5	42,473	3,472	20,748	24,220	66,693
Aroostook	96,065	1,248	13,504	0	867	111,684	11,889	130,653	142,542	254,226
Cumberland	1,579	19,785	6,541	0	31	27,936	1,772	16,672	18,444	46,380
Franklin	57,375	9,394	10,471	0	49	77,289	23,289	150,271	173,560	250,849
Hancock	46,089	2,235	11,274	0	912	60,510	7,189	59,881	67,070	127,580
Kennebec	9,050	22,671	12,364	0	286	44,371	7,532	66,766	74,298	118,669
Knox	11,245	4,891	1,480	0	8	17,624	2,452	2,276	4,728	22,352
Lincoln	13,094	10,863	3,252	0	23	27,232	1,169	2,245	3,414	30,646
Oxford	56,901	25,134	31,548	0	0	113,583	21,527	171,692	193,219	306,802
Penobscot	187,506	10,185	107,463	0	1,201	306,355	23,773	204,943	228,716	535,071
Piscataquis	108,369	3,767	29,161	0	491	141,788	6,741	134,475	141,216	283,004
Sagadahoc	2,428	4,734	895	0	6	8,063	874	1,251	2,125	10,188
Somerset	141,767	8,155	31,613	0	829	182,364	16,801	173,292	190,093	372,457
Waldo	19,249	3,184	2,956	0	497	25,886	3,889	4,068	7,957	33,843
Washington	44,301	10,235	19,559	0	1,144	75,239	11,516	192,907	204,423	279,662
York	712	25,962	15,396	0	22	42,092	180	10,245	10,425	52,517
Maine wood processed	799,407	192,545	306,166	0	6,371	1,304,489	144,065	1,342,385	1,486,450	2,790,939
+ Exported from Maine	38,107	5,687	5,841	882	0	50,517	0	55,769	55,769	106,286
= Total harvested	837,514	198,232	312,007	882	6,371	1,355,006	144,065	1,398,154	1,542,219	2,897,225
+ Imported from out of state	208,038	64,713	18,021	0	1,302	292,074	97,498	229,304	326,802	618,876
Total processed by Maine Forest Products Industry	1,007,445	257,258	324,187	0	7,673	1,596,563	241,563	1,571,689	1,813,252	3,409,815

Notes

1. Other softwood is comprised of bole chips for which specific species information was not collected.
2. Aspen volumes are based on pure loads.
3. "Other hardwood" is comprised of all hardwood species except aspen sold in pure loads.

Mill residues: 1,037,567 tons of mill residues were obtained from Maine sawmills 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** Woodflow in Maine as Reported to the Maine Forest Service (in green tons)*

harvest plus exports	All species
Androscoggin	67,684
Aroostook	307,372
Cumberland	79,189
Franklin	191,450
Hancock	11,827
Kennebec	97,684
Knox	34,668
Lincoln	35,024
Oxford	82,733
Penobscot	180,546
Piscataquis	162,017
Sagadahoc	10,003
Somerset	412,862
Waldo	77,417
Washington	36,749
York	112,486
Maine wood processed	1,899,711
+ Exported from Maine without processing	67,729
= Total harvested from Maine forests	1,967,440
+ Imported from out of state	350,418
Total processed by Maine Forest Products Industry	2,250,129

Note

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

Summary: Woodflow in Maine as Reported to the Maine Forest Service for 1993

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Product		Harvest Export, Import & Processed by Maine Forest Products Industries	Total Volume in 1993	Volumes converted to cords
Sawlogs (in MBF) 1 MBF = 1000 board feet	a	Maine wood processed	887,516	1,775,032
	b	Exported from Maine without processing	399,992	799,984
	c	Total harvested from Maine forests (a + b = c)	1,287,508	2,575,016
	d	Imported from out of state	109,816	219,632
	e	Total processed by Maine Forest Products Industry (a + d = e)	997,332	1,994,664
Pulpwood (in cords)	a	Maine wood processed	2,790,939	2,790,939
	b	Exported from Maine without processing	106,286	106,286
	c	Total harvested from Maine forests (a + b = c)	2,897,225	2,897,225
	d	Imported from out of state	618,876	618,876
	e	Total processed by Maine Forest Products Industry (a + d = e)	3,409,815	3,409,815
Biomass Chips (in green tons)	a	Maine wood processed	1,899,711	759,884
	b	Exported from Maine without processing	67,729	27,092
	c	Total harvested from Maine forests (a + b = c)	1,967,440	786,976
	d	Imported from out of state	350,418	140,167
	e	Total processed by Maine Forest Products Industry (a + d = e)	2,250,129	900,052
Totals	a	Maine wood processed		5,325,855
	b	Exported from Maine without processing		933,362
	c	Total harvested from Maine forests (a + b = c)		6,259,217
	d	Imported from out of state		978,675
	e	Total processed by Maine Forest Products Industry (a + d = e)		6,304,530

Note on conversions -- Sawlogs: 1 mbf = 2 cords Whole Tree Chips & Biomass: 1 cord = 2.5 green tons

1993

Wood Import and Exports

Origins and Destinations

To and From the State of Maine

Import Origins	Export Destinations
<ul style="list-style-type: none">• Connecticut• Massachusetts• New Hampshire• New York• Rhode Island• Vermont	<ul style="list-style-type: none">• Michigan• New Hampshire• Vermont• Washington
<ul style="list-style-type: none">• Canada - New Brunswick• Nova Scotia• Quebec	<ul style="list-style-type: none">• Canada - New Brunswick• Nova Scotia• Quebec• China• Germany• Italy• Spain• Taiwan

Please send your comments, additions, or corrections to the ...
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