

1991 Woodprocessor Report

including Import/Export Information

*Data collected under the provisions of
Title 12 MRSA § 8884*



Forest Information Center
SHS#22 Augusta, Maine 04333

What is in this report?

This report shows the volume of roundwood that was processed by Maine mills and Whole-Tree Chippers during 1991.

- 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.
- Imports 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 1991 woodprocessor reporting forms.

For 1991, reporting forms were sent to 438 *primary processing mills*, 70 *whole tree chipper operators*, 71 *loggers and brokers who export*, and to 77 *mills* that burn some form of wood for heat for energy. These businesses report volumes processed or burned by species and county of origin.

Millowners 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 roundwood 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.

Definitions and notes

1. **Sawlogs.** Includes sawlogs, palletwood, boltwood and veneer.
2. **Thousand board feet (MBF).** One thousand board feet. One *board foot* is a piece of wood 1" thick by 12" long by 12" wide.
3. **Pulpwood.** Includes: tree length; long length; 4', 8', 16'; bole &/or stem chips converted to cords for comparison with previous figures.
4. **Cords (cbs).** (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 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.
5. **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.
6. **Biomass Chips** are also 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 composing, play ground padding and mulch.
7. **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).
8. **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.

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

- **Maine wood processed is** wood that was cut from the stump in Maine.
 - **Exported from Maine without processing** is wood that was reported as being exported *out of the state* without primary processing by a Maine mill or whole-tree chipper.
 - **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

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	Oxford	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 a for calculating grand totals across product types.*

Notes on reading this report.

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

Sawlog Species in this report

Softwood	Spruce& Fir	White & Red Pine	Hemlock	Cedar	Other Softwood				
Hardwood	Beech	White Birch	Yellow Birch	Sugar Maple	Red_(soft) Maple	Oak (all)	Ash (all)	Aspen	Other Hardwood

Pulpwood Species in this report

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

Biomass Chips in this report

All Species

Summary: Woodflow in Maine as Reported to the Maine Forest Service for 1991

Product		Harvest Export, Import & Processed by Maine Forest Products Industries	Total Volume in 1991	Volumes converted to cords
Sawlogs (in MBF) 1 MBF = 1000 board feet	a	Maine wood processed	844,222	1,688,444
	b	Exported from Maine without processing	381,045	762,090
	c	Total harvested from Maine forests (a + b = c)	1,225,267	2,450,534
	d	Imported from out of state	109,058	218,116
	e	Total processed by Maine Forest Products Industry (a + d = e)	953,280	1,906,560
Pulpwood (in cords)	a	Maine wood processed	3,161,581	3,161,581
	b	Exported from Maine without processing	78,606	78,606
	c	Total harvested from Maine forests (a + b = c)	3,240,187	3,240,187
	d	Imported from out of state	629,966	629,966
	e	Total processed by Maine Forest Products Industry (a + d = e)	3,791,547	3,791,547
Biomass Chips (in green tons)	a	Maine wood processed	1,712,305	684,922
	b	Exported from Maine without processing	48,123	19,249
	c	Total harvested from Maine forests (a + b = c)	1,760,428	704,171
	d	Imported from out of state	803,496	321,398
	e	Total processed by Maine Forest Products Industry (a + d = e)	2,515,801	1,006,320
Totals	a	Maine wood processed		5,534,947
	b	Exported from Maine without processing		859,945
	c	Total harvested from Maine forests (a + b = c)		6,394,892
	d	Imported from out of state		1,169,480
	e	Total processed by Maine Forest Products Industry (a + d = e)		6,704,427

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

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 soft ²	Total softwood	Beech	White Birch	Yellow Birch	Sugar Maple	Red Maple	Oak	Ash	Aspen	Other hardwood	Total hardwood	
Androscoggin	167	8,156	2,136	39	0	10,498	434	680	243	543	76	1,065	221	314	2	3,578	14,076
Aroostook	84,560	4,208	5,710	11,264	396	106,138	519	686	1,098	3,814	2,347	2	1,217	86,135	52	95,870	202,008
Cumberland	151	11,384	2,148	7	0	13,690	148	334	88	190	315	693	101	21	0	1,890	15,580
Franklin	14,403	8,658	2,540	172	0	25,773	992	5,390	3,345	6,047	1,537	1,526	683	856	34	20,410	46,183
Hancock	27,413	5,567	10,174	193	0	43,347	0	802	63	35	8	49	203	755	0	1,915	45,262
Kennebec	477	11,178	3,650	121	2	15,428	160	1,033	635	2,303	354	1,673	705	200	28	7,091	22,519
Knox	516	2,348	570	7	2	3,443	12	301	32	38	12	481	110	17	1	1,004	4,447
Lincoln	632	5,435	1,286	13	0	7,366	3	249	26	27	2	278	128	12	1	726	8,092
Oxford	10,939	27,348	4,413	25	0	42,725	2,904	4,354	2,335	3,034	1,451	3,824	1,029	353	2	19,286	62,011
Penobscot	52,740	12,720	38,628	4,384	8	108,480	653	3,349	697	3,284	2,167	86	1,203	30,777	6	42,222	150,702
Piscataquis	55,148	3,506	9,258	887	4	68,803	704	2,809	2,008	4,286	1,713	111	1,142	5,175	41	17,989	86,792
Sagadahoc	47	3,235	310	0	0	3,592	12	73	0	20	0	123	25	264	0	517	4,109
Somerset	20,587	13,230	2,451	1,819	5	38,092	610	6,625	1,965	5,851	1,009	584	498	494	20	17,656	55,748
Waldo	4,593	5,484	3,708	424	6	14,215	61	843	29	93	46	508	323	80	5	1,988	16,203
Washington	65,224	9,965	7,822	143	512	83,666	141	746	509	346	767	13	405	7,176	16	10,119	93,785
York	12	15,039	954	0	11	16,016	57	20	17	74	137	319	43	10	15	692	16,708
Maine wood processed	337,609	147,461	95,758	19,498	946	601,272	7,410	28,294	13,090	29,985	11,941	11,335	8,036	132,639	223	242,953	844,225
+ Exported from Maine without processing	267,362	18,998	12,084	28,970	14,022	341,436	420	1,062	3,359	8,810	871	2,788	1,966	626	19,707	39,609	381,045
= Total harvested	604,971	166,459	107,842	48,468	14,968	942,708	7,830	29,356	16,449	38,795	12,812	14,123	10,002	133,265	19,930	282,562	1,225,270
+ Imported from out of state	30,615	17,097	449	2,738	256	51,155	780	7,693	2,012	2,522	592	421	633	43,234	16	57,903	109,058
Total processed by Maine Forest Products Industry	368,224	164,558	96,207	22,236	1,202	652,427	8,190	35,987	15,102	32,507	12,533	11,756	8,669	175,873	239	300,856	953,283

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..

1991 Wodprocessor Report: Forest Information Center, Maine Forest Service, 11/24/92

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 roundwood	Grand Total
Androscoggin	4,078	32,482	7,146	0	349	44,055	3,063	12,496	15,559	59,614
Aroostook	123,786	913	8,099	0	41,527	174,325	7,566	157,467	165,033	339,358
Cumberland	1,770	23,034	5,392	0	1,482	31,678	1,293	11,075	12,368	44,046
Franklin	56,492	10,635	10,963	0	6,142	84,232	18,049	137,253	155,302	239,534
Hancock	53,284	1,850	11,407	0	4,554	71,095	2,984	49,149	52,133	123,228
Kennebec	9,051	23,962	13,048	0	1,566	47,627	11,626	30,019	41,645	89,272
Knox	12,546	4,203	2,781	0	375	19,905	1,380	2,513	3,893	23,798
Lincoln	10,219	13,345	5,201	0	651	29,416	2,046	3,277	5,323	34,739
Oxford	50,087	28,882	26,670	0	5,775	111,414	23,388	152,107	175,495	286,909
Penobscot	132,840	14,739	55,895	0	11,525	214,999	16,141	179,551	195,692	410,691
Piscataquis	205,747	6,769	16,527	0	4,641	233,684	15,293	231,811	247,104	480,788
Sagadahoc	1,719	5,448	1,382	0	249	8,798	1,081	1,145	2,226	11,024
Somerset	242,823	14,977	27,455	0	21,164	306,419	30,776	232,464	263,240	569,659
Waldo	36,014	6,090	9,476	0	2,014	53,594	11,791	24,217	36,008	89,602
Washington	68,860	2,963	18,122	0	5,856	95,801	2,504	216,223	218,727	314,528
York	719	24,844	3,835	0	4,386	33,784	33	10,973	11,006	44,790
Maine wood processed	1,010,035	215,136	223,399	0	112,256	1,560,826	149,014	1,451,740	1,600,754	3,161,580
+ Exported from Maine without processing	33,865	323	618	98	4,959	39,863	2,454	36,289	38,743	78,606
= Total harvested from Maine forests	1,043,900	215,459	224,017	98	117,215	1,600,689	151,468	1,488,029	1,639,497	3,240,186
+ Imported from out of state	182,438	65,900	7,727	0	51,113	307,178	10,358	312,430	322,788	629,966
Total processed by Maine Forest Products Industry	1,192,473	281,036	231,126	0	163,369	1,868,004	159,372	1,764,170	1,923,542	3,791,546

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: 1,409,940 green tons of mill residues were obtained from Maine sawmills, boltermills, and 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	50,601
Aroostook	201,218
Cumberland	93,381
Franklin	69,815
Hancock	125,034
Kennebec	39,215
Knox	3,168
Lincoln	23,200
Oxford	134,296
Penobscot	157,640
Piscataquis	86,008
Sagadahoc	13,057
Somerset	411,245
Waldo	39,027
Washington	164,675
York	100,725
Maine wood processed	1,712,305
+ Exported from Maine	48,124
= Total harvested from Maine forests	1,760,429
+ Imported from	803,496
Total processed by Maine	2,515,801

Note

Biomass Chips are also 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 composing, play ground padding and mulch.

1991 Woodprocessor Report:

Forest Information Center, Maine Forest Service, Dec 92

1991

Wood Import and Exports

Origins and Destinations

To and From the State of Maine

Import Origins	Export Destinations
Connecticut Massachusetts New Hampshire Rhode Island Vermont	Massachusetts New Hampshire Vermont
Canada New Brunswick Quebec	Canada New Brunswick Quebec Nova Scotia Japan Turkey

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