

MAINE STATE LEGISLATURE

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2006 Wood Processor Report

Including Import and Export Information

Compiled from 2006 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 2006, 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, and imports and exports.

How was this information collected?

In 2006, the Maine Forest Service received wood processor reports from 183 primary processing mills (sawmills, pulp and paper mills), 83 portable sawmills, 48 loggers and brokers who may have exported wood, 20 concentration yards, and from 11 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 (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. Hog Fuel:

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

6. Pulpwood:

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

7. 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.







8. Sawmill residues:

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

9. 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 6.5 million cord equivalents in 2006, up slightly from 2005 consumption. Seventy-seven percent of the supply (5 million cord equivalents) was harvested in Maine, while 23% (1.5 million cord equivalents) was imported from out of state.
-  Maine landowners harvested 7 million cord equivalents of wood in 2006, up from 6.3 million cord equivalents in 2005. Twenty-eight percent (1.9 million cord equivalents) of the 2006 harvest was exported out of state, up from 2005 (1.4 million cord equivalents).
-  Maine's pulp and paper producers processed 3.4 million cord equivalents of pulpwood, the same as reported in 2005. Seventy-seven percent of the pulpwood originated from Maine's forests; 23% was imported from out of state.
-  Pulp and paper producers also processed 1.3 million tons of sawmill residues.
-  Maine's sawlog production in 2006 was 1 billion board feet, the same as 2005.
-  During 2006, Maine's forest products industry imported 1.5 million cords, while 2 million cords were exported.

SAWLOGS

2006 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	90	8,464	909	3	0	9,466	132	142	225	124	556	376	68	10	3	1,636	11,102
AROOSTOOK	143,338	5,256	9,624	12,418	3,866	174,502	172	492	3,167	9,269	893	4	45	68,057	4,025	86,124	260,626
CUMBERLAND	222	15,683	2,694	7	0	18,606	69	70	38	45	89	951	52	2	9	1,325	19,931
FRANKLIN	24,745	6,433	277	66	0	31,521	1,120	2,693	2,022	4,588	2,395	526	605	70	7	14,026	45,547
HANCOCK	1,769	5,949	1,361	55	0	9,134	99	614	40	76	146	76	93	30	301	1,475	10,609
KENNEBEC	308	16,468	1,612	46	1	18,435	181	567	103	112	383	413	283	29	13	2,084	20,519
KNOX	77	5,046	607	56	17	5,803	15	39	0	7	38	458	17	28	1	603	6,406
LINCOLN	247	8,342	1,207	10	0	9,806	20	51	27	23	31	95	18	0	0	265	10,071
OXFORD	11,724	31,631	1,412	0	0	44,767	1,118	1,270	1,380	2,063	1,861	1,209	531	51	5	9,488	54,255
PENOBSCOT	51,825	19,571	24,805	3,891	10	100,102	471	2,724	2,137	2,911	831	167	570	5,510	98	15,419	115,521
PISCATAQUIS	60,164	9,483	2,978	929	8	73,562	1,548	1,787	3,518	9,480	2,925	196	883	2,745	193	23,275	96,837
SAGADAHOC	78	2,939	371	0	0	3,388	0	9	1	7	158	29	1	4	50	259	3,647
SOMERSET	39,265	15,191	997	893	67	56,413	1,814	3,941	2,934	7,437	3,692	399	820	527	23	21,587	78,000
WALDO	1,045	5,768	451	178	0	7,442	30	252	65	56	21	99	25	21	1	570	8,012
WASHINGTON	22,329	6,673	12,466	1,597	1	43,066	30	305	72	78	19	21	24	1,424	570	2,543	45,609
YORK	14	18,346	564	6	1	18,931	12	28	18	33	100	1,214	26	7	1	1,439	20,370
Maine wood processed:	357,240	181,243	62,335	20,155	3,971	624,944	6,831	14,984	15,747	36,309	14,138	6,233	4,061	78,515	5,300	182,118	807,062
Exported from Maine without processing:	394,208	33,024	1,298	17,011	63	445,604	254	7,128	30,778	80,971	34,996	33,062	6,375	2,654	32,173	228,391	673,995
Total harvested from Maine forests:	751,448	214,267	63,633	37,166	4,034	1,070,548	7,085	22,112	46,525	117,280	49,134	39,295	10,436	81,169	37,473	410,509	1,481,057
Imported from out of state:	17,386	68,381	908	3,253	1,780	91,708	5	1,085	2,283	3,381	715	1,356	67	70,127	10,669	89,688	181,396
Total processed by Maine Forest Products Industry:	374,626	249,624	63,243	23,408	5,751	716,652	6,836	16,069	18,030	39,690	14,853	7,589	4,128	148,642	15,969	271,806	988,458

- 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

2006 Wood flow in Maine as reported to the Maine Forest Service (Converted to Cords), including both solid wood and bole/stem pulp chips (Totals do not add up due to rounding.)

County	Spruce and Fir	White and Red Pine	Hemlock	Cedar	Other Softwood	Total Softwood	Aspen	Other Hardwood	Total Hardwood	Mixed Wood	Total Pulpwood	SAWMILL RESIDUE Green Tons
ANDROSCOGGIN	542	12,325	4,749	0	1,400	19,016	2,594	11,107	13,701	0	32,717	186,289
AROOSTOOK	17,855	40	10,243	0	19,104	47,242	20,670	230,793	251,463	0	298,705	230,946
CUMBERLAND	592	16,828	11,971	0	1,360	30,751	1,556	15,229	16,785	0	47,536	47,567
FRANKLIN	46,200	6,071	10,160	0	1,603	64,034	18,907	194,813	213,720	0	277,754	30,789
HANCOCK	22,752	4,293	20,382	0	2,600	50,027	13,497	52,545	66,042	0	116,069	0
KENNEBEC	2,565	11,127	6,329	0	1,320	21,341	6,617	10,532	17,149	0	38,490	25,293
KNOX	2,889	1,485	528	0	120	5,022	793	3,318	4,111	0	9,133	0
LINCOLN	3,839	4,993	1,361	0	520	10,713	1,180	2,566	3,746	0	14,459	12,325
OXFORD	20,517	23,591	26,084	0	3,815	74,007	13,139	112,411	125,550	0	199,557	114,736
PENOBSCOT	77,789	6,515	32,918	0	45,083	162,305	26,771	211,298	238,069	0	400,374	67,261
PISCATAQUIS	84,439	1,198	15,004	0	8,704	109,345	11,876	220,720	232,596	0	341,941	67,805
SAGadahoc	209	2,430	1,144	0	240	4,023	497	960	1,457	0	5,480	0
SOMERSET	58,439	14,601	30,524	0	19,476	123,040	34,294	371,937	406,231	0	529,271	100,653
WALDO	13,289	3,143	6,582	0	360	23,374	4,168	17,296	21,464	0	44,838	29,195
WASHINGTON	61,286	3,918	17,948	0	1,160	84,312	22,758	131,218	153,976	0	238,288	1,371
YORK	66	12,052	9,327	0	240	21,685	730	10,793	11,523	0	33,208	24,978
Maine wood processed:	413,268	124,610	205,254	0	107,105	850,238	180,047	1,597,536	1,777,584	0	2,627,821	939,208
Exported from Maine without processing:	155,547	27	562	0	22,501	178,639	13,754	308,849	322,603	0	501,242	75,516
Total harvested from Maine forests:	568,815	124,638	205,816	0	129,606	1,028,876	193,802	1,906,385	2,100,187	0	3,129,063	1,014,724
Imported from out of state:	116,958	56,379	46,142	0	14,330	233,808	39,466	495,075	534,540	0	768,348	378,924
Total processed by Maine Forest Products Industry:	530,226	180,990	251,396	0	121,435	1,084,046	219,513	2,092,611	2,312,123	0	3,396,169	1,318,132

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.

2006 Wood Flow in Maine as reported to the Maine Forest Service (in Green Tons)

County	BIOMASS CHIPS	Further utilization of wood already tallied.	C AND D WASTE
		HOG FUEL	
ANDROSCOGGIN	75,278	33,973	23,260
AROOSTOOK	143,747	517,933	0
CUMBERLAND	83,303	1,519	7,816
FRANKLIN	114,429	80,657	0
HANCOCK	129,340	17,605	1,991
KENNEBEC	72,884	19,467	5,209
KNOX	6,388	1,273	1,032
LINCOLN	27,947	0	307
OXFORD	88,067	74,185	3,016
PENOBSCOT	439,159	221,239	2,026
PISCATAQUIS	147,536	43,289	1,016
SAGADAHOC	15,142	50	1,121
SOMERSET	298,584	92,832	910
WALDO	41,250	11,332	11,937
WASHINGTON	281,194	86,267	0
YORK	5,239	6,298	16,225
Maine wood processed:	1,969,487	1,207,919	75,866
Exported from Maine without processing:	362,237	74,136	0
Total harvested from Maine Forests:	2,331,724	1,282,055	75,866
Imported from out of state:	818,226	658,696	163,669
Total processed by Maine Forest Products Industry:	2,787,713	1,866,615	239,535

Wood Imports and Exports

Import Origins

States:

Connecticut
Massachusetts
New Hampshire
New Jersey
New York
Rhode Island
Vermont

Provinces:

New Brunswick
Nova Scotia
Quebec

Export Destinations

States:

Connecticut
Illinois
Indiana
Kentucky
Massachusetts
Michigan
New Hampshire
New York
Oregon
Pennsylvania
Vermont
Virginia
Wisconsin

Provinces:

New Brunswick
Quebec

Countries:

Thailand

SUMMARY**2006 Wood flow in Maine as reported to the Maine Forest Service**

Product	Harvest, Export, Import, Instate Processing	Total Volume in 2006	Total Volume converted to cords
Sawlogs (in MBF) 1 MBF = 1,000 board feet	a. Maine wood processed	807,062	1,614,123
	b. Exported from Maine without processing	673,995	1,347,990
	c. Total harvested from Maine forests (a+b=c)	1,481,057	2,962,113
	d. Imported from out of state	181,396	362,792
	f. Total processed by Maine Forest Products Industry (a+d=e)	988,458	1,976,915
	Pulpwood (in cords)	a. Maine wood processed	2,627,821
b. Exported from Maine without processing		501,242	501,242
c. Total harvested from Maine forests (a+b=c)		3,129,063	3,129,063
d. Imported from out of state		768,348	768,348
f. Total processed by Maine Forest Products Industry (a+d=e)		3,396,169	3,396,169
Biomass Chips (in green tons)		a. Maine wood processed	1,969,487
	b. Exported from Maine without processing	362,237	144,895
	c. Total harvested from Maine forests (a+b=c)	2,331,724	932,690
	d. Imported from out of state	818,226	327,291
	f. Total processed by Maine Forest Products Industry (a+d=e)	2,787,713	1,115,085
	Totals (in cords)	a. Maine wood processed	
b. Exported from Maine without processing			1,994,127
c. Total harvested from Maine forests (a+b=c)			7,023,866
d. Imported from out of state			1,458,431
f. Total processed by Maine Forest Products Industry (a+d=e)			6,488,170

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

For Biomass Chips: 1 cord = 2.5 green tons

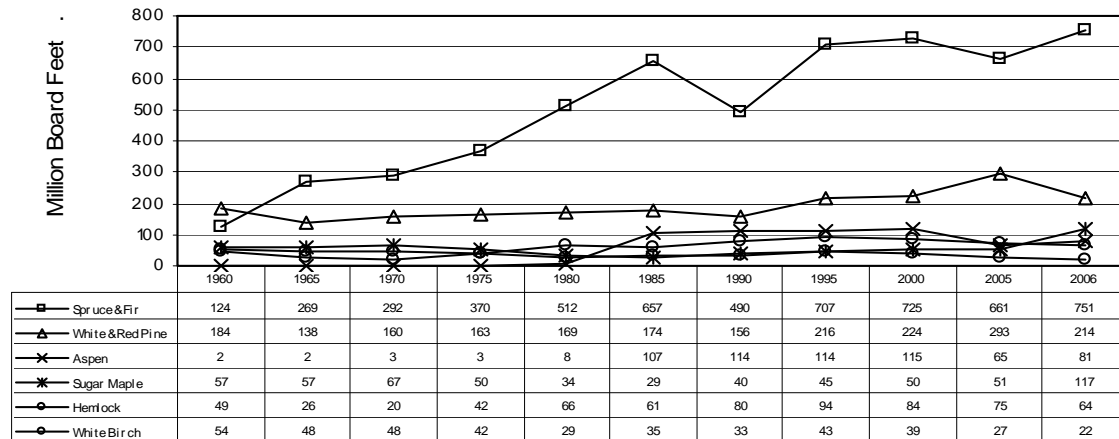
Wood Harvesting Trends (1960-2006)

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 46 years.

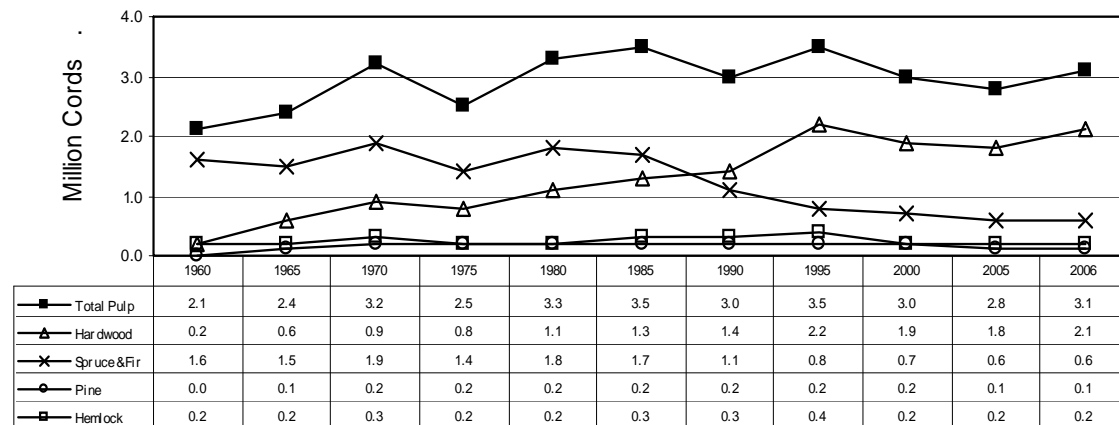
The two graphs to the right show the harvest volumes for selected species for sawlogs and pulpwood. These volumes include exported volumes.



Harvest Levels of Selected Species for Sawlogs in Maine (1960 to 2006)



Harvest Levels of Selected Species for Pulpwood in Maine (1960 to 2006)



Wood Harvesting Trends (1960-2006)

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

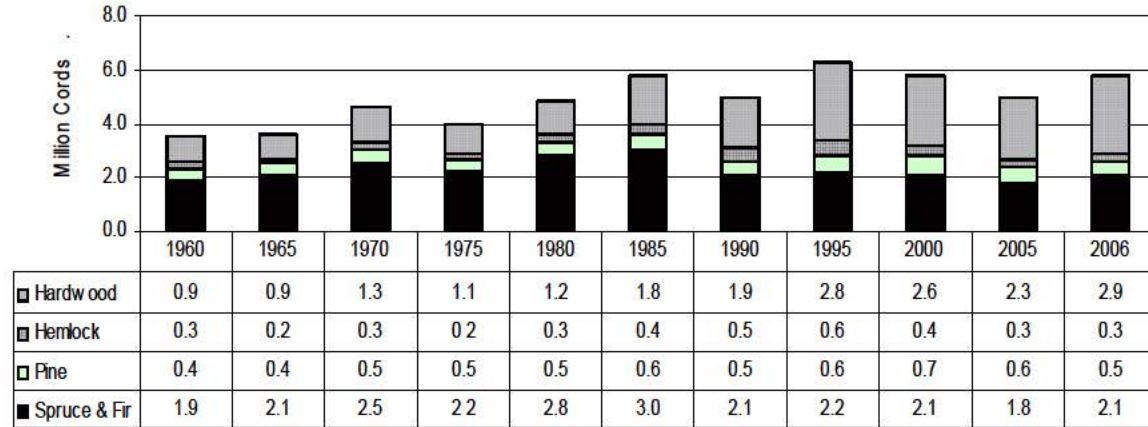


Import and Export Trends (1990-2006)

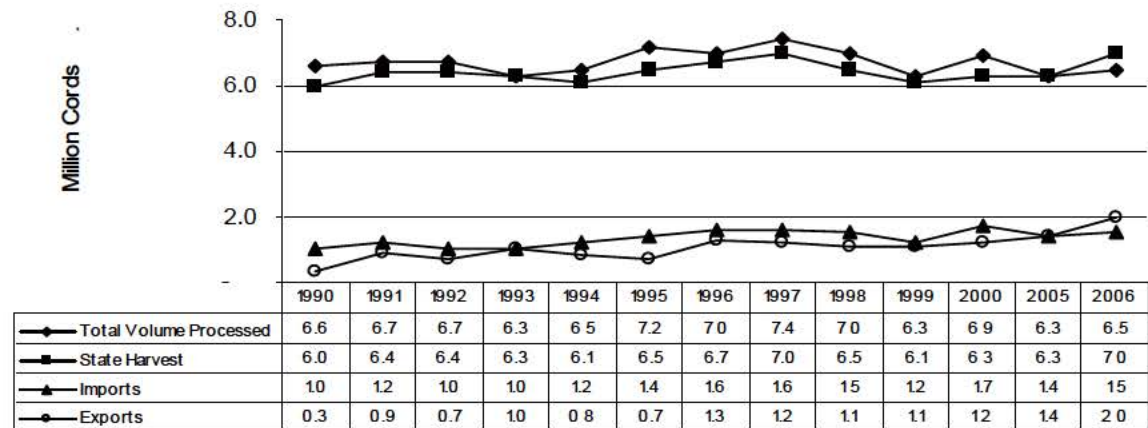
The graph to the right shows the volumes of forest products being exported from Maine, imported into Maine, and processed within Maine.



Harvest of Commercially Important Species in Maine (1960 - 2006)



Imports and Exports of Forest Products (1990 - 2006)





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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, presentations, and can provide limited one-on-one contact with individual landowners.

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