MAINE STATE LEGISLATURE

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2018 Wood Processor Report

Including Import and Export Information

Compiled from 2018 Wood Processor Reports pursuant to 12 M.R.S. § 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 2018, 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, other miscellaneous products, and imports and exports.

How was this information collected?

In 2018, the Maine Forest Service received wood processor reports from 118 primary processing mills (sawmills, pulp and paper mills), 43 portable sawmills, 91 firewood dealers, 118 loggers and brokers who may have exported wood, 25 concentration yards, and 8 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 M.R.S. §8884, sub-§3, "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 any or all of the following: tree limbs and tops, cull trees, and smaller trees not suitable for higher value products. Usually used as energy fuel, biomass chips may also be used 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. Firewood: roundwood that is burned for home heating.

6. Hog Fuel:

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

7. Pellets:

wood fuel generally made from dried wood fiber compressed into uniform diameter for burning.

8. Pulpwood:

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

9. 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.

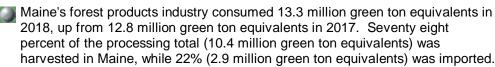
10. Sawmill residues:

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

11. 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 landowners harvested 12.5 million green ton equivalents of wood in 2018, up from 2017 (12.3 million green ton equivalents). Seventeen percent (2.1 million green ton equivalents) of the 2018 harvest was exported, down from 2017 (2.3 million green ton equivalents).

Maine's pulp and paper producers processed 6.8 million green tons of pulpwood, up from 2017 (6.4 million green ton equivalents). Seventy-five percent of the pulpwood originated from Maine's forests; 25% was imported.

Biomass harvesting volume was 2.2 million tons in 2018, down from 2017 (2.4 million tons). Biomass energy facilities consumed 2.2 million tons in 2018, down 3% from 2017 (2.3 million tons). Eighty-six percent originated from Maine's forests; 14% was imported.

Maine's sawlog processing in 2018 was 0.93 billion board feet, up from 2017 (0.86 billion board feet).

Maine's forest products industry imported 2.9 million green tons during 2018, compared to 2.8 million tons in 2017. 2.1 million green tons were exported in 2018, down from 2017 (2.3 million tons).

SAWLOGS

2018 Wood flow in Maine as reported to the Maine Forest Service (in 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 | 154 | 10,180 | 566 | 0 | 0 | 10,900 | 156 | 107 | 111 | 216 | 341 | 2,033 | 216 | 58 | 5 | 3,243 | 14,143 |
| AROOSTOOK | 212,198 | 1,721 | 40 | 12,867 | 6 | 226,832 | 812 | 4,612 | 4,519 | 10,398 | 6,560 | 29 | 706 | 60,927 | 341 | 88,904 | 315,736 |
| CUMBERLAND | 57 | 18,024 | 1,515 | 0 | 0 | 19,596 | 258 | 110 | 53 | 192 | 287 | 1,355 | 114 | 17 | 4 | 2,390 | 21,986 |
| FRANKLIN | 11,934 | 7,918 | 439 | 57 | 29 | 20,377 | 231 | 1,736 | 393 | 1,265 | 549 | 990 | 668 | 227 | 22 | 6,081 | 26,458 |
| HANCOCK | 2,434 | 10,545 | 403 | 102 | 0 | 13,484 | 38 | 349 | 180 | 500 | 93 | 191 | 330 | 641 | 751 | 3,073 | 16,557 |
| KENNEBEC | 294 | 13,882 | 2,780 | 5 | 6 | 16,967 | 168 | 710 | 128 | 327 | 392 | 1,474 | 442 | 188 | 7 | 3,836 | 20,803 |
| KNOX | 111 | 1,484 | 270 | 0 | 0 | 1,865 | 11 | 94 | 40 | 50 | 27 | 333 | 31 | 29 | 2 | 617 | 2,482 |
| LINCOLN | 159 | 7,646 | 974 | 0 | 0 | 8,779 | 1 | 11 | 13 | 50 | 21 | 519 | 13 | 8 | 0 | 636 | 9,415 |
| OXFORD | 24,536 | 30,411 | 2,303 | 0 | 0 | 57,250 | 739 | 1,068 | 922 | 1,927 | 1,323 | 2,976 | 590 | 121 | 20 | 9,686 | 66,936 |
| PENOBSCOT | 24,468 | 14,077 | 10,951 | 1,593 | 4 | 51,093 | 108 | 1,620 | 1,515 | 2,350 | 564 | 551 | 1,241 | 7,690 | 580 | 16,219 | 67,312 |
| PISCATAQUIS | 25,174 | 3,191 | 661 | 261 | 2 | 29,289 | 344 | 1,238 | 2,206 | 5,761 | 1,547 | 655 | 1,308 | 1,793 | 436 | 15,288 | 44,577 |
| SAGADAHOC | 101 | 4,424 | 109 | 0 | 0 | 4,634 | 0 | 9 | 1 | 1 | 6 | 87 | 9 | 3 | 0 | 116 | 4,750 |
| SOMERSET | 32,910 | 13,420 | 718 | 291 | 49 | 47,388 | 553 | 1,981 | 1,818 | 2,010 | 1,257 | 1,761 | 989 | 315 | 112 | 10,796 | 58,184 |
| WALDO | 3,658 | 7,087 | 567 | 265 | 0 | 11,577 | 6 | 234 | 26 | 60 | 19 | 345 | 35 | 23 | 1 | 749 | 12,326 |
| WASHINGTON | 13,713 | 4,443 | 147 | 88 | 4 | 18,395 | 20 | 161 | 157 | 351 | 148 | 44 | 237 | 4,107 | 614 | 5,839 | 24,234 |
| YORK | 75 | 22,281 | 919 | 0 | 0 | 23,275 | 215 | 69 | 30 | 69 | 366 | 532 | 66 | 3 | 0 | 1,350 | 24,625 |
| Maine wood processed: | 351,976 | 170,734 | 23,362 | 15,529 | 100 | 561,701 | 3,660 | 14,109 | 12,112 | 25,527 | 13,500 | 13,875 | 6,995 | 76,150 | 2,895 | 168,823 | 730,524 |
| Exported from Maine without processing: | 134,929 | 34,739 | 1,207 | 20,327 | 81 | 191,283 | 177 | 2,645 | 7,247 | 12,959 | 4,835 | 4,722 | 3,507 | 1,157 | 22,893 | 60,142 | 251,425 |
| Total harvested from Maine forests: | 486,905 | 205,473 | 24,569 | 35,856 | 181 | 752,984 | 3,837 | 16,754 | 19,359 | 38,486 | 18,335 | 18,597 | 10,502 | 77,307 | 25,788 | 228,965 | 981,949 |
| Imported from out of state: | 47,238 | 68,321 | 423 | 244 | 0 | 116,226 | 373 | 9,728 | 1,119 | 2,417 | 4,600 | 892 | 34 | 61,404 | 5,969 | 86,536 | 202,762 |
| Total processed by Maine Forest Products Industry: | 399,214 | 239,055 | 23,785 | 15,773 | 100 | 677,927 | 4,033 | 23,837 | 13,231 | 27,944 | 18,100 | 14,767 | 7,029 | 137,554 | 8,864 | 255,359 | 933,286 |

Notes:

- 1. Sawlogs include logs, veneer, boltwood, studwood, palletwood, etc. Green tons converted to MBF @ 5 green tons = 1 MBF.
- 2. Other Softwood includes larch, pitch pine, and others.
- 3. Sawlog volumes reported here are log volumes as scaled when delivered to the mill.

PULPWOOD

2018 Wood flow in Maine as reported to the Maine Forest Service (in Green Tons), including both solid wood and bole/stem pulp chips (Totals do not add up due to rounding)

| | Spruce | White and Red | | | Mixed / Other | Total | | Mixed / Other | Total Hardwood | Mixed | Total Pulpwood | SAWMILL RESIDUE |
|--|---------|------------------|---------|-------|------------------|-----------|---------|------------------|----------------|-------|----------------|-----------------|
| County | and Fir | Pine | Hemlock | Cedar | Softwood | Softwood | Aspen | Hardwood | | Wood | 65 (5) | Green Tons |
| ANDROSCOGGIN | * | * | * | 0 | 26,215 | 32,020 | * | 42,544 | 44,416 | 0 | 76,436 | 55,397 |
| AROOSTOOK | 5,511 | 0 | 0 | 0 | 8,092 | 13,603 | 2,117 | 889,945 | 892,062 | 0 | 905,665 | 3,987 |
| CUMBERLAND | 1,460 | * | * | 0 | 45,886 | 69,222 | 1,018 | 58,923 | 59,941 | 0 | 129,163 | 41,321 |
| FRANKLIN | 55,317 | * | * | 0 | 17,370 | 87,461 | 14,736 | 330,706 | 345,442 | 0 | 432,903 | 51,337 |
| HANCOCK | 14,753 | * | * | 0 | 57,938 | 75,587 | 5,339 | 104,841 | 110,180 | 0 | 185,767 | 5,619 |
| KENNEBEC | 5,795 | 2,461 | * | 0 | 51,713 | 65,010 | 4,415 | 95,929 | 100,344 | 0 | 165,354 | 19,523 |
| KNOX | * | 0 | * | 0 | * | 9,892 | 1,080 | 20,524 | 21,604 | 0 | 31,496 | 0 |
| LINCOLN | * | * | * | 0 | 19,558 | 21,924 | 1,492 | 26,259 | 27,751 | 0 | 49,675 | 7,689 |
| OXFORD | 30,717 | (*) | * | 0 | 45,772 | 147,643 | 17,781 | 452,880 | 470,661 | 0 | 618,304 | 105,428 |
| PENOBSCOT | 38,066 | 840 | 35,900 | 0 | 75,473 | 150,279 | 23,940 | 375,944 | 399,884 | 0 | 550,163 | 48,257 |
| PISCATAQUIS | 74,059 | 1,201 | 22,606 | 0 | 27,174 | 125,040 | 12,175 | 447,174 | 459,349 | 0 | 584,389 | 29,544 |
| SAGADAHOC | 216 | * | * | 0 | * | 14,392 | 203 | 11,995 | 12,198 | 0 | 26,590 | 0 |
| SOMERSET | 139,225 | 7,188 | * | 0 | 41,473 | 195,741 | 34,218 | 534,026 | 568,244 | 0 | 763,985 | 93,189 |
| WALDO | 4,878 | 916 | * | 0 | 12,979 | 20,884 | 3,605 | 57,281 | 60,886 | 0 | 81,770 | 26,002 |
| WASHINGTON | 10,077 | 0 | 0 | 0 | 101,282 | 111,359 | 3,774 | 219,053 | 222,827 | 0 | 334,186 | 0 |
| YORK | * | * | * | 0 | 47,391 | 66,184 | * | 72,764 | 74,744 | 0 | 140,928 | 16,950 |
| Maine wood processed: | 380,465 | 49,522 | 175,074 | 0 | 601,180 | 1,206,241 | 129,745 | 3,740,788 | 3,870,533 | 0 | 5,076,774 | 504,243 |
| Exported from Maine without processing: | 262,457 | 928 | 6,729 | 0 | 10,489 | 280,603 | 47,806 | 372,163 | 419,969 | 0 | 700,572 | 73,619 |
| Total harvested from Maine forests: | 642,922 | 50,450 | 181,803 | 0 | 611,669 | 1,486,844 | 177,551 | 4,112,951 | 4,290,502 | 0 | 5,777,346 | 577,862 |
| Imported from out of state: | 124,669 | 27,188 | 49,792 | 0 | 161,161 | 362,810 | 150,248 | 1,188,169 | 1,338,417 | 0 | 1,701,227 | 191,601 |
| Total processed by Maine Forest Products Industry: | 505,134 | 76,710 | 224,866 | 0 | 762,341 | 1,569,051 | 279,993 | 4,928,957 | 5,208,950 | 0 | 6,778,001 | 695,844 |

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

Pulpwood Notes:

* Due to a limited number of reports, data could not be displayed but is included in the totals.

- Mixed / Other Softwood is comprised of bole chips of which specific species information was not collected.
- 2. Aspen volumes are based upon pure loads.
- Mixed / Other Other Hardwood is comprised of all hardwood species except aspen sold in pure loads.

Wood Imports and Exports

2018 Wood Flow in Maine as reported to the Maine Forest Service (in Green Tons)

Further utilization

| | , | of wood already tallied. | C AND D | FIREWOOD / PELLET* |
|--|---------------|--------------------------|---------|--------------------|
| County | BIOMASS CHIPS | HOG FUEL | WASTE | CORDS |
| Androscoggin | 83,832 | 1,282 | 9,461 | 2,241 |
| Aroostook | 546,959 | 310,069 | 65 | 4,810 |
| Cumberland | 171,204 | 18,522 | 0 | 3,333 |
| Franklin | 164,259 | 50,768 | 1,295 | 2,613 |
| Hancock | 23,343 | 565 | 0 | 302 |
| Kennebec | 109,695 | 964 | 0 | 2,827 |
| Knox | 19,812 | 62 | 0 | 322 |
| Lincoln | 41,509 | 40 | 0 | 396 |
| Oxford | 101,196 | 74,531 | 0 | 2,841 |
| Penobscot | 165,584 | 12,322 | 0 | 20,553 |
| Piscataquis | 51,468 | 26,032 | 0 | 15,800 |
| SAGADAHOC | 13,782 | 50 | 0 | 375 |
| Somerset | 172,952 | 49,620 | 107 | 28,957 |
| Statewide* | 0 | 0 | 0 | 8,491 |
| Waldo | 63,294 | 5,140 | 0 | 3,807 |
| Washington | 24,382 | 15,143 | 0 | 645 |
| York | 148,842 | 9,085 | 0 | 2,876 |
| Maine wood processed: | 1,902,113 | 574,195 | 10,928 | 101,189 |
| Exported from Maine without processing: | 308,882 | 296,820 | 0 | 785 |
| Total harvested from Maine Forests: | 2,210,995 | 871,015 | 10,928 | 101,974 |
| Imported from out of state: | 301,973 | 200,708 | 43,517 | 5,481 |
| Total processed by Maine Forest Products Industry: | 2,204,086 | 774,903 | 54,445 | 106,670 |

| Import Origins | Export Destinations |
|----------------|----------------------------|
| States: | States: |
| Connecticut | Indiana |
| Maryland | Massachusetts |
| Massachusetts | Michigan |
| New Hampshire | New Hampshire |
| New York | New York |
| Rhode Island | Vermont |
| Vermont | Provinces: |
| Provinces: | New Brunswick |
| New Brunswick | Quebec |
| Nova Scotia | Countries: |
| Quebec | China |
| | Italy |
| | Thailand |

^{*} This is the eleventh Wood Processor Report to separately report firewood as a new product. Report forms were sent to known firewood dealers. In the past some firewood was uniquely identified and reported to MFS as an export, and MFS grouped these minor volumes into the pulpwood product. This by no means a complete accounting of the volume of processed firewood merchandized, sold, or distributed within Maine, or as an export or import. The only previous estimation of annual firewood consumption is a survey conducted by the State Planning Office in the early 1990's. That survey estimated an annual processing, sale, distribution and consumption of 400,000 cords. MFS will continue to improve its survey methods in order to obtain a consistent and reliable estimate of annual firewood processing.

In addition, this is the eleventh year we have received reports from Maine's pellet mills. We have included reported volumes for pellet production under this section also.

^{*}Volumes reported with no indication of originating county were identified as Statewide volume.

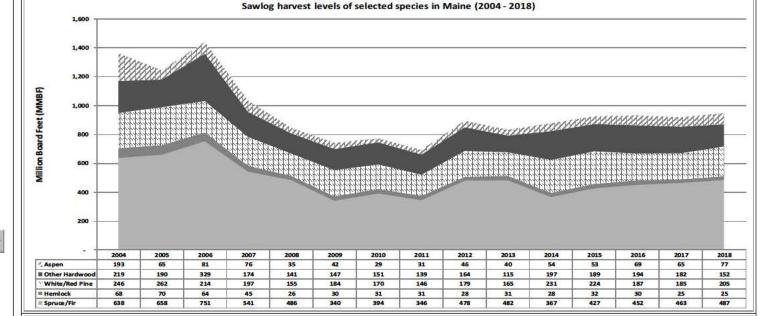
SUMMARY 2018 Wood flow in Maine as reported to the Maine Forest Service

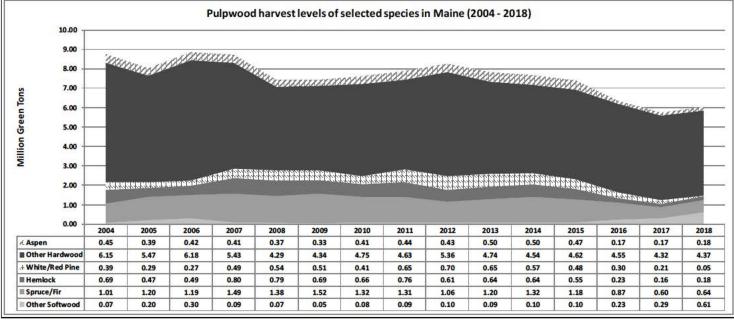
| <u>Product</u> | Harvest, Export, Import, Instate Processing | Total Volume in 2018 | Total Volume in Green Tons |
|---|--|-------------------------|-------------------------------|
| Sawlogs | a. Maine wood processed | 730,524 | 3,171,293 |
| (in MBF) 1 MBF = 1,000 board feet | b. Exported from Maine without processing | 251,425 | 1,104,804 |
| | c. Total harvested from Maine forests (a+b=c) | 981,949 | 4,276,097 |
| Note on conversions: see conversion table | d. Imported from out of state | 202,762 | 881,528 |
| at the end of report | f. Total processed by Maine Forest Products Industry (a+d=e) | 933,286 | 4,052,822 |
| Pulpwood | a. Maine wood processed | 5,076,774 | 5,076,774 |
| (in green tons) | b. Exported from Maine without processing | 700,572 | 700,572 |
| | c. Total harvested from Maine forests (a+b=c) | 5,777,346 | 5,777,346 |
| | d. Imported from out of state | 1,701,227 | 1,701,227 |
| | f. Total processed by Maine Forest Products Industry (a+d=e) | 6,778,001 | 6,778,001 |
| Biomass Chips | a. Maine wood processed | 1,902,113 | 1,902,113 |
| (in green tons) | b. Exported from Maine without processing | 308,882 | 308,882 |
| | c. Total harvested from Maine forests (a+b=c) | 2,210,995 | 2,210,995 |
| | d. Imported from out of state | 301,973 | 301,973 |
| | f. Total processed by Maine Forest Products Industry (a+d=e) | 2,204,086 | 2,204,086 |
| Firewood / Pellets | a. Maine wood processed | 101,189 | 252,973 |
| (in cords) | b. Exported from Maine without processing | 785 | 1,963 |
| | c. Total harvested from Maine forests (a+b=c) | 101,974 | 254,935 |
| Note on conversion: | d. Imported from out of state | 5,481 | 13,703 |
| 1 cord = 2.5 green tons | f. Total processed by Maine Forest Products Industry (a+d=e) | 106,670 | 266,675 |
| Totals | a. Maine wood processed | | 10,403,153 |
| (in green tons) | b. Exported from Maine without processing | | 2,116,221 |
| | c. Total harvested from Maine forests (a+b=c) | | 12,519,373 |
| | d. Imported from out of state | | 2,898,431 |
| | f. Total processed by Maine Forest Products Industry (a+d=e) | | 13,301,584 |

Wood Harvesting Trends (2004-2018)

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 15 years.

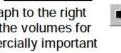
The two graphs to the right show the harvest volumes for selected species for sawlogs and pulpwood. These volumes include exported volumes.





Wood Harvesting **Trends** (2004-2018)

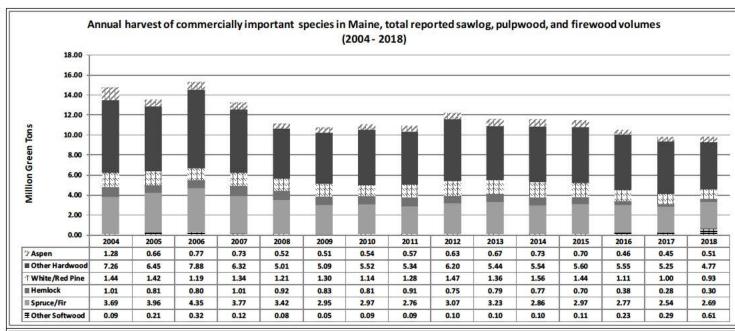
The graph to the right shows the volumes for commercially important species.

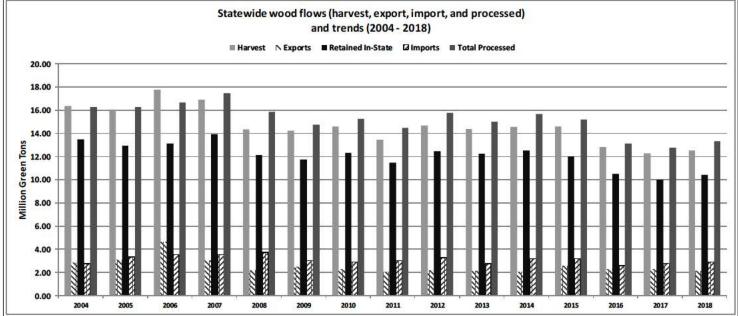


Statewide Wood Flows (2004-2018)

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







Conversion Table MBF/Weight Equivalents

for various Maine Commercial Tree Species

These conversions are used by the Maine Forest Service.

Users of this report may wish to confirm the conversion rate(s) used by individual mills and/or contractors who purchase wood.

| <u>Species</u> | MBF | <u>Tons</u> |
|------------------|-----|-------------|
| Spruce Fir | 1 | 4.2 |
| White Pine | 1 | 4.3 |
| Red Pine | 1 | 4.3 |
| Hemlock | 1 | 4.8 |
| Cedar | 1 | 3.4 |
| Tamarack (Larch) | 1 | 4.8 |
| Beech | 1 | 4.5 |
| White Birch | 1 | 4.5 |
| Yellow Birch | 1 | 5.4 |
| Sugar Maple | 1 | 5.4 |
| Red Maple | 1 | 4.5 |
| White Oak | 1 | 5.4 |
| Red Oak | 1 | 5.4 |
| Ash | 1 | 4.5 |
| Aspen/Poplar | 1 | 4.3 |
| Softwood | 1 | 4.6 |
| Hardwood | 1 | 5.4 |
| Mixed Wood | 1 | 4.6 |

For purposes of comparing volumes, a rough conversion of 1 MBF = 2 cords is commonly used.

These conversions factors are handy for making estimates and for forest inventory purposes, but are advisory only. The weight of a particular volume of wood varies greatly by species, time of year and other factors.

It is illegal in Maine to convert from one system of measurement to another for the basis of payment (e.g. convert a mill payment for pulpwood in dollars per ton to a landowner payment in dollars per cord).





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