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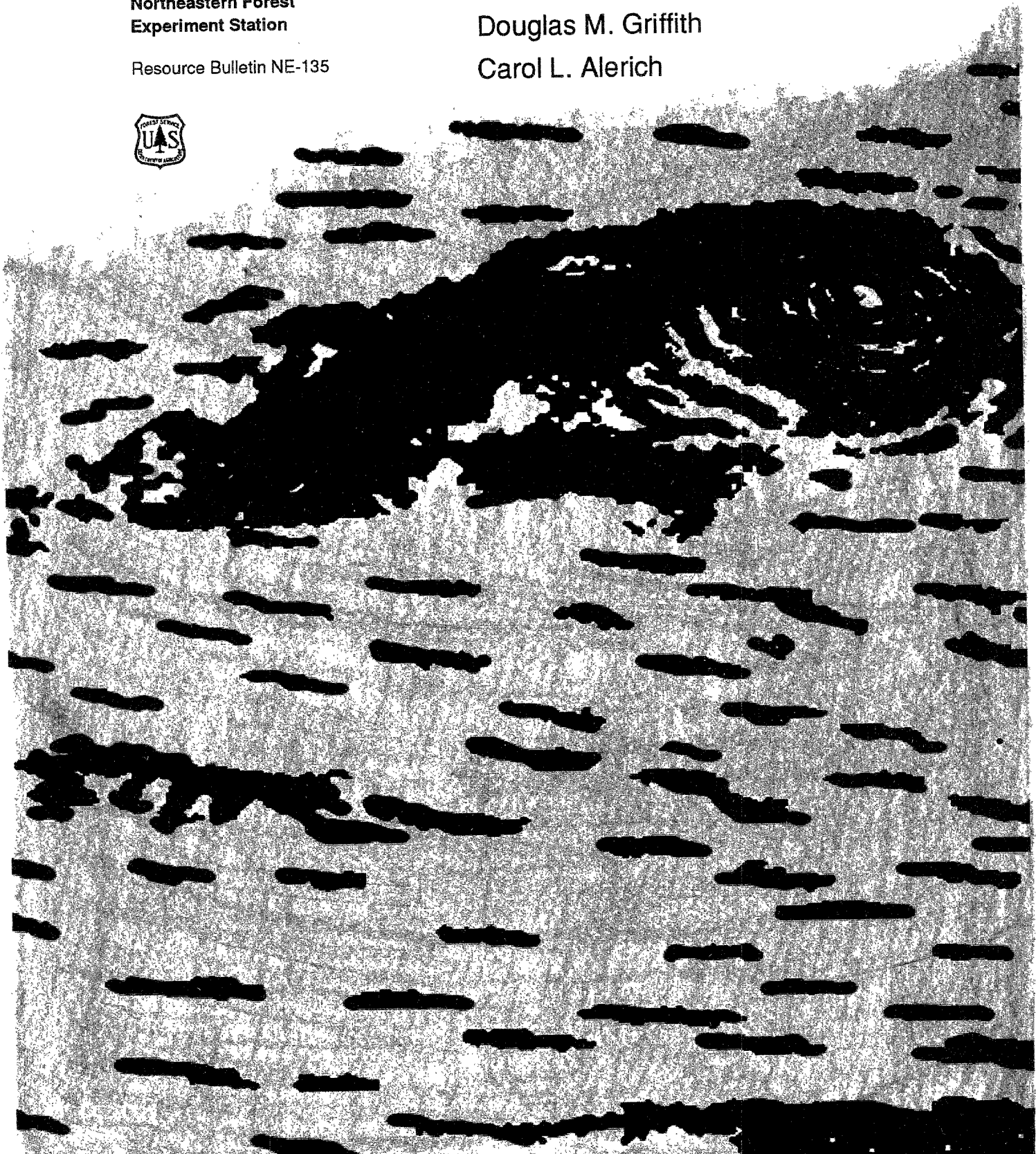
Resource Bulletin NE-135



Forest Statistics for Maine, 1995

Douglas M. Griffith

Carol L. Alerich



ABSTRACT

A statistical report on the fourth forest inventory of Maine conducted in 1994-96 by the Forest Inventory and Analysis Unit, Northeastern Forest Experiment Station. Statistics for forest area, numbers of trees, timber volume, growth, and change are displayed at the state and, when appropriate, at the unit and county levels. The current inventory indicates that there are approximately 20.9 billion cubic feet of growing-stock volume on 16.9 million acres of timberland in Maine.



ACKNOWLEDGMENTS

The Forest Inventory and Analysis Unit thanks the landowners of Maine and the Maine Forest Service for their cooperation and assistance during this inventory.

FOREST STATISTICS FOR MAINE, 1995

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HIGHLIGHTS

Forest-Land Area

- The 17.7 million acres of forest land in Maine cover almost 90 percent of the total land area (19.8 million acres).
- Ninety six percent of the forest land is classified as timberland, 2 percent is unproductive and 2 percent is classified as reserved or urban.

Timberland

- Northern hardwoods is now the most common forest-type group, covering 6.4 million acres. It replaces the spruce/fir type group, which contains 6 million acres. Other leaders are the aspen/birch group with 2.2 million acres and the white/red pine group with 1.2 million acres.
- Poletimber stands make up 41 percent (6.9 million acres) of the timberland area, sawtimber stands occupy 34 percent (5.8 million acres) and seedling-sapling stands cover the remaining 25 percent (4.2 million acres). Only 17,000 acres are classified as nonstocked.

Number of Trees

- On an average acre of timberland there are 969 trees larger than 1.0 inch in diameter at breast height (d.b.h.). Of these, 179 trees are larger than 5.0 inches d.b.h.. Balsam fir is the most common species, followed by red maple, red spruce, and northern white-cedar.

Volume

- The growing-stock volume in Maine is 20.9 billion cubic feet, or 1,234 cubic feet per acre. The current total represents a loss of 6.8 percent since the previous inventory in 1982. Red spruce is the leading species in growing-stock volume, followed by red maple, balsam fir, and white pine.
- The sawtimber volume in Maine is 47.0 billion board feet, or 2,773 board feet per acre. The current total represents a loss of 4.2 percent since the previous inventory in 1982. Red spruce also is the leading species in sawtimber volume, followed by

white pine, sugar maple, and northern white-cedar.

Growth and Removals

- Since the last inventory, the average annual net growth of growing stock has been 404.8 million cubic feet, or 23.9 cubic feet per acre per year.
- The average annual removals of growing stock totals 502.6 million cubic feet, or 29.7 cubic feet per acre per year.
- Hardwood species, primarily red maple, sugar maple, and beech, had a gain of 13.5 percent in growing-stock. Softwood species led by balsam fir (-41 percent) and red spruce (-28 percent) declined by 18.3 percent in growing-stock. Overall, the growing-stock inventory declined by 6.8 percent.

INTRODUCTION

Under the authority of the McSweeney-McNary Forest Research Act of 1928 and subsequent acts, including the Renewable Resources Planning Act of 1974 and the Renewable Resources Research Act of 1978, the USDA Forest Service conducts periodic inventories of all states to provide up-to-date information on the forest resources of the Nation. The initial inventory of Maine's forest resources was conducted in 1954-58 (Ferguson and Longwood 1960), the second was completed in 1970-71 (Ferguson and Kingsley 1972), and the third was carried out in 1980-82 (Powell and Dickson 1984). This report presents forest-resource data from the fourth inventory, which was conducted in 1994-96.

The Forest Inventory and Analysis (FIA) Unit of the Northeastern Forest Experiment Station is responsible for conducting the inventory on all public and private lands, developing the resource tables, and preparing reports such as this publication for a variety of users. This inventory was a cooperative effort of the Northeastern Forest Experiment Station, the Maine Forest Service, and the landowners of Maine.

Procedures

The sampling procedure that is used entails a two-stage approach. Aerial photography is used to classify new photopoints into appropriate stratifications based on the current land use.

Forested points are further classified by categories of cubic-foot volume. The aerial photo interpretation phase also reclassifies ground plots from previous inventories into these same strata. Ground plots for the current inventory are chosen to form a proportional sample based on the strata of the new photopoints. Emphasis was placed on choosing as many ground plots from the previous inventories as possible.

For Maine, this procedure required the photointerpretation and classification of 75,251 new photopoints and 2,675 previously sampled ground plots. Then, 2,192 ground plots from the previous inventory (844 plots established during the 1954-58 survey plus, 1348 plots established during the 1980-82 survey) were remeasured and 809 new ground plots were established. The data collected were summarized using the FINSYS computer system developed at the Northeastern Forest Experiment Station.

The Forest Service's three eastern Forest Experiment Stations have agreed to include a set of 25 core tables in each of their state resource bulletins. The format of the tables will be identical for all 37 states in these Stations' territories. Rather than being grouped as a set, the core tables have been interspersed throughout this publication according to their level of data or content. The index in this report includes both a list of tables in this publication and the corresponding core-table number.

RELIABILITY OF THE ESTIMATES

The data in this report were based on a carefully designed sample of forest conditions throughout Maine. However, because field crews did not measure every tree or every acre in the state, the data are estimates. The reliability of the estimating procedure can be judged by two important statistical measures: accuracy and precision. Statistically, accuracy refers to the success of estimating the true value; precision refers to the clustering of sample values about their own averages or to the variation among repeated samples. We are interested primarily in the accuracy of the inventory, but in most cases we can only measure its precision.

Although accuracy cannot be measured exactly, it can be checked. Preliminary tables are sent to other agencies and to outside experts familiar with the forest conditions in Maine. If questions arise, the data are reviewed and reanalyzed to resolve differences. Also, great care is taken to minimize sources of procedural error through careful training of both field and office personnel,

frequent inspection of field and office work, and application of the most reliable inventory methods.

Because of the care exercised in the inventory process, estimates of precision afford a reasonable measure of the inventory's adequacy. The precision of each estimate is described by its sampling error. Sampling errors are given with several tables in this report. The others are available upon request.

Here is an example of how the sampling error is used to indicate reliability. The estimate of timberland for Maine is 16,937,683 acres. The associated sampling error is 0.4 percent, or 67,751 acres. This means that if there are no errors in the procedure, we are 68 percent confident that the true number of acres is between 17,005,434 and 16,869,932, or $16,937,683 \pm 67,751$ (one standard deviation). Similarly, we are 95 percent confident that the true number of acres is within $\pm 135,502$ (two standard deviations). County estimates are less precise. In Maine, for example, while the sampling error for timberland at the state level is 0.4 percent, the sampling error for Kennebec County is 3.2 percent. In general, as the size of the sample decreases in relation to the total, the sampling error, expressed as a percentage of the estimate, increases. A high amount of variance within a county increases the sampling error.

For many of the tables in this report, both the last column and last row are labeled "SE." These figures are the sampling errors of the column and row totals. The last sampling error given (SE) is for the table total. To calculate the approximate sampling error (SE_{ij}) for a table cell ij, use the following formula (**this formula is reliable only for estimating sampling errors of individual cells in AREA tables**):

$$SE_{ij} = 1/P_{ij} ((P_{ij} (1 - P_{ij}))/n)^{1/2}$$

where:

n = total number of sample plots

P_{ij} = A_{ij} / A

A_{ij} = total area estimate for cell ij

A = total table area estimate

ij = row(i) and column(j)

Any estimate with a sampling error of 50 percent or more is not significantly different from zero, and estimates with errors of 25 to 50 percent are suspect. Therefore, any estimates with errors exceeding 25 percent should be used with caution.

COMPARISON BETWEEN INVENTORIES

To evaluate the condition of the forest resource, it is useful to compare the current estimates with those from the previous inventory. However, as a result of ongoing efforts to improve the efficiency of the inventory, we have made changes in procedures or definitions since 1982. Because these changes make inappropriate the direct comparison of some of the current estimates with those published by Powell and Dickson (1984), users should use caution when comparing the data in this report with those in the 1982 report. This report includes 1982 tables for which area, sawtimber, and growing-stock volume have been recalculated to allow comparisons. The changes in methods or definitions are as follows:

Land Base

Forest Inventory uses Bureau of Census estimates of total land area as the basis for calculating land area by various classes. In the 1982 report, Bureau of Census data from 1980 were used. In this report, data from 1990 are used. The Bureau of Census has made changes in its estimating procedures since 1980. The Bureau now identifies inland streams more than 200 feet wide, and bodies of water 4.5 acres and larger in area as water. Previously, the minimum sizes were 660 feet in width for streams and 40 acres for bodies of water. This procedure resulted in the decrease of total land area by 83,600 acres.

Forest Type

The algorithm that was used to determine forest type in the 1982 report produced inconsistencies when certain white pine and red maple types were calculated. These inconsistencies have been eliminated, and the 1982 data have been reprocessed using the new forest-type routine.

Stocking

A new stocking algorithm developed by Forest Service FIA personnel uses equations based on stocking guides and yield tables. This routine is being implemented by all FIA staffs to make the data generated by these units more consistent.

Volume

The 1982 growing-stock and sawtimber tables in this report were produced by subtracting the total net change by diameter class of the growth estimates from the current volume by diameter class tables. Previously, these tables were obtained by reprocessing the old data.

ADDITIONAL STUDIES

Analytical Report

It was not our intention to analyze temporal data in this publication. A separate analytical report on the salient changes in the forest resources since the previous inventory will focus specifically on changes in the character of the timberland base, inventory volume, and components of change. The timberland base will be analyzed in terms of forest type, stocking level, stand size, and the impacts of cutting activity. Changes in inventory volume will highlight shifts in composition and structure. Components of change (net growth, removals, and mortality) will provide coarse measures of forest sustainability and health.

Biomass Report

Traditional measures of volume inadequately describe the total forest resources. The 1995 inventory of Maine's forested lands included an estimate of total forest biomass based on an evaluation of available biomass-estimation techniques found in the literature. Tables of appropriate regression equations and the tree and shrub species to which these regressions can be applied are presented, as well as biomass estimates by tree component for individual counties.

Timber Products Output Report

Current data on the industrial timber harvest, the industrial and residential fuelwood harvest, and levels of utilization are needed to accurately determine total timber removed from the forests of Maine. A canvass of primary manufacturers that receive wood harvested from the state's timberlands is conducted by the Maine Department of Conservation. To supplement this information, studies are conducted on the kinds of trees harvested, the portions of trees harvested, and the resulting logging residues.

EASTWIDE DATA BASE

Not all of the information that was collected is contained in this report. For those interested in additional analysis, the Forest Service's Eastwide Data Base (EWDB) is a reduced set of the data collected in Maine. The EWDB is a computer data file developed to provide consistent data on the forest resources of the Eastern United States. These data files are available to the public at a reasonable cost.

ADDITIONAL INFORMATION

For additional information or special summaries of data, contact:

USDA Forest Service
Forest Inventory and Analysis
100 Matsonford Road
5 Radnor Corporate Center, Suite 200
Radnor, PA 19087-4585

TEL: (610) 975-4075
FAX: (610) 975-4200

Or, visit our web site on the internet at: http://www.nena.org/NE_Home/FIA_Home/

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(In acres)	
Land class	
Timberland	16,937,690
Reserved forest	334,190
Urban forest	43,380
Unproductive forest	367,620
Unproductive reserved forest	6,230
Total forest land	17,689,100
Cropland	533,640
Pasture	171,000
Idle farmland	116,540
Other farmland	19,570
Total farm land	840,760
Bog/marsh/swamp	341,000
Rights-of-way	236,180
Mining areas	55,350
Recreational areas	42,550
Industrial/commercial	21,730
Multi-family housing	6,130
Single-family housing	460,230
Other	34,720
Total other nonforest	1,197,880
Noncensus water	25,560
Total, all land classes	19,753,320

NOTE: a) all tables in this publication may not add to the row, column, or table totals due to rounding.

b) all estimates in this publication are derived from ground plots except where noted.

Table 2. Area of timberland by forest-type group and ownership class, Maine, 1995

(In thousands of acres)

Forest-type group	Ownership class				All classes	SE
	National Forest	Other public	Forest industry	Other private		
White/red pine	6.5	21.3	251.7	966.3	1,245.9	6.7
Spruce/fir	.0	247.9	3,051.0	2,712.3	6,011.2	2.4
Loblolly/shortleaf	.0	6.7	.0	.0	6.7	100.0
Oak/pine	.0	7.9	6.5	113.2	127.6	22.2
Oak/hickory	.0	20.4	12.4	420.4	453.2	11.8
Elm/ash/red maple	.0	19.2	100.5	315.0	434.7	12.2
Northern hardwoods	13.8	173.7	3,113.5	3,107.8	6,408.8	2.3
Aspen/birch	13.2	101.6	762.1	1,372.7	2,249.6	5.0
Total, all groups	33.5	598.7	7,297.8	9,007.6	16,937.7	.4
SE	44.6	10.3	2.1	1.7	.4	

Table 3. Area of timberland by stand-size class and ownership class, Maine, 1995

(In thousands of acres)

Stand-size class	Ownership class				All classes	SE
	National Forest	Other public	Forest industry	Other private		
Sawtimber	13.5	314.8	2,657.0	2,784.7	5,770.1	2.7
Poletimber	20.0	218.1	2,504.0	4,192.5	6,934.6	2.3
Sapling and seedling	.0	65.8	2,128.3	2,021.7	4,215.7	3.0
Nonstocked	.0	.0	8.5	8.7	17.3	54.0
Total, all classes	33.5	598.7	7,297.8	9,007.6	16,937.7	.4
SE	44.6	10.3	2.1	1.7	.4	

Table 4. Area of timberland by ownership class and stocking class of growing-stock trees, Maine, 1995

(In thousands of acres)

Ownership class	Stocking class					All classes	SE
	Nonstocked	Poorly stocked	Moderately stocked	Fully stocked	Over-stocked		
National Forest	.0	.0	.0	20.1	13.4	33.5	44.6
Other public	.0	62.8	212.6	254.5	68.9	598.7	10.3
Forest industry	15.7	650.0	2,208.7	3,417.9	1,005.6	7,297.8	2.1
Other private	35.3	746.0	2,613.0	4,472.0	1,141.3	9,007.6	1.7
All classes	51.0	1,458.7	5,034.2	8,164.5	2,229.2	16,937.7	.4
SE	33.3	6.3	3.0	2.0	4.9	.4	

Table 5. Area of timberland by forest type, forest-type group, and stand-size class, Maine, 1982

(in thousands of acres)

Forest type	Stand-size class				All classes	SE
	Saw-timber	Pole-timber	Sapling and seedling	Non-stocked		
Red pine	10.4	9.5	.0	.0	19.8	70.8
White pine	291.6	137.5	38.5	.0	467.6	11.3
White pine/hemlock	79.7	56.9	17.8	.0	154.3	19.8
Hemlock	316.0	190.9	9.5	.0	516.3	12.4
White/red pine group	697.6	394.8	65.7	.0	1,158.0	7.5
Balsam fir	431.8	1,195.9	597.4	8.4	2,233.5	6.0
Red spruce	286.6	675.9	50.9	.0	1,013.3	9.4
Red spruce/balsam fir	924.8	1,404.4	425.0	10.5	2,764.7	5.4
White spruce	28.7	74.0	19.2	4.7	126.5	27.1
Black spruce	.0	145.2	139.2	.0	284.4	18.2
Northern white-cedar	500.5	498.1	63.2	.0	1,061.7	8.9
Tamarack	12.8	32.7	34.0	.0	79.6	33.3
Spruce/fir group	2,185.1	4,026.2	1,328.9	23.6	7,563.7	2.5
Wh. pine/no.red oak/wh. ash	69.8	66.4	15.0	.0	151.2	18.7
Other oak/pine	.0	.0	4.1	.0	4.1	100.0
Oak/pine group	69.8	66.4	19.1	.0	155.3	18.4
Post, black, or bear oak	.0	.0	8.2	.0	8.2	70.7
White oak/red oak/hickory	8.5	4.0	4.0	.0	16.5	49.6
Northern red oak	20.5	86.4	8.3	.0	115.2	21.3
Hawthorn/reverting field	.0	.0	4.1	.0	4.1	100.0
Red maple/central hardwood	.0	20.7	.0	.0	20.7	44.1
Mixed central hardwoods	40.9	126.0	46.8	.0	213.8	15.5
Oak/hickory group	69.9	237.2	71.4	.0	378.5	11.1
Black ash/Amer. elm/red maple	17.9	123.6	39.0	.0	180.5	22.6
Red maple(lowland)	12.4	14.3	3.6	.0	30.3	42.5
Red maple(upland)	.0	18.8	9.5	.0	28.3	54.5
Willow	.0	.0	51.6	.0	51.6	39.4
American elm/green ash	.0	16.6	.0	.0	16.6	50.0
Elm/ash/red maple group	30.3	173.3	103.7	.0	307.3	16.3
Sugar maple/beech/yellow birch	1,744.4	1,471.1	259.3	.0	3,474.8	4.6
Black Cherry	.0	20.3	41.2	.0	61.4	37.7
Red maple/northern hardwoods	159.4	852.2	209.3	.0	1,220.8	7.9
Pin cherry/reverting field	4.4	10.0	175.4	8.9	198.7	20.0
Mixed northern hardwoods	126.6	292.3	131.1	.0	550.0	12.1
Northern hardwoods group	2,034.7	2,645.9	816.3	8.9	5,505.7	3.3
Aspen	67.6	707.2	358.1	.0	1,132.9	8.5
Paper birch	47.4	539.1	137.7	.0	724.2	11.1
Gray birch	.0	73.8	134.5	.0	208.4	18.8
Aspen/birch group	115.0	1,320.2	630.3	.0	2,065.5	6.1
All forest types	5,202.3	8,864.0	3,035.4	32.5	17,134.1	.4
SE	3.4	2.2	4.6	51.7	.4	

Table 6. Area of timberland by forest type, forest-type group, and stand-size class, Maine, 1995

(In thousands of acres)

Forest type	Stand-size class				All classes	SE
	Saw-timber	Pole-timber	Sapling and seedling	Non-stocked		
Jack pine	.0	6.4	.0	.0	6.4	100.0
Red pine	19.1	6.6	.0	.0	25.7	49.9
White pine	420.1	85.0	33.2	2.2	540.5	10.5
White pine/hemlock	131.1	33.2	.0	.0	164.3	20.1
Hemlock	372.3	123.5	13.3	.0	509.0	11.1
White/red pine group	942.5	254.6	46.5	2.2	1,245.9	6.7
Balsam fir	177.1	596.4	1,044.9	12.3	1,830.8	5.4
Red spruce	404.1	434.6	62.9	.0	901.7	7.9
Red spruce/balsam fir	434.3	594.1	458.4	.0	1,486.8	6.2
White spruce	33.3	72.8	55.6	.0	161.7	19.4
Black spruce	14.0	105.4	75.1	.0	194.5	17.7
Northern white-cedar	810.8	445.3	76.4	.0	1,332.5	6.3
Tamarack	13.2	64.0	26.0	.0	103.2	24.9
Spruce/fir group	1,887.0	2,312.5	1,799.3	12.3	6,011.2	2.4
Pitch pine	6.7	.0	.0	.0	6.7	100.0
Loblolly/shortleaf group	6.7	.0	.0	.0	6.7	100.0
Wh. pine/no.red oak/wh. ash	42.5	62.6	13.0	2.7	120.8	22.8
Other oak/pine	6.8	.0	.0	.0	6.8	100.0
Oak/pine group	49.3	62.6	13.0	2.7	127.6	22.2
White oak/red oak/hickory	6.5	23.0	.0	.0	29.5	50.2
Northern red oak	46.7	102.9	14.7	.0	164.4	20.6
Hawthorn/reverting field	.8	.0	12.8	.0	13.6	67.0
Red maple/central hardwood	13.7	6.5	12.5	.0	32.8	45.0
Mixed central hardwoods	60.8	152.2	.0	.0	213.0	17.8
Oak/hickory group	128.5	284.6	40.1	.0	453.2	11.8
Black ash/Amer. elm/red maple	25.6	85.8	48.9	.0	160.2	20.5
Red maple(lowland)	6.4	65.4	20.7	.0	92.5	26.6
Red maple(upland)	.0	70.3	19.6	.0	89.9	26.9
Willow	6.7	6.6	79.0	.0	92.2	26.0
Elm/ash/red maple group	38.6	228.1	168.1	.0	434.7	12.2
Sugar maple/beech/yellow birch	1,989.5	1,479.2	396.7	.0	3,865.4	3.3
Black Cherry	.0	24.1	33.9	.0	58.0	32.2
Red maple/northern hardwoods	299.5	809.9	429.4	.0	1,538.8	6.3
Pin cherry/reverting field	.0	6.8	126.1	.0	132.8	21.4
Mixed northern hardwoods	223.8	366.7	223.3	.0	813.9	8.9
Northern hardwoods group	2,512.8	2,686.6	1,209.4	.0	6,408.8	2.3
Aspen	143.0	590.9	477.4	.0	1,211.3	6.9
Paper birch	59.3	474.6	356.1	.0	890.0	8.2
Gray birch	2.2	40.1	106.0	.0	148.3	20.5
Aspen/birch group	204.5	1,105.6	939.5	.0	2,249.6	5.0
All forest types	5,770.1	6,934.6	4,215.7	17.3	16,937.7	.4
SE	2.7	2.3	3.0	54.0	.4	

Table 7. Area of timberland by forest-type group and stocking class of growing-stock trees, Maine, 1982

(In thousands of acres)

Forest-type group	Stocking class					All classes	SE
	Nonstocked	Poorly stocked	Moderately stocked	Fully stocked	Over-stocked		
White/red pine	4.0	145.3	324.2	622.9	61.7	1,158.0	7.5
Spruce/fir	28.2	723.2	2,450.4	4,096.8	265.2	7,563.7	2.5
Oak/pine	.0	.0	49.5	93.4	12.3	155.3	18.4
Oak/hickory	4.1	26.8	130.7	205.1	11.8	378.5	11.1
Elm/ash/red maple	28.6	72.8	117.6	88.4	.0	307.3	16.3
Northern hardwoods	60.9	791.3	1,822.3	2,667.1	164.1	5,505.7	3.3
Aspen/birch	.0	201.4	468.6	1,274.3	121.2	2,065.5	6.1
Total, all groups	125.7	1,960.8	5,363.2	9,047.9	636.4	17,134.1	.4
SE	24.0	6.3	3.4	2.1	11.3	.4	

Table 8. Area of timberland by forest-type group and stocking class of growing-stock trees, Maine, 1995

(In thousands of acres)

Forest-type group	Stocking class					All classes	SE
	Nonstocked	Poorly stocked	Moderately stocked	Fully stocked	Over-stocked		
White/red pine	2.2	97.1	318.1	662.4	166.1	1,245.9	6.7
Spruce/fir	18.7	555.3	2,052.1	2,661.9	723.2	6,011.2	2.4
Loblolly/shortleaf	.0	.0	.0	6.7	.0	6.7	100.0
Oak/pine	2.7	6.5	51.8	58.8	7.7	127.6	22.2
Oak/hickory	9.7	42.7	103.7	229.9	67.3	453.2	11.8
Elm/ash/red maple	.0	95.4	137.6	132.1	69.6	434.7	12.2
Northern hardwoods	17.7	533.6	1,981.2	3,269.9	606.5	6,408.8	2.3
Aspen/birch	.0	128.1	389.9	1,142.8	588.9	2,249.6	5.0
Total, all groups	51.0	1,458.7	5,034.2	8,164.5	2,229.2	16,937.7	.4
SE	33.3	6.3	3.0	2.0	4.9	.4	

Table 9. Area of timberland by forest-type group and stocking class of all live trees, Maine, 1982

(In thousands of acres)

Forest-type group	Stocking class					All classes	SE
	Nonstocked	Poorly stocked	Moderately stocked	Fully stocked	Over-stocked		
White/red pine	.0	47.6	290.7	667.4	152.3	1,158.0	7.5
Spruce/fir	23.6	329.4	1,692.0	4,743.6	775.1	7,563.7	2.5
Oak/pine	.0	.0	16.2	114.7	24.4	155.3	18.4
Oak/hickory	.0	7.7	87.2	247.4	36.2	378.5	11.1
Elm/ash/red maple	.0	38.7	98.0	142.1	28.6	307.3	16.3
Northern hardwoods	8.9	135.2	1,111.6	3,449.8	800.3	5,505.7	3.3
Aspen/birch	.0	65.1	409.9	1,322.7	267.8	2,065.5	6.1
Total, all groups	32.5	623.8	3,705.6	10,687.7	2,084.6	17,134.1	.4
SE	51.7	11.5	4.4	1.8	6.1	.4	

Table 10. Area of timberland by forest-type group and stocking class of all live trees, Maine, 1995

(In thousands of acres)

Forest-type group	Stocking class					All classes	SE
	Nonstocked	Poorly stocked	Moderately stocked	Fully stocked	Over-stocked		
White/red pine	2.2	64.0	307.1	663.8	208.6	1,245.9	6.7
Spruce/fir	12.3	355.6	1,823.8	2,835.4	984.1	6,011.2	2.4
Loblolly/shortleaf	.0	.0	.0	6.7	.0	6.7	100.0
Oak/pine	2.7	6.5	36.1	68.9	13.3	127.6	22.2
Oak/hickory	.0	14.3	98.9	259.0	81.0	453.2	11.8
Elm/ash/red maple	.0	69.5	136.1	120.6	108.6	434.7	12.2
Northern hardwoods	.0	237.6	1,412.1	3,468.1	1,291.1	6,408.8	2.3
Aspen/birch	.0	88.3	320.8	1,090.7	749.8	2,249.6	5.0
Total, all groups	17.3	835.9	4,134.8	8,513.3	3,436.5	16,937.7	.4
SE	54.0	8.4	3.4	1.9	3.7	.4	

Table 11. Area of timberland by forest-type group and basal-area class, Maine, 1982

(In thousands of acres)

Forest-type group	Basal area class (square feet per acre)					All classes	SE
	0-49	50-99	100-149	150-199	200+		
White/red pine	37.5	295.4	471.4	286.5	67.2	1,158.0	7.5
Spruce/fir	615.9	1,836.9	2,695.0	2,000.4	415.5	7,563.7	2.5
Oak/pine	10.9	28.7	76.5	30.9	8.3	155.3	18.4
Oak/hickory	38.6	136.1	191.4	4.2	8.2	378.5	11.1
Elm/ash/red maple	86.7	157.0	35.4	28.4	.0	307.3	16.3
Northern hardwoods	545.3	1,735.0	2,592.6	579.2	53.6	5,505.7	3.3
Aspen/birch	398.1	642.6	633.9	370.0	20.9	2,065.5	6.1
Total, all groups	1,733.1	4,831.7	6,696.2	3,299.6	573.7	17,134.1	.4
SE	6.4	3.6	2.8	4.7	12.1	.4	

Table 12. Area of timberland by forest-type group and basal-area class, Maine, 1995

(In thousands of acres)

Forest-type group	Basal area class (square feet per acre)					All classes	SE
	0-49	50-99	100-149	150-199	200+		
White/red pine	36.2	198.7	468.1	422.1	120.7	1,245.9	6.7
Spruce/fir	983.7	1,458.5	2,043.4	1,188.4	337.2	6,011.2	2.4
Loblolly/shortleaf	.0	.0	.0	6.7	.0	6.7	100.0
Oak/pine	16.5	15.6	62.3	33.1	.0	127.6	22.2
Oak/hickory	12.9	168.9	209.0	48.6	13.7	453.2	11.8
Elm/ash/red maple	136.8	200.2	71.3	26.4	.0	434.7	12.2
Northern hardwoods	779.0	1,829.6	2,896.2	876.6	27.3	6,408.8	2.3
Aspen/birch	604.7	658.2	659.4	308.0	19.2	2,249.6	5.0
Total, all groups	2,569.9	4,529.8	6,409.8	2,910.0	518.1	16,937.7	.4
SE	4.3	3.3	2.5	4.2	11.0	.4	

Table 13. Number of trees (5.0+ inches d.b.h.) on timberland by species and tree class, Maine, 1995

(In thousands of trees)										
Species group	Tree class								All classes	SE
	Preferred	Acceptable	All growing stock	Rough cull	Rotten cull	All live	Salvable dead	Nonsalvable dead		
Balsam fir	11,081	426,184	437,266	4,047	4,428	445,741	17,638	193,680	657,059	2.6
Tamarack	745	23,271	24,016	947	268	25,231	1,116	4,786	31,133	15.5
White spruce	4,381	50,363	54,744	1,034	391	56,170	2,489	3,959	62,618	7.0
Black spruce	1,685	53,533	55,219	415	208	55,842	1,912	4,517	62,271	13.3
Red spruce	26,433	348,357	374,790	4,815	2,141	381,746	11,033	30,160	422,939	3.8
Red pine	325	6,753	7,079	360	0	7,439	148	150	7,737	32.4
White pine	4,983	136,500	141,483	6,323	1,342	149,148	1,881	11,473	162,503	6.9
Northern white-cedar	4,338	285,332	289,670	24,953	25,430	340,053	11,723	36,061	387,837	5.0
Hemlock	4,358	137,669	142,026	7,094	1,781	150,901	2,611	5,158	158,671	5.5
Other softwoods	201	2,942	3,143	564	65	3,772	171	816	4,759	39.1
Total softwoods	58,531	1,470,904	1,529,435	50,554	36,054	1,616,043	50,721	290,762	1,957,526	1.8
Red maple	1,831	363,510	365,341	22,851	17,416	405,608	5,844	25,843	437,296	2.8
Sugar maple	1,887	149,560	151,447	6,710	5,932	164,088	1,118	6,447	171,653	4.6
Yellow birch	813	113,745	114,557	11,741	5,685	131,984	2,092	11,111	145,187	3.6
Paper birch	1,486	182,929	184,416	4,823	3,552	192,792	6,119	22,753	221,664	4.4
Gray birch	33	20,780	20,813	949	548	22,310	931	8,860	32,101	10.1
Beech	92	145,945	146,037	13,111	9,853	169,002	8,410	19,361	196,773	4.9
White ash	596	43,006	43,602	830	817	45,249	549	1,239	47,037	7.7
Black ash	0	15,192	15,192	738	1,048	16,978	902	5,729	23,609	12.3
Aspen	1,774	135,439	137,213	1,212	2,081	140,506	4,323	19,751	164,581	6.5
White oaks	0	3,052	3,052	36	118	3,206	181	316	3,703	34.5
Red oaks	1,240	56,749	57,989	1,234	463	59,687	612	1,454	61,753	8.1
Basswood	0	3,630	3,630	137	169	3,935	0	159	4,094	20.3
Elm	0	4,530	4,530	129	127	4,786	373	2,297	7,457	14.3
Other commercial hardwoods	36	8,926	8,962	10,094	1,692	20,748	894	3,946	25,588	10.2
Noncommercial hardwoods	0	364	364	24,487	2,977	27,828	1,642	6,587	36,057	6.4
Total hardwoods	9,789	1,247,357	1,257,145	99,085	52,478	1,408,708	33,991	135,854	1,578,554	1.6
Total, all species	68,320	2,718,260	2,786,580	149,639	88,532	3,024,752	84,713	426,616	3,536,080	1.1
SE	4.7	1.2	1.2	2.8	3.5	1.1	3.5	2.2	1.1	

Table 14. Number of growing-stock trees (5.0+ inches d.b.h.) on timberland by species and diameter class, Maine, 1995

(In thousands of trees)

Species group	Diameter class (inches at breast height)										All classes	SE
	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0+		
Balsam fir	264,800	115,667	40,557	12,145	3,299	732	65	0	0	0	437,266	3.1
Tamarack	11,521	6,104	3,020	2,067	681	358	133	66	65	0	24,016	17.3
White spruce	23,479	15,666	6,934	4,633	2,121	1,080	476	131	225	0	54,744	7.0
Black spruce	32,461	14,337	5,772	1,873	583	161	33	0	0	0	55,219	13.5
Red spruce	147,593	108,457	62,885	33,529	13,367	6,073	1,910	651	323	0	374,790	4.0
Red pine	2,585	1,876	1,070	565	461	271	216	33	0	0	7,079	34.7
White pine	41,043	28,579	20,034	16,003	12,670	8,250	6,188	3,564	4,478	674	141,483	7.1
Northern white-cedar	107,718	82,772	46,822	27,437	14,003	6,504	3,027	903	485	0	289,670	5.5
Hemlock	47,025	37,979	23,085	15,158	9,730	4,801	2,210	1,014	974	49	142,026	5.7
Other softwoods	1,233	589	447	350	290	166	67	0	0	0	3,143	44.7
Total softwoods	679,459	412,025	210,625	113,760	57,205	28,398	14,325	6,363	6,551	723	1,529,434	1.9
Red Maple	165,958	101,600	54,922	23,086	10,568	4,996	1,985	1,088	1,103	34	365,341	2.9
Sugar maple	49,583	36,689	25,845	15,542	10,105	5,410	3,223	1,977	2,941	130	151,447	4.7
Yellow birch	41,230	28,159	19,539	11,383	6,227	3,749	2,183	1,155	864	67	114,557	3.9
Paper birch	88,627	55,170	27,160	9,114	3,192	816	239	66	33	0	184,416	4.7
Gray birch	16,768	3,425	587	33	0	0	0	0	0	0	20,813	11.5
Beech	65,677	39,359	23,175	9,561	5,175	1,925	810	321	33	0	146,037	5.2
White ash	18,840	12,253	6,313	3,253	1,636	817	198	118	101	73	43,602	7.8
Black ash	9,561	3,400	1,172	674	221	132	0	32	0	0	15,192	13.1
Aspen	47,531	40,833	24,435	13,251	7,006	2,921	666	332	207	31	137,213	6.9
White oaks	1,486	1,001	293	80	80	74	0	36	0	0	3,052	36.8
Red oaks	21,331	15,493	9,449	5,082	2,632	2,107	783	565	546	0	57,989	8.1
Basswood	1,017	1,145	608	369	166	234	27	63	0	0	3,630	20.9
Elm	2,510	1,389	465	102	63	0	0	0	0	0	4,530	16.5
Other hardwoods	4,837	2,485	1,166	429	212	99	64	0	34	0	9,326	13.6
Total hardwoods	534,957	342,403	195,130	91,960	47,285	23,281	10,178	5,753	5,863	336	1,257,146	1.7
Total, all species	1,214,416	754,429	405,755	205,720	104,490	51,679	24,503	12,116	12,414	1,059	2,786,580	1.2
SE	1.5	1.5	1.6	2.0	2.6	3.3	4.7	6.3	6.3	19.3	1.2	

Table 15. Number of standing dead trees (5.0+ inches d.b.h.) on timberland by species, condition class, and diameter groups, Maine, 1995

(In thousands of trees)

Species group	Intact top				Broken top				Total all trees	SE
	5.0- 10.9	11.0- 14.9	15+	Total	5.0- 10.9	11.0- 14.9	15+	Total		
Balsam fir	16,197	734	0	16,931	181,182	8,371	853	190,407	207,338	3.7
Tamarack	1,127	382	35	1,545	3,530	496	193	4,220	5,765	25.8
White spruce	1,361	99	66	1,526	4,170	294	33	4,497	6,024	13.8
Black spruce	1,045	37	34	1,117	4,834	102	33	4,970	6,086	18.1
Red spruce	6,063	548	258	6,869	26,790	3,579	945	31,314	38,183	5.3
Red pine	0	0	0	0	220	34	0	254	254	42.6
White pine	3,042	342	125	3,509	6,903	1,613	1,124	9,640	13,149	9.7
Northern white-cedar	11,681	3,324	899	15,905	22,007	5,891	2,022	29,920	45,825	6.6
Hemlock	1,388	129	131	1,648	4,656	559	321	5,536	7,184	11.2
Other softwoods	179	32	0	211	535	241	0	776	987	44.9
Total softwoods	42,083	5,629	1,549	49,261	254,828	21,180	5,527	281,535	330,796	2.8
Red maple	3,990	496	363	4,850	21,451	3,803	1,094	26,347	31,197	5.1
Sugar maple	1,222	98	96	1,417	3,626	1,097	1,268	5,991	7,407	8.7
Yellow birch	1,338	295	132	1,766	6,944	2,095	2,209	11,247	13,013	6.9
Paper birch	3,719	394	105	4,218	21,207	2,475	384	24,065	28,284	6.2
Gray birch	727	0	0	727	9,001	0	0	9,001	9,727	11.5
Beech	4,591	686	123	5,400	15,508	4,443	1,799	21,750	27,150	7.3
White ash	100	100	32	233	1,252	204	33	1,489	1,722	19.2
Black ash	2,464	131	0	2,595	3,354	353	199	3,907	6,502	18.1
Aspen	2,779	355	124	3,258	17,854	1,727	585	20,166	23,424	8.1
White oaks	108	0	0	108	389	0	0	389	497	50.0
Red oaks	588	33	0	621	1,197	82	66	1,345	1,966	19.5
Basswood	0	0	0	0	125	0	33	159	159	44.8
Elm	391	71	0	462	1,499	289	420	2,209	2,671	17.7
Other commercial hardwoods	1,312	0	0	1,312	3,426	33	34	3,493	4,805	15.9
Noncommercial hardwoods	1,437	0	0	1,437	6,269	162	215	6,646	8,083	10.2
Total hardwoods	24,767	2,661	975	28,403	113,102	16,763	8,339	138,205	166,607	2.7
Total, all species	66,850	8,289	2,525	77,664	367,930	37,943	13,866	419,739	497,403	2.0
SE	3.7	8.6	12.6	3.6	2.3	3.9	5.4	2.2	2.0	

Table 16. Number of live trees (1.0+ inches d.b.h.) on timberland by species and diameter class, Maine, 1995

(In thousands of trees)

Species group	Diameter class (inches at breast height)						
	1.0-2.9	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9
Balsam fir	3,641,878	747,177	268,552	117,304	42,932	12,756	3,399
Tamarack	20,262	16,803	12,013	6,400	3,183	2,165	745
White spruce	136,471	61,496	23,886	15,765	7,723	4,730	2,121
Black spruce	97,261	52,333	32,588	14,407	6,033	1,999	620
Red spruce	629,409	230,164	149,381	109,341	65,773	34,242	13,728
Red pine	6,948	5,061	2,880	1,909	1,103	565	461
White pine	163,008	70,571	42,697	29,385	22,253	17,336	12,911
Northern white-cedar	236,225	147,978	118,553	91,917	62,671	34,961	17,854
Hemlock	199,616	82,701	48,425	38,611	27,421	16,603	10,356
Other softwoods	802	1,167	1,798	653	447	350	290
Total softwoods	5,131,882	1,415,451	700,772	425,693	239,540	125,707	62,486
Red maple	1,197,281	322,791	182,076	109,279	59,465	28,660	13,482
Sugar maple	373,218	104,351	52,939	38,188	27,193	17,622	11,606
Yellow birch	523,170	101,427	45,216	30,895	21,030	15,385	8,302
Paper birch	681,811	197,229	92,003	57,451	28,209	10,104	3,554
Gray birch	164,987	45,522	18,078	3,579	620	33	0
Beech	534,612	145,758	74,454	43,839	25,872	12,962	6,749
White ash	169,259	43,450	19,409	12,457	6,515	3,621	1,702
Black ash	59,693	27,596	10,666	3,652	1,341	870	221
Aspen	562,016	89,163	48,190	41,676	25,212	13,608	7,267
White oaks	897	1,281	1,524	1,001	329	80	121
Red oaks	87,354	33,718	21,645	15,775	9,598	5,431	2,972
Basswood	9,344	4,120	1,086	1,210	745	369	166
Elm	11,019	4,379	2,700	1,389	465	102	63
Other commercial hardwoods	220,615	33,526	12,673	4,580	1,984	798	384
Noncommercial hardwoods	969,273	123,321	21,434	5,085	942	234	91
Total hardwoods	5,564,551	1,277,633	604,092	370,057	209,519	109,880	56,680
Total, all species	10,696,433	2,693,084	1,304,864	795,749	449,060	235,587	119,166

Table 16. continued

(In thousands of trees)

Species group	Diameter class (inches at breast height)						All classes
	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0+	Total 5.0+	
Balsam fir	732	65	0	0	0	445,741	4,834,796
Tamarack	395	133	130	65	0	25,231	62,296
White spruce	1,080	509	131	225	0	56,170	254,137
Black spruce	161	33	0	0	0	55,842	205,437
Red spruce	6,233	2,041	651	356	0	381,746	1,241,319
Red pine	271	216	33	0	0	7,439	19,448
White pine	8,597	6,484	3,702	4,991	791	149,148	382,727
Northern white-cedar	8,640	3,660	1,059	705	33	340,053	724,257
Hemlock	4,931	2,345	1,079	1,082	49	150,901	433,218
Other softwoods	166	67	0	0	0	3,772	5,740
Total softwoods	31,208	15,553	6,785	7,424	874	1,616,043	8,163,376
Red maple	6,383	2,819	1,735	1,576	132	405,608	1,925,679
Sugar maple	6,389	3,654	2,531	3,705	261	164,088	641,658
Yellow birch	5,061	2,894	1,641	1,458	101	131,984	756,581
Paper birch	969	305	100	97	0	192,792	1,071,833
Gray birch	0	0	0	0	0	22,310	232,818
Beech	3,207	1,175	590	155	0	169,002	849,373
White ash	913	269	118	173	73	45,249	257,959
Black ash	164	32	32	0	0	16,978	104,268
Aspen	3,158	699	424	241	31	140,506	791,685
White oaks	74	0	36	0	39	3,206	5,384
Red oaks	2,172	818	598	678	0	59,687	180,759
Basswood	234	61	63	0	0	3,935	17,399
Elm	67	0	0	0	0	4,786	20,184
Other commercial hardwoods	232	64	0	34	33	20,781	274,922
Noncommercial hardwoods	68	39	0	0	0	27,892	1,120,487
Total hardwoods	29,092	12,829	7,867	8,117	671	1,408,805	8,250,990
Total, all species	60,300	28,383	14,653	15,541	1,545	3,024,849	16,414,365

Table 17. Number of seedlings, saplings, and shrubs on timberland by species and stand-size class, Maine, 1995

(In millions of stems)

Species	Stand-size class				All classes	SE
	Saw-timber	Pole-timber	Sapling and seedling	Non-stocked		
Balsam fir	13,407	13,529	13,185	0	40,120	3.2
Common juniper	269	101	8	0	377	53.6
Larch	9	51	192	0	253	48.9
Spruce species	2,907	2,888	3,726	0	9,521	5.0
Jack pine	0	0	0	0	0	100.0
Red pine	1	9	9	0	20	29.1
Pitch pine	1	0	0	0	1	50.0
Eastern white pine	405	333	284	0	1,022	8.7
Canada yew	39	25	216	0	280	76.6
Northern white-cedar	2,159	2,127	1,266	0	5,551	6.9
Eastern hemlock	967	804	487	0	2,258	8.4
Maple species	0	0	0	0	0	100.0
Striped maple	4,033	3,642	1,135	0	8,811	5.0
Red maple	4,378	4,612	6,182	0	15,172	3.9
Silver maple	5	3	1	0	9	48.8
Sugar maple	6,136	3,017	1,211	0	10,364	6.4
Mountain maple	2,927	1,897	1,111	0	5,935	6.4
Ailanthus species	3	0	0	0	3	100.0
Alder species	1,811	3,117	3,470	0	8,398	6.9
Serviceberry	185	252	112	0	549	23.8
Bog rosemary	4	0	72	0	77	83.3
Chokeberry species	12	28	62	0	102	32.0
Azalea species	91	707	2,125	0	2,923	25.9
Barberry	0	43	0	0	43	71.6
Bittersweet	4	0	0	0	4	74.8
Yellow birch	2,637	1,994	1,692	0	6,323	5.9
Sweet birch	0	63	0	0	64	96.7
River birch	0	3	0	0	3	70.8
Paper birch	1,084	1,640	3,967	0	6,691	5.5
Gray birch	315	450	1,296	0	2,062	12.3
American hornbeam	19	21	3	0	43	39.5
Shellbark hickory	0	0	3	0	3	100.0
Shagbark hickory	0	1	0	0	1	100.0
New Jersey tea	1	0	0	0	1	100.0
Sweetfern	36	141	452	0	628	23.9
Flowering dogwood	5	20	8	0	34	63.6
Alternate-leaved dogwood	148	73	57	0	278	20.1
Silky dogwood	0	19	8	0	27	76.2
Round-leaved dogwood	6	79	18	0	103	48.9
Panicle dogwood	24	52	55	0	131	43.0
Red-osier dogwood	137	496	1,224	0	1,858	18.1
Hawthorn species	7	14	20	0	41	50.2
American hazelnut	164	355	121	0	640	23.3
Beaked hazelnut	2,173	2,643	1,760	0	6,576	8.7
Leatherwood	0	0	1	0	1	100.0
American beech	2,693	2,384	880	0	5,957	6.4
Autumn olive	0	0	3	0	3	70.7
Ash species	4	0	0	0	4	100.0
White ash	679	909	423	0	2,011	8.2
Black ash	250	288	177	0	715	15.1
Green ash	6	11	1	0	18	58.9
Huckleberry	22	36	7	0	65	46.6
Witch-hazel	146	327	101	0	574	17.4
Winterberry holly	80	479	251	0	810	24.4
Sheep laurel	804	2,017	2,815	0	5,636	15.4
Mountain laurel	9	143	2	0	155	58.8
Labrador tea	36	426	250	0	712	27.7
Bush honeysuckle	648	735	769	0	2,151	11.6
Apple species	11	19	37	0	68	31.8
Mulberry species	0	0	0	0	0	100.0

Table 17. continued

Species	(In millions of stems)				All classes	SE
	Saw-timber	Pole-timber	Sapling and seedling	Non-stocked		
Mountain holly	213	727	524	0	1,464	20.7
Eastern hophornbeam	212	251	81	0	544	12.5
Sourwood	1	0	0	0	1	100.0
Balsam poplar	28	277	178	0	484	28.4
Eastern cottonwood	0	0	0	0	0	100.0
Bigtooth aspen	49	356	336	0	741	15.9
Quaking aspen	474	1,140	2,036	0	3,649	8.5
Cherry species	5	1	1	0	8	49.9
Pin cherry	211	426	1,187	0	1,825	10.1
Black cherry	338	346	378	0	1,062	11.9
Chokecherry	82	224	422	0	728	19.9
Oak species	1	0	0	0	1	100.0
White oak	13	23	0	0	36	37.9
Northern pin oak	1	0	0	0	1	100.0
Scrub, bear oak	0	8	0	0	8	83.7
Shingle oak	1	0	0	0	1	100.0
Pin oak	0	0	5	0	5	87.5
Willow oak	0	4	0	0	4	100.0
Chestnut oak	0	3	0	0	3	100.0
Northern red oak	289	303	172	0	763	11.0
Black oak	17	13	0	0	30	48.4
Buckthorn species	0	0	1	0	1	100.0
Rhododendron species	33	75	0	0	107	72.6
Smooth sumac	4	5	29	0	38	49.8
Staghorn sumac	6	1	67	0	75	60.0
Currant species	456	397	579	0	1,432	18.1
Black locust	2	3	0	0	5	71.9
Rose species	12	23	56	0	92	32.6
Rubus species	7,497	8,968	28,357	5	44,827	5.3
Willow species	251	148	799	0	1,197	13.8
Black willow	0	14	53	0	67	42.7
Crack willow	20	56	127	0	204	25.2
American elderberry	9	108	94	0	211	31.1
Red-berried alder	41	44	54	0	138	24.4
American mountain ash	100	189	195	0	485	14.5
European mountain ash	1	0	4	0	5	74.5
Spiraea species	592	848	1,912	0	3,352	14.7
Sweetleaf	0	0	54	0	54	100.0
Basswood species	9	74	4	0	86	65.9
American basswood	29	43	21	0	93	26.1
Elm species	2	11	9	0	23	55.3
American elm	14	42	36	0	92	30.0
Slippery elm	0	5	0	0	5	58.6
Rock elm	0	1	0	0	1	100.0
American bladdernut	0	5	8	0	13	73.1
Blueberry	1,245	1,899	2,171	0	5,316	11.6
Viburnum species	247	287	522	0	1,055	21.6
Maple-leaved viburnum	66	62	49	0	177	29.5
Hobblebush viburnum	3,518	2,354	524	0	6,396	8.3
Wild raisin	264	973	820	0	2,057	11.9
Arrowwood	74	296	327	0	698	25.1
Nannyberry	54	257	183	0	493	23.0
Blackhaw	0	0	1	0	1	100.0
Highbush cranberry	22	0	52	0	74	39.7
Common prickly ash	0	0	12	0	12	100.0
Unknown deciduous shrub	384	674	1,000	0	2,058	14.4
Unknown evergreen shrub	104	388	87	0	579	37.4
Unknown tree	103	67	101	0	271	22.5
All species	68,997	75,444	94,889	5	239,335	1.7
SE	3.7	3.6	4.0	77.4	1.7	

Table 18. Net volume of growing-stock trees on timberland by species and diameter class, Maine, 1982

(In millions of cubic feet)

Species group	Diameter class (inches at breast height)										All classes
	5.0- 6.9	7.0- 8.9	9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 28.9	29.0+	
Balsam fir	1,113.0	1,255.8	795.6	358.2	135.8	34.0	3.5	3.4	.0	.0	3,699.3
Tamarack	23.0	29.0	28.6	17.9	17.5	12.3	2.3	2.6	.0	.0	133.3
White spruce	109.5	97.5	117.3	78.1	37.3	44.4	8.9	8.0	5.5	.0	506.4
Black spruce	131.1	109.9	69.3	29.5	10.5	.6	1.2	.0	.0	.0	352.2
Red spruce	764.9	1,097.6	967.0	707.7	470.2	220.3	87.5	55.0	18.1	.0	4,388.4
Red pine	7.1	11.5	12.1	17.5	11.8	7.1	.0	1.5	.0	.0	68.7
White pine	96.9	163.7	226.5	274.3	276.3	279.6	235.0	148.0	183.9	78.9	1,963.0
Northern white-cedar	229.8	372.4	397.8	322.1	230.7	137.9	50.5	54.2	33.2	.0	1,828.8
Hemlock	114.0	238.1	250.2	273.3	183.7	127.9	56.7	30.9	48.3	.0	1,323.2
Other softwoods	1.2	5.0	5.3	8.9	7.7	4.5	2.6	.0	.0	.0	35.0
Total softwoods	2,590.5	3,380.5	2,869.5	2,087.5	1,381.5	868.7	448.4	303.6	289.2	78.9	14,298.2
Red Maple	319.0	447.9	431.8	294.2	154.8	94.8	54.4	54.3	22.9	10.7	1,884.6
Sugar maple	111.9	165.1	196.6	197.4	157.1	155.3	92.0	107.0	181.5	8.4	1,372.2
Yellow birch	90.8	123.7	151.8	145.1	104.5	81.7	62.3	28.1	71.6	6.1	865.8
Paper birch	261.6	329.2	277.1	157.0	71.2	19.5	8.5	.7	3.4	.0	1,128.2
Gray birch	44.3	21.5	2.6	.3	.0	.0	.0	.0	.0	.0	68.6
Beech	121.6	150.5	146.4	128.9	98.2	55.7	18.0	13.3	.7	.0	733.6
White ash	38.6	67.3	39.1	37.4	6.8	19.4	8.0	.0	8.9	4.2	230.3
Black ash	15.7	13.7	16.3	13.3	7.1	3.5	.0	1.9	.0	.0	71.5
Aspen	211.2	302.1	303.6	205.9	125.3	49.8	24.0	10.7	2.1	3.5	1,238.3
White oaks	1.3	3.6	3.6	2.4	1.3	1.7	.0	.0	.0	.0	14.1
Red oaks	49.9	66.5	48.3	65.9	62.1	31.4	20.5	24.2	18.5	.0	387.2
Basswood	1.1	5.6	.1	7.5	6.8	1.3	7.7	4.4	.0	.0	34.4
Elm	4.5	6.0	6.3	4.8	7.7	2.8	3.9	.0	6.0	5.2	47.2
Other hardwoods	7.5	8.9	11.3	3.6	.3	1.7	1.3	.0	2.2	.0	36.8
Total hardwoods	1,279.9	1,711.6	1,634.9	1,264.1	803.2	518.8	300.5	244.4	317.5	38.0	8,112.8
Total, all species	3,870.3	5,092.1	4,504.4	3,351.5	2,184.7	1,387.5	748.7	548.0	606.7	117.0	22,411.0

Table 19. Net volume of growing-stock trees on timberland by species and diameter class, Maine, 1995

(In millions of cubic feet)

Species group	Diameter class (inches at breast height)										All classes	SE
	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0+		
Balsam fir	710.9	717.3	449.2	205.0	78.9	20.4	2.3	.0	.0	.0	2,184.0	3.6
Tamarack	31.7	35.3	31.7	33.1	14.0	9.9	4.6	2.6	4.0	.0	166.9	15.0
White spruce	68.6	99.0	81.7	81.7	52.1	35.6	18.9	7.9	15.7	.0	461.2	8.0
Black spruce	104.7	94.9	67.2	32.1	12.6	5.7	1.2	.0	.0	.0	318.5	12.8
Red spruce	461.6	728.4	727.0	583.8	331.7	195.8	78.0	35.1	25.2	.0	3,166.7	4.0
Red pine	6.8	10.4	10.8	7.6	10.3	7.7	8.3	1.7	.0	.0	63.7	27.7
White pine	115.0	171.0	207.3	257.0	285.7	244.2	239.4	173.3	292.3	82.7	2,067.8	6.7
Northern white-cedar	260.9	409.0	399.5	343.1	238.9	145.5	85.4	33.3	22.2	.0	1,937.9	5.4
Hemlock	119.9	205.0	227.7	219.9	200.2	127.7	77.7	42.9	61.0	4.3	1,286.4	6.3
Other softwoods	2.2	3.0	4.4	4.6	5.9	4.5	2.6	.0	.0	.0	27.1	62.7
Total softwoods	1,882.3	2,473.4	2,206.4	1,767.9	1,230.3	797.1	518.5	296.8	420.5	87.0	11,680.2	2.1
Red maple	409.3	569.8	517.8	332.8	208.4	123.8	61.5	43.6	58.6	2.5	2,328.0	3.2
Sugar maple	130.2	218.2	261.7	236.3	205.8	143.1	111.1	85.1	176.7	15.5	1,583.5	5.1
Yellow birch	96.3	150.9	174.0	151.1	114.3	91.3	66.0	41.6	44.5	10.4	940.5	4.3
Paper birch	247.2	341.4	275.5	135.6	66.1	23.6	8.1	2.6	1.7	.0	1,101.8	4.7
Gray birch	42.5	18.7	6.0	.3	.0	.0	.0	.0	.0	.0	67.5	11.4
Beech	151.4	218.7	223.4	142.6	104.9	49.8	23.9	12.2	1.4	.0	928.5	5.9
White ash	51.3	76.6	67.2	50.1	35.3	22.6	6.8	6.0	5.9	5.7	327.5	8.4
Black ash	23.8	17.9	10.9	9.3	4.5	2.8	.0	1.9	.0	.0	71.1	13.7
Aspen	155.6	279.8	275.7	216.9	154.5	86.1	24.4	15.6	12.0	4.4	1,225.1	6.7
White oaks	3.6	5.5	3.2	.9	1.4	1.4	.0	1.3	.0	.0	17.4	28.3
Red oaks	59.8	95.3	94.0	75.7	54.4	53.3	28.6	24.8	33.4	.0	519.3	8.2
Basswood	2.3	6.1	6.2	5.6	3.3	6.7	1.1	2.5	.0	.0	33.7	19.9
Elm	5.0	6.0	3.5	1.2	1.1	.0	.0	.0	.0	.0	16.9	18.6
Other hardwoods	10.6	12.2	10.6	5.1	3.8	2.1	2.1	.0	2.2	.0	48.7	16.0
Total hardwoods	1,389.1	2,017.0	1,929.8	1,363.7	957.7	606.8	333.6	237.1	336.2	38.4	9,209.5	1.9
Total, all species	3,271.4	4,490.4	4,136.2	3,131.6	2,188.0	1,403.9	852.0	533.9	756.7	125.5	20,889.7	1.3
SE	1.7	1.6	1.7	2.1	2.7	3.4	5.0	6.6	6.8	20.4	1.3	

Table 20. Net volume of growing-stock trees on timberland by forest type and stand-size class, Maine, 1995

(In millions of cubic feet)

Forest type	Stand-size class				All classes	SE
	Saw-timber	Pole-timber	Sapling and seedling	Non-stocked		
Jack pine	.0	1.3	.0	.0	1.3	100.0
Red pine	35.1	8.5	.0	.0	43.6	55.3
White pine	1,107.1	153.3	19.6	.0	1,280.0	11.7
White pine/hemlock	356.3	61.4	.0	.0	417.7	21.4
Hemlock	758.8	181.1	1.4	.0	941.4	12.5
White/red pine group	2,257.3	405.6	21.0	.0	2,683.9	7.6
Balsam fir	274.7	769.6	251.5	2.1	1,297.9	8.2
Red spruce	884.1	735.9	23.7	.0	1,643.7	9.0
Red spruce/balsam fir	815.2	805.7	138.7	.0	1,759.5	7.8
White spruce	52.8	124.6	6.3	.0	183.8	25.5
Black spruce	26.2	141.1	38.4	.0	205.7	21.0
Northern white-cedar	1,500.3	615.4	26.8	.0	2,142.5	7.4
Tamarack	23.3	84.4	11.4	.0	119.1	32.0
Spruce/fir group	3,576.6	3,276.6	496.7	2.1	7,352.0	3.3
Pitch pine	18.8	.0	.0	.0	18.8	100.0
Loblolly/shortleaf group	18.8	.0	.0	.0	18.8	100.0
Wh. pine/no.red oak/wh. ash	102.0	89.5	6.2	1.5	199.2	26.5
Other oak/pine	15.8	.0	.0	.0	15.8	100.0
Oak/pine group	117.8	89.5	6.2	1.5	215.0	25.7
White oak/red oak/hickory	12.3	20.1	.0	.0	32.3	55.5
Northern red oak	68.7	115.5	6.5	.0	190.7	23.0
Hawthorn/reverting field	.3	.0	1.1	.0	1.5	79.8
Red maple/central hardwood	47.5	7.0	9.7	.0	64.3	58.2
Mixed central hardwoods	132.5	199.4	.0	.0	331.9	19.7
Oak/hickory group	261.3	342.0	17.3	.0	620.7	13.9
Black ash/Amer. elm/red maple	22.5	67.4	13.5	.0	103.3	25.6
Red maple(lowland)	3.5	55.7	2.8	.0	62.0	32.4
Red maple(upland)	.0	85.2	1.0	.0	86.2	34.7
Willow	2.1	4.6	6.5	.0	13.3	43.0
Elm/ash/red maple group	28.0	212.9	23.9	.0	264.9	17.0
Sugar maple/beech/yellow birch	3,080.4	1,777.8	76.2	.0	4,934.4	3.8
Black Cherry	.0	15.1	3.0	.0	18.1	50.5
Red maple/northern hardwoods	430.7	1,080.1	106.3	.0	1,617.1	7.8
Pin cherry/reverting field	.0	1.4	12.3	.0	13.7	41.1
Mixed northern hardwoods	438.9	443.6	54.6	.0	937.1	10.8
Northern hardwoods group	3,950.0	3,318.1	252.3	.0	7,520.4	3.0
Aspen	269.1	945.9	94.4	.0	1,309.5	9.4
Paper birch	67.6	732.2	56.2	.0	856.1	11.0
Gray birch	1.7	32.2	14.6	.0	48.5	31.3
Aspen/birch group	338.4	1,710.3	165.3	.0	2,214.0	6.9
All forest types	10,548.2	9,355.1	982.7	3.7	20,889.7	1.3
SE	3.1	2.7	5.4	65.4	1.3	

Table 21. Net volume of growing-stock trees on timberland by species and stand-size class, Maine, 1995

(In millions of cubic feet)

Species group	Stand-size class				All classes	SE
	Saw-timber	Pole-timber	Sapling and seedling	Non-stocked		
Balsam fir	836.8	1,178.4	168.7	.2	2,184.0	3.6
Tamarack	41.7	110.8	14.5	.0	166.9	15.0
White spruce	212.0	216.5	32.5	.2	461.2	8.0
Black spruce	87.6	182.7	48.2	.0	318.5	12.8
Red spruce	1,722.7	1,310.6	133.4	.0	3,166.7	4.0
Red pine	34.8	28.3	.6	.0	63.7	27.7
White pine	1,432.7	524.1	111.1	.0	2,067.8	6.7
Northern white-cedar	1,209.1	614.7	113.7	.3	1,937.9	5.4
Hemlock	894.6	356.5	35.2	.0	1,286.4	6.3
Other softwoods	21.8	3.5	1.8	.0	27.1	62.7
Total softwoods	6,493.9	4,526.0	659.7	.7	11,680.2	2.1
Red maple	880.8	1,333.2	113.3	.8	2,328.0	3.2
Sugar maple	1,098.7	465.3	19.1	.5	1,583.5	5.1
Yellow birch	572.1	337.6	30.7	.0	940.5	4.3
Paper birch	259.0	786.5	56.3	.0	1,101.8	4.7
Gray birch	15.5	48.8	3.3	.0	67.5	11.4
Beech	514.2	398.1	15.8	.4	928.5	5.9
White ash	134.9	176.5	16.0	.0	327.5	8.4
Black ash	25.8	38.2	7.1	.0	71.1	13.7
Aspen	271.5	905.7	47.9	.0	1,225.1	6.7
White oaks	5.3	12.1	.0	.0	17.4	28.3
Red oaks	237.3	274.4	6.3	1.4	519.3	8.2
Basswood	14.4	18.6	.7	.0	33.7	19.9
Elm	6.6	7.0	3.3	.0	16.9	18.6
Other hardwoods	18.5	27.1	3.2	.0	48.7	16.0
Total hardwoods	4,054.4	4,829.1	323.0	3.0	9,209.5	1.9
Total, all species	10,548.2	9,355.1	982.7	3.7	20,889.7	1.3
SE	3.1	2.7	5.4	65.4	1.3	

Table 22. Net volume of all trees on timberland by class of timber and species group, Maine, 1995

(In millions of cubic feet)

Class of timber	Species group				All species	SE
	Pines	Other softwoods	Soft hardwoods	Hard hardwoods		
Sawtimber trees:						
Sawlog portion	1,668.9	4,779.1	1,379.4	1,713.3	9,540.7	2.0
Upper stem portion	181.5	695.1	368.8	412.0	1,657.4	1.8
Total	1,850.3	5,474.2	1,748.3	2,125.4	11,198.1	1.9
Poletimber trees	307.8	4,047.8	3,377.2	1,958.6	9,691.5	1.4
Total growing stock	2,158.2	9,522.0	5,125.5	4,084.0	20,889.7	1.3
Rough trees:						
Sawtimber size	49.2	229.0	126.4	177.1	581.7	4.6
Poletimber size	4.1	22.4	79.9	86.2	192.6	4.5
Total	53.3	251.4	206.3	263.3	774.3	3.7
Rotten trees:						
Sawtimber size	9.6	76.7	60.2	97.1	243.5	5.6
Poletimber size	.5	10.4	25.1	13.6	49.6	5.7
Total	10.1	87.1	85.3	110.7	293.1	4.9
Salvable dead trees:						
Sawtimber size	6.9	129.0	31.8	28.0	195.7	7.2
Poletimber size	4.3	97.0	49.6	35.5	186.4	4.4
Total	11.2	226.0	81.4	63.5	382.1	4.7
Total, all trees	2,232.7	10,086.5	5,498.5	4,521.4	22,339.1	1.3
SE	6.5	2.2	2.5	3.0	1.3	

Table 23. Net volume of all live, growing-stock, and sawtimber trees on timberland by species group and ownership class, Maine, 1995

Species group	Ownership class				All classes	SE
	National Forest	Other public	Forest industry	Other private		
(In millions of cubic feet)						
All live:						
Softwoods	48.8	526.4	4,920.9	6,585.8	12,082.0	2.1
Hardwoods	47.3	392.7	3,894.8	5,540.2	9,875.0	1.8
Total, all groups	96.2	919.1	8,815.7	12,126.0	21,957.0	1.3
Growing-stock:						
Softwoods	48.0	507.8	4,770.4	6,353.9	11,680.2	2.1
Hardwoods	45.2	367.0	3,581.9	5,215.4	9,209.5	1.9
Total, all groups	93.2	874.8	8,352.3	11,569.4	20,889.7	1.3
(In millions of board feet)						
Sawtimber:						
Softwoods	162.4	1,472.6	11,433.4	16,786.5	29,855.0	2.8
Hardwoods	81.1	688.7	7,851.8	8,490.0	17,111.7	3.0
Total, all groups	243.6	2,161.4	19,285.2	25,276.6	46,966.7	2.0

Table 24. Net volume of growing stock in the sawlog portion of sawtimber trees on timberland by species and diameter class, Maine, 1995

(In millions of cubic feet)

Species group	Diameter class (inches at breast height)								All classes	SE
	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0+		
Balsam fir	377.8	178.4	70.5	18.6	2.2	.0	.0	.0	647.4	5.6
Tamarack	26.6	28.8	12.5	9.0	4.3	2.5	3.7	.0	87.5	17.1
White spruce	68.8	71.1	46.5	32.4	17.4	7.3	14.7	.0	258.1	9.9
Black spruce	56.5	27.9	11.3	5.2	1.1	.0	.0	.0	102.0	14.7
Red spruce	611.5	507.9	296.6	178.2	72.0	32.7	23.6	.0	1,722.3	4.6
Red pine	9.1	6.6	9.2	7.0	7.6	1.6	.0	.0	41.2	27.5
White pine	174.3	223.6	255.4	222.2	220.8	161.2	273.3	77.3	1,608.2	7.1
Northern white-cedar	336.1	298.5	213.6	132.4	78.8	30.9	20.8	.0	1,111.1	5.9
Hemlock	191.5	191.3	179.0	116.2	71.7	39.9	57.0	4.0	850.7	6.9
Other softwoods	3.7	4.0	5.2	4.1	2.4	.0	.0	.0	19.5	69.1
Total softwoods	1,855.8	1,538.1	1,099.9	725.4	478.3	276.1	393.1	81.4	6,448.0	2.7
Red maple	.0	244.9	168.8	104.0	52.3	37.0	49.8	2.1	658.9	5.5
Sugar maple	.0	173.9	166.7	120.2	94.4	72.3	150.2	13.1	790.8	6.3
Yellow birch	.0	111.2	92.6	76.7	56.1	35.4	37.8	8.8	418.7	6.1
Paper birch	.0	99.8	53.5	19.8	6.9	2.2	1.5	.0	183.7	7.0
Gray birch	.0	.2	.0	.0	.0	.0	.0	.0	.2	100.0
Beech	.0	105.0	85.0	41.9	20.3	10.4	1.2	.0	263.7	9.0
White ash	.0	36.9	28.6	19.0	5.7	5.1	5.0	4.8	105.1	11.8
Black ash	.0	6.9	3.7	2.4	.0	1.6	.0	.0	14.5	23.7
Aspen	.0	159.7	125.2	72.4	20.8	13.2	10.2	3.7	405.1	8.5
White oaks	.0	.7	1.2	1.2	.0	1.1	.0	.0	4.2	41.6
Red oaks	.0	55.7	44.0	44.8	24.3	21.1	28.3	.0	218.3	11.6
Basswood	.0	4.1	2.6	5.6	.9	2.1	.0	.0	15.4	28.3
Elm	.0	.9	.9	.0	.0	.0	.0	.0	1.8	46.7
Other hardwoods	.0	3.8	3.1	1.8	1.8	.0	1.9	.0	12.3	27.6
Total hardwoods	.0	1,003.7	775.8	509.7	283.5	201.5	285.8	32.7	3,092.7	3.0
Total, all species	1,855.8	2,541.8	1,875.6	1,235.1	761.8	477.6	678.9	114.0	9,540.7	2.0
SE	2.7	2.1	2.7	3.4	5.1	6.7	6.8	20.5	2.0	

Table 25. Net volume of sawtimber trees on timberland by species, size class, and tree grade, Maine, 1995

(In millions of board feet)

Species group	>15" Diameter at breast height						All size classes						SE
	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	All grades	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	All grades	
Balsam fir	91.2	.0	.0	.0	16.6	107.7	2,633.1	.0	.0	.0	326.9	2,960.1	5.8
Tamarack	58.2	.0	.0	.0	31.6	89.7	320.0	.0	.0	.0	59.6	379.6	17.7
White spruce	267.9	.0	.0	.0	125.7	393.6	1,026.3	.0	.0	.0	243.2	1,269.5	10.1
Black spruce	34.2	.0	.0	.0	.0	34.2	428.8	.0	.0	.0	42.2	471.0	15.2
Red spruce	1,436.1	.0	.0	.0	209.2	1,645.4	7,468.3	.0	.0	.0	829.5	8,297.8	4.7
Red pine	48.1	12.7	23.1	.0	2.9	86.8	67.3	25.5	101.6	.0	3.4	197.8	27.8
White pine	1,269.2	1,526.5	1,205.5	770.3	380.8	5,152.3	1,529.1	2,733.1	2,268.6	1,144.3	482.4	8,157.5	7.2
Northern white-cedar	724.3	.0	.0	.0	377.7	1,101.9	3,164.1	.0	.0	.0	990.2	4,154.3	6.0
Hemlock	1,035.8	.0	.0	.0	402.7	1,438.5	3,041.4	.0	.0	.0	836.6	3,878.1	7.0
Other softwoods	28.2	.0	3.1	.0	.0	31.3	64.2	13.0	12.0	.0	.0	89.2	70.8
Total softwoods	4,993.2	1,539.2	1,231.7	770.3	1,547.1	10,081.5	19,742.7	2,771.6	2,382.3	1,144.3	3,814.1	29,855.0	2.8
Red maple	150.5	288.8	424.2	132.6	325.4	1,321.4	150.5	552.5	1,882.9	402.9	548.8	3,537.7	5.5
Sugar maple	471.8	803.6	758.0	219.2	322.1	2,574.8	471.8	1,185.5	1,977.0	334.5	465.3	4,434.1	6.3
Yellow birch	284.7	271.6	359.6	107.1	114.2	1,137.2	284.7	480.1	1,124.5	211.2	178.4	2,278.9	6.2
Paper birch	22.6	79.9	40.6	10.3	9.8	163.2	22.6	254.2	666.8	47.2	44.0	1,034.7	7.0
Gray birch	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	1.2	100.0
Beech	8.6	113.0	198.7	40.7	72.5	433.5	8.6	207.7	883.8	211.5	230.8	1,542.4	9.0
White ash	63.4	46.0	61.8	5.6	33.3	210.2	63.4	150.4	298.0	22.2	42.8	576.8	11.5
Black ash	.0	.0	20.0	.0	3.2	23.2	.0	10.7	67.0	1.0	5.5	84.2	24.2
Aspen	195.9	292.4	98.0	21.6	60.4	668.4	195.9	646.1	1,168.2	113.9	167.2	2,291.3	8.6
White oaks	.0	6.7	7.6	.0	.0	14.3	.0	10.7	12.7	1.5	.0	24.9	43.3
Red oaks	250.0	239.3	87.4	14.6	31.0	622.3	253.8	384.7	432.2	28.9	39.4	1,138.9	11.8
Basswood	17.7	22.8	7.0	.0	3.7	51.1	17.7	28.2	38.1	1.4	4.4	89.8	28.4
Elm	.0	.0	.0	.0	.0	.0	.0	.0	8.8	.0	.0	8.8	45.9
Other hardwoods	.0	22.2	.0	.0	8.1	30.3	.0	25.7	27.4	4.3	10.6	67.9	28.2
Total hardwoods	1,465.2	2,186.3	2,062.9	551.8	983.6	7,249.8	1,469.0	3,936.4	8,587.4	1,381.6	1,737.3	17,111.7	3.0
Total, all species	6,458.4	3,725.5	3,294.6	1,322.1	2,530.7	17,331.3	21,211.7	6,708.0	10,969.7	2,525.9	5,551.4	46,966.7	2.0
SE	5.1	6.2	6.6	10.0	6.2	3.5	2.9	4.7	3.2	6.8	3.9	2.0	

Table 26. Net volume of sawtimber trees on timberland by species and diameter class, Maine, 1982

(In millions of board feet)

Species group	Diameter class (inches at breast height)								All classes
	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0+	
Balsam fir	2,880.3	1,514.9	602.9	145.8	17.2	15.4	.0	.0	5,176.6
Tamarack	101.2	73.8	70.3	47.3	8.2	9.1	.0	.0	309.9
White spruce	413.0	341.6	160.7	220.5	69.6	41.1	30.4	.0	1,276.8
Black spruce	253.1	116.2	45.3	3.9	5.9	.0	.0	.0	424.4
Red spruce	3,427.5	2,957.5	2,112.6	1,018.7	428.8	259.3	114.7	.0	10,319.1
Red pine	41.2	70.5	48.3	28.1	.0	8.4	.0	.0	196.5
White pine	766.8	1,124.8	1,185.6	1,276.0	1,092.5	701.3	1,035.2	540.8	7,723.1
Northern white-cedar	1,107.2	1,069.3	848.3	550.0	213.7	215.2	123.3	.0	4,127.0
Hemlock	783.8	1,043.2	757.9	555.5	242.1	131.1	231.2	.0	3,744.8
Other softwoods	16.8	31.2	30.5	19.0	12.3	.0	.0	.0	109.8
Total softwoods	9,791.1	8,343.2	5,862.3	3,864.9	2,090.1	1,380.9	1,534.7	540.8	33,408.0
Red Maple	.0	1,111.0	688.5	442.3	276.3	256.7	182.8	51.1	3,008.8
Sugar maple	.0	791.4	704.4	702.0	457.4	523.2	976.1	50.4	4,204.8
Yellow birch	.0	587.8	452.8	363.4	320.0	176.6	351.0	39.7	2,290.8
Paper birch	.0	615.4	310.5	81.6	30.8	11.7	17.4	.0	1,067.5
Gray birch	.0	1.2	.0	.0	.0	.0	.0	.0	1.2
Beech	.0	574.1	498.8	286.8	94.7	109.2	1.2	.0	1,564.6
White ash	.0	142.3	28.6	92.7	33.4	.0	41.4	23.3	361.7
Black ash	.0	53.5	32.2	19.0	.0	10.2	.0	.0	114.7
Aspen	.0	836.5	533.5	235.5	107.4	58.4	32.7	14.5	1,818.4
White oaks	.0	9.8	5.5	6.5	.0	.0	.0	.0	21.9
Red oaks	.0	235.8	250.7	139.1	86.7	107.3	78.7	.0	898.3
Basswood	.0	26.1	22.9	6.0	32.5	22.8	.0	.0	110.2
Elm	.0	16.2	30.9	9.9	16.7	.0	33.3	27.2	134.2
Other hardwoods	.0	12.2	3.1	7.0	2.4	.0	10.8	.0	35.3
Total hardwoods	.0	5,012.7	3,562.1	2,391.9	1,458.1	1,276.1	1,725.3	206.2	15,632.5
Total, all species	9,791.1	13,356.0	9,424.5	6,256.8	3,548.1	2,657.0	3,260.0	746.9	49,040.5

Table 27. Net volume of sawtimber trees on timberland by species and diameter class, Maine, 1995

(In millions of board feet)

Species group	Diameter class (inches at breast height)								All classes	SE
	9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 28.9	29.0+		
Balsam fir	1,624.3	870.3	357.7	96.1	11.6	.0	.0	.0	2,960.1	5.8
Tamarack	107.2	125.2	57.5	42.0	18.0	11.7	18.0	.0	379.6	17.7
White spruce	293.2	345.4	237.3	173.4	94.2	41.8	84.3	.0	1,269.5	10.1
Black spruce	240.4	138.2	58.2	28.3	5.9	.0	.0	.0	471.0	15.2
Red spruce	2,634.9	2,475.8	1,541.7	940.0	391.5	180.2	133.7	.0	8,297.8	4.7
Red pine	33.4	31.4	46.2	37.6	40.2	9.0	.0	.0	197.8	27.8
White pine	697.9	1,042.7	1,264.6	1,143.8	1,170.1	863.2	1,520.0	455.2	8,157.5	7.2
Northern white-cedar	1,099.9	1,112.3	840.1	544.3	325.4	136.8	95.4	.0	4,154.3	6.0
Hemlock	757.4	840.6	841.6	565.5	351.3	198.5	299.8	23.5	3,878.1	7.0
Other softwoods	14.8	18.1	25.0	19.0	12.3	.0	.0	.0	89.2	70.8
Total softwoods	7,503.4	7,000.2	5,269.8	3,590.1	2,420.4	1,441.2	2,151.2	478.7	29,855.0	2.8
Red maple	.0	1,341.7	874.6	540.8	273.6	201.3	290.1	15.5	3,537.7	5.5
Sugar maple	.0	964.7	894.7	654.8	534.7	416.5	887.8	81.0	4,434.1	6.3
Yellow birch	.0	651.8	489.9	393.5	285.9	193.6	205.9	58.3	2,278.9	6.2
Paper birch	.0	580.8	290.7	106.7	35.5	11.6	9.4	.0	1,034.7	7.0
Gray birch	.0	1.2	.0	.0	.0	.0	.0	.0	1.2	100.0
Beech	.0	624.6	484.3	241.5	120.5	65.2	6.4	.0	1,542.4	9.0
White ash	.0	212.2	154.4	103.1	32.9	25.6	25.3	23.3	576.8	11.5
Black ash	.0	40.5	20.6	13.0	.0	10.2	.0	.0	84.2	24.2
Aspen	.0	928.4	694.6	404.2	100.6	76.9	60.9	25.8	2,291.3	8.6
White oaks	.0	3.7	6.9	6.7	.0	7.6	.0	.0	24.9	43.3
Red oaks	.0	293.0	223.6	229.4	132.8	108.3	151.8	.0	1,138.9	11.8
Basswood	.0	24.1	14.6	33.4	4.6	13.2	.0	.0	89.8	28.4
Elm	.0	4.6	4.2	.0	.0	.0	.0	.0	8.8	45.9
Other hardwoods	.0	23.0	14.6	8.1	11.5	.0	10.8	.0	67.9	28.2
Total hardwoods	.0	5,694.2	4,167.6	2,735.2	1,532.5	1,130.0	1,648.3	203.8	17,111.7	3.0
Total, all species	7,503.4	12,694.5	9,437.5	6,325.3	3,952.8	2,571.2	3,799.5	682.4	46,966.7	2.0
SE	2.7	2.1	2.7	3.5	5.2	6.8	6.9	20.7	2.0	

Table 28. Net volume of sawtimber trees on timberland by forest type and stand-size class, Maine, 1995

(In millions of board feet)						
Forest type	Stand-size class				All classes	SE
	Saw-timber	Pole-timber	Sapling and seedling	Non-stocked		
Red pine	98.8	7.0	.0	.0	105.8	65.3
White pine	4,134.5	255.6	38.5	.0	4,428.6	12.8
White pine/hemlock	1,235.1	104.2	.0	.0	1,339.3	23.3
Hemlock	2,183.0	314.6	1.8	.0	2,499.4	13.5
White/red pine group	7,651.5	681.4	40.3	.0	8,373.2	8.5
Balsam fir	756.0	997.2	412.1	4.1	2,169.3	10.1
Red spruce	2,650.2	1,229.6	44.7	.0	3,924.5	10.3
Red spruce/balsam fir	2,364.0	1,348.8	280.2	.0	3,993.1	8.7
White spruce	160.4	218.4	9.3	.0	388.0	27.4
Black spruce	77.0	134.4	29.8	.0	241.2	27.7
Northern white-cedar	3,899.1	800.8	48.0	.0	4,747.9	8.4
Tamarack	79.1	121.6	12.9	.0	213.6	41.8
Spruce/fir group	9,985.7	4,850.7	837.1	4.1	15,677.6	4.1
Pitch pine	67.5	.0	.0	.0	67.5	100.0
Loblolly/shortleaf group	67.5	.0	.0	.0	67.5	100.0
Wh. pine/no.red oak/wh. ash	338.9	175.5	25.5	.0	539.9	29.7
Other oak/pine	58.1	.0	.0	.0	58.1	100.0
Oak/pine group	397.0	175.5	25.5	.0	598.0	28.5
White oak/red oak/hickory	37.6	28.4	.0	.0	66.1	67.8
Northern red oak	202.2	136.5	26.0	.0	364.7	26.6
Hawthorn/reverting field	1.8	.0	1.9	.0	3.6	70.7
Red maple/central hardwood	145.0	4.0	37.0	.0	185.9	66.4
Mixed central hardwoods	421.0	323.0	.0	.0	744.0	23.2
Oak/hickory group	807.6	491.9	64.8	.0	1,364.3	17.1
Black ash/Amer. elm/red maple	63.3	69.5	15.1	.0	147.8	29.7
Red maple(lowland)	9.0	58.4	1.3	.0	68.7	42.2
Red maple(upland)	.0	108.3	2.1	.0	110.4	42.8
Willow	5.1	.0	5.4	.0	10.5	56.9
Elm/ash/red maple group	77.4	236.2	23.8	.0	337.4	21.0
Sugar maple/beech/yellow birch	9,612.8	2,708.7	111.9	.0	12,433.3	4.5
Black Cherry	.0	15.4	2.9	.0	18.3	72.9
Red maple/northern hardwoods	1,193.4	1,553.2	161.1	.0	2,907.7	9.4
Pin cherry/reverting field	.0	.0	22.8	.0	22.8	86.3
Mixed northern hardwoods	1,285.3	610.5	100.9	.0	1,996.8	12.9
Northern hardwoods group	12,091.5	4,887.8	399.6	.0	17,378.8	3.7
Aspen	829.0	1,094.9	127.8	.0	2,051.7	12.3
Paper birch	159.9	810.4	95.2	.0	1,065.6	13.4
Gray birch	5.4	27.3	19.6	.0	52.4	34.9
Aspen/birch group	994.4	1,932.6	242.7	.0	3,169.8	9.0
All forest types	32,072.7	13,256.1	1,633.8	4.1	46,966.7	2.0
SE	3.3	3.3	8.0	76.9	2.0	

Table 29. Average annual net change of growing-stock volume on timberland by species and component of change, Maine, 1995

(In thousands of cubic feet)

Species group	Component of change								Net change
	Ingrowth	Accretion	Gross growth	Mortality	Cull decrement	Cull increment	Net growth	Removals	
Balsam fir	48,175	42,963	91,138	-102,356	5,248	-1,213	-7,184	-97,133	-104,317
Tamarack	2,149	3,567	5,716	-2,155	473	-100	3,934	-1,448	2,487
White spruce	3,676	10,050	13,726	-3,695	1,502	-302	11,231	-14,219	-2,988
Black spruce	3,622	4,957	8,579	-3,111	329	-54	5,743	-8,160	-2,417
Red spruce	16,163	58,549	74,712	-34,956	5,098	-1,828	43,026	-127,483	-84,457
Red pine	210	955	1,165	-104	101	0	1,163	-1,185	-22
White pine	8,960	47,088	56,048	-4,367	10,118	-2,382	59,417	-52,020	7,397
Northern white-cedar	11,108	27,919	39,027	-12,101	14,381	-10,647	30,660	-21,570	9,089
Hemlock	8,145	25,822	33,967	-3,469	5,911	-1,796	34,613	-37,093	-2,480
Other softwoods	145	130	274	-345	0	0	-70	-507	-578
Total softwoods	102,353	222,000	324,353	-166,659	43,161	-18,323	182,532	-360,819	-178,287
Red maple	22,396	41,191	63,586	-8,731	20,477	-8,412	66,921	-34,728	32,193
Sugar maple	8,627	22,447	31,074	-6,047	9,762	-5,051	29,738	-14,495	15,243
Yellow birch	6,207	14,573	20,780	-5,279	7,080	-4,641	17,940	-12,690	5,251
Paper birch	10,039	16,096	26,135	-10,310	4,538	-2,802	17,561	-19,194	-1,633
Gray birch	1,484	756	2,240	-2,307	963	-149	747	-712	35
Beech	9,382	15,093	24,475	-7,801	12,742	-3,415	26,001	-11,789	14,212
White ash	4,058	7,915	11,973	-982	684	-886	10,790	-3,700	7,090
Black ash	781	798	1,579	-1,291	913	-195	1,006	-986	21
Aspen	15,496	28,394	43,891	-12,472	4,467	-1,105	34,781	-35,224	-442
White oaks	135	162	298	-27	190	-100	362	-106	256
Red oaks	4,786	11,999	16,785	-688	1,109	-649	16,557	-6,876	9,681
Basswood	134	501	635	-422	317	0	530	-584	-54
Elm	399	246	645	-2,628	70	-45	-1,958	-323	-2,281
Other hardwoods	648	459	1,107	-452	729	-140	1,243	-359	884
Total hardwoods	84,572	160,631	245,203	-59,436	64,041	-27,588	222,220	-141,765	80,455
Total, all species	186,925	382,631	569,556	-226,095	107,202	-45,911	404,752	-502,584	-97,832
SE	2.5	2.2	1.8	3.7	3.9	5.9	3.6	4.1	

NOTE: Removals and mortality volumes for all tables containing these estimates are calculated using each trees' diameter breast height that was measured during the 1982 inventory, if the tree is no longer present.

Table 30. Average annual net growth, average annual removals, and average annual mortality of growing-stock and sawtimber volume on timberland by species, Maine, 1995

Species group	(In thousands of cubic feet)			(In thousands of board feet)		
	Growing stock			Sawtimber		
	Net growth	Removals	Mortality	Net growth	Removals	Mortality
Balsam fir	-7,184	-97,133	-102,356	-8,614	-143,711	-151,424
Tamarack	3,934	-1,448	-2,155	8,126	-2,869	-6,067
White spruce	11,231	-14,219	-3,695	35,586	-35,312	-6,681
Black spruce	5,743	-8,160	-3,111	10,753	-7,563	-4,076
Red spruce	43,026	-127,483	-34,956	201,782	-340,914	-68,816
Red pine	1,163	-1,185	-104	6,149	-4,652	-230
White pine	59,417	-52,020	-4,367	242,945	-212,854	-13,858
Northern white-cedar	30,660	-21,570	-12,101	53,104	-48,459	-27,615
Hemlock	34,613	-37,093	-3,469	121,312	-111,091	-8,973
Other softwoods	-70	-507	-345	-3	-1,481	-573
Total softwoods	182,532	-360,819	-166,659	671,141	-908,908	-288,313
Red maple	66,921	-34,728	-8,731	96,583	-57,777	-15,799
Sugar maple	29,738	-14,495	-6,047	63,443	-46,031	-21,184
Yellow birch	17,940	-12,690	-5,279	31,291	-31,688	-15,345
Paper birch	17,561	-19,194	-10,310	24,886	-26,981	-12,091
Gray birch	747	-712	-2,307	0	0	0
Beech	26,001	-11,789	-7,801	20,057	-20,761	-19,814
White ash	10,790	-3,700	-982	22,611	-6,822	-1,389
Black ash	1,006	-986	-1,291	-604	-1,529	-1,459
Aspen	34,781	-35,224	-12,472	95,667	-60,991	-12,575
White oaks	362	-106	-27	631	-396	0
Red oaks	16,557	-6,876	-688	36,846	-19,209	-904
Basswood	530	-584	-422	904	-2,371	-1,451
Elm	-1,958	-323	-2,628	-8,608	-778	-8,786
Other hardwoods	1,243	-359	-452	2,859	-362	0
Total hardwoods	222,220	-141,765	-59,436	386,566	-275,695	-110,797
Total, all species	404,752	-502,584	-226,095	1,057,708	-1,184,603	-399,111

Table 31. Average annual net growth, average annual removals, and average annual mortality of growing-stock and sawtimber volume on timberland by species, Maine, 1995

Ownership class	(In thousands of cubic feet)			In thousands of board feet)		
	Growing stock			Sawtimber		
	Net growth	Removals	Mortality	Net growth	Removals	Mortality
National Forest	717	-502	-842	5,919	-202	-1,707
Other public	12,945	-14,003	-9,196	45,057	-34,177	-15,755
Forest industry	113,002	-230,897	-119,336	355,336	-520,714	-219,015
Other private	278,089	-257,182	-96,721	651,396	-629,510	-162,634
All classes	404,752	-502,584	-226,095	1,057,708	-1,184,603	-399,111

Table 32. Area of timberland by forest type, forest-type group, and stand-size class, Aroostock County, Maine, 1982

(In thousands of acres)						
Forest type	Stand-size class				All classes	SE
	Saw-timber	Pole-timber	Sapling and seedling	Non-stocked		
Hemlock	8.4	8.5	.0	.0	16.9	70.7
White/red pine group	8.4	8.5	.0	.0	16.9	70.7
Balsam fir	159.7	368.1	110.8	8.4	647.1	10.4
Red spruce	33.8	124.5	.0	.0	158.3	22.5
Red spruce/balsam fir	265.9	242.8	59.8	.0	568.5	11.2
White spruce	8.4	42.3	8.4	.0	59.1	37.5
Black spruce	.0	92.7	24.8	.0	117.5	26.5
Northern white-cedar	252.8	202.7	8.8	.0	464.3	12.6
Tamarack	8.8	.0	8.8	.0	17.5	70.0
Spruce/fir group	729.4	1,073.1	221.4	8.4	2,032.4	4.4
Black ash/Amer. elm/red maple	8.4	25.2	8.4	.0	42.0	44.6
Red maple(lowland)	8.8	.0	.0	.0	8.8	100.0
Willow	.0	.0	34.2	.0	34.2	49.9
Elm/ash/red maple group	17.2	25.2	42.6	.0	85.0	31.2
Sugar maple/beech/yellow birch	592.4	257.8	33.5	.0	883.6	8.4
Black Cherry	.0	.0	8.8	.0	8.8	100.0
Red maple/northern hardwoods	.0	75.5	16.9	.0	92.4	29.7
Pin cherry/reverting field	.0	.0	60.5	.0	60.5	34.4
Mixed northern hardwoods	33.3	50.9	25.4	.0	109.7	27.5
Northern hardwoods group	625.7	384.2	145.1	.0	1,155.0	7.1
Aspen	42.2	209.9	91.8	.0	343.9	15.0
Paper birch	.0	100.5	25.4	.0	125.8	25.3
Aspen/birch group	42.2	310.4	117.2	.0	469.8	12.6
All forest types	1,422.9	1,801.4	526.4	8.4	3,759.0	.8
SE	6.0	4.9	10.9	100.0	.8	

Table 33. Area of timberland by forest type, forest-type group, and stand-size class, Aroostock County, Maine, 1995

(In thousands of acres)						
Forest type	Stand-size class				All classes	SE
	Saw-timber	Pole-timber	Sapling and seedling	Non-stocked		
White pine	6.5	.0	.0	.0	6.5	100.0
Hemlock	12.7	6.6	.0	.0	19.3	57.5
White/red pine group	19.1	6.6	.0	.0	25.8	49.8
Balsam fir	58.3	52.4	368.2	.0	478.9	10.5
Red spruce	87.2	82.7	.0	.0	169.9	17.5
Red spruce/balsam fir	104.1	106.0	133.5	.0	343.6	12.9
White spruce	13.1	13.6	36.0	.0	62.8	31.1
Black spruce	.0	45.8	35.7	.0	81.4	26.6
Northern white-cedar	363.2	132.3	46.1	.0	541.6	9.7
Tamarack	.0	13.8	13.2	.0	27.0	49.9
Spruce/fir group	625.8	446.6	632.7	.0	1,705.1	4.2
Black ash/Amer. elm/red maple	.0	12.2	12.7	.0	24.9	49.8
Red maple(lowland)	.0	.0	6.6	.0	6.6	100.0
Red maple(upland)	.0	6.4	6.1	.0	12.5	70.7
Willow	.0	.0	34.0	.0	34.0	41.4
Elm/ash/red maple group	.0	18.6	59.5	.0	78.1	27.7
Sugar maple/beech/yellow birch	657.5	315.0	109.8	.0	1,082.3	5.6
Red maple/northern hardwoods	35.3	77.2	51.1	.0	163.6	19.4
Pin cherry/reverting field	.0	.0	18.7	.0	18.7	56.7
Mixed northern hardwoods	18.4	31.3	32.9	.0	82.6	27.1
Northern hardwoods group	711.2	423.5	212.5	.0	1,347.3	4.8
Aspen	49.5	202.3	165.5	.0	417.4	11.5
Paper birch	26.0	59.9	91.6	.0	177.5	18.4
Aspen/birch group	75.5	262.2	257.1	.0	594.9	9.5
All forest types	1,431.7	1,157.6	1,161.8	.0	3,751.1	.9
SE	5.1	6.0	5.3	.0	.9	

Table 34. Net volume of growing-stock trees on timberland by species and diameter class, Aroostook County, Maine, 1982

(In millions of cubic feet)

Species group	Diameter class (inches at breast height)										All classes
	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0+	
Balsam fir	367.3	405.5	286.5	134.1	49.9	18.7	1.4	.0	.0	.0	1,263.4
Tamarack	5.6	6.3	12.1	8.8	6.5	1.5	1.1	3.7	.0	.0	45.7
White spruce	37.9	43.6	45.3	31.9	16.0	15.7	.0	3.3	4.7	.0	198.4
Black spruce	69.1	66.2	28.2	13.5	6.6	.0	.0	.0	.0	.0	183.9
Red spruce	163.8	261.0	227.3	177.6	116.5	70.4	24.4	23.1	9.6	.0	1,073.7
White pine	3.6	2.8	1.1	3.5	9.5	.6	.0	6.3	17.6	11.3	56.5
Northern white-cedar	81.8	141.5	170.3	147.4	113.5	76.3	25.7	31.6	15.0	.0	803.1
Hemlock	4.4	9.6	16.5	17.8	6.4	8.8	1.9	3.7	20.8	.0	90.0
Other softwoods	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
Total softwoods	733.7	936.7	787.3	534.6	325.0	192.1	54.6	71.7	67.6	11.3	3,714.9
Red Maple	28.4	45.0	55.8	28.3	28.6	16.2	4.2	14.4	.0	.0	220.9
Sugar maple	29.3	35.0	44.3	59.6	39.6	45.2	37.4	38.5	87.1	.0	416.0
Yellow birch	15.5	17.4	30.3	21.9	25.5	10.1	7.7	3.2	11.5	.0	143.1
Paper birch	33.0	44.5	33.5	15.4	6.7	3.6	1.6	.8	.0	.0	139.0
Gray birch	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
Beech	30.6	37.3	27.3	34.7	36.2	23.8	5.9	6.2	2.1	.0	203.8
White ash	.8	4.4	5.4	4.3	.0	1.1	1.1	.0	2.4	.0	19.7
Black ash	5.0	2.8	3.4	1.3	2.2	.7	.0	.0	.0	.0	15.3
Aspen	40.9	68.0	108.8	73.9	29.1	26.2	4.4	4.3	1.3	3.5	360.2
Red oaks	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.8
Elm	.2	1.4	1.0	2.0	1.0	.0	.0	.0	.0	.0	5.6
Other hardwoods	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
Total hardwoods	184.3	255.9	309.8	241.3	169.5	126.8	62.1	67.3	104.5	3.5	1,524.9
Total, all species	918.0	1,192.7	1,097.1	775.9	494.5	318.9	116.6	139.0	172.1	14.8	5,239.5

Table 35. Net volume of growing-stock trees on timberland by species and diameter class, Aroostock County, Maine, 1995

(In millions of cubic feet)

Species group	Diameter class (inches at breast height)										All classes	SE
	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0+		
Balsam fir	142.1	156.6	121.1	63.4	22.5	7.6	.0	.0	.0	.0	513.3	6.9
Tamarack	10.0	13.1	11.5	15.3	5.4	5.4	1.3	.0	4.0	.0	66.1	22.8
White spruce	23.2	28.6	29.0	36.1	24.2	7.6	12.5	6.0	10.4	.0	177.7	12.1
Black spruce	51.0	45.0	32.6	13.2	6.4	2.5	.0	.0	.0	.0	150.8	18.4
Red spruce	84.5	157.0	164.8	129.4	78.4	49.0	8.7	8.9	10.3	.0	691.1	8.2
White pine	.8	1.6	3.2	2.5	4.6	8.8	4.5	1.8	11.6	.0	39.5	26.0
Northern white-cedar	92.6	157.0	152.5	146.0	113.4	70.9	45.1	16.9	13.6	.0	808.0	9.3
Hemlock	6.1	9.6	11.9	14.8	18.7	7.9	9.3	.0	18.1	.0	96.4	16.9
Other softwoods	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	100.0
Total softwoods	410.4	568.7	526.6	420.7	273.7	159.9	81.4	33.6	67.9	.0	2,542.9	4.5
Red maple	37.3	60.9	63.8	38.4	31.4	17.3	8.4	8.1	8.1	.0	273.8	8.2
Sugar maple	35.2	58.6	73.9	76.9	66.1	48.3	33.0	34.3	90.0	11.5	527.8	8.7
Yellow birch	20.8	31.2	37.8	31.4	24.9	29.9	15.4	7.8	13.3	.0	212.5	8.1
Paper birch	39.1	48.9	38.6	13.4	8.8	1.9	1.6	1.2	.0	.0	153.5	11.9
Gray birch	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	72.1
Beech	37.4	47.0	36.6	34.3	35.9	16.4	8.5	5.6	.0	.0	221.5	11.4
White ash	1.9	2.8	5.3	6.0	3.8	.0	1.1	.0	2.4	.0	23.4	29.5
Black ash	4.5	2.9	1.5	3.1	1.5	.8	.0	.0	.0	.0	14.2	26.9
Aspen	47.0	86.4	91.5	74.5	56.0	18.3	3.1	5.0	2.8	4.4	388.9	12.5
Red oaks	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.8	100.0
Basswood	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	100.0
Elm	.3	.4	1.1	.0	1.1	.0	.0	.0	.0	.0	2.9	43.2
Other hardwoods	.7	.4	.2	.0	.0	.0	.0	.0	.0	.0	1.2	33.5
Total hardwoods	224.2	339.7	350.3	278.0	229.4	133.6	71.0	62.0	116.7	15.9	1,820.8	4.1
Total, all species	634.6	908.4	876.9	698.7	503.1	293.5	152.4	95.6	184.6	15.9	4,363.6	2.8
SE	4.1	3.8	3.7	4.4	5.4	7.1	10.4	15.2	12.8	50.2	2.8	

Table 36. Net volume of growing-stock trees on timberland by forest type and stand-size class, Aroostock County, Maine, 1995

(In millions of cubic feet)

Forest type	Stand-size class				All classes	SE
	Saw-timber	Pole-timber	Sapling and seedling	Non-stocked		
White pine	5.7	.0	.0	.0	5.7	100.0
Hemlock	16.5	7.4	.0	.0	23.8	57.5
White/red pine group	22.2	7.4	.0	.0	29.5	50.3
Balsam fir	94.8	100.5	84.0	.0	279.3	18.4
Red spruce	188.5	153.6	.0	.0	342.1	19.0
Red spruce/balsam fir	179.8	146.3	62.6	.0	388.7	16.2
White spruce	12.9	24.5	1.6	.0	39.0	47.9
Black spruce	.0	66.9	20.8	.0	87.7	32.4
Northern white-cedar	726.0	189.9	20.8	.0	936.7	11.3
Tamarack	.0	29.0	2.6	.0	31.6	70.1
Spruce/fir group	1,202.0	710.8	192.4	.0	2,105.2	6.0
Black ash/Amer. elm/red maple	.0	8.5	3.7	.0	12.2	55.8
Red maple(lowland)	.0	.0	.8	.0	.8	100.0
Red maple(upland)	.0	4.6	.0	.0	4.6	100.0
Willow	.0	.0	2.7	.0	2.7	55.8
Elm/ash/red maple group	.0	13.1	7.2	.0	20.3	41.2
Sugar maple/beech/yellow birch	1,028.4	377.8	18.4	.0	1,424.6	6.5
Red maple/northern hardwoods	37.7	75.5	22.8	.0	135.9	21.7
Pin cherry/reverting field	.0	.0	2.3	.0	2.3	73.2
Mixed northern hardwoods	31.1	27.6	3.3	.0	61.9	36.0
Northern hardwoods group	1,097.1	480.9	46.7	.0	1,624.7	5.7
Aspen	94.6	331.2	36.8	.0	462.6	15.1
Paper birch	27.4	85.3	8.7	.0	121.4	29.4
Aspen/birch group	122.0	416.5	45.5	.0	584.0	13.1
All forest types	2,443.3	1,628.5	291.8	.0	4,363.6	2.8
SE	5.9	6.9	9.9	.0	2.8	

Table 37. Net volume of sawtimber trees on timberland by species and diameter class, Aroostock County, Maine, 1995

(In millions of board feet)

Species group	Diameter class (inches at breast height)								All classes	SE
	9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 28.9	29.0+		
Balsam fir	444.8	271.0	105.3	33.5	.0	.0	.0	.0	854.6	9.8
Tamarack	39.7	58.3	22.0	23.6	5.0	.0	18.0	.0	166.6	29.7
White spruce	106.9	152.6	111.5	35.8	62.1	32.4	55.6	.0	556.9	14.9
Black spruce	114.1	55.0	29.1	11.7	.0	.0	.0	.0	209.9	20.4
Red spruce	599.6	545.2	364.9	237.1	43.1	44.6	55.3	.0	1,889.8	8.5
White pine	11.2	9.3	18.7	42.8	23.4	7.5	62.3	.0	175.3	27.1
Northern white-cedar	417.8	469.0	391.7	264.7	166.3	69.5	56.0	.0	1,835.0	10.1
Hemlock	41.2	58.2	78.7	35.1	40.3	.0	91.6	.0	345.1	18.7
Total softwoods	1,775.4	1,618.6	1,121.9	684.2	340.1	154.1	338.9	.0	6,033.1	5.5
Red maple	.0	153.6	135.3	72.4	34.7	35.7	40.9	.0	472.6	12.6
Sugar maple	.0	314.4	289.2	223.1	161.9	164.8	469.1	59.4	1,681.8	10.4
Yellow birch	.0	133.2	102.0	130.8	64.8	33.2	61.3	.0	525.4	11.0
Paper birch	.0	53.2	36.7	10.3	6.9	6.6	.0	.0	113.8	23.5
Beech	.0	154.8	163.6	80.6	44.3	28.6	.0	.0	471.9	15.9
White ash	.0	26.5	16.7	.0	5.6	.0	11.3	.0	60.1	32.7
Black ash	.0	15.4	7.3	2.5	.0	.0	.0	.0	25.3	38.2
Aspen	.0	307.6	247.1	85.2	12.4	22.2	15.6	25.8	715.8	16.2
Red oaks	.0	.0	.0	2.8	.0	.0	.0	.0	2.8	100.0
Elm	.0	.0	4.2	.0	.0	.0	.0	.0	4.2	70.7
Total hardwoods	.0	1,158.7	1,002.1	607.8	330.6	291.2	598.1	85.2	4,073.6	6.1
Total, all species	1,775.4	2,777.3	2,124.1	1,291.9	670.6	445.2	937.0	85.2	10,106.7	4.0
SE	5.7	4.4	5.4	7.1	10.6	15.6	13.0	51.8	4.0	

Table 38. Number of growing-stock trees (5.0+ inches d.b.h.) on timberland by species and diameter class, Aroostock County, Maine, 1995

(In thousands of trees)

Species group	Diameter class (inches at breast height)										All classes	SE
	5.0- 6.9	7.0- 8.9	9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 28.9	29.0+		
Balsam fir	51,811	24,607	10,566	3,515	955	282	0	0	0	0	91,736	5.9
Tamarack	3,595	2,241	1,029	932	261	193	33	0	65	0	8,350	25.6
White spruce	7,757	4,406	2,333	2,038	996	225	322	98	119	0	18,295	10.6
Black spruce	15,734	6,607	2,689	776	286	69	0	0	0	0	26,160	19.1
Red spruce	25,342	22,465	13,595	7,270	3,049	1,479	220	156	93	0	73,668	9.0
White pine	398	264	354	196	197	287	98	33	160	0	1,987	27.8
Northern white-cedar	37,403	30,610	17,191	11,220	6,409	2,979	1,572	453	291	0	108,129	10.0
Hemlock	2,163	1,820	1,222	961	995	322	296	0	272	0	8,050	17.8
Other softwoods	33	0	0	0	0	0	0	0	0	0	33	100.0
Total softwoods	144,235	93,020	48,980	26,908	13,148	5,836	2,541	741	1,000	0	336,409	4.2
Red maple	15,957	11,028	6,611	2,625	1,657	714	227	189	155	0	39,165	8.1
Sugar maple	13,205	9,458	7,076	4,866	3,116	1,688	892	729	1,451	98	42,579	8.3
Yellow birch	9,229	5,750	4,279	2,365	1,336	1,205	507	220	257	0	25,148	8.1
Paper birch	14,649	8,037	3,814	875	424	61	32	33	0	0	27,927	10.8
Gray birch	67	0	0	0	0	0	0	0	0	0	67	70.7
Beech	15,347	8,352	3,718	2,254	1,673	591	312	128	0	0	32,375	10.8
White ash	639	448	536	381	186	0	31	0	30	0	2,251	29.2
Black ash	1,794	485	154	257	64	31	0	0	0	0	2,785	25.2
Aspen	14,207	12,481	8,169	4,376	2,449	606	95	129	68	31	42,612	13.1
Red oaks	0	0	0	0	0	31	0	0	0	0	31	100.0
Basswood	0	33	0	0	0	0	0	0	0	0	33	100.0
Elm	129	99	151	0	63	0	0	0	0	0	443	37.2
Other hardwoods	354	99	30	0	0	0	0	0	0	0	483	29.0
Total hardwoods	85,578	56,271	34,539	17,999	10,970	4,927	2,096	1,429	1,962	128	215,899	4.0
Total, all species	229,813	149,291	83,519	44,908	24,118	10,763	4,637	2,170	2,962	128	552,308	2.8
SE	3.7	3.6	3.7	4.2	5.3	7.1	10.3	14.7	11.6	49.8	2.8	

Table 39. Average annual net change of growing-stock volume on timberland by species and component of change, Aroostock County, Maine, 1995

(In thousands of cubic feet)

Species group	Component of change								Net change
	Ingrowth	Accretion	Gross growth	Mortality	Cull decrement	Cull increment	Net growth	Removals	
Balsam fir	9,249	10,688	19,938	-39,731	653	-146	-19,287	-33,746	-53,033
Tamarack	822	1,391	2,213	-295	158	-33	2,043	-557	1,485
White spruce	1,153	3,227	4,379	-1,265	1,072	-16	4,171	-5,575	-1,403
Black spruce	2,042	2,793	4,835	-1,473	60	-37	3,385	-5,657	-2,271
Red spruce	2,811	14,383	17,194	-9,353	1,173	-231	8,783	-35,782	-26,999
White pine	96	1,388	1,485	-74	88	-60	1,439	-2,721	-1,282
Northern white-cedar	4,747	11,501	16,249	-4,823	5,806	-3,593	13,639	-12,780	859
Hemlock	765	1,848	2,614	-779	470	-133	2,172	-1,565	607
Total softwoods	21,687	47,221	68,907	-57,793	9,480	-4,249	16,345	-98,382	-82,036
Red maple	3,040	4,465	7,505	-1,989	3,153	-1,373	7,296	-3,416	3,880
Sugar maple	2,857	9,157	12,014	-2,374	3,247	-1,408	11,479	-3,267	8,213
Yellow birch	1,835	3,624	5,459	-920	2,086	-457	6,167	-1,285	4,883
Paper birch	2,255	2,109	4,364	-2,400	1,232	-535	2,661	-1,603	1,058
Gray birch	18	0	18	0	0	0	18	-26	-8
Beech	1,956	2,842	4,798	-3,659	2,256	-855	2,540	-1,349	1,191
White ash	145	361	506	-105	0	-71	330	-45	285
Black ash	52	232	284	-446	260	-70	29	-86	-57
Aspen	6,209	7,884	14,093	-3,527	886	-195	11,257	-9,163	2,094
Red oaks	0	16	16	0	0	0	16	0	16
Basswood	0	0	0	0	27	0	27	0	27
Elm	0	18	18	-160	26	0	-115	-97	-212
Other hardwoods	63	0	63	0	63	0	126	0	126
Total hardwoods	18,430	30,709	49,139	-15,579	13,237	-4,964	41,833	-20,337	21,496
Total, all species	40,117	77,929	118,046	-73,372	22,717	-9,213	58,178	-118,719	-60,541
SE	5.9	4.4	3.7	7.2	7.9	11.3	12.5	9.2	

NOTE: Removals and mortality volumes for all tables containing these estimates are calculated using each tree's diameter breast height that was measured during the 1982 inventory, if the tree is no longer present.

Table 40. Area of timberland by forest type, forest-type group, and stand-size class, Capital Region, Maine, 1982

(In thousands of acres)

Forest type	Stand-size class				All classes	SE
	Saw-timber	Pole-timber	Sapling and seedling	Non-stocked		
White pine	73.2	16.0	12.8	.0	102.0	18.9
White pine/hemlock	4.0	8.3	.0	.0	12.3	57.8
Hemlock	53.1	20.3	.0	.0	73.4	22.6
White/red pine group	130.3	44.6	12.8	.0	187.6	13.3
Balsam fir	3.1	64.4	36.7	.0	104.1	18.5
Red spruce	23.4	23.6	4.1	.0	51.1	25.6
Red spruce/balsam fir	4.0	28.0	12.3	.0	44.4	29.7
Northern white-cedar	.0	25.0	4.1	.0	29.0	37.3
Tamarack	4.1	3.7	.0	.0	7.8	70.8
Spruce/fir group	34.6	144.6	57.1	.0	236.4	11.0
Wh. pine/no.red oak/wh. ash	20.6	4.5	4.1	.0	29.1	35.9
Oak/pine group	20.6	4.5	4.1	.0	29.1	35.9
Northern red oak	12.3	32.5	4.2	.0	49.0	28.2
Mixed central hardwoods	24.4	32.5	4.1	.0	61.0	25.2
Oak/hickory group	36.7	65.1	8.3	.0	110.0	18.3
Black ash/Amer. elm/red maple	.0	7.8	.0	.0	7.8	70.8
Red maple(lowland)	.0	4.7	.0	.0	4.7	100.0
Red maple(upland)	.0	4.1	.0	.0	4.1	100.0
American elm/green ash	.0	16.6	.0	.0	16.6	50.0
Elm/ash/red maple group	.0	33.1	.0	.0	33.1	35.2
Sugar maple/beech/yellow birch	4.1	81.0	8.0	.0	93.0	20.0
Black Cherry	.0	.0	8.1	.0	8.1	70.7
Red maple/northern hardwoods	28.3	138.8	20.2	.0	187.2	13.5
Pin cherry/reverting field	.0	.0	12.2	.0	12.2	57.7
Mixed northern hardwoods	20.2	24.3	25.0	.0	69.5	23.8
Northern hardwoods group	52.5	244.1	73.4	.0	370.0	8.7
Aspen	4.0	85.3	20.5	.0	109.8	18.4
Paper birch	.0	32.3	16.5	.0	48.8	28.3
Gray birch	.0	40.3	7.7	.0	48.0	28.0
Aspen/birch group	4.0	157.9	44.7	.0	206.6	12.7
All forest types	278.6	693.9	200.4	.0	1,172.8	1.4
SE	10.5	5.0	12.8	.0	1.4	

Table 41. Area of timberland by forest type, forest-type group, and stand-size class, Capitol Region, Maine, 1995

(In thousands of acres)

Forest type	Stand-size class				All classes	SE
	Saw-timber	Pole-timber	Sapling and seedling	Non-stocked		
White pine	76.1	11.5	.0	.0	87.6	25.2
White pine/hemlock	20.5	.0	.0	.0	20.5	56.6
Hemlock	49.3	14.3	.0	.0	63.6	31.7
White/red pine group	145.9	25.8	.0	.0	171.8	17.4
Balsam fir	26.2	55.5	29.0	.0	110.6	23.8
Red spruce	18.6	13.8	.0	.0	32.4	45.0
Red spruce/balsam fir	13.3	46.1	.5	.0	59.9	31.8
White spruce	.0	13.4	.0	.0	13.4	70.8
Black spruce	.0	.0	6.4	.0	6.4	100.0
Northern white-cedar	19.3	2.5	.0	.0	21.8	52.5
Spruce/fir group	77.4	131.3	35.9	.0	244.6	14.1
Wh. pine/no.red oak/wh. ash	.0	27.5	11.7	.0	39.2	39.6
Oak/pine group	.0	27.5	11.7	.0	39.2	39.6
Northern red oak	10.9	27.4	.0	.0	38.3	38.3
Hawthorn/reverting field	.8	.0	.0	.0	.8	100.0
Mixed central hardwoods	26.5	20.6	.0	.0	47.1	37.8
Oak/hickory group	38.1	48.0	.0	.0	86.2	25.9
Black ash/Amer. elm/red maple	.0	7.5	17.3	.0	24.8	58.8
Red maple(lowland)	.0	13.0	.0	.0	13.0	70.7
Red maple(upland)	.0	6.9	.0	.0	6.9	100.0
Elm/ash/red maple group	.0	27.5	17.3	.0	44.8	41.5
Sugar maple/beech/yellow birch	20.8	76.7	23.6	.0	121.1	20.6
Black Cherry	.0	5.3	6.4	.0	11.8	71.0
Red maple/northern hardwoods	45.0	101.2	43.0	.0	189.3	18.0
Pin cherry/reverting field	.0	.0	3.6	.0	3.6	100.0
Mixed northern hardwoods	25.3	39.5	40.9	.0	105.6	23.6
Northern hardwoods group	91.1	222.8	117.6	.0	431.4	9.3
Aspen	15.4	61.2	25.6	.0	102.2	24.0
Paper birch	13.2	27.5	6.4	.0	47.1	36.9
Gray birch	.0	6.9	.0	.0	6.9	100.0
Aspen/birch group	28.6	95.6	32.0	.0	156.3	19.3
All forest types	381.2	578.5	214.5	.0	1,174.2	2.0
SE	10.9	7.9	15.3	.0	2.0	

Table 42. Net volume of growing-stock trees on timberland by species and diameter class, Capitol Region, Maine, 1982

(In millions of cubic feet)

Species group	Diameter class (inches at breast height)										All classes
	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0+	
Balsam fir	42.1	22.7	13.1	3.0	.8	.0	.0	.0	.0	.0	81.7
Tamarack	1.8	5.3	4.4	3.0	5.5	3.3	.0	.0	.0	.0	23.3
White spruce	4.2	3.7	2.0	3.6	2.3	2.1	1.3	2.6	.0	.0	21.9
Black spruce	.4	.0	.6	.5	.0	.0	.0	.0	.0	.0	1.5
Red spruce	18.5	26.4	20.2	20.3	13.6	12.2	4.5	2.1	.0	.0	117.9
Red pine	.4	.0	.4	1.2	2.6	.0	.0	.0	.0	.0	4.5
White pine	18.1	26.9	43.6	60.3	51.4	39.5	47.6	30.8	52.9	24.7	396.0
Northern white-cedar	8.6	9.2	6.4	4.0	1.4	.0	.0	.0	.0	.0	29.6
Hemlock	15.4	29.6	35.6	32.3	32.0	18.3	10.1	2.5	9.2	.0	184.9
Other softwoods	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1
Total softwoods	109.5	123.8	126.3	128.2	109.6	75.3	63.6	38.2	62.3	24.7	861.5
Red Maple	44.3	45.7	52.5	37.8	14.3	8.2	3.8	4.0	6.5	5.7	222.9
Sugar maple	4.5	7.6	10.7	4.6	2.5	1.1	3.5	.0	.0	.0	34.6
Yellow birch	4.9	5.8	3.8	3.0	.0	3.4	1.0	.0	.0	.0	21.9
Paper birch	17.3	25.6	21.6	19.4	4.4	.7	.0	.0	.0	.0	89.0
Gray birch	5.3	1.3	.7	.0	.0	.0	.0	.0	.0	.0	7.4
Beech	4.7	3.4	3.2	7.1	6.0	1.6	1.8	.0	.0	.0	27.9
White ash	6.0	10.1	7.6	2.2	3.9	2.7	3.6	.0	2.8	.0	38.0
Aspen	14.6	24.0	20.9	17.4	11.6	2.0	.0	.0	.0	.0	90.6
Red oaks	10.9	18.4	13.8	22.4	12.3	13.9	3.7	2.8	10.0	.0	108.3
Basswood	.1	.3	.3	.3	.0	.0	1.6	.0	.0	.0	2.5
Elm	1.2	.8	.0	1.9	1.7	.0	.0	.0	.0	.0	5.6
Other hardwoods	1.2	1.9	4.8	2.1	.4	.0	.0	.0	.0	.0	10.5
Total hardwoods	115.0	144.9	140.1	118.3	57.2	33.4	19.1	6.8	19.4	5.7	659.8
Total, all species	224.6	268.7	266.4	246.7	166.7	108.7	82.8	45.0	81.6	30.4	1,521.3

Table 43. Net volume of growing-stock trees on timberland by species and diameter class, Capitol Region, Maine, 1995

(In millions of cubic feet)

Species group	Diameter class (inches at breast height)										All classes	SE
	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0+		
Balsam fir	66.0	48.9	23.3	2.7	1.5	.0	.0	.0	.0	.0	142.4	12.4
Tamarack	.8	2.4	2.5	1.2	.7	.8	.0	.0	.0	.0	8.4	37.5
White spruce	2.1	4.0	3.6	2.1	2.7	1.5	1.3	.0	1.3	.0	18.6	58.6
Black spruce	.4	.5	.7	.0	.8	.0	.0	.0	.0	.0	2.4	50.9
Red spruce	20.4	22.8	26.9	15.9	15.4	9.2	4.3	2.1	.0	.0	117.0	25.4
Red pine	.1	.0	.4	.0	2.2	.8	.0	.0	.0	.0	3.5	65.4
White pine	16.5	31.1	38.3	40.3	59.6	43.4	40.7	31.7	41.6	10.1	353.4	17.2
Northern white-cedar	8.1	14.0	8.5	7.1	2.3	.6	.0	.0	.0	.0	40.6	28.7
Hemlock	10.4	23.2	27.2	27.8	27.3	18.3	8.2	5.0	8.5	.0	155.9	23.2
Other softwoods	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.5	65.0
Total softwoods	124.9	147.3	131.4	97.1	112.5	74.6	54.5	38.9	51.5	10.1	842.8	8.8
Red maple	43.9	58.7	45.8	29.3	16.9	13.0	2.0	3.5	4.2	.0	217.4	9.9
Sugar maple	5.0	5.9	5.1	5.8	4.3	1.5	.0	2.3	.0	.0	30.0	30.8
Yellow birch	4.4	5.7	2.4	2.4	.7	.9	1.9	1.1	.0	.0	19.5	21.2
Paper birch	20.4	25.9	20.7	15.1	5.5	1.0	.6	.0	.0	.0	89.2	14.6
Gray birch	3.9	2.9	.7	.0	.0	.0	.0	.0	.0	.0	7.6	22.8
Beech	8.6	13.4	11.8	11.0	5.8	3.8	1.6	.0	.0	.0	56.0	28.0
White ash	8.0	10.7	8.7	5.1	5.5	3.4	1.6	4.6	.0	.0	47.5	20.5
Black ash	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	74.1
Aspen	16.7	19.5	18.9	12.3	14.7	3.3	4.7	.0	.0	.0	90.1	21.1
Red oaks	12.5	18.4	15.9	17.7	13.5	16.1	7.6	4.5	9.0	.0	115.3	17.9
Basswood	.4	.5	.3	.4	.0	.0	.0	1.3	.0	.0	2.8	57.9
Elm	1.0	1.4	1.0	.6	.0	.0	.0	.0	.0	.0	4.0	44.5
Other hardwoods	2.2	2.6	3.1	2.4	1.7	1.4	.0	.0	.0	.0	13.4	31.6
Total hardwoods	127.3	165.6	134.5	102.1	68.6	44.3	20.0	17.3	13.2	.0	693.0	7.3
Total, all species	252.3	312.9	265.9	199.3	181.1	118.9	74.6	56.2	64.7	10.1	1,535.8	5.4
SE	6.2	5.9	6.7	9.0	9.9	12.3	19.7	21.1	28.6	51.1	5.4	

Table 44. Net volume of growing-stock trees on timberland by forest type and stand-size class, Capitol Region, Maine, 1995

Forest type	Stand-size class				All classes	SE
	Saw-timber	Pole-timber	Sapling and seedling	Non-stocked		
White pine	239.7	22.2	.0	.0	262.0	25.8
White pine/hemlock	61.1	.0	.0	.0	61.1	62.1
Hemlock	116.5	8.0	.0	.0	124.5	36.9
White/red pine group	417.4	30.2	.0	.0	447.6	19.1
Balsam fir	30.5	52.1	12.4	.0	95.0	27.5
Red spruce	58.1	16.8	.0	.0	74.8	47.7
Red spruce/balsam fir	26.8	45.1	.0	.0	71.9	37.1
White spruce	.0	21.3	.0	.0	21.3	81.0
Black spruce	.0	.0	2.6	.0	2.6	100.0
Northern white-cedar	33.8	2.2	.0	.0	36.0	61.4
Spruce/fir group	149.1	137.5	15.1	.0	301.7	18.0
Wh. pine/no.red oak/wh. ash	.0	36.7	6.2	.0	42.9	43.0
Oak/pine group	.0	36.7	6.2	.0	42.9	43.0
Northern red oak	8.8	27.7	.0	.0	36.5	46.0
Hawthorn/reverting field	.3	.0	.0	.0	.3	100.0
Mixed central hardwoods	51.7	33.7	.0	.0	85.5	40.1
Oak/hickory group	60.9	61.5	.0	.0	122.3	29.9
Black ash/Amer. elm/red maple	.0	1.4	5.2	.0	6.6	61.9
Red maple(lowland)	.0	15.0	.0	.0	15.0	71.3
Red maple(upland)	.0	6.2	.0	.0	6.2	100.0
Elm/ash/red maple group	.0	22.6	5.2	.0	27.8	46.8
Sugar maple/beech/yellow birch	41.1	81.8	3.3	.0	126.1	27.0
Black Cherry	.0	2.6	.3	.0	3.0	89.4
Red maple/northern hardwoods	50.6	117.0	9.6	.0	177.2	21.6
Pin cherry/reverting field	.0	.0	.0	.0	.0	100.0
Mixed northern hardwoods	51.0	42.7	7.5	.0	101.2	31.8
Northern hardwoods group	142.7	244.1	20.7	.0	407.5	13.3
Aspen	32.2	86.1	.5	.0	118.8	30.6
Paper birch	23.1	41.7	.4	.0	65.1	41.3
Gray birch	.0	2.0	.0	.0	2.0	100.0
Aspen/birch group	55.3	129.8	.9	.0	186.0	23.9
All forest types	825.3	662.5	48.0	.0	1,535.8	5.4
SE	12.3	9.5	23.0	.0	5.4	

Table 45. Net volume of sawtimber trees on timberland by species and diameter class, Capitol Region, Maine, 1995

(In millions of board feet)

Species group	Diameter class (inches at breast height)								All classes	SE
	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0+		
Balsam fir	77.8	11.9	5.9	.0	.0	.0	.0	.0	95.6	20.6
Tamarack	9.1	4.8	2.9	2.8	.0	.0	.0	.0	19.6	45.8
White spruce	12.2	8.1	13.0	8.6	6.8	.0	6.9	.0	55.7	69.1
Black spruce	2.7	.0	3.8	.0	.0	.0	.0	.0	6.6	71.7
Red spruce	98.6	68.9	72.6	43.2	21.6	10.5	.0	.0	315.4	33.3
Red pine	1.1	.0	9.2	2.9	.0	.0	.0	.0	13.3	63.5
White pine	121.5	157.5	255.0	200.2	196.8	162.2	215.9	57.1	1,366.2	18.5
Northern white-cedar	23.5	22.8	8.4	2.7	.0	.0	.0	.0	57.3	33.1
Hemlock	84.7	101.9	111.7	80.0	35.7	23.4	42.3	.0	479.8	24.9
Total softwoods	431.3	375.9	482.5	340.3	261.1	196.0	265.2	57.1	2,409.4	12.1
Red maple	.0	111.9	64.6	54.2	10.2	14.8	21.2	.0	277.0	16.9
Sugar maple	.0	24.4	18.9	6.0	.0	12.1	.0	.0	61.4	36.0
Yellow birch	.0	9.1	2.4	3.9	7.8	4.6	.0	.0	27.8	41.3
Paper birch	.0	64.0	24.6	3.8	1.9	.0	.0	.0	94.4	24.7
Beech	.0	46.2	27.9	14.0	8.6	.0	.0	.0	96.7	49.8
White ash	.0	20.7	22.0	14.2	7.1	19.5	.0	.0	83.4	31.9
Aspen	.0	51.2	65.2	15.7	18.3	.0	.0	.0	150.3	33.1
Red oaks	.0	67.3	56.3	65.5	34.1	19.1	46.2	.0	288.5	24.1
Basswood	.0	2.3	.0	.0	.0	6.5	.0	.0	8.8	78.2
Elm	.0	2.1	.0	.0	.0	.0	.0	.0	2.1	100.0
Other hardwoods	.0	10.8	7.7	5.3	.0	.0	.0	.0	23.7	43.9
Total hardwoods	.0	410.0	289.6	182.6	88.0	76.5	67.4	.0	1,114.2	13.2
Total, all species	431.3	785.9	772.1	523.0	349.1	272.6	332.6	57.1	3,523.6	9.2
SE	11.8	9.1	10.2	12.4	20.6	21.2	28.8	50.6	9.2	

Table 46.. Number of growing-stock trees (5.0+ inches d.b.h.) on timberland by species and diameter class, Capitol Region, Maine, 1995

(In thousands of trees)

Species group	Diameter class (inches at breast height)										All classes	SE
	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0+		
Balsam fir	25,072	8,286	2,283	235	72	0	0	0	0	0	35,947	10.9
Tamarack	293	422	244	67	32	34	0	0	0	0	1,092	40.4
White spruce	794	737	368	133	139	69	32	0	35	0	2,306	48.1
Black spruce	131	72	62	0	32	0	0	0	0	0	297	44.9
Red spruce	6,801	3,555	2,357	911	641	320	132	66	0	0	14,782	22.4
Red pine	34	0	34	0	96	34	0	0	0	0	197	72.1
White pine	6,388	5,464	3,935	2,617	2,777	1,637	1,092	688	696	135	25,430	16.8
Northern white-cedar	3,559	3,069	1,074	604	128	35	0	0	0	0	8,469	27.4
Hemlock	4,578	4,364	2,748	1,942	1,267	639	235	137	103	0	16,013	19.8
Other softwoods	68	103	0	0	0	0	0	0	0	0	171	59.7
Total softwoods	47,719	26,072	13,105	6,508	5,183	2,768	1,490	891	834	135	104,705	7.0
Red maple	18,344	11,085	5,075	1,935	883	538	65	101	72	0	38,098	9.6
Sugar maple	2,056	977	532	380	203	34	0	67	0	0	4,249	25.8
Yellow birch	1,976	1,101	361	201	35	31	67	34	0	0	3,805	18.8
Paper birch	7,309	4,309	2,126	998	268	31	34	0	0	0	15,075	14.9
Gray birch	1,681	599	66	0	0	0	0	0	0	0	2,346	22.2
Beech	3,863	2,411	1,316	761	277	135	35	0	0	0	8,798	23.0
White ash	3,114	1,785	808	358	278	141	35	86	0	0	6,605	17.9
Black ash	141	0	0	0	0	0	0	0	0	0	141	77.2
Aspen	5,489	3,180	1,699	799	686	139	139	0	0	0	12,130	19.5
Red oaks	5,075	3,184	1,712	1,220	704	687	207	104	133	0	13,028	15.8
Basswood	212	104	34	33	0	0	0	36	0	0	419	46.6
Elm	530	371	140	36	0	0	0	0	0	0	1,077	32.9
Other hardwoods	1,121	624	348	241	112	67	0	0	0	0	2,514	30.6
Total hardwoods	50,911	29,732	14,216	6,963	3,446	1,803	581	429	205	0	108,287	5.8
Total, all species	98,630	55,803	27,321	13,472	8,629	4,571	2,071	1,320	1,039	135	212,992	4.3
SE	5.6	5.5	6.3	8.2	9.7	12.1	18.1	20.0	24.5	50.1	4.3	

Table 47. Average annual net change of growing-stock volume on timberland by species and component of change, Capitol Region, Maine, 1995

(In thousands of cubic feet)

Species group	Component of change								Net change
	Ingrowth	Accretion	Gross growth	Mortality	Cull decrement	Cull increment	Net growth	Removals	
Balsam fir	5,419	3,068	8,487	-2,126	257	-23	6,594	-2,246	4,348
Tamarack	113	176	289	-1,099	0	-57	-867	-268	-1,135
White spruce	59	107	165	-45	41	-19	143	-355	-213
Black spruce	8	64	72	0	0	0	72	0	72
Red spruce	714	1,629	2,343	-795	73	-217	1,404	-1,432	-28
Red pine	0	-4	-4	-18	0	0	-21	-48	-69
White pine	1,579	6,659	8,239	-1,337	775	-652	7,024	-10,244	-3,220
Northern white-cedar	309	739	1,048	-101	296	-165	1,078	-315	764
Hemlock	608	3,122	3,731	-216	468	-464	3,519	-5,662	-2,143
Other softwoods	31	0	31	0	0	0	31	0	31
Total softwoods	8,840	15,562	24,402	-5,737	1,909	-1,598	18,977	-20,570	-1,593
Red maple	2,331	3,558	5,889	-989	1,390	-1,301	4,989	-5,450	-461
Sugar maple	298	348	646	-8	0	-91	547	-838	-291
Yellow birch	182	168	349	0	79	-73	356	-519	-162
Paper birch	949	1,523	2,471	-432	241	-47	2,233	-2,247	-14
Gray birch	141	36	177	-281	181	0	78	-60	18
Beech	653	866	1,519	-234	1,396	0	2,681	-661	2,021
White ash	657	677	1,335	-143	42	0	1,234	-539	695
Black ash	37	0	37	0	0	0	37	0	37
Aspen	1,313	1,373	2,685	-1,035	261	-187	1,724	-1,649	75
Red oaks	990	2,043	3,033	-128	17	-333	2,589	-2,001	588
Basswood	19	8	27	0	0	0	27	0	27
Elm	104	117	220	-145	0	-45	31	-56	-25
Other hardwoods	175	48	223	-87	181	0	317	-99	218
Total hardwoods	7,849	10,764	18,613	-3,482	3,789	-2,076	16,844	-14,119	2,725
Total, all species	16,689	26,326	43,015	-9,219	5,699	-3,674	35,821	-34,689	1,132
SE	6.7	6.4	4.8	16.0	14.5	26.6	8.0	12.0	

NOTE: Removals and mortality volumes for all tables containing these estimates are calculated using each trees' diameter breast height that was measured during the 1982 inventory, if the tree is no longer present.

Table 48. Area of timberland by forest type, forest-type group, and stand-size class, Casco Bay Unit, Maine, 1982

(In thousands of acres)

Forest type	Stand-size class				All classes	SE
	Saw-timber	Pole-timber	Sapling and seedling	Non-stocked		
White pine	126.4	48.0	16.3	.0	190.7	13.5
White pine/hemlock	64.9	16.3	8.3	.0	89.5	20.5
Hemlock	73.0	.0	.0	.0	73.0	22.8
White/red pine group	264.3	64.3	24.6	.0	353.2	8.9
Balsam fir	.0	21.1	20.1	.0	41.2	31.2
Red spruce	.0	.0	3.8	.0	3.8	100.0
Red spruce/balsam fir	8.2	4.0	.0	.0	12.1	57.5
White spruce	.0	.0	.0	4.7	4.7	100.0
Northern white-cedar	.0	4.0	.0	.0	4.0	100.0
Tamarack	.0	.0	4.0	.0	4.0	100.0
Spruce/fir group	8.2	29.1	27.9	4.7	69.9	23.7
Wh. pine/no. red oak/wh. ash	49.1	40.3	.0	.0	89.4	20.6
Other oak/pine	.0	.0	4.1	.0	4.1	100.0
Oak/pine group	49.1	40.3	4.1	.0	93.5	20.1
Post, black, or bear oak	.0	.0	8.2	.0	8.2	70.7
White oak/red oak/hickory	8.5	4.0	4.0	.0	16.5	49.6
Northern red oak	8.2	32.3	4.1	.0	44.6	30.0
Hawthorn/reverting field	.0	.0	4.1	.0	4.1	100.0
Red maple/central hardwood	.0	20.7	.0	.0	20.7	44.1
Mixed central hardwoods	16.5	61.2	32.0	.0	109.7	18.4
Oak/hickory group	33.2	118.2	52.3	.0	203.8	12.9
Black ash/Amer. elm/red maple	.0	8.2	.0	.0	8.2	70.7
Red maple(lowland)	3.6	4.1	3.6	.0	11.4	53.6
Red maple(upland)	.0	4.0	.0	.0	4.0	100.0
Willow	.0	.0	7.9	.0	7.9	70.7
Elm/ash/red maple group	3.6	16.3	11.6	.0	31.5	34.3
Sugar maple/beech/yellow birch	12.2	44.4	4.2	.0	60.7	25.0
Black Cherry	.0	.0	4.1	.0	4.1	100.0
Red maple/northern hardwoods	29.0	125.0	23.8	.0	177.8	14.1
Pin cherry/reverting field	4.4	.0	11.9	.0	16.2	49.6
Mixed northern hardwoods	12.0	40.5	17.7	.0	70.2	23.8
Northern hardwoods group	57.5	209.8	61.7	.0	329.0	9.7
Aspen	.0	33.1	29.3	.0	62.4	25.0
Paper birch	4.1	24.5	3.5	.0	32.1	35.1
Gray birch	.0	4.2	32.3	.0	36.5	33.0
Aspen/birch group	4.1	61.8	65.1	.0	131.1	16.9
All forest types	420.1	539.9	247.3	4.7	1,212.0	1.5
SE	7.5	6.4	11.1	100.0	1.5	

Table 49. Area of timberland by forest type, forest-type group, and stand-size class, Casco Bay Unit, Maine, 1995

(In thousands of acres)

Forest type	Stand-size class				All classes	SE
	Saw-timber	Pole-timber	Sapling and seedling	Non-stocked		
White pine	145.1	16.3	7.2	.0	168.6	18.6
White pine/hemlock	42.9	26.6	.0	.0	69.5	31.0
Hemlock	74.0	17.0	.0	.0	90.9	26.3
White/red pine group	261.9	59.8	7.2	.0	329.0	12.8
Balsam fir	.0	5.7	.0	.0	5.7	100.0
Red spruce	.0	.0	6.5	.0	6.5	100.0
Red spruce/balsam fir	.0	12.6	.0	.0	12.6	70.7
Spruce/fir group	.0	18.3	6.5	.0	24.8	50.0
Wh. pine/no.red oak/wh. ash	29.3	7.9	1.3	2.7	41.1	38.2
Other oak/pine	6.8	.0	.0	.0	6.8	100.0
Oak/pine group	36.1	7.9	1.3	2.7	47.9	35.7
White oak/red oak/hickory	.0	23.0	.0	.0	23.0	57.8
Northern red oak	29.9	48.7	8.2	.0	86.8	29.8
Red maple/central hardwood	13.7	.0	7.2	.0	20.9	57.9
Mixed central hardwoods	13.8	54.4	.0	.0	68.2	32.7
Oak/hickory group	57.4	126.1	15.4	.0	198.9	18.1
Black ash/Amer. elm/red maple	.0	6.7	.0	.0	6.7	100.0
Red maple(lowland)	.0	27.5	.0	.0	27.5	48.8
Red maple(upland)	.0	18.0	.0	.0	18.0	59.5
Elm/ash/red maple group	.0	52.1	.0	.0	52.1	35.3
Sugar maple/beech/yellow birch	6.2	42.5	.0	.0	48.7	37.6
Black Cherry	.0	6.2	6.5	.0	12.7	70.7
Red maple/northern hardwoods	47.9	145.2	33.6	.0	226.7	17.7
Pin cherry/reverting field	.0	.0	3.4	.0	3.4	100.0
Mixed northern hardwoods	31.6	48.0	32.0	.0	111.6	27.0
Northern hardwoods group	85.7	241.9	75.5	.0	403.2	10.7
Aspen	13.3	30.7	6.2	.0	50.3	36.6
Paper birch	.0	15.3	13.2	.0	28.5	50.1
Gray birch	.0	.0	32.6	.0	32.6	46.2
Aspen/birch group	13.3	46.0	52.0	.0	111.4	23.6
All forest types	454.4	552.2	158.0	2.7	1,167.2	2.5
SE	9.9	8.8	21.3	100.0	2.5	

Table 50. Net volume of growing-stock trees on timberland by species and diameter class, Casco Bay Unit, Maine, 1982

(In millions of cubic feet)

Species group	Diameter class (inches at breast height)										All classes
	5.0- 6.9	7.0- 8.9	9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 28.9	29.0+	
Balsam fir	15.1	19.9	7.4	6.2	.7	.0	.0	.0	.0	.0	49.2
Tamarack	.3	.0	.8	.7	.0	.0	.0	.0	.0	.0	1.9
Black spruce	.2	.2	.4	.0	.0	.0	.0	.0	.0	.0	.7
Red spruce	5.8	6.1	7.9	8.4	4.1	1.9	1.5	.0	.0	.0	35.7
Red pine	.0	.0	.6	1.5	.0	1.0	.0	.0	.0	.0	3.1
White pine	27.0	44.6	65.0	87.2	89.3	135.3	79.0	28.0	41.7	4.9	602.1
Northern white-cedar	3.1	1.9	2.2	.5	.0	.0	.0	.0	.0	.0	7.6
Hemlock	9.8	34.8	37.4	35.6	31.0	26.7	15.4	5.8	10.4	.0	206.9
Other softwoods	.0	3.2	2.3	5.7	2.7	.7	.0	.0	.0	.0	14.6
Total softwoods	61.3	110.6	124.0	145.6	127.4	165.6	95.9	33.9	52.1	4.9	921.9
Red Maple	56.5	70.6	51.3	43.4	16.8	5.4	.0	10.1	.0	.0	254.1
Sugar maple	2.6	2.2	1.7	1.6	1.7	.0	.0	.0	.0	.0	9.8
Yellow birch	4.5	5.1	1.8	.8	2.4	.0	.0	1.6	.0	.0	16.1
Paper birch	15.9	19.2	12.9	7.9	4.6	.9	2.3	.0	1.7	.0	65.3
Gray birch	4.9	2.0	.3	.0	.0	.0	.0	.0	.0	.0	7.2
Beech	9.8	9.0	.0	1.9	.5	1.0	2.7	.0	.0	.0	24.8
White ash	6.6	1.1	1.5	.2	.0	3.3	1.5	.0	.0	4.1	18.3
Black ash	1.4	.9	1.2	.0	.0	.0	.0	.0	.0	.0	3.5
Aspen	16.7	22.2	10.8	5.8	.0	.0	.0	.0	.0	.0	55.6
White oaks	.9	1.7	3.4	2.4	1.3	1.2	.0	.0	.0	.0	11.1
Red oaks	23.1	23.2	19.0	29.1	30.0	15.5	15.8	14.6	4.6	.0	174.8
Basswood	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	1.1
Elm	.6	1.0	.1	.0	.0	.0	.0	.0	.0	.0	1.6
Other hardwoods	3.1	.0	2.5	.3	.0	.0	.4	.0	2.2	.0	8.6
Total hardwoods	146.4	159.6	106.4	93.4	57.5	27.2	22.6	26.2	8.5	4.1	651.9
Total, all species	207.7	270.2	230.4	239.1	185.3	192.8	118.6	60.1	60.6	9.1	1,573.8

Table 51. Net volume of growing-stock trees on timberland by species and diameter class, Casco Bay Unit, Maine, 1995

(In millions of cubic feet)

Species group	Diameter class (inches at breast height)										All classes	SE
	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0+		
Balsam fir	18.4	18.6	8.1	4.0	.9	.0	.0	.0	.0	.0	50.0	19.9
Tamarack	.1	.5	.0	.3	.5	.0	.0	.0	.0	.0	1.5	55.8
Black spruce	.2	.6	.5	.0	.0	.0	.0	.0	.0	.0	1.2	90.2
Red spruce	5.6	6.7	7.0	7.3	4.9	3.7	1.5	.0	.0	.0	36.7	31.8
Red pine	.0	.0	.0	.5	1.1	.0	.6	.0	.0	.0	2.2	61.9
White pine	36.8	58.4	66.0	107.8	94.4	81.0	93.3	44.8	77.0	27.6	687.1	13.0
Northern white-cedar	2.5	2.2	1.0	.4	.0	.0	.0	.0	.0	.0	6.1	98.4
Hemlock	23.7	34.5	39.6	41.3	32.1	30.0	15.8	9.7	6.3	4.3	237.3	14.3
Other softwoods	.0	.6	1.2	2.5	1.7	.7	.0	.0	.0	.0	6.7	45.2
Total softwoods	87.4	122.1	123.3	164.0	135.6	115.5	111.2	54.5	83.4	31.9	1,029.0	9.2
Red maple	76.5	98.1	85.2	57.1	35.6	17.1	7.8	2.8	13.4	.0	393.5	10.0
Sugar maple	6.2	2.9	2.2	1.7	2.6	.0	.9	.0	.0	.0	16.5	27.6
Yellow birch	5.9	6.2	6.2	1.8	2.0	1.2	.0	1.6	2.3	.0	27.1	24.7
Paper birch	19.8	18.9	13.8	9.7	5.0	4.8	2.3	.0	.0	.0	74.3	14.5
Gray birch	5.1	1.4	.4	.0	.0	.0	.0	.0	.0	.0	6.9	24.2
Beech	7.0	13.4	8.6	4.2	1.4	.0	1.4	.0	.0	.0	36.0	29.0
White ash	7.3	9.2	6.8	8.5	2.4	4.1	.0	.0	2.1	4.1	44.5	20.8
Black ash	1.3	1.4	1.2	.0	.0	.0	.0	.0	.0	.0	3.9	55.3
Aspen	8.9	18.0	17.1	14.2	5.4	.9	.0	.0	.0	.0	64.5	24.1
White oaks	1.2	2.3	2.0	.9	1.4	.9	.0	1.3	.0	.0	10.2	30.0
Red oaks	27.7	41.5	41.1	30.0	24.6	21.1	12.7	14.1	16.7	.0	229.4	12.6
Basswood	.0	.6	1.4	.0	.0	.0	.0	.0	.0	.0	2.0	63.8
Elm	.9	1.7	.7	.0	.0	.0	.0	.0	.0	.0	3.2	55.9
Other hardwoods	3.9	2.7	3.7	1.3	.0	.0	1.2	.0	2.2	.0	15.1	32.7
Total hardwoods	171.6	218.4	190.4	129.3	80.6	50.0	26.2	19.8	36.6	4.1	927.0	6.6
Total, all species	259.0	340.5	313.7	293.4	216.2	165.5	137.5	74.3	120.0	36.1	1,956.0	5.2
SE	5.9	5.5	5.7	8.2	10.6	12.4	16.4	17.8	16.2	36.2	5.2	

Table 52. Net volume of growing-stock trees on timberland by forest type and stand-size class, Casco Bay Unit, Maine, 1995

(In millions of cubic feet)

Forest type	Stand-size class				All classes	SE
	Saw-timber	Pole-timber	Sapling and seedling	Non-stocked		
White pine	424.8	33.5	7.0	.0	465.2	20.8
White pine/hemlock	122.0	53.0	.0	.0	175.0	32.6
Hemlock	136.0	43.8	.0	.0	179.8	28.5
White/red pine group	682.7	130.3	7.0	.0	820.0	14.2
Balsam fir	.0	6.3	.0	.0	6.3	100.0
Red spruce	.0	.0	2.9	.0	2.9	100.0
Red spruce/balsam fir	.0	24.8	.0	.0	24.8	71.8
Spruce/fir group	.0	31.0	2.9	.0	33.9	56.2
Wh. pine/no.red oak/wh. ash	69.8	10.1	.0	1.5	81.4	45.0
Other oak/pine	15.8	.0	.0	.0	15.8	100.0
Oak/pine group	85.5	10.1	.0	1.5	97.2	41.0
White oak/red oak/hickory	.0	20.1	.0	.0	20.1	65.2
Northern red oak	50.7	51.9	6.3	.0	108.9	31.6
Red maple/central hardwood	47.5	.0	7.7	.0	55.2	66.5
Mixed central hardwoods	44.4	69.9	.0	.0	114.3	37.4
Oak/hickory group	142.5	141.9	14.0	.0	298.4	21.6
Black ash/Amer. elm/red maple	.0	1.5	.0	.0	1.5	100.0
Red maple(lowland)	.0	25.9	.0	.0	25.9	56.8
Red maple(upland)	.0	17.3	.0	.0	17.3	63.0
Elm/ash/red maple group	.0	44.7	.0	.0	44.7	41.1
Sugar maple/beech/yellow birch	5.5	70.0	.0	.0	75.5	39.4
Black Cherry	.0	2.6	.0	.0	2.6	100.0
Red maple/northern hardwoods	87.4	243.4	6.8	.0	337.7	19.8
Mixed northern hardwoods	79.5	67.6	14.7	.0	161.7	28.5
Northern hardwoods group	172.4	383.6	21.5	.0	577.5	13.3
Aspen	24.6	29.6	1.7	.0	55.9	44.1
Paper birch	.0	20.3	1.3	.0	21.6	66.8
Gray birch	.0	.0	6.8	.0	6.8	55.5
Aspen/birch group	24.6	49.9	9.8	.0	84.4	33.2
All forest types	1,107.9	791.4	55.2	1.5	1,956.0	5.2
SE	11.3	9.7	30.1	100.0	5.2	

Table 53. Net volume of sawtimber trees on timberland by species and diameter class, Casco Bay Unit, Maine, 1995

(In millions of board feet)

Species group	Diameter class (inches at breast height)								All classes	SE
	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0+		
Balsam fir	27.2	16.1	3.4	.0	.0	.0	.0	.0	46.7	30.4
Tamarack	.0	1.2	1.8	.0	.0	.0	.0	.0	3.0	72.1
Black spruce	1.8	.0	.0	.0	.0	.0	.0	.0	1.8	100.0
Red spruce	25.9	33.4	22.0	17.8	7.8	.0	.0	.0	106.9	41.4
Red pine	.0	2.8	5.5	.0	2.7	.0	.0	.0	11.0	61.3
White pine	219.7	440.7	415.8	379.4	458.7	212.6	393.2	142.6	2,662.7	13.9
Northern white-cedar	2.4	1.1	.0	.0	.0	.0	.0	.0	3.6	100.0
Hemlock	135.3	159.7	136.3	136.1	73.0	45.3	29.0	23.5	738.2	15.7
Other softwoods	4.1	9.4	7.3	3.1	.0	.0	.0	.0	23.9	47.4
Total softwoods	416.4	664.4	592.0	536.4	542.2	257.9	422.3	166.0	3,597.7	10.7
Red maple	.0	221.1	142.6	70.7	32.3	13.6	56.2	.0	536.5	18.0
Sugar maple	.0	6.8	9.1	.0	3.0	.0	.0	.0	18.9	40.5
Yellow birch	.0	7.2	7.1	5.8	.0	7.5	13.4	.0	41.0	44.8
Paper birch	.0	40.8	20.6	22.1	8.0	.0	.0	.0	91.5	20.7
Beech	.0	18.3	5.2	.0	5.2	.0	.0	.0	28.6	35.0
White ash	.0	36.3	11.2	19.9	.0	.0	7.6	14.1	89.0	27.4
Aspen	.0	62.8	23.7	3.5	.0	.0	.0	.0	90.0	28.6
White oaks	.0	3.7	6.9	4.3	.0	7.6	.0	.0	22.5	46.7
Red oaks	.0	115.4	100.6	93.7	59.4	64.6	70.5	.0	504.2	19.3
Other hardwoods	.0	6.5	.0	.0	7.4	.0	10.8	.0	24.7	57.0
Total hardwoods	.0	518.8	327.0	220.1	115.3	93.2	158.4	14.1	1,447.0	11.8
Total, all species	416.4	1,183.2	919.0	756.6	657.5	351.1	580.7	180.1	5,044.7	8.2
SE	10.8	8.4	10.9	12.5	17.0	18.3	16.4	36.2	8.2	

Table 54. Number of growing-stock trees (5.0+ inches d.b.h.) on timberland by species and diameter class, Casco Bay Unit, Maine, 1995

(In thousands of trees)

Species group	Diameter class (inches at breast height)										All classes	SE
	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0+		
Balsam fir	6,823	3,029	792	249	33	0	0	0	0	0	10,927	18.5
Tamarack	64	98	0	31	33	0	0	0	0	0	226	54.6
Black spruce	102	75	37	0	0	0	0	0	0	0	215	73.1
Red spruce	1,980	1,084	607	401	196	133	31	0	0	0	4,433	26.5
Red pine	0	0	0	37	37	0	13	0	0	0	88	62.0
White pine	12,831	9,412	6,108	6,394	4,101	2,613	2,353	958	1,197	244	46,213	13.0
Northern white-cedar	1,123	468	125	31	0	0	0	0	0	0	1,747	98.2
Hemlock	9,132	6,298	3,986	2,808	1,574	1,139	418	207	130	49	25,742	13.7
Other softwoods	0	120	145	216	89	32	0	0	0	0	602	48.2
Total softwoods	32,056	20,583	11,801	10,169	6,064	3,917	2,816	1,165	1,327	294	90,193	8.3
Red maple	27,379	15,755	8,348	3,701	1,643	683	248	64	224	0	58,047	8.6
Sugar maple	2,063	503	198	110	118	0	37	0	0	0	3,030	26.4
Yellow birch	2,184	1,133	666	114	113	62	0	39	39	0	4,352	24.0
Paper birch	6,107	2,661	1,188	604	214	158	76	0	0	0	11,007	17.2
Gray birch	2,055	199	38	0	0	0	0	0	0	0	2,293	24.0
Beech	2,284	2,017	698	247	71	0	33	0	0	0	5,351	30.1
White ash	2,618	1,460	623	541	102	149	0	0	39	41	5,573	20.5
Black ash	448	268	98	0	0	0	0	0	0	0	814	46.2
Aspen	2,551	2,696	1,575	890	251	33	0	0	0	0	7,997	23.8
White oaks	523	440	190	80	80	41	0	36	0	0	1,390	41.8
Red oaks	8,921	6,452	4,055	1,913	1,098	791	347	289	293	0	24,159	12.5
Basswood	0	71	111	0	0	0	0	0	0	0	183	61.0
Elm	435	369	77	0	0	0	0	0	0	0	881	50.9
Other hardwoods	1,403	466	395	94	0	0	31	0	34	0	2,424	28.5
Total hardwoods	58,973	34,492	18,261	8,295	3,691	1,918	772	428	629	41	127,501	5.8
Total, all species	91,029	55,075	30,062	18,465	9,755	5,835	3,588	1,593	1,957	335	217,695	4.3
SE	5.8	5.3	5.6	7.9	10.0	11.2	15.2	17.6	15.9	35.1	4.3	

Table 55. Average annual net change of growing-stock volume on timberland by species and component of change, Casco Bay Unit, Maine, 1995

(In thousands of cubic feet)

Species group	Component of change								Net change
	Ingrowth	Accretion	Gross growth	Mortality	Cull decrement	Cull increment	Net growth	Removals	
Balsam fir	788	743	1,530	-870	100	0	760	-663	97
Tamarack	17	33	50	-27	0	0	23	-27	-4
Black spruce	10	15	25	0	14	0	39	0	39
Red spruce	71	487	558	-340	22	-36	205	-136	69
Red pine	0	68	68	-59	0	0	9	0	9
White pine	2,598	14,423	17,022	-913	6,085	-905	21,289	-15,081	6,208
Northern white-cedar	53	22	76	-11	0	-174	-110	0	-110
Hemlock	1,796	4,343	6,139	-538	1,212	-221	6,591	-4,450	2,142
Other softwoods	32	20	52	-304	0	0	-253	-318	-571
Total softwoods	5,365	20,155	25,520	-3,063	7,433	-1,336	28,555	-20,675	7,880
Red maple	3,575	8,383	11,958	-444	3,920	-579	14,855	-4,113	10,742
Sugar maple	262	166	428	0	117	0	545	-45	501
Yellow birch	179	386	565	-35	365	0	895	-81	815
Paper birch	1,015	1,240	2,255	-625	151	-393	1,388	-744	644
Gray birch	183	82	265	-299	76	0	42	-65	-23
Beech	149	824	973	-20	514	-100	1,368	-460	908
White ash	730	1,555	2,285	0	46	-33	2,298	-254	2,044
Black ash	35	26	61	0	0	0	61	-35	25
Aspen	765	1,417	2,182	-943	66	0	1,305	-548	757
White oaks	39	37	76	-9	79	-100	47	-106	-59
Red oaks	2,133	5,637	7,770	-380	635	-204	7,821	-3,764	4,057
Basswood	0	180	180	0	0	0	180	0	180
Elm	60	14	74	0	43	0	117	0	117
Other hardwoods	193	239	432	-89	188	-46	485	0	485
Total hardwoods	9,318	20,187	29,505	-2,844	6,201	-1,454	31,409	-10,217	21,192
Total, all species	14,683	40,342	55,025	-5,907	13,634	-2,789	59,964	-30,891	29,072
SE	7.8	7.0	5.5	12.1	11.8	28.6	6.0	17.1	

NOTE: Removals and mortality volumes for all tables containing these estimates are calculated using each trees' diameter breast height that was measured during the 1982 inventory, if the tree is no longer present.

Table 56. Area of timberland by forest type, forest-type group, and stand-size class, Hancock County, Maine, 1982

(In thousands of acres)

Forest type	Stand-size class				All classes	SE
	Saw-timber	Pole-timber	Sapling and seedling	Non-stocked		
White pine	9.9	.0	.0	.0	9.9	100.0
Hemlock	30.2	.0	.0	.0	30.2	57.7
White/red pine group	40.1	.0	.0	.0	40.1	49.7
Balsam fir	.0	59.8	39.6	.0	99.4	28.9
Red spruce	40.5	19.8	10.3	.0	70.6	36.8
Red spruce/balsam fir	40.8	150.8	50.5	10.5	252.5	17.2
Black spruce	.0	.0	10.3	.0	10.3	100.0
Northern white-cedar	20.3	20.6	.0	.0	40.9	48.7
Tamarack	.0	10.3	.0	.0	10.3	100.0
Spruce/fir group	101.6	261.3	110.7	10.5	484.0	9.8
Black ash/Amer. elm/red maple	.0	10.3	.0	.0	10.3	100.0
Elm/ash/red maple group	.0	10.3	.0	.0	10.3	100.0
Sugar maple/beech/yellow birch	20.6	50.7	39.6	.0	110.9	28.2
Black Cherry	.0	.0	9.9	.0	9.9	100.0
Red maple/northern hardwoods	.0	40.0	20.4	.0	60.4	39.9
Northern hardwoods group	20.6	90.7	69.9	.0	181.1	21.1
Aspen	.0	20.2	40.0	.0	60.2	40.4
Paper birch	.0	40.5	9.8	.0	50.3	44.4
Gray birch	.0	.0	9.9	.0	9.9	100.0
Aspen/birch group	.0	60.7	59.7	.0	120.4	26.9
All forest types	162.3	423.0	240.2	10.5	835.9	3.0
SE	21.9	10.9	16.6	100.0	3.0	

Table 57. Area of timberland by forest type, forest-type group, and stand-size class, Hancock County, Maine, 1995

(In thousands of acres)

Forest type	Stand-size class				All classes	SE
	Saw-timber	Pole-timber	Sapling and seedling	Non-stocked		
White pine	19.9	19.6	5.9	.0	45.5	37.8
Hemlock	25.9	.0	.0	.0	25.9	49.1
White/red pine group	45.8	19.6	5.9	.0	71.3	29.3
Balsam fir	11.6	57.4	25.4	.1	94.5	23.5
Red spruce	41.9	47.5	19.7	.0	109.1	21.4
Red spruce/balsam fir	49.6	64.4	.0	.0	114.0	21.3
White spruce	10.8	6.7	.0	.0	17.6	58.5
Black spruce	.0	6.2	6.5	.0	12.7	70.7
Northern white-cedar	24.0	26.6	.0	.0	50.6	35.6
Spruce/fir group	138.0	208.8	51.6	.1	398.5	8.7
Pitch pine	6.7	.0	.0	.0	6.7	100.0
Loblolly/shortleaf group	6.7	.0	.0	.0	6.7	100.0
Northern red oak	.0	6.7	.0	.0	6.7	100.0
Mixed central hardwoods	.0	19.8	.0	.0	19.8	57.8
Oak/hickory group	.0	26.5	.0	.0	26.5	50.0
Black ash/Amer. elm/red maple	.0	6.8	.0	.0	6.8	100.0
Red maple(lowland)	.0	6.8	.0	.0	6.8	100.0
Red maple(upland)	.0	6.7	.0	.0	6.7	100.0
Elm/ash/red maple group	.0	20.3	.0	.0	20.3	57.7
Sugar maple/beech/yellow birch	25.1	60.0	24.8	.0	109.8	21.2
Black Cherry	.0	.0	6.7	.0	6.7	100.0
Red maple/northern hardwoods	19.2	46.3	.0	.0	65.5	29.8
Pin cherry/reverting field	.0	.0	3.6	.0	3.6	100.0
Mixed northern hardwoods	6.7	19.7	6.7	.0	33.1	44.2
Northern hardwoods group	51.0	126.0	41.7	.0	218.8	13.9
Aspen	.0	27.7	5.5	.0	33.2	41.9
Paper birch	.0	39.9	28.3	.0	68.1	29.7
Gray birch	.0	6.7	4.7	.0	11.4	71.8
Aspen/birch group	.0	74.3	38.4	.0	112.7	21.6
All forest types	241.5	475.6	137.7	.1	854.9	2.8
SE	13.3	8.0	17.9	100.0	2.8	

Table 58. Net volume of growing-stock trees on timberland by species and diameter class, Hancock County, Maine, 1982

(In millions of cubic feet)

Species group	Diameter class (inches at breast height)										All classes
	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0+	
Balsam fir	40.4	17.3	12.1	4.3	4.0	.0	.0	.0	.0	.0	78.3
Tamarack	.4	.0	4.3	.3	.0	3.2	1.4	.0	.0	.0	9.5
White spruce	3.9	2.4	2.3	3.0	3.5	4.1	2.5	.0	1.9	.0	23.6
Black spruce	6.5	3.2	3.5	.9	.0	.0	.0	.0	.0	.0	14.2
Red spruce	31.6	53.6	55.8	48.8	31.4	24.4	8.2	3.8	1.0	.0	258.7
Red pine	.4	.3	.4	.6	1.3	.8	.0	.0	.0	.0	3.8
White pine	4.6	7.0	6.4	10.2	6.8	4.5	7.2	.0	3.5	5.7	56.1
Northern white-cedar	10.5	20.2	15.3	8.5	1.7	.0	.9	.0	.0	.0	57.1
Hemlock	4.9	5.7	11.5	12.2	3.2	11.5	2.3	.0	1.8	.0	53.2
Other softwoods	.0	1.1	2.0	2.8	4.1	3.8	2.6	.0	.0	.0	16.3
Total softwoods	103.3	110.8	113.6	91.7	56.2	52.2	25.3	3.8	8.1	5.7	570.7
Red Maple	23.9	35.2	16.1	10.2	3.8	8.0	7.9	.0	1.6	.0	106.8
Sugar maple	5.7	7.0	3.0	1.4	1.2	.8	1.2	.0	3.9	.0	24.2
Yellow birch	2.6	4.8	2.8	1.7	.4	.9	.7	.0	.0	.0	13.6
Paper birch	15.9	25.3	16.5	7.2	6.3	.0	.0	.0	.0	.0	71.2
Gray birch	2.3	1.4	.3	.0	.0	.0	.0	.0	.0	.0	4.0
Beech	2.6	5.2	3.5	2.4	3.8	.8	.0	1.3	.0	.0	19.7
White ash	4.7	1.8	2.5	1.0	.0	.0	1.0	.0	1.4	.0	12.5
Black ash	.1	.1	.5	1.5	.5	.0	.0	1.9	.0	.0	4.7
Aspen	5.3	10.1	14.8	6.2	3.7	.0	.0	.0	.0	.0	40.2
Red oaks	3.6	9.1	5.5	3.5	3.4	1.4	.0	2.2	.0	.0	28.7
Basswood	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4
Other hardwoods	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4
Total hardwoods	67.0	100.0	65.9	35.0	23.1	12.0	10.7	5.3	7.1	.0	326.1
Total, all species	170.3	210.9	179.5	126.8	79.3	64.2	36.1	9.1	15.2	5.7	896.4

Table 59. Net volume of growing-stock trees on timberland by species and diameter class, Hancock County, Maine, 1995

(In millions of cubic feet)

Species group	Diameter class (inches at breast height)										All classes	SE
	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0+		
Balsam fir	60.8	52.6	19.4	6.9	2.6	1.1	.0	.0	.0	.0	143.5	12.0
Tamarack	.5	1.1	2.2	4.2	.8	.0	.0	1.3	.0	.0	10.1	55.9
White spruce	6.9	6.1	3.9	3.3	6.7	4.4	2.6	1.8	1.9	.0	37.6	36.9
Black spruce	5.2	1.9	1.8	1.5	.9	.0	.0	.0	.0	.0	11.4	39.0
Red spruce	44.1	56.0	61.3	55.0	39.7	27.0	29.1	9.2	4.7	.0	326.1	13.6
Red pine	.4	.3	.6	.5	1.4	2.0	.0	.0	.0	.0	5.2	61.0
White pine	11.8	12.6	13.3	12.4	19.0	8.6	10.5	1.2	6.8	6.3	102.6	22.9
Northern white-cedar	12.2	22.0	23.5	19.4	7.7	3.5	.0	.9	.0	.0	89.2	21.3
Hemlock	4.1	11.0	11.5	10.2	12.3	5.4	3.6	4.1	3.6	.0	66.0	35.2
Other softwoods	.8	1.9	2.4	2.2	4.1	3.8	2.6	.0	.0	.0	17.8	93.7
Total softwoods	146.8	165.6	139.8	115.7	95.3	55.8	48.6	18.6	16.9	6.3	809.5	7.3
Red maple	38.6	55.1	38.0	22.3	13.7	6.8	6.9	6.2	2.1	.0	189.9	9.8
Sugar maple	5.4	10.2	5.3	2.7	2.8	2.8	.8	.0	5.8	.0	35.8	35.4
Yellow birch	5.0	5.6	5.9	4.6	1.7	.0	1.1	.6	.0	.0	24.4	24.4
Paper birch	21.5	27.6	20.7	10.3	7.5	.0	.0	.0	.0	.0	87.6	18.2
Gray birch	4.3	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	6.7	47.4
Beech	6.2	8.4	4.4	1.4	6.4	.8	.0	1.3	.0	.0	29.0	30.4
White ash	4.7	6.7	2.3	2.0	.9	.5	.9	.0	1.4	1.5	20.9	33.5
Black ash	1.1	.1	.5	.9	1.3	.0	.0	1.9	.0	.0	5.9	54.1
Aspen	6.9	18.0	13.5	11.7	5.3	4.9	.0	.0	.0	.0	60.4	38.0
Red oaks	3.4	9.4	6.8	5.0	4.0	1.5	.0	2.2	.0	.0	32.4	39.3
Basswood	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4	100.0
Other hardwoods	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.7	45.2
Total hardwoods	97.4	142.7	99.0	61.0	43.6	17.3	9.7	12.2	9.4	1.5	493.9	8.5
Total, all species	244.2	308.4	238.8	176.8	138.9	73.1	58.3	30.8	26.3	7.8	1,303.4	4.9
SE	7.2	6.8	6.7	8.3	10.7	14.2	18.2	24.8	27.9	82.9	4.9	

Table 60. Net volume of growing-stock trees on timberland by forest type and stand-size class, Hancock County, Maine, 1995

(In millions of cubic feet)

Forest type	Stand-size class				All classes	SE
	Saw-timber	Pole-timber	Sapling and seedling	Non-stocked		
White pine	40.0	31.7	2.3	.0	74.0	43.9
Hemlock	69.0	.0	.0	.0	69.0	49.8
White/red pine group	109.0	31.7	2.3	.0	143.0	32.0
Balsam fir	22.3	65.9	12.7	1.8	102.7	28.7
Red spruce	126.9	73.6	6.1	.0	206.6	25.2
Red spruce/balsam fir	97.1	89.8	.0	.0	186.9	22.6
White spruce	26.5	22.2	.0	.0	48.7	62.7
Black spruce	.0	4.9	2.4	.0	7.2	74.8
Northern white-cedar	47.7	52.7	.0	.0	100.4	36.9
Spruce/fir group	320.5	309.0	21.2	1.8	652.5	11.0
Pitch pine	18.8	.0	.0	.0	18.8	100.0
Loblolly/shortleaf group	18.8	.0	.0	.0	18.8	100.0
Northern red oak	.0	12.2	.0	.0	12.2	100.0
Mixed central hardwoods	.0	23.2	.0	.0	23.2	57.9
Oak/hickory group	.0	35.4	.0	.0	35.4	51.2
Black ash/Amer. elm/red maple	.0	3.5	.0	.0	3.5	100.0
Red maple(lowland)	.0	3.4	.0	.0	3.4	100.0
Red maple(upland)	.0	3.9	.0	.0	3.9	100.0
Elm/ash/red maple group	.0	10.8	.0	.0	10.8	57.8
Sugar maple/beech/yellow birch	55.7	81.3	7.0	.0	144.0	26.0
Red maple/northern hardwoods	24.1	83.4	.0	.0	107.5	31.5
Pin cherry/reverting field	.0	.0	.5	.0	.5	100.0
Mixed northern hardwoods	11.8	34.7	1.9	.0	48.5	47.4
Northern hardwoods group	91.6	199.4	9.5	.0	300.5	16.9
Aspen	.0	60.6	.0	.0	60.6	52.1
Paper birch	.0	71.2	3.9	.0	75.1	40.1
Gray birch	.0	5.8	.9	.0	6.7	88.2
Aspen/birch group	.0	137.6	4.7	.0	142.3	30.5
All forest types	539.9	724.0	37.7	1.8	1,303.4	4.9
SE	13.7	9.7	30.2	100.0	4.9	

Table 61. Net volume of sawtimber trees on timberland by species and diameter class, Hancock County, Maine, 1995

(In millions of board feet)

Species group	Diameter class (inches at breast height)								All classes	SE
	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0+		
Balsam fir	69.3	30.5	11.0	5.6	.0	.0	.0	.0	116.5	20.3
Tamarack	7.3	16.7	3.4	.0	.0	5.5	.0	.0	32.9	56.6
White spruce	14.4	13.3	27.7	19.3	12.1	9.3	9.5	.0	105.6	46.5
Black spruce	6.3	6.2	4.1	.0	.0	.0	.0	.0	16.6	52.3
Red spruce	224.7	230.1	188.1	128.4	142.1	47.4	24.0	.0	984.7	17.7
Red pine	2.0	2.1	6.8	9.1	.0	.0	.0	.0	20.1	66.7
White pine	46.2	51.3	86.8	38.7	51.9	5.9	34.2	40.0	355.2	29.3
Northern white-cedar	67.4	64.5	25.6	13.6	.0	2.0	.0	.0	173.1	21.8
Hemlock	36.9	37.2	49.2	24.0	15.0	17.7	15.9	.0	195.8	37.8
Other softwoods	8.5	8.7	17.7	16.0	12.3	.0	.0	.0	63.1	98.5
Total softwoods	483.1	460.8	420.3	254.7	233.3	87.8	83.6	40.0	2,063.6	10.4
Red maple	.0	92.0	56.8	29.6	30.8	25.8	16.5	.0	251.5	19.3
Sugar maple	.0	9.3	11.9	12.6	4.1	.0	29.7	.0	67.6	34.7
Yellow birch	.0	19.1	6.5	.0	3.9	4.8	.0	.0	34.3	36.3
Paper birch	.0	45.9	33.8	.0	.0	.0	.0	.0	79.7	21.2
Beech	.0	5.4	27.7	3.4	.0	8.2	.0	.0	44.7	53.1
White ash	.0	8.3	4.2	1.7	4.7	.0	6.4	9.2	34.5	45.3
Black ash	.0	4.1	6.2	.0	.0	10.2	.0	.0	20.5	62.4
Aspen	.0	54.1	24.9	22.7	.0	.0	.0	.0	101.7	49.0
Red oaks	.0	18.5	16.6	6.6	.0	7.6	.0	.0	49.3	38.3
Total hardwoods	.0	256.7	188.6	76.5	43.5	56.6	52.7	9.2	683.7	14.4
Total, all species	483.1	717.5	608.9	331.2	276.8	144.5	136.3	49.2	2,747.3	8.2
SE	10.0	8.6	10.9	14.4	18.7	25.7	27.0	83.4	8.2	

Table 62. Number of growing-stock trees (5.0+ inches d.b.h.) on timberland by species and diameter class, Hancock County, Maine, 1995

(In thousands of trees)

Species group	Diameter class (inches at breast height)										All classes	SE
	5.0- 6.9	7.0- 8.9	9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 28.9	29.0+		
Balsam fir	21,562	8,116	1,746	391	125	34	0	0	0	0	31,975	11.2
Tamarack	195	193	167	267	33	0	0	33	0	0	890	54.7
White spruce	2,223	953	325	161	264	134	63	32	35	0	4,190	32.4
Black spruce	1,633	308	162	97	33	0	0	0	0	0	2,235	48.7
Red spruce	14,252	8,139	5,083	3,125	1,571	777	698	161	63	0	33,870	11.4
Red pine	124	65	58	33	65	67	0	0	0	0	413	56.7
White pine	4,062	2,089	1,256	767	781	286	259	24	97	31	9,652	22.8
Northern white-cedar	5,037	4,496	2,618	1,511	469	162	0	32	0	0	14,326	21.8
Hemlock	1,454	1,987	1,102	660	550	165	94	95	65	0	6,174	32.5
Other softwoods	359	333	234	134	201	134	67	0	0	0	1,462	78.8
Total softwoods	50,902	26,678	12,753	7,147	4,094	1,759	1,181	379	261	31	105,187	6.8
Red maple	14,507	9,689	4,022	1,556	645	287	219	189	64	0	31,179	9.6
Sugar maple	1,712	1,557	526	195	131	94	31	0	127	0	4,375	39.2
Yellow birch	2,094	983	599	324	100	0	31	34	0	0	4,165	22.1
Paper birch	6,152	4,031	1,847	648	354	0	0	0	0	0	13,033	17.6
Gray birch	1,696	199	99	0	0	0	0	0	0	0	1,994	53.7
Beech	3,087	1,465	455	94	284	30	0	30	0	0	5,447	26.5
White ash	1,552	1,108	256	126	31	34	32	0	32	32	3,205	37.2
Black ash	433	34	32	49	56	0	0	32	0	0	636	72.1
Aspen	1,890	2,411	1,130	791	257	159	0	0	0	0	6,638	38.1
Red oaks	1,117	1,400	655	367	194	64	0	68	0	0	3,866	42.2
Basswood	0	0	30	0	0	0	0	0	0	0	30	100.0
Other hardwoods	96	94	0	0	0	0	0	0	0	0	190	44.6
Total hardwoods	34,336	22,972	9,653	4,152	2,053	669	314	353	224	32	74,759	7.7
Total, all species	85,238	49,650	22,406	11,299	6,147	2,428	1,496	732	485	64	179,945	4.8
SE	6.3	6.1	6.4	8.4	10.4	13.7	17.9	22.5	25.9	70.7	4.8	

Table 63. Average annual net change of growing-stock volume on timberland by species and component of change, Hancock County, Maine, 1995

(In thousands of cubic feet)

Species group	Component of change								Net change
	Ingrowth	Accretion	Gross growth	Mortality	Cull decrement	Cull increment	Net growth	Removals	
Balsam fir	4,323	2,759	7,082	-1,896	594	-27	5,753	-1,243	4,510
Tamarack	58	178	236	-233	115	-10	109	0	109
White spruce	486	724	1,210	-33	0	0	1,177	-201	976
Black spruce	113	153	266	-143	60	0	183	-388	-205
Red spruce	2,288	6,550	8,838	-1,089	399	-31	8,116	-3,454	4,662
Red pine	0	69	69	0	33	0	102	0	102
White pine	1,203	2,702	3,905	-86	78	-79	3,817	-541	3,277
Northern white-cedar	482	1,996	2,477	-615	577	-96	2,343	-95	2,248
Hemlock	315	2,097	2,413	0	153	-14	2,551	-1,551	1,000
Other softwoods	82	64	145	-40	0	0	105	0	105
Total softwoods	9,350	17,291	26,641	-4,136	2,009	-258	24,256	-7,473	16,783
Red maple	1,747	4,125	5,872	-482	2,665	-363	7,693	-1,635	6,059
Sugar maple	44	455	499	-67	422	-21	832	0	832
Yellow birch	244	405	648	-37	237	-47	802	0	802
Paper birch	514	1,618	2,132	-715	329	0	1,745	-500	1,246
Gray birch	206	62	268	-123	75	0	220	-19	201
Beech	508	476	984	-108	213	-136	952	-263	689
White ash	198	304	503	-24	187	-42	623	0	623
Black ash	55	83	137	-53	0	0	84	0	84
Aspen	635	1,281	1,917	-294	129	0	1,752	-307	1,446
Red oaks	69	271	340	-28	0	0	312	-51	261
Other hardwoods	0	0	0	0	19	0	19	0	19
Total hardwoods	4,221	9,079	13,301	-1,931	4,276	-609	15,036	-2,775	12,261
Total, all species	13,572	26,370	39,942	-6,067	6,285	-867	39,292	-10,248	29,044
SE	10.2	7.2	6.6	12.3	13.6	29.6	7.5	24.7	

NOTE: Removals and mortality volumes for all tables containing these estimates are calculated using each tree's diameter breast height that was measured during the 1982 inventory, if the tree is no longer present.

Table 64. Area of timberland by forest type, forest-type group, and stand-size class, Penobscot County, Maine, 1982

(In thousands of acres)

Forest type	Stand-size class				All classes	SE
	Saw-timber	Pole-timber	Sapling and seedling	Non-stocked		
Red pine	.0	9.5	.0	.0	9.5	100.0
White pine	19.0	9.5	9.5	.0	38.1	49.9
White pine/hemlock	.0	.0	9.5	.0	9.5	100.0
Hemlock	55.3	66.7	9.5	.0	131.4	25.6
White/red pine group	74.3	85.7	28.4	.0	188.4	21.2
Balsam fir	47.6	66.7	19.0	.0	133.3	25.5
Red spruce	19.0	57.0	.0	.0	76.0	34.7
Red spruce/balsam fir	114.3	161.9	37.7	.0	313.9	15.8
White spruce	9.5	.0	.0	.0	9.5	100.0
Black spruce	.0	.0	18.9	.0	18.9	70.3
Northern white-cedar	57.5	161.2	19.0	.0	237.7	18.7
Tamarack	.0	18.8	.0	.0	18.8	70.7
Spruce/fir group	247.8	465.5	94.6	.0	808.0	8.1
Black ash/Amer. elm/red maple	9.5	9.6	9.5	.0	28.5	57.5
Red maple(upland)	.0	.0	9.5	.0	9.5	100.0
Willow	.0	.0	9.5	.0	9.5	100.0
Elm/ash/red maple group	9.5	9.6	28.4	.0	47.4	44.1
Sugar maple/beech/yellow birch	122.9	226.6	28.6	.0	378.1	14.2
Black Cherry	.0	9.5	.0	.0	9.5	100.0
Red maple/northern hardwoods	28.5	104.1	9.5	.0	142.2	25.0
Pin cherry/reverting field	.0	.0	9.8	8.9	18.6	70.8
Mixed northern hardwoods	19.0	19.0	.0	.0	38.1	49.9
Northern hardwoods group	170.4	359.3	47.9	8.9	586.5	10.7
Aspen	.0	113.1	37.3	.0	150.5	23.7
Paper birch	.0	37.8	.0	.0	37.8	49.9
Gray birch	.0	18.9	18.3	.0	37.3	49.6
Aspen/birch group	.0	169.8	55.7	.0	225.5	18.9
All forest types	502.1	1,089.9	255.0	8.9	1,855.8	1.2
SE	11.3	5.9	17.9	100.0	1.2	

Table 65. Area of timberland by forest type, forest-type group, and stand-size class, Penobscot County, Maine, 1995

(In thousands of acres)						
Forest type	Stand-size class				All classes	SE
	Saw-timber	Pole-timber	Sapling and seedling	Non-stocked		
Red pine	6.6	.0	.0	.0	6.6	100.0
White pine	32.7	11.1	6.6	.0	50.4	35.0
White pine/hemlock	13.4	.0	.0	.0	13.4	70.7
Hemlock	91.9	32.8	.0	.0	124.7	22.1
White/red pine group	144.6	43.9	6.6	.0	195.1	17.0
Balsam fir	19.1	91.7	68.3	.0	179.1	17.7
Red spruce	41.9	57.6	6.6	.0	106.2	23.1
Red spruce/balsam fir	38.9	52.0	51.9	.0	142.8	20.6
White spruce	.0	6.6	.0	.0	6.6	100.0
Black spruce	.0	6.6	.0	.0	6.6	100.0
Northern white-cedar	116.9	120.3	.0	.0	237.2	14.2
Tamarack	.0	19.5	.0	.0	19.5	57.8
Spruce/fir group	216.8	354.4	126.8	.0	698.0	7.2
Hawthorn/reverting field	.0	.0	6.2	.0	6.2	100.0
Mixed central hardwoods	13.0	6.2	.0	.0	19.2	57.8
Oak/hickory group	13.0	6.2	6.2	.0	25.4	49.3
Black ash/Amer. elm/red maple	12.8	31.6	6.1	.0	50.5	34.8
Red maple(lowland)	6.4	4.8	6.5	.0	17.7	58.2
Willow	.0	6.6	.0	.0	6.6	100.0
Elm/ash/red maple group	19.2	43.0	12.5	.0	74.8	28.4
Sugar maple/beech/yellow birch	166.6	143.8	88.6	.0	399.0	10.3
Black Cherry	.0	6.6	.0	.0	6.6	100.0
Red maple/northern hardwoods	38.5	39.3	56.6	.0	134.4	21.0
Mixed northern hardwoods	12.9	13.3	12.7	.0	39.0	40.3
Northern hardwoods group	218.1	202.9	157.9	.0	578.9	8.1
Aspen	32.6	57.9	94.8	.0	185.3	17.6
Paper birch	.0	33.8	24.2	.0	58.0	31.9
Gray birch	.0	13.0	19.1	.0	32.1	44.7
Aspen/birch group	32.6	104.6	138.1	.0	275.4	13.8
All forest types	644.4	755.0	448.2	.0	1,847.6	1.2
SE	8.0	6.9	8.9	.0	1.2	

Table 66. Net volume of growing-stock trees on timberland by species and diameter class, Penobscot County, Maine, 1982

(In millions of cubic feet)

Species group	Diameter class (inches at breast height)										All classes
	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0+	
Balsam fir	68.7	59.5	35.2	16.6	.5	2.7	.0	.0	.0	.0	183.0
Tamarack	5.0	5.1	.5	.9	.7	.0	1.3	.0	.0	.0	13.5
White spruce	7.1	3.3	3.7	6.4	2.6	4.6	.0	.0	.0	.0	27.7
Black spruce	2.4	1.8	.5	.6	1.0	1.0	.0	.0	.0	.0	7.3
Red spruce	65.1	97.7	82.5	78.9	45.6	13.8	1.0	5.7	.0	.0	390.2
Red pine	1.0	1.1	.0	4.4	.7	3.1	.0	.0	.0	.0	10.2
White pine	8.4	15.5	17.0	18.2	21.4	21.0	19.0	15.6	16.9	.0	153.3
Northern white-cedar	54.4	60.0	48.5	36.2	10.9	5.8	.3	.0	.0	.0	216.1
Hemlock	39.6	64.6	58.3	73.9	39.8	30.7	8.9	11.8	3.7	.0	331.3
Other softwoods	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.6
Total softwoods	251.8	308.6	246.4	236.5	123.3	82.4	30.5	33.0	20.7	.0	1,333.2
Red Maple	30.9	37.3	63.3	30.7	12.8	13.3	8.1	10.0	7.0	.0	213.6
Sugar maple	7.6	18.0	21.1	15.0	14.7	8.9	9.9	8.9	2.2	4.0	110.4
Yellow birch	8.3	11.0	20.8	11.9	7.1	3.0	3.4	4.0	2.1	.0	71.6
Paper birch	15.9	28.5	19.7	15.2	4.6	3.4	.0	.0	.0	.0	87.3
Gray birch	4.6	1.3	.5	.0	.0	.0	.0	.0	.0	.0	6.4
Beech	16.7	20.3	21.1	13.3	11.8	4.0	.0	1.2	.0	.0	88.3
White ash	2.5	1.6	2.9	3.2	1.9	2.3	.4	.0	.0	.0	14.8
Black ash	.7	1.4	2.2	2.0	.0	.0	.0	.0	.0	.0	6.4
Aspen	18.7	29.9	43.9	25.8	21.1	.4	3.0	.0	2.7	.0	145.5
White oaks	.5	.6	.3	.0	.0	.0	.0	.0	.0	.0	1.5
Red oaks	.3	.0	1.9	2.1	.4	2.7	.6	.0	.0	.0	7.9
Basswood	.5	.0	1.6	2.3	1.3	.0	2.0	.0	.0	.0	6.8
Elm	.8	.8	5.3	1.2	1.4	1.1	3.9	.0	6.0	5.2	25.7
Other hardwoods	.9	2.2	1.3	.4	.0	.0	.0	.0	.0	.0	4.7
Total hardwoods	109.1	152.7	206.0	123.1	77.1	39.0	31.3	24.2	19.9	9.2	791.6
Total, all species	360.9	461.3	452.5	359.5	200.3	121.6	61.8	57.2	40.7	9.2	2,124.8

Table 67. Net volume of growing-stock trees on timberland by species and diameter class, Penobscot County, Maine, 1995

(In millions of cubic feet)

Species group	Diameter class (inches at breast height)										All classes	SE
	5.0- 6.9	7.0- 8.9	9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 28.9	29.0+		
Balsam fir	74.3	55.7	26.5	14.2	9.0	.0	.0	.0	.0	.0	179.6	11.4
Tamarack	11.1	7.1	5.9	4.7	3.3	.0	1.3	.0	.0	.0	33.4	42.6
White spruce	5.0	8.3	4.5	5.8	1.6	2.5	.0	.0	.0	.0	27.7	21.5
Black spruce	3.8	4.2	4.1	1.6	.0	1.2	.0	.0	.0	.0	14.9	36.1
Red spruce	51.2	75.5	65.9	59.8	18.4	19.5	3.9	1.4	4.3	.0	299.9	11.2
Red pine	.6	1.2	1.9	.5	2.9	3.2	4.8	.0	.0	.0	15.0	63.2
White pine	14.0	15.1	15.7	16.3	15.4	18.1	21.2	14.7	26.9	7.7	165.0	18.8
Northern white-cedar	70.3	89.7	86.3	43.8	20.1	10.1	3.8	1.1	.0	.0	325.1	13.6
Hemlock	30.0	50.7	58.3	43.7	34.9	21.6	8.1	2.8	10.7	.0	260.8	12.6
Other softwoods	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.6	80.3
Total softwoods	260.5	307.4	269.5	190.3	105.6	76.0	43.1	19.9	41.9	7.7	1,322.0	5.9
Red maple	42.5	52.7	54.3	37.2	20.5	12.5	9.4	1.3	15.7	.0	246.3	9.1
Sugar maple	9.6	19.2	23.5	23.5	19.7	8.7	13.0	8.5	7.6	4.0	137.3	17.2
Yellow birch	8.7	13.8	15.1	13.9	8.2	5.3	6.5	4.0	.0	.0	75.6	14.0
Paper birch	15.6	28.4	25.3	14.0	3.9	1.1	1.1	.0	.0	.0	89.4	16.3
Gray birch	8.8	3.7	.6	.0	.0	.0	.0	.0	.0	.0	13.1	24.7
Beech	27.3	34.8	34.6	17.7	11.7	4.4	3.0	2.2	.0	.0	135.6	16.8
White ash	6.7	7.9	8.1	3.5	5.0	1.3	2.1	.0	.0	.0	34.6	21.6
Black ash	7.0	2.8	1.1	1.6	.0	.0	.0	.0	.0	.0	12.5	36.2
Aspen	14.8	25.0	31.7	32.1	16.9	21.2	3.4	.0	2.7	.0	147.7	17.7
White oaks	1.2	2.0	.3	.0	.0	.0	.0	.0	.0	.0	3.5	100.0
Red oaks	1.7	2.8	1.9	2.4	1.2	.7	2.1	1.0	.0	.0	13.8	47.1
Basswood	.3	1.3	.8	.3	.0	2.0	.0	.0	.0	.0	4.6	49.3
Elm	.7	.3	.3	.0	.0	.0	.0	.0	.0	.0	1.3	48.0
Other hardwoods	.6	2.0	.9	.5	.6	.0	.0	.0	.0	.0	4.6	66.9
Total hardwoods	145.4	196.7	198.6	146.6	87.7	57.2	40.7	17.1	26.0	4.0	919.9	5.8
Total, all species	405.9	504.1	468.1	336.9	193.3	133.3	83.8	37.0	68.0	11.7	2,242.0	3.7
SE	5.3	4.6	5.1	6.0	8.4	10.2	13.4	21.7	26.6	74.2	3.7	

Table 68. Net volume of growing-stock trees on timberland by forest type and stand-size class, Penobscot County, Maine, 1995

(In millions of cubic feet)

Forest type	Stand-size class				All classes	SE
	Saw-timber	Pole-timber	Sapling and seedling	Non-stocked		
Red pine	19.3	.0	.0	.0	19.3	100.0
White pine	59.6	19.7	4.7	.0	84.0	39.1
White pine/hemlock	29.3	.0	.0	.0	29.3	70.7
Hemlock	199.1	60.8	.0	.0	259.9	24.1
White/red pine group	307.3	80.5	4.7	.0	392.5	18.7
Balsam fir	29.3	109.4	19.3	.0	158.0	21.8
Red spruce	78.6	86.2	.0	.0	164.8	26.6
Red spruce/balsam fir	46.0	76.9	15.5	.0	138.4	24.7
White spruce	.0	9.1	.0	.0	9.1	100.0
Black spruce	.0	3.2	.0	.0	3.2	100.0
Northern white-cedar	203.0	162.2	.0	.0	365.3	17.2
Tamarack	.0	33.6	.0	.0	33.6	65.3
Spruce/fir group	356.9	480.7	34.9	.0	872.4	9.3
Hawthorn/reverting field	.0	.0	1.1	.0	1.1	100.0
Mixed central hardwoods	19.5	8.1	.0	.0	27.6	59.0
Oak/hickory group	19.5	8.1	1.1	.0	28.7	56.7
Black ash/Amer. elm/red maple	10.3	37.3	.2	.0	47.7	44.5
Red maple(lowland)	3.5	2.4	1.1	.0	7.0	62.3
Willow	.0	4.6	.0	.0	4.6	100.0
Elm/ash/red maple group	13.7	44.3	1.3	.0	59.4	37.2
Sugar maple/beech/yellow birch	266.8	210.8	19.5	.0	497.1	12.4
Black Cherry	.0	7.9	.0	.0	7.9	100.0
Red maple/northern hardwoods	46.5	46.2	15.6	.0	108.4	28.0
Mixed northern hardwoods	16.8	15.5	3.5	.0	35.8	49.6
Northern hardwoods group	330.1	280.3	38.7	.0	649.1	10.3
Aspen	55.2	98.8	19.8	.0	173.9	25.8
Paper birch	.0	49.0	7.4	.0	56.4	39.6
Gray birch	.0	8.4	1.1	.0	9.6	63.3
Aspen/birch group	55.2	156.3	28.3	.0	239.8	20.6
All forest types	1,082.8	1,050.2	109.0	.0	2,242.0	3.7
SE	9.2	7.9	16.0	.0	3.7	

Table 69. Net volume of sawtimber trees on timberland by species and diameter class, Penobscot County, Maine, 1995

(In millions of board feet)

Species group	Diameter class (inches at breast height)								All classes	SE
	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0+		
Balsam fir	97.4	63.7	43.4	.0	.0	.0	.0	.0	204.6	20.6
Tamarack	18.7	17.5	13.5	.0	4.4	.0	.0	.0	54.1	42.8
White spruce	17.1	24.8	8.1	11.6	.0	.0	.0	.0	61.6	29.0
Black spruce	13.7	7.4	.0	6.1	.0	.0	.0	.0	27.1	45.7
Red spruce	243.8	260.5	88.0	97.5	19.7	6.7	22.9	.0	739.1	13.2
Red pine	5.4	1.8	13.2	16.3	23.4	.0	.0	.0	60.0	70.3
White pine	53.4	67.1	72.3	81.8	106.8	78.0	146.5	49.2	655.1	21.8
Northern white-cedar	242.7	147.6	73.1	38.4	16.0	4.3	.0	.0	522.1	17.3
Hemlock	192.2	168.6	149.8	96.6	37.3	12.2	50.3	.0	706.9	15.1
Other softwoods	1.3	.0	.0	.0	.0	.0	.0	.0	1.3	100.0
Total softwoods	885.7	758.9	461.5	348.2	207.7	101.2	219.7	49.2	3,032.0	7.9
Red maple	.0	157.8	87.3	58.4	48.8	5.2	82.0	.0	439.4	17.1
Sugar maple	.0	99.3	88.8	44.4	68.1	44.3	41.1	21.6	407.6	20.7
Yellow birch	.0	65.3	39.6	23.0	31.4	20.7	.0	.0	179.9	17.6
Paper birch	.0	59.7	19.7	5.0	6.2	.0	.0	.0	90.5	22.7
Beech	.0	81.5	60.4	25.4	16.8	9.2	.0	.0	193.3	23.5
White ash	.0	16.0	23.5	6.1	11.0	.0	.0	.0	56.6	32.4
Black ash	.0	7.0	.0	.0	.0	.0	.0	.0	7.0	59.9
Aspen	.0	140.0	78.9	103.0	14.8	.0	15.4	.0	352.1	24.9
Red oaks	.0	9.7	5.0	3.5	10.6	3.6	.0	.0	32.4	71.0
Basswood	.0	.7	.0	9.9	.0	.0	.0	.0	10.7	92.6
Other hardwoods	.0	2.1	2.2	.0	.0	.0	.0	.0	4.3	100.0
Total hardwoods	.0	639.1	405.2	278.7	207.7	82.9	138.5	21.6	1,773.8	8.9
Total, all species	885.7	1,398.0	866.7	626.9	415.4	184.1	358.2	70.8	4,805.8	5.7
SE	7.6	6.0	8.3	10.4	13.6	22.2	25.1	75.9	5.7	

Table 70. Number of growing-stock trees (5.0+ inches d.b.h.) on timberland by species and diameter class, Penobscot County, Maine, 1995

(In thousands of trees)

Species group	Diameter class (inches at breast height)										All classes	SE
	5.0- 6.9	7.0- 8.9	9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 28.9	29.0+		
Balsam fir	26,587	8,809	2,449	791	327	0	0	0	0	0	38,965	10.7
Tamarack	3,728	1,215	554	299	133	0	34	0	0	0	5,963	48.4
White spruce	1,614	1,215	359	323	66	64	0	0	0	0	3,641	22.5
Black spruce	1,103	638	387	98	0	33	0	0	0	0	2,260	38.5
Red spruce	15,192	10,803	5,649	3,337	781	585	99	33	66	0	36,548	11.9
Red pine	199	166	166	33	132	99	133	0	0	0	928	53.2
White pine	4,816	2,617	1,501	1,005	691	581	559	263	393	66	12,493	24.8
Northern white-cedar	28,238	17,554	10,024	3,553	1,240	460	128	32	0	0	61,229	12.7
Hemlock	11,296	9,018	5,845	2,930	1,565	750	230	65	166	0	31,865	11.7
Other softwoods	67	0	35	0	0	0	0	0	0	0	102	75.2
Total softwoods	92,841	52,035	26,971	12,371	4,936	2,573	1,183	394	625	66	193,995	5.8
Red maple	17,007	9,379	5,592	2,594	1,009	481	326	33	261	0	36,681	7.9
Sugar maple	3,499	2,776	2,018	1,394	905	325	326	195	128	33	11,599	16.6
Yellow birch	3,663	2,417	1,567	1,077	393	197	192	95	0	0	9,601	14.1
Paper birch	5,414	4,220	2,262	911	196	33	31	0	0	0	13,068	14.8
Gray birch	3,217	691	65	0	0	0	0	0	0	0	3,973	24.2
Beech	10,563	5,617	3,194	1,166	548	163	100	63	0	0	21,414	14.9
White ash	2,364	1,205	760	226	195	33	67	0	0	0	4,850	20.7
Black ash	2,658	587	132	101	0	0	0	0	0	0	3,477	36.1
Aspen	4,634	3,691	2,749	1,843	752	693	97	0	34	0	14,495	16.4
White oaks	517	355	32	0	0	0	0	0	0	0	904	100.0
Red oaks	657	501	199	191	64	33	66	33	0	0	1,744	45.5
Basswood	133	265	66	32	0	64	0	0	0	0	560	34.5
Elm	334	65	33	0	0	0	0	0	0	0	432	57.9
Other hardwoods	291	360	99	33	33	0	0	0	0	0	815	45.0
Total hardwoods	54,953	32,129	18,767	9,568	4,094	2,022	1,206	420	423	33	123,614	5.0
Total, all species	147,794	84,163	45,738	21,940	9,030	4,595	2,389	813	1,047	99	317,609	3.6
SE	4.9	4.4	5.2	5.8	8.1	9.6	13.1	20.7	25.6	74.7	3.6	

Table 71. Average annual net change of growing-stock volume on timberland by species and component of change, Penobscot County, Maine, 1995

(In thousands of cubic feet)

Species group	Component of change								Net change
	Ingrowth	Accretion	Gross growth	Mortality	Cull decrement	Cull increment	Net growth	Removals	
Balsam fir	4,885	4,522	9,408	-5,867	616	-175	3,982	-4,086	-104
Tamarack	788	952	1,740	-55	113	0	1,797	-290	1,507
White spruce	209	1,234	1,442	-310	0	0	1,132	-1,094	39
Black spruce	407	302	709	-23	0	0	686	-138	548
Red spruce	1,663	5,952	7,614	-3,097	332	-230	4,620	-11,161	-6,541
Red pine	123	483	606	-27	67	0	647	-107	539
White pine	983	4,096	5,079	-423	1,497	-166	5,987	-4,679	1,307
Northern white-cedar	3,453	6,354	9,807	-847	3,066	-919	11,107	-2,888	8,219
Hemlock	1,774	5,729	7,503	-626	1,017	-112	7,783	-12,680	-4,897
Total softwoods	14,283	29,626	43,909	-11,275	6,709	-1,602	37,741	-37,123	618
Red maple	1,978	3,769	5,747	-1,111	2,574	-279	6,931	-4,350	2,582
Sugar maple	593	2,289	2,882	-174	1,115	-168	3,656	-1,637	2,019
Yellow birch	559	1,422	1,981	-220	537	-252	2,046	-1,765	281
Paper birch	720	1,436	2,156	-669	1,304	-147	2,644	-2,429	215
Gray birch	267	200	467	-130	289	-45	580	-69	511
Beech	1,744	2,831	4,575	-563	2,821	-420	6,414	-2,725	3,689
White ash	798	816	1,614	-149	156	0	1,622	-164	1,457
Black ash	250	171	420	-221	248	0	448	0	448
Aspen	951	3,640	4,590	-1,314	1,399	-35	4,640	-4,463	176
White oaks	50	89	139	-18	35	0	156	0	156
Red oaks	321	254	575	0	232	0	807	-249	558
Basswood	38	40	79	0	43	0	121	-293	-172
Elm	63	8	71	-1,834	0	0	-1,763	-91	-1,854
Other hardwoods	61	112	172	-131	68	-29	81	-20	61
Total hardwoods	8,395	17,076	25,471	-6,533	10,821	-1,375	28,384	-18,257	10,127
Total, all species	22,679	46,702	69,381	-17,808	17,529	-2,977	66,125	-55,379	10,745
SE	7.2	5.9	5.1	11.7	10.1	15.2	7.1	10.3	

NOTE: Removals and mortality volumes for all tables containing these estimates are calculated using each tree's diameter breast height that was measured during the 1982 inventory, if the tree is no longer present.

Table 72. Area of timberland by forest type, forest-type group, and stand-size class, Piscataquis County, Maine, 1982

(In thousands of acres)

Forest type	Stand-size class				All classes	SE
	Saw-timber	Pole-timber	Sapling and seedling	Non-stocked		
Hemlock	10.6	21.0	.0	.0	31.6	57.5
White/red pine group	10.6	21.0	.0	.0	31.6	57.5
Balsam fir	63.1	116.9	94.6	.0	274.7	18.4
Red spruce	95.9	165.4	11.6	.0	272.9	18.4
Red spruce/balsam fir	226.3	311.3	83.8	.0	621.4	11.3
White spruce	.0	21.1	.0	.0	21.1	70.7
Black spruce	.0	10.6	.0	.0	10.6	100.0
Northern white-cedar	118.1	10.5	20.5	.0	149.1	26.1
Tamarack	.0	.0	10.5	.0	10.5	100.0
Spruce/fir group	503.5	635.8	221.0	.0	1,360.3	5.7
Black ash/Amer. elm/red maple	.0	10.5	.0	.0	10.5	100.0
Elm/ash/red maple group	.0	10.5	.0	.0	10.5	100.0
Sugar maple/beech/yellow birch	310.7	181.0	31.5	.0	523.2	12.5
Red maple/northern hardwoods	42.3	53.7	11.6	.0	107.6	31.0
Mixed northern hardwoods	10.5	52.5	10.5	.0	73.5	36.5
Northern hardwoods group	363.4	287.3	53.6	.0	704.3	10.2
Aspen	.0	31.5	31.0	.0	62.5	40.2
Paper birch	11.6	31.5	31.5	.0	74.7	37.5
Aspen/birch group	11.6	63.1	62.5	.0	137.1	27.0
All forest types	889.0	1,017.7	337.1	.0	2,243.8	.8
SE	8.4	7.5	15.8	.0	.8	

Table 73. Area of timberland by forest type, forest-type group, and stand-size class, Piscataquis County, Maine, 1995

(In thousands of acres)

Forest type	Stand-size class				All classes	SE
	Saw-timber	Pole-timber	Sapling and seedling	Non-stocked		
White pine	11.5	.0	6.3	.0	17.7	57.9
Hemlock	20.6	.0	6.6	.0	27.3	50.1
White/red pine group	32.1	.0	12.9	.0	45.0	38.0
Balsam fir	5.9	79.1	202.8	5.9	293.8	13.7
Red spruce	97.8	86.2	.0	.0	184.0	17.4
Red spruce/balsam fir	95.6	37.7	87.6	.0	220.9	16.0
White spruce	2.8	6.2	.0	.0	9.0	75.6
Black spruce	.0	12.7	5.9	.0	18.6	57.8
Northern white-cedar	120.6	43.3	17.3	.0	181.2	17.9
Tamarack	6.6	18.0	.0	.0	24.6	49.2
Spruce/fir group	329.3	283.3	313.6	5.9	932.1	5.8
Northern red oak	5.9	.0	.0	.0	5.9	100.0
Red maple/central hardwood	.0	.0	5.3	.0	5.3	100.0
Oak/hickory group	5.9	.0	5.3	.0	11.2	70.8
Black ash/Amer. elm/red maple	5.9	.0	12.8	.0	18.6	57.8
Red maple(upland)	.0	6.5	.0	.0	6.5	100.0
Willow	.0	.0	5.1	.0	5.1	100.0
Elm/ash/red maple group	5.9	6.5	17.8	.0	30.3	44.9
Sugar maple/beech/yellow birch	391.8	190.7	78.0	.0	660.6	7.6
Black Cherry	.0	.0	5.6	.0	5.6	100.0
Red maple/northern hardwoods	20.3	74.7	58.4	.0	153.4	19.9
Pin cherry/reverting field	.0	6.8	13.3	.0	20.1	53.8
Mixed northern hardwoods	6.7	64.8	33.8	.0	105.4	24.3
Northern hardwoods group	418.9	337.0	189.2	.0	945.1	5.8
Aspen	12.8	71.8	23.0	.0	107.7	23.7
Paper birch	6.6	57.7	69.5	.0	133.9	21.5
Gray birch	2.2	.0	5.9	.0	8.1	77.8
Aspen/birch group	21.7	129.5	98.5	.0	249.7	15.2
All forest types	813.7	756.4	637.4	5.9	2,213.4	.9
SE	7.0	7.3	7.6	100.0	.9	

Table 74. Net volume of growing-stock trees on timberland by species and diameter class, Piscataquis County, Maine, 1982

(In millions of cubic feet)

Species group	Diameter class (inches at breast height)										All classes
	5.0- 6.9	7.0- 8.9	9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 28.9	29.0+	
Balsam fir	195.1	251.1	151.7	61.0	21.4	2.0	.0	1.1	.0	.0	683.5
Tamarack	2.8	2.5	1.9	2.5	3.9	.0	.0	.0	.0	.0	13.5
White spruce	20.3	16.5	29.0	20.2	1.9	8.8	4.7	2.5	.0	.0	103.9
Black spruce	19.9	9.9	12.1	5.3	.0	1.1	.0	.0	.0	.0	48.3
Red spruce	185.2	274.5	214.4	145.0	94.8	47.2	34.3	18.5	11.2	.0	1024.9
Red pine	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.9
White pine	1.6	6.2	12.2	14.0	4.6	13.3	11.2	12.1	28.5	17.7	121.5
Northern white-cedar	14.5	47.1	61.5	58.1	58.4	40.2	16.3	19.6	10.2	.0	326.1
Hemlock	5.9	10.1	11.3	9.2	14.0	2.6	8.2	6.9	.0	.0	68.1
Total softwoods	445.6	618.1	494.3	315.4	199.2	115.2	74.8	60.8	49.9	17.7	2,390.8
Red Maple	29.4	46.1	45.4	31.0	18.7	9.8	8.0	2.9	.0	5.1	196.4
Sugar maple	11.0	17.2	29.0	37.7	31.5	50.5	28.1	33.6	49.6	6.5	294.7
Yellow birch	9.5	21.0	21.2	20.3	12.8	11.3	16.5	.0	11.5	.0	124.1
Paper birch	39.5	35.1	32.5	17.1	12.0	3.3	.0	.0	1.7	.0	141.2
Gray birch	4.8	3.9	.3	.0	.0	.0	.0	.0	.0	.0	8.9
Beech	22.0	27.9	36.3	37.5	16.8	2.9	.0	.0	.0	.0	143.5
White ash	2.6	9.5	2.5	5.5	.0	2.8	.0	.0	.0	.0	23.0
Black ash	4.4	2.8	3.7	1.7	3.2	1.1	.0	.0	.0	.0	17.1
Aspen	24.2	43.4	42.0	26.4	16.1	16.6	5.9	11.0	.0	.0	185.7
Red oaks	.0	1.0	.0	1.9	.9	.0	.0	3.3	.0	.0	7.1
Basswood	.0	.9	.0	1.3	.0	.0	.0	.0	.0	.0	2.3
Elm	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
Other hardwoods	.0	1.1	.6	.0	.0	.7	.0	.0	.0	.0	2.4
Total hardwoods	147.7	209.8	213.6	180.6	112.3	99.0	58.5	50.8	62.9	11.6	1,146.7
Total, all species	593.3	828.0	707.8	496.0	311.5	214.2	134.2	111.5	112.8	29.3	3,537.5

Table 75. Net volume of growing-stock trees on timberland by species and diameter class, Piscataquis County, Maine, 1995

(In millions of cubic feet)

Species group	Diameter class (inches at breast height)										All classes	SE
	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0+		
Balsam fir	92.5	98.2	57.9	25.7	7.6	3.6	1.2	.0	.0	.0	286.7	8.7
Tamarack	3.0	3.2	3.9	2.4	1.6	1.9	.8	.0	.0	.0	16.7	42.8
White spruce	9.3	17.6	15.5	17.0	7.2	7.2	1.2	.0	2.2	.0	77.1	20.4
Black spruce	12.7	15.2	9.0	6.6	2.4	1.1	.0	.0	.0	.0	47.0	37.0
Red spruce	90.6	152.8	149.5	109.6	56.7	30.6	13.8	5.9	1.8	.0	611.2	10.0
Red pine	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.9	100.0
White pine	1.5	2.7	4.3	8.7	9.8	8.5	10.4	6.2	21.0	17.6	90.7	21.6
Northern white-cedar	17.1	35.7	45.9	47.2	47.9	33.4	24.6	6.3	5.1	.0	263.3	12.5
Hemlock	4.4	9.4	11.8	9.1	9.8	10.4	5.8	5.8	10.5	.0	77.1	20.9
Total softwoods	231.4	335.0	298.0	226.4	143.1	96.6	57.9	24.2	40.6	17.6	1,470.8	5.4
Red maple	30.8	40.8	55.4	32.7	16.1	17.6	9.9	2.5	.0	2.5	208.4	9.6
Sugar maple	12.8	21.0	34.6	37.0	29.9	34.9	30.6	20.5	43.2	.0	264.5	12.9
Yellow birch	9.9	18.3	25.2	28.0	15.3	12.7	11.1	8.7	10.1	.0	139.3	10.8
Paper birch	21.8	35.4	29.4	13.8	8.0	4.4	.0	.0	1.7	.0	114.5	15.3
Gray birch	3.1	2.7	.3	.0	.0	.0	.0	.0	.0	.0	6.0	44.8
Beech	21.6	36.0	48.6	26.3	18.4	5.3	2.1	.7	.0	.0	159.1	13.7
White ash	4.5	6.7	6.3	2.5	3.4	1.4	.0	.0	.0	.0	24.8	26.8
Black ash	2.2	2.3	1.3	1.0	.8	.7	.0	.0	.0	.0	8.4	35.6
Aspen	16.3	33.1	29.9	22.3	19.0	9.9	4.6	6.1	2.3	.0	143.5	18.5
Red oaks	.4	.9	1.0	1.3	.6	2.0	1.1	.0	3.7	.0	10.9	63.2
Basswood	.2	.1	.5	.9	.0	.0	.0	.0	.0	.0	1.8	81.7
Elm	.4	.8	.0	.0	.0	.0	.0	.0	.0	.0	1.2	55.5
Other hardwoods	.4	2.1	.6	.0	.0	.7	.0	.0	.0	.0	3.8	36.4
Total hardwoods	124.3	200.1	233.1	165.9	111.8	89.7	59.4	38.4	61.0	2.5	1,086.1	5.3
Total, all species	355.7	535.2	531.1	392.3	254.9	186.3	117.2	62.6	101.6	20.1	2,556.9	3.6
SE	4.6	4.8	4.7	5.1	7.1	8.8	11.8	16.4	20.3	51.4	3.6	

Table 76. Net volume of growing-stock trees on timberland by forest type and stand-size class, Piscataquis County, Maine, 1995

(In millions of cubic feet)

Forest type	Stand-size class				All classes	SE
	Saw-timber	Pole-timber	Sapling and seedling	Non-stocked		
White pine	19.4	.0	2.1	.0	21.5	65.5
Hemlock	41.4	.0	1.1	.0	42.5	62.3
White/red pine group	60.8	.0	3.2	.0	64.0	46.9
Balsam fir	4.4	118.9	45.5	.3	169.1	23.4
Red spruce	193.1	171.0	.0	.0	364.1	19.4
Red spruce/balsam fir	199.4	43.0	24.5	.0	266.8	21.6
White spruce	2.5	12.0	.0	.0	14.5	84.5
Black spruce	.0	26.9	2.3	.0	29.2	66.5
Northern white-cedar	233.3	65.4	2.8	.0	301.6	20.6
Tamarack	16.8	15.2	.0	.0	32.0	59.2
Spruce/fir group	649.5	452.3	75.1	.3	1,177.2	8.1
Northern red oak	9.3	.0	.0	.0	9.3	100.0
Red maple/central hardwood	.0	.0	2.1	.0	2.1	100.0
Oak/hickory group	9.3	.0	2.1	.0	11.4	83.8
Black ash/Amer. elm/red maple	4.7	.0	4.5	.0	9.2	62.1
Red maple(upland)	.0	11.7	.0	.0	11.7	100.0
Elm/ash/red maple group	4.7	11.7	4.5	.0	20.9	62.4
Sugar maple/beech/yellow birch	569.5	201.7	14.6	.0	785.8	9.5
Black Cherry	.0	.0	1.4	.0	1.4	100.0
Red maple/northern hardwoods	24.9	107.0	10.0	.0	141.9	27.5
Pin cherry/reverting field	.0	1.4	.0	.0	1.4	82.8
Mixed northern hardwoods	12.1	82.4	5.4	.0	99.8	31.6
Northern hardwoods group	606.5	392.5	31.5	.0	1,030.4	7.8
Aspen	31.2	117.1	6.1	.0	154.4	27.9
Paper birch	2.3	80.5	14.2	.0	97.0	31.1
Gray birch	1.7	.0	.0	.0	1.7	100.0
Aspen/birch group	35.2	197.6	20.3	.0	253.1	20.5
All forest types	1,365.9	1,054.0	136.7	.3	2,556.9	3.6
SE	8.0	8.3	13.0	100.0	3.6	

Table 77. Net volume of sawtimber trees on timberland by species and diameter class, Piscataquis County, Maine, 1995

(In millions of board feet)

Species group	Diameter class (inches at breast height)								All classes	SE
	9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 28.9	29.0+		
Balsam fir	206.6	103.7	36.2	17.1	5.7	.0	.0	.0	369.3	14.2
Tamarack	12.4	8.8	6.7	8.2	3.7	.0	.0	.0	39.8	51.2
White spruce	53.8	72.7	32.1	36.2	6.7	.0	12.2	.0	213.8	24.2
Black spruce	32.7	29.3	12.0	6.0	.0	.0	.0	.0	80.0	42.0
Red spruce	528.8	454.0	259.1	142.1	71.6	30.7	9.0	.0	1,495.2	10.6
Red pine	1.2	.0	.0	.0	.0	.0	.0	.0	1.2	100.0
White pine	13.4	34.5	43.4	39.9	50.2	29.0	104.7	96.4	411.5	22.5
Northern white-cedar	125.7	151.3	171.2	126.6	97.1	27.0	23.8	.0	722.7	13.8
Hemlock	39.0	35.6	40.7	44.9	27.0	27.4	53.5	.0	268.1	21.5
Total softwoods	1,013.6	889.8	601.4	421.0	262.0	114.1	203.2	96.4	3,601.6	6.6
Red maple	.0	132.1	68.2	81.1	45.6	11.5	.0	15.5	354.0	14.2
Sugar maple	.0	154.7	133.7	159.2	148.2	98.8	210.2	.0	904.8	15.8
Yellow birch	.0	119.2	66.0	56.7	48.4	37.8	48.6	.0	376.7	14.5
Paper birch	.0	62.5	33.9	18.0	.0	.0	9.4	.0	123.7	21.2
Beech	.0	112.6	89.6	26.3	7.7	4.5	.0	.0	240.7	19.2
White ash	.0	9.5	14.3	6.4	.0	.0	.0	.0	30.2	41.8
Black ash	.0	4.3	4.0	3.3	.0	.0	.0	.0	11.6	63.9
Aspen	.0	97.1	83.2	47.7	14.6	32.3	9.9	.0	284.7	24.8
Red oaks	.0	4.9	2.5	7.7	5.3	.0	16.9	.0	37.3	67.2
Basswood	.0	3.7	.0	.0	.0	.0	.0	.0	3.7	100.0
Other hardwoods	.0	.0	.0	2.8	.0	.0	.0	.0	2.8	100.0
Total hardwoods	.0	700.5	495.3	409.3	269.8	185.0	294.9	15.5	2,370.3	7.7
Total, all species	1,013.6	1,590.3	1,096.7	830.3	531.9	299.1	498.1	111.9	5,971.9	5.0
SE	7.3	5.2	7.3	8.8	12.1	16.3	20.5	50.9	5.0	

Table 78. Number of growing-stock trees (5.0+ inches d.b.h.) on timberland by species and diameter class, Piscataquis County, Maine, 1995

(In thousands of trees)

Species group	Diameter class (inches at breast height)										All classes	SE
	5.0- 6.9	7.0- 8.9	9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 28.9	29.0+		
Balsam fir	34,383	15,936	5,278	1,555	297	125	32	0	0	0	57,605	7.4
Tamarack	1,286	552	370	156	92	65	33	0	0	0	2,553	48.1
White spruce	3,451	2,847	1,330	929	294	223	29	0	36	0	9,139	17.5
Black spruce	3,960	2,381	781	346	96	32	0	0	0	0	7,598	38.9
Red spruce	28,632	22,403	13,038	6,393	2,288	959	327	95	33	0	74,169	9.9
Red pine	130	32	32	0	0	0	0	0	0	0	195	100.0
White pine	657	434	532	605	485	288	315	116	316	99	3,846	25.3
Northern white-cedar	7,703	7,731	5,586	3,940	2,887	1,551	868	188	97	0	30,552	13.0
Hemlock	1,790	1,697	1,256	649	537	438	169	135	203	0	6,874	22.9
Total softwoods	81,994	54,014	28,204	14,572	6,976	3,681	1,773	535	684	99	192,531	5.0
Red maple	13,591	7,575	6,169	2,456	896	688	338	68	0	34	31,814	8.6
Sugar maple	5,442	3,959	3,507	2,528	1,568	1,362	895	511	733	0	20,505	11.0
Yellow birch	4,820	3,577	2,897	2,132	845	529	390	230	201	0	15,621	8.9
Paper birch	8,284	5,725	2,890	960	398	165	0	0	33	0	18,454	14.2
Gray birch	1,253	477	32	0	0	0	0	0	0	0	1,762	40.5
Beech	10,177	7,038	5,385	1,869	1,002	263	98	33	0	0	25,865	12.0
White ash	1,532	982	588	191	162	62	0	0	0	0	3,517	23.6
Black ash	915	451	163	66	33	33	0	0	0	0	1,661	29.8
Aspen	4,823	5,015	2,545	1,464	850	331	98	134	37	0	15,297	21.5
Red oaks	124	161	89	92	29	89	29	0	63	0	677	59.6
Basswood	64	32	66	66	0	0	0	0	0	0	228	62.5
Elm	185	125	0	0	0	0	0	0	0	0	309	51.8
Other hardwoods	271	387	64	0	0	32	0	0	0	0	754	36.2
Total hardwoods	51,481	35,502	24,396	11,823	5,783	3,553	1,848	975	1,066	34	136,464	5.1
Total, all species	133,475	89,516	52,600	26,396	12,759	7,233	3,621	1,510	1,751	133	328,994	3.4
SE	4.2	4.4	4.4	5.0	7.1	8.7	11.0	15.6	18.9	48.4	3.4	

Table 79. Average annual net change of growing-stock volume on timberland by species and component of change, Piscataquis County, Maine, 1995

(In thousands of cubic feet)

Species group	Component of change								Net change
	Ingrowth	Accretion	Gross growth	Mortality	Cull decrement	Cull increment	Net growth	Removals	
Balsam fir	7,055	6,082	13,137	-20,347	699	-255	-6,765	-19,538	-26,303
Tamarack	220	305	525	-150	23	0	399	-50	349
White spruce	533	2,197	2,730	-835	136	-106	1,924	-3,629	-1,705
Black spruce	356	1,019	1,375	-406	45	-17	996	-916	80
Red spruce	3,098	10,112	13,210	-7,841	1,249	-369	6,248	-33,714	-27,466
White pine	207	2,127	2,333	-298	0	-131	1,904	-3,886	-1,982
Northern white-cedar	801	3,315	4,116	-3,599	2,041	-2,766	-207	-3,985	-4,193
Hemlock	264	1,405	1,669	-172	721	-43	2,175	-1,512	663
Total softwoods	12,535	26,561	39,095	-33,649	4,915	-3,687	6,675	-67,231	-60,557
Red maple	1,900	3,370	5,270	-1,134	1,053	-756	4,433	-3,628	805
Sugar maple	895	1,726	2,621	-1,256	2,200	-1,677	1,889	-3,869	-1,980
Yellow birch	729	2,224	2,952	-833	974	-370	2,723	-1,577	1,145
Paper birch	591	784	1,376	-1,177	208	-207	199	-1,999	-1,800
Gray birch	118	74	191	-342	113	-51	-89	-58	-146
Beech	1,652	1,775	3,427	-1,614	1,607	-643	2,777	-1,570	1,207
White ash	373	701	1,074	-244	0	-61	769	-557	212
Black ash	48	88	137	-311	118	0	-56	-520	-576
Aspen	2,739	3,017	5,755	-1,619	445	-245	4,336	-7,162	-2,826
Red oaks	136	406	542	0	82	0	624	0	624
Basswood	25	25	50	-34	35	0	51	-69	-18
Elm	21	45	65	0	0	0	65	0	65
Other hardwoods	47	-3	44	0	69	0	113	0	113
Total hardwoods	9,275	14,231	23,506	-8,564	6,903	-4,010	17,835	-21,010	-3,175
Total, all species	21,809	40,792	62,601	-42,213	11,818	-7,697	24,509	-88,241	-63,732
SE	7.8	6.7	5.7	8.2	14.4	18.3	23.0	9.7	

NOTE: Removals and mortality volumes for all tables containing these estimates are calculated using each trees' diameter breast height that was measured during the 1982 inventory, if the tree is no longer present.

Table 80. Area of timberland by forest type, forest-type group, and stand-size class, Somerset County, Maine, 1982

(In thousands of acres)						
Forest type	Stand-size class				All classes	SE
	Saw-timber	Pole-timber	Sapling and seedling	Non-stocked		
Red pine	10.4	.0	.0	.0	10.4	100.0
White pine	10.3	20.7	.0	.0	31.1	57.5
Hemlock	10.3	31.0	.0	.0	41.4	49.9
White/red pine group	31.0	51.7	.0	.0	82.8	34.9
Balsam fir	72.7	279.7	93.2	.0	445.6	13.5
Red spruce	31.0	114.4	10.3	.0	155.8	25.1
Red spruce/balsam fir	114.4	207.8	41.4	.0	363.6	15.5
Black spruce	.0	31.1	41.4	.0	72.5	37.3
Northern white-cedar	51.7	41.7	.0	.0	93.4	32.3
Spruce/fir group	269.9	674.7	186.3	.0	1,130.9	6.9
Black ash/Amer. elm/red maple	.0	20.7	10.4	.0	31.1	57.5
Elm/ash/red maple group	.0	20.7	10.4	.0	31.1	57.5
Sugar maple/beech/yellow birch	374.0	228.5	20.7	.0	623.2	10.7
Black Cherry	.0	.0	10.4	.0	10.4	100.0
Red maple/northern hardwoods	10.6	72.4	41.4	.0	124.5	27.8
Pin cherry/reverting field	.0	.0	20.7	.0	20.7	70.3
Mixed northern hardwoods	20.7	20.7	31.0	.0	72.4	37.3
Northern hardwoods group	405.3	321.7	124.2	.0	851.2	8.8
Aspen	10.6	72.5	31.1	.0	114.2	29.1
Paper birch	10.3	83.1	20.7	.0	114.1	29.5
Gray birch	.0	10.4	.0	.0	10.4	100.0
Aspen/birch group	21.0	165.9	51.8	.0	238.7	19.7
All forest types	727.2	1,234.7	372.6	.0	2,334.6	.5
SE	9.5	6.3	15.1	.0	.5	

Table 81. Area of timberland by forest type, forest-type group, and stand-size class, Somerset County, Maine, 1995

(In thousands of acres)

Forest type	Stand-size class				All classes	SE
	Saw-timber	Pole-timber	Sapling and seedling	Non-stocked		
White pine	28.8	6.8	.6	2.2	38.5	36.6
White pine/hemlock	13.7	.0	.0	.0	13.7	70.7
Hemlock	26.4	13.3	6.6	.0	46.3	37.6
White/red pine group	68.8	20.1	7.2	2.2	98.4	24.6
Balsam fir	21.0	103.7	166.1	.0	290.8	13.4
Red spruce	58.5	45.7	6.6	.0	110.8	23.8
Red spruce/balsam fir	60.6	85.9	74.8	.0	221.2	16.4
White spruce	.0	.0	6.6	.0	6.6	100.0
Black spruce	.0	20.0	6.5	.0	26.5	48.2
Northern white-cedar	79.0	62.0	6.6	.0	147.6	20.0
Tamarack	.0	6.5	12.8	.0	19.3	57.8
Spruce/fir group	219.2	323.7	280.0	.0	822.9	6.8
Black ash/Amer. elm/red maple	6.8	13.5	.0	.0	20.3	57.5
Red maple(lowland)	.0	6.6	7.6	.0	14.2	70.9
Red maple(upland)	.0	.0	13.4	.0	13.4	70.7
Willow	6.7	.0	33.2	.0	39.8	40.6
Elm/ash/red maple group	13.5	20.1	54.2	.0	87.8	27.1
Sugar maple/beech/yellow birch	411.9	201.6	34.5	.0	648.0	8.0
Black Cherry	.0	.0	5.7	.0	5.7	100.0
Red maple/northern hardwoods	49.0	105.9	81.4	.0	236.3	15.8
Pin cherry/reverting field	.0	.0	43.9	.0	43.9	38.5
Mixed northern hardwoods	68.2	52.9	26.5	.0	147.6	20.6
Northern hardwoods group	529.1	360.4	192.1	.0	1,081.6	5.4
Aspen	13.6	32.3	52.8	.0	98.6	25.0
Paper birch	13.5	84.2	45.5	.0	143.2	20.9
Gray birch	.0	13.5	7.2	.0	20.6	56.0
Aspen/birch group	27.1	130.0	105.4	.0	262.4	15.1
All forest types	857.7	854.3	638.9	2.2	2,353.2	.8
SE	6.7	6.8	7.1	100.0	.8	

Table 82. Net volume of growing-stock trees on timberland by species and diameter class, Somerset County, Maine, 1982

(In millions of cubic feet)

Species group	Diameter class (inches at breast height)										All classes
	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0+	
Balsam fir	184.7	264.6	141.2	60.8	28.8	5.8	.0	.0	.0	.0	685.9
Tamarack	4.5	4.6	2.2	.7	2.0	3.2	.0	.0	.0	.0	17.2
White spruce	13.2	7.4	12.6	9.0	6.8	6.9	.0	.0	.0	.0	55.8
Black spruce	21.9	14.6	10.2	2.7	.0	.0	1.2	.0	.0	.0	50.7
Red spruce	136.1	184.2	158.2	108.3	79.1	19.9	.0	1.9	.0	.0	687.7
Red pine	.0	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	2.2
White pine	5.4	14.2	17.5	21.5	16.2	4.8	9.5	9.7	1.1	.0	99.9
Northern white-cedar	20.8	45.6	47.3	44.4	34.1	16.3	7.9	1.6	4.1	.0	222.0
Hemlock	11.9	29.9	27.6	32.3	22.8	7.8	.0	.0	3.2	.0	135.7
Total softwoods	398.5	565.2	417.5	279.9	191.0	64.6	18.7	13.1	8.3	.0	1,956.8
Red Maple	36.2	54.6	71.0	47.1	33.7	23.8	16.0	7.7	2.6	.0	292.9
Sugar maple	22.9	40.2	41.0	36.3	43.0	26.4	10.4	15.9	18.5	.0	256.7
Yellow birch	16.8	19.9	23.5	29.4	31.4	28.2	7.7	6.2	25.6	6.1	194.6
Paper birch	47.3	44.9	49.2	35.1	12.5	.0	3.0	.0	.0	.0	192.2
Gray birch	11.0	2.8	1.0	.3	.0	.0	.0	.0	.0	.0	15.1
Beech	13.4	19.8	17.8	20.8	10.8	16.4	8.9	.0	.0	.0	107.8
White ash	5.6	13.7	6.2	12.6	.0	5.4	.0	.0	.0	.0	43.7
Black ash	2.1	2.7	2.5	5.0	.7	1.9	.0	.0	.0	.0	14.8
Aspen	50.2	40.4	15.0	14.7	26.5	1.1	9.7	.0	.0	.0	157.6
White oaks	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.6
Red oaks	.4	1.1	.4	.1	.8	.0	.0	.0	3.7	.0	6.5
Basswood	.1	3.0	.0	1.2	4.3	.6	3.0	3.3	.0	.0	15.6
Elm	.5	.6	.9	.0	2.5	.0	.0	.0	.0	.0	4.6
Other hardwoods	1.0	2.7	.0	.0	.7	1.0	.0	.0	.0	.0	5.4
Total hardwoods	207.5	246.6	228.6	202.4	166.9	106.0	58.8	33.2	50.2	6.1	1,306.6
Total, all species	606.4	811.8	646.2	482.3	358.0	170.6	77.5	46.3	58.5	6.1	3,263.4

Table 83. Net volume of growing-stock trees on timberland by species and diameter class, Somerset County, Maine, 1995

(In millions of cubic feet)

Species group	Diameter class (inches at breast height)										All classes	SE
	5.0- 6.9	7.0- 8.9	9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 28.9	29.0+		
Balsam fir	107.8	108.5	77.4	38.3	13.0	3.0	.0	.0	.0	.0	348.0	8.4
Tamarack	3.1	3.7	2.3	.0	.0	.9	1.2	.0	.0	.0	11.2	49.3
White spruce	4.4	11.0	6.4	6.3	5.0	8.0	.0	.0	.0	.0	41.0	20.5
Black spruce	18.7	15.8	6.8	3.8	.0	.0	1.2	.0	.0	.0	46.4	35.3
Red spruce	61.5	99.8	100.7	93.1	60.9	25.1	8.9	7.7	2.8	.0	460.5	11.6
Red pine	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	100.0
White pine	5.6	11.4	15.0	17.5	20.3	22.6	11.1	7.3	22.0	.0	132.8	27.8
Northern white-cedar	25.3	37.3	35.6	39.2	34.1	21.7	10.5	6.6	1.5	.0	211.7	13.2
Hemlock	12.4	24.4	18.9	22.2	17.0	15.3	11.6	5.5	3.2	.0	130.6	18.5
Other softwoods	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	100.0
Total softwoods	238.9	312.0	263.3	220.9	150.3	96.5	44.5	27.1	29.4	.0	1,382.9	6.0
Red maple	44.2	69.8	60.1	50.3	33.8	17.0	10.8	2.5	9.1	.0	297.6	8.0
Sugar maple	22.8	42.8	50.1	40.9	48.1	33.2	25.3	16.1	14.7	.0	294.1	11.9
Yellow birch	14.8	23.2	29.3	22.1	23.4	20.8	14.9	8.0	10.8	10.4	177.6	10.7
Paper birch	35.4	55.9	43.9	22.0	6.2	5.1	.0	.0	.0	.0	168.6	13.3
Gray birch	9.2	2.8	.0	.3	.0	.0	.0	.0	.0	.0	12.3	34.3
Beech	15.1	24.9	31.0	15.9	12.3	8.2	3.6	.8	.0	.0	111.8	16.8
White ash	7.7	12.5	12.1	9.8	9.2	4.1	1.0	.0	.0	.0	56.4	22.1
Black ash	4.4	5.7	2.4	1.8	.9	1.4	.0	.0	.0	.0	16.5	32.1
Aspen	13.0	26.2	23.9	19.1	14.0	14.3	6.3	2.8	4.2	.0	123.8	20.5
White oaks	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.6	100.0
Red oaks	.4	.2	.4	1.0	.8	.8	.0	.0	.0	.0	3.7	49.6
Basswood	1.3	3.0	2.2	2.6	2.1	3.8	.0	.0	.0	.0	15.1	31.0
Elm	.9	1.1	.2	.3	.0	.0	.0	.0	.0	.0	2.5	32.8
Other hardwoods	1.3	.8	1.5	.0	1.5	.0	.0	.0	.0	.0	5.0	40.0
Total hardwoods	170.4	268.9	257.2	186.0	152.3	109.4	61.9	30.2	38.7	10.4	1,285.5	5.3
Total, all species	409.3	580.9	520.6	406.9	302.6	205.9	106.4	57.4	68.1	10.4	2,668.4	3.6
SE	4.9	4.4	4.7	5.7	6.9	9.0	12.8	17.6	20.6	78.3	3.6	

Table 84. Net volume of growing-stock trees on timberland by forest type and stand-size class, Somerset County, Maine, 1995

(In millions of cubic feet)

Forest type	Stand-size class				All classes	SE
	Saw-timber	Pole-timber	Sapling and seedling	Non-stocked		
White pine	77.0	11.4	.0	.0	88.4	45.6
White pine/hemlock	33.1	.0	.0	.0	33.1	75.6
Hemlock	36.4	23.1	.3	.0	59.8	43.0
White/red pine group	146.4	34.6	.3	.0	181.3	29.5
Balsam fir	26.7	104.1	29.1	.0	159.9	21.1
Red spruce	129.6	96.2	2.0	.0	227.7	26.3
Red spruce/balsam fir	128.7	118.5	5.1	.0	252.4	22.2
White spruce	.0	.0	3.0	.0	3.0	100.0
Black spruce	.0	25.3	2.9	.0	28.2	52.0
Northern white-cedar	143.5	64.9	.0	.0	208.3	22.8
Tamarack	.0	2.8	8.8	.0	11.5	67.9
Spruce/fir group	428.5	411.7	50.9	.0	891.1	10.0
Black ash/Amer. elm/red maple	7.5	9.4	.0	.0	16.9	60.2
Red maple(lowland)	.0	4.2	.9	.0	5.1	84.6
Red maple(upland)	.0	.0	1.0	.0	1.0	100.0
Willow	2.1	.0	3.8	.0	6.0	50.0
Elm/ash/red maple group	9.6	13.6	5.7	.0	29.0	39.0
Sugar maple/beech/yellow birch	637.5	234.8	1.8	.0	874.2	9.7
Black Cherry	.0	.0	1.1	.0	1.1	100.0
Red maple/northern hardwoods	91.2	132.4	17.8	.0	241.4	19.8
Pin cherry/reverting field	.0	.0	6.6	.0	6.6	72.4
Mixed northern hardwoods	138.6	47.0	5.4	.0	190.9	25.0
Northern hardwoods group	867.3	414.2	32.7	.0	1,314.3	6.9
Aspen	25.0	47.7	3.5	.0	76.3	41.3
Paper birch	14.8	142.2	3.7	.0	160.7	26.4
Gray birch	.0	15.9	.0	.0	15.9	70.8
Aspen/birch group	39.8	205.8	7.2	.0	252.8	20.9
All forest types	1,491.5	1,080.0	96.9	.0	2,668.4	3.6
SE	7.5	8.1	15.0	.0	3.6	

Table 85. Net volume of sawtimber trees on timberland by species and diameter class, Somerset County, Maine, 1995

(In millions of board feet)

Species group	Diameter class (inches at breast height)								All classes	SE
	9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 28.9	29.0+		
Balsam fir	271.9	162.6	58.5	15.6	.0	.0	.0	.0	508.5	13.5
Tamarack	7.6	.0	.0	3.3	4.9	.0	.0	.0	15.8	46.1
White spruce	22.3	27.6	23.2	40.5	.0	.0	.0	.0	113.6	29.0
Black spruce	23.7	16.7	.0	.0	5.9	.0	.0	.0	46.3	39.9
Red spruce	360.3	394.8	280.2	120.1	45.1	40.3	15.1	.0	1,256.0	13.4
Red pine	.0	1.7	.0	.0	.0	.0	.0	.0	1.7	100.0
White pine	51.2	69.9	92.5	106.2	51.3	35.6	113.8	.0	520.6	28.2
Northern white-cedar	93.0	124.3	120.8	78.1	41.4	28.7	7.4	.0	493.7	15.4
Hemlock	61.8	81.3	68.6	67.0	51.9	24.5	17.2	.0	372.2	22.2
Other softwoods	.8	.0	.0	.0	.0	.0	.0	.0	.8	100.0
Total softwoods	892.7	878.8	643.8	430.7	200.5	129.1	153.5	.0	3,329.2	8.3
Red maple	.0	208.4	147.9	75.5	43.1	11.9	43.1	.0	529.8	12.5
Sugar maple	.0	167.1	209.9	150.1	116.5	80.3	74.9	.0	798.8	14.6
Yellow birch	.0	96.2	101.8	90.0	67.1	38.5	48.4	58.3	500.3	16.0
Paper birch	.0	96.7	27.1	21.5	.0	.0	.0	.0	145.3	20.8
Gray birch	.0	1.2	.0	.0	.0	.0	.0	.0	1.2	100.0
Beech	.0	73.1	54.4	41.1	19.1	3.4	.0	.0	191.1	25.6
White ash	.0	43.8	40.4	18.9	4.5	.0	.0	.0	107.7	29.6
Black ash	.0	6.7	3.1	7.1	.0	.0	.0	.0	16.9	53.3
Aspen	.0	82.0	62.8	65.8	29.1	13.3	20.1	.0	273.0	23.9
White oaks	.0	.0	.0	2.4	.0	.0	.0	.0	2.4	100.0
Red oaks	.0	4.6	2.5	4.0	.0	.0	.0	.0	11.1	68.6
Basswood	.0	10.9	9.2	19.6	.0	.0	.0	.0	39.6	41.4
Elm	.0	1.2	.0	.0	.0	.0	.0	.0	1.2	100.0
Other hardwoods	.0	.0	4.8	.0	.0	.0	.0	.0	4.8	71.1
Total hardwoods	.0	791.9	663.7	496.0	279.5	147.4	186.5	58.3	2,623.3	8.3
Total, all species	892.7	1,670.8	1,307.5	926.8	480.0	276.5	340.0	58.3	5,952.5	5.6
SE	7.8	5.9	7.1	9.2	13.2	17.9	20.8	82.3	5.6	

Table 86. Number of growing-stock trees (5.0+ inches d.b.h.) on timberland by species and diameter class, Somerset County, Maine, 1995

(In thousands of trees)												
Species group	Diameter class (inches at breast height)										All classes	SE
	5.0-	7.0-	9.0-	11.0-	13.0-	15.0-	17.0-	19.0-	21.0-			
	6.9	8.9	10.9	12.9	14.9	16.9	18.9	20.9	28.9	29.0+		
Balsam fir	42,162	18,275	7,205	2,329	548	102	0	0	0	0	70,622	7.4
Tamarack	1,038	637	298	0	0	33	33	0	0	0	2,039	51.3
White spruce	1,536	1,843	569	366	198	231	0	0	0	0	4,743	18.6
Black spruce	5,669	2,444	629	231	0	0	33	0	0	0	9,007	40.4
Red spruce	21,143	15,708	9,105	5,483	2,442	816	210	139	35	0	55,082	11.4
Red pine	0	0	0	34	0	0	0	0	0	0	34	100.0
White pine	2,333	1,989	1,397	1,124	962	813	302	169	365	0	9,455	25.0
Northern white-cedar	11,276	8,365	4,552	3,290	2,099	1,063	396	164	33	0	31,239	13.6
Hemlock	5,001	4,771	2,070	1,648	942	611	337	137	35	0	15,551	16.7
Other softwoods	0	0	33	0	0	0	0	0	0	0	33	100.0
Total softwoods	90,159	54,031	25,859	14,505	7,191	3,669	1,311	610	470	0	197,805	5.1
Red maple	19,785	13,362	6,701	3,668	1,750	740	367	68	202	0	46,643	7.6
Sugar maple	9,220	7,376	5,308	2,846	2,478	1,358	843	405	269	0	30,103	10.7
Yellow birch	6,263	4,610	3,446	1,720	1,394	874	537	271	234	67	19,415	8.3
Paper birch	13,199	9,678	4,607	1,620	339	170	0	0	0	0	29,614	13.8
Gray birch	3,450	568	0	33	0	0	0	0	0	0	4,051	34.1
Beech	7,398	4,996	3,468	1,146	677	372	131	33	0	0	18,221	14.5
White ash	3,119	2,107	1,093	583	417	138	34	0	0	0	7,492	18.7
Black ash	2,007	1,109	270	134	67	67	0	0	0	0	3,655	27.6
Aspen	4,117	3,923	2,259	1,193	681	514	170	35	68	0	12,961	23.1
White oaks	0	0	0	0	0	33	0	0	0	0	33	100.0
Red oaks	134	34	38	68	35	34	0	0	0	0	344	36.9
Basswood	580	580	237	171	105	137	0	0	0	0	1,810	36.8
Elm	504	268	34	33	0	0	0	0	0	0	839	32.6
Other hardwoods	761	233	166	0	67	0	0	0	0	0	1,228	34.0
Total hardwoods	70,539	48,845	27,628	13,216	8,012	4,437	2,081	812	773	67	176,412	4.3
Total, all species	160,698	102,877	53,487	27,721	15,203	8,106	3,392	1,422	1,243	67	374,217	3.2
SE	4.4	4.1	4.5	5.3	6.4	8.6	12.1	17.2	19.6	70.7	3.2	

Table 87. Average annual net change of growing-stock volume on timberland by species and component of change, Somerset County, Maine, 1995

(In thousands of cubic feet)

Species group	Component of change								Net change
	Ingrowth	Accretion	Gross growth	Mortality	Cull decrement	Cull increment	Net growth	Removals	
Balsam fir	5,791	5,422	11,213	-13,938	741	-101	-2,085	-20,193	-22,279
Tamarack	23	93	116	-277	19	0	-141	-211	-352
White spruce	555	822	1,377	-338	31	-47	1,022	-1,972	-950
Black spruce	231	185	416	-655	26	0	-213	-72	-285
Red spruce	2,037	8,055	10,092	-4,421	371	-260	5,783	-20,360	-14,577
Red pine	0	27	27	0	0	0	27	-122	-95
White pine	663	4,700	5,363	-292	79	-154	4,997	-2,824	2,172
Northern white-cedar	656	1,402	2,058	-1,193	1,194	-1,849	211	-873	-662
Hemlock	1,185	2,466	3,651	-466	559	-515	3,230	-3,272	-42
Other softwoods	0	46	46	0	0	0	46	0	46
Total softwoods	11,142	23,217	34,359	-21,578	3,020	-2,925	12,875	-49,900	-37,025
Red maple	2,813	3,510	6,323	-1,317	1,721	-1,345	5,381	-5,015	367
Sugar maple	1,137	3,600	4,737	-1,369	1,813	-681	4,499	-1,875	2,624
Yellow birch	831	2,188	3,019	-1,496	1,307	-1,918	912	-2,011	-1,099
Paper birch	1,676	2,291	3,967	-1,608	197	-323	2,233	-3,676	-1,442
Gray birch	294	83	377	-533	129	-53	-80	-106	-186
Beech	1,226	1,046	2,272	-829	1,488	-427	2,503	-2,188	315
White ash	597	1,575	2,172	-264	192	-290	1,810	-572	1,238
Black ash	257	137	393	-179	106	-125	195	-95	100
Aspen	1,084	4,595	5,679	-2,007	440	-86	4,026	-5,705	-1,679
Red oaks	0	74	74	0	0	0	74	-244	-169
Basswood	51	142	193	-199	213	0	208	-221	-13
Elm	121	0	121	-243	0	0	-123	0	-123
Other hardwoods	63	77	140	-133	55	-65	-3	0	-3
Total hardwoods	10,149	19,318	29,467	-10,177	7,662	-5,316	21,636	-21,709	-72
Total, all species	21,291	42,536	63,826	-31,756	10,682	-8,241	34,512	-71,609	-37,097
SE	6.5	9.1	6.7	9.2	12.3	11.7	15.9	12.2	

NOTE: Removals and mortality volumes for all tables containing these estimates are calculated using each trees' diameter breast height that was measured during the 1982 inventory, if the tree is no longer present.

Table 88. Area of timberland by forest type, forest-type group, and stand-size class, Washington County, Maine, 1982

(In thousands of acres)

Forest type	Stand-size class				All classes	SE
	Saw-timber	Pole-timber	Sapling and seedling	Non-stocked		
White pine/hemlock	10.8	.0	.0	.0	10.8	100.0
Hemlock	43.2	32.5	.0	.0	75.7	36.6
White/red pine group	54.0	32.5	.0	.0	86.5	34.1
Balsam fir	32.4	97.2	99.2	.0	228.9	20.3
Red spruce	32.4	107.8	10.8	.0	150.9	24.8
Red spruce/balsam fir	75.6	183.8	87.3	.0	346.7	15.6
White spruce	10.8	.0	10.8	.0	21.6	70.7
Black spruce	.0	10.8	32.9	.0	43.7	49.8
Northern white-cedar	.0	32.4	10.8	.0	43.2	49.4
Tamarack	.0	.0	10.8	.0	10.8	100.0
Spruce/fir group	151.2	432.0	262.7	.0	845.9	7.4
Mixed central hardwoods	.0	10.8	10.8	.0	21.6	70.7
Oak/hickory group	.0	10.8	10.8	.0	21.6	70.7
Black ash/Amer. elm/red maple	.0	.0	10.8	.0	10.8	100.0
Elm/ash/red maple group	.0	.0	10.8	.0	10.8	100.0
Sugar maple/beech/yellow birch	75.7	54.0	43.3	.0	173.0	23.2
Red maple/northern hardwoods	10.8	65.4	22.6	.0	98.7	31.8
Pin cherry/reverting field	.0	.0	22.1	.0	22.1	70.7
Northern hardwoods group	86.4	119.4	88.0	.0	293.8	17.1
Aspen	10.8	43.8	77.0	.0	131.5	28.0
Paper birch	.0	21.7	10.8	.0	32.5	57.4
Gray birch	.0	.0	66.3	.0	66.3	38.7
Aspen/birch group	10.8	65.4	154.2	.0	230.4	19.7
All forest types	302.4	660.2	526.4	.0	1,489.0	1.6
SE	16.3	9.2	10.6	.0	1.6	

Table 89. Area of timberland by forest type, forest-type group, and stand-size class, Washington County, Maine, 1995

(In thousands of acres)

Forest type	Stand-size class				All classes	SE
	Saw-timber	Pole-timber	Sapling and seedling	Non-stocked		
Jack pine	.0	6.4	.0	.0	6.4	100.0
Red pine	12.5	6.6	.0	.0	19.0	57.5
White pine	6.7	.3	.0	.0	7.0	95.7
White pine/hemlock	13.2	.0	.0	.0	13.2	70.7
Hemlock	39.4	33.0	.0	.0	72.3	29.4
White/red pine group	71.8	46.2	.0	.0	118.0	22.5
Balsam fir	8.9	52.8	102.4	6.3	170.4	18.6
Red spruce	32.5	76.3	6.7	.0	115.5	23.0
Red spruce/balsam fir	27.2	103.6	79.7	.0	210.4	16.3
White spruce	6.6	23.4	12.9	.0	42.9	38.0
Black spruce	.0	14.0	6.6	.0	20.6	57.9
Northern white-cedar	71.9	45.8	6.4	.0	124.0	21.5
Tamarack	6.6	6.2	.0	.0	12.8	70.7
Spruce/fir group	153.6	322.1	214.6	6.3	696.6	6.8
Wh. pine/no.red oak/wh. ash	.0	6.5	.0	.0	6.5	100.0
Oak/pine group	.0	6.5	.0	.0	6.5	100.0
Northern red oak	.0	.0	6.5	.0	6.5	100.0
Red maple/central hardwood	.0	6.5	.0	.0	6.5	100.0
Mixed central hardwoods	.0	13.1	.0	.0	13.1	70.7
Oak/hickory group	.0	19.6	6.5	.0	26.1	48.9
Red maple(lowland)	.0	6.6	.0	.0	6.6	100.0
Red maple(upland)	.0	13.2	.0	.0	13.2	70.0
Elm/ash/red maple group	.0	19.8	.0	.0	19.8	57.3
Sugar maple/beech/yellow birch	39.6	78.5	.0	.0	118.1	23.0
Red maple/northern hardwoods	26.1	72.0	43.2	.0	141.2	20.4
Pin cherry/reverting field	.0	.0	25.5	.0	25.5	48.9
Mixed northern hardwoods	6.6	26.1	6.6	.0	39.3	40.1
Northern hardwoods group	72.3	176.6	75.2	.0	324.1	12.6
Aspen	.0	33.1	63.2	.0	96.4	24.3
Paper birch	.0	36.2	37.7	.0	73.9	28.1
Gray birch	.0	.0	25.2	.0	25.2	47.4
Aspen/birch group	.0	69.4	126.1	.0	195.4	16.7
All forest types	297.7	660.1	422.4	6.3	1,386.5	1.6
SE	13.4	6.6	9.2	100.0	1.6	

Table 90. Net volume of growing-stock trees on timberland by species and diameter class, Washington County, Maine, 1982

(In millions of cubic feet)

Species group	Diameter class (inches at breast height)										All classes
	5.0- 6.9	7.0- 8.9	9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 28.9	29.0+	
Balsam fir	79.9	54.4	36.1	4.7	3.2	2.0	.0	.0	.0	.0	180.1
Tamarack	2.7	5.4	1.3	1.4	.0	2.6	.0	.0	.0	.0	13.3
White spruce	13.7	16.6	12.3	1.7	2.2	.0	.0	.0	.0	.0	46.5
Black spruce	6.0	5.8	.8	2.2	.0	.0	.0	.0	.0	.0	14.8
Red spruce	82.4	98.5	115.1	73.0	41.9	25.6	17.4	.0	.0	.0	453.8
Red pine	4.9	7.1	7.2	4.3	4.3	.7	.0	1.5	.0	.0	30.0
White pine	3.8	4.5	6.5	15.1	10.9	11.1	7.1	4.0	7.3	5.9	76.2
Northern white-cedar	30.3	41.9	35.1	15.5	7.7	.0	.0	1.4	.0	.0	131.6
Hemlock	17.6	26.5	26.9	25.3	15.0	7.6	7.7	.0	.0	.0	126.7
Other softwoods	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.0
Total softwoods	242.1	260.5	241.0	143.0	85.3	49.5	32.1	6.9	7.3	5.9	1,072.9
Red Maple	20.6	30.9	17.5	19.1	9.8	9.5	2.0	6.3	1.4	.0	117.0
Sugar maple	4.4	6.4	4.3	2.8	1.8	2.0	.7	1.6	9.5	.0	33.4
Yellow birch	5.3	1.0	1.4	2.4	1.9	3.2	.0	3.0	.0	.0	18.3
Paper birch	18.9	20.0	13.8	6.1	8.0	4.0	.9	.0	.0	.0	71.6
Gray birch	1.9	.7	.3	.0	.0	.0	.0	.0	.0	.0	2.9
Beech	1.0	3.5	1.9	.3	.0	1.4	.0	.0	.0	.0	8.1
White ash	.6	.0	.4	.7	.0	1.0	.0	.0	.0	.0	2.7
Black ash	.2	.6	.0	1.0	.5	.0	.0	.0	.0	.0	2.3
Aspen	5.3	9.3	4.7	9.3	1.9	1.6	3.8	2.3	.0	.0	38.1
Red oaks	.0	.0	1.6	1.1	.0	.0	.7	.6	.0	.0	4.0
Other hardwoods	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.9
Total hardwoods	58.1	72.4	45.9	42.8	24.6	22.7	9.1	13.8	10.8	.0	299.4
Total, all species	300.3	332.9	287.0	185.7	109.2	72.1	41.2	20.7	18.1	5.9	1,372.4

Table 91. Net volume of growing-stock trees on timberland by species and diameter class, Washington County, Maine, 1995

(In millions of cubic feet)

Species group	Diameter class (inches at breast height)										All classes	SE
	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0+		
Balsam fir	62.2	56.7	30.8	6.3	2.6	2.0	.0	.0	.0	.0	160.4	13.7
Tamarack	3.0	4.0	3.6	4.5	1.7	1.0	.0	1.3	.0	.0	19.0	44.2
White spruce	12.5	15.2	11.4	6.7	.8	2.5	.0	.0	.0	.0	49.1	24.9
Black spruce	7.1	3.4	2.1	.0	.0	.0	.0	.0	.0	.0	12.6	54.0
Red spruce	54.9	74.8	73.9	52.6	21.3	22.2	4.5	.0	1.3	.0	305.4	10.2
Red pine	4.8	7.5	6.8	4.1	1.8	.7	.0	1.7	.0	.0	27.4	50.7
White pine	4.9	5.4	4.2	9.0	6.3	10.7	6.4	5.1	30.9	9.3	92.2	22.2
Northern white-cedar	28.3	39.8	37.0	32.2	10.7	3.4	.7	1.4	.0	.0	153.3	16.2
Hemlock	15.5	22.9	20.8	21.8	14.8	4.2	4.8	1.3	.0	.0	106.3	19.4
Other softwoods	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.0	100.0
Total softwoods	194.0	229.7	190.5	137.0	60.1	46.6	16.4	10.8	32.2	9.3	926.7	6.2
Red maple	27.8	40.7	31.5	17.8	11.7	7.7	2.8	11.8	3.0	.0	154.8	12.2
Sugar maple	3.8	9.6	6.9	3.2	3.8	2.0	.7	1.6	1.3	.0	32.8	30.1
Yellow birch	4.0	6.1	4.2	2.7	2.4	2.7	.8	2.3	.0	.0	25.3	22.7
Paper birch	22.1	21.7	11.7	3.4	3.2	1.3	.0	1.4	.0	.0	64.7	15.6
Gray birch	2.3	1.0	.3	.0	.0	.0	.0	.0	.0	.0	3.6	29.9
Beech	6.0	5.5	3.3	.3	.0	.0	.5	.0	.0	.0	15.6	29.0
White ash	.4	.2	.4	1.3	.0	1.0	.0	.0	.0	.0	3.3	46.0
Black ash	1.4	.6	.8	.0	.0	.0	.0	.0	.0	.0	2.8	52.8
Aspen	10.2	15.5	10.1	6.2	7.8	2.8	1.0	1.7	.0	.0	55.2	22.4
Red oaks	1.2	1.7	1.2	.8	.9	.0	1.1	.0	.0	.0	6.9	41.1
Other hardwoods	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.9	100.0
Total hardwoods	79.2	102.5	70.4	35.7	29.8	17.5	7.8	18.9	4.3	.0	366.0	7.7
Total, all species	273.3	332.2	260.9	172.7	89.8	64.1	24.2	29.7	36.5	9.3	1,292.8	4.8
SE	5.4	5.4	6.7	8.5	11.3	14.6	26.9	29.5	33.6	100.0	4.8	

Table 92. Net volume of growing-stock trees on timberland by forest type and stand-size class, Washington County, Maine, 1995

(In millions of cubic feet)

Forest type	Stand-size class				All classes	SE
	Saw-timber	Pole-timber	Sapling and seedling	Non-stocked		
Jack pine	.0	1.3	.0	.0	1.3	100.0
Red pine	15.8	8.5	.0	.0	24.3	59.5
White pine	14.1	.0	.0	.0	14.1	100.0
White pine/hemlock	28.1	.0	.0	.0	28.1	74.2
Hemlock	58.8	27.9	.0	.0	86.7	33.2
White/red pine group	116.8	37.7	.0	.0	154.5	25.8
Balsam fir	10.1	60.4	31.6	.0	102.1	26.5
Red spruce	69.9	95.4	1.4	.0	166.8	26.9
Red spruce/balsam fir	46.8	138.2	16.1	.0	201.0	21.7
White spruce	10.9	28.8	1.8	.0	41.5	44.1
Black spruce	.0	13.9	2.6	.0	16.5	62.6
Northern white-cedar	94.7	66.0	3.2	.0	163.8	25.1
Tamarack	6.5	3.8	.0	.0	10.3	73.1
Spruce/fir group	238.8	406.5	56.6	.0	701.9	9.6
Wh. pine/no.red oak/wh. ash	.0	12.9	.0	.0	12.9	100.0
Oak/pine group	.0	12.9	.0	.0	12.9	100.0
Northern red oak	.0	.0	.2	.0	.2	100.0
Red maple/central hardwood	.0	7.0	.0	.0	7.0	100.0
Mixed central hardwoods	.0	12.9	.0	.0	12.9	77.7
Oak/hickory group	.0	19.9	.2	.0	20.1	60.6
Red maple(lowland)	.0	4.7	.0	.0	4.7	100.0
Red maple(upland)	.0	10.2	.0	.0	10.2	74.2
Elm/ash/red maple group	.0	14.9	.0	.0	14.9	59.7
Sugar maple/beech/yellow birch	44.6	69.4	.0	.0	114.0	27.1
Red maple/northern hardwoods	37.2	86.3	6.1	.0	129.6	26.3
Pin cherry/reverting field	.0	.0	.5	.0	.5	70.3
Mixed northern hardwoods	11.5	17.4	3.9	.0	32.9	46.1
Northern hardwoods group	93.3	173.1	10.5	.0	277.0	16.7
Aspen	.0	43.6	16.7	.0	60.4	35.3
Paper birch	.0	45.1	4.3	.0	49.4	39.8
Gray birch	.0	.0	1.7	.0	1.7	57.3
Aspen/birch group	.0	88.7	22.8	.0	111.5	25.6
All forest types	449.0	753.7	90.1	.0	1,292.8	4.8
SE	15.3	7.9	16.5	.0	4.8	

Table 93. Net volume of sawtimber trees on timberland by species and diameter class, Washington County, Maine, 1995

(In millions of board feet)

Species group	Diameter class (inches at breast height)								All classes	SE
	9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 28.9	29.0+		
Balsam fir	110.8	25.3	12.1	8.4	.0	.0	.0	.0	156.4	20.9
Tamarack	12.3	17.0	7.3	4.2	.0	6.3	.0	.0	47.1	52.4
White spruce	39.1	26.2	3.0	11.9	.0	.0	.0	.0	80.1	38.6
Black spruce	7.6	.0	.0	.0	.0	.0	.0	.0	7.6	60.1
Red spruce	267.5	225.6	100.9	107.6	23.8	.0	7.5	.0	732.9	12.3
Red pine	20.5	16.2	8.2	3.5	.0	9.0	.0	.0	57.5	47.9
White pine	15.7	38.2	28.0	49.2	34.0	27.8	165.0	47.8	405.7	25.2
Northern white-cedar	102.2	105.3	38.3	12.5	2.0	5.3	.0	.0	265.7	17.6
Hemlock	68.9	85.6	64.9	18.9	22.8	6.3	.0	.0	267.4	21.7
Total softwoods	644.6	539.3	262.7	216.3	82.6	54.7	172.4	47.8	2,020.4	8.3
Red maple	.0	72.0	51.9	36.6	12.0	62.4	16.3	.0	251.2	25.9
Sugar maple	.0	13.7	18.3	10.4	3.2	8.8	6.9	.0	61.2	42.3
Yellow birch	.0	11.6	9.7	11.8	2.8	13.4	.0	.0	49.3	34.4
Paper birch	.0	15.9	14.6	5.8	.0	5.0	.0	.0	41.3	27.8
Beech	.0	.9	.0	.0	3.8	.0	.0	.0	4.7	83.5
White ash	.0	5.2	.0	4.2	.0	.0	.0	.0	9.3	55.0
Aspen	.0	27.9	38.7	11.4	4.9	9.1	.0	.0	91.9	30.2
Red oaks	.0	3.0	3.5	.0	6.2	.0	.0	.0	12.6	80.1
Other hardwoods	.0	.0	.0	.0	4.1	.0	.0	.0	4.1	100.0
Total hardwoods	.0	150.1	136.6	80.2	37.1	98.6	23.2	.0	525.7	15.1
Total, all species	644.6	689.4	399.3	296.5	119.7	153.3	195.6	47.8	2,546.2	7.9
SE	9.0	8.5	11.7	15.0	27.6	29.8	34.5	100.0	7.9	

Table 94. Number of growing-stock trees (5.0+ inches d.b.h.) on timberland by species and diameter class, Washington County, Maine, 1995

(In thousands of trees)

Species group	Diameter class (inches at breast height)										All classes	SE
	5.0- 6.9	7.0- 8.9	9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 28.9	29.0+		
Balsam fir	23,270	9,229	2,717	402	99	64	0	0	0	0	35,781	11.8
Tamarack	1,284	746	358	282	97	33	0	33	0	0	2,834	40.0
White spruce	4,339	2,452	980	459	33	65	0	0	0	0	8,328	20.3
Black spruce	2,275	562	211	0	0	0	0	0	0	0	3,048	55.5
Red spruce	17,805	11,519	6,631	3,105	917	697	98	0	33	0	40,805	10.6
Red pine	1,835	1,376	688	328	98	33	0	33	0	0	4,392	53.8
White pine	2,096	1,052	429	656	331	398	164	98	403	65	5,692	16.0
Northern white-cedar	11,475	8,167	4,432	2,673	618	162	33	33	0	0	27,593	16.3
Hemlock	6,331	4,331	2,197	1,578	792	198	131	33	0	0	15,591	18.1
Other softwoods	705	33	0	0	0	0	0	0	0	0	739	100.0
Total softwoods	71,417	39,469	18,643	9,482	2,986	1,650	426	231	435	65	144,804	5.8
Red maple	13,262	8,109	3,873	1,346	654	327	99	262	65	0	27,998	10.8
Sugar maple	1,505	1,771	754	263	230	99	33	33	33	0	4,721	30.7
Yellow birch	1,823	1,178	522	198	130	132	33	65	0	0	4,083	23.8
Paper birch	8,421	3,704	1,276	230	164	65	0	33	0	0	13,892	16.4
Gray birch	1,147	196	33	0	0	0	0	0	0	0	1,376	31.3
Beech	3,535	1,473	490	33	0	0	33	0	0	0	5,564	28.0
White ash	162	33	33	98	0	33	0	0	0	0	358	41.0
Black ash	487	130	97	0	0	0	0	0	0	0	715	47.4
Aspen	3,452	2,498	988	429	399	99	33	33	0	0	7,932	23.6
Red oaks	654	359	131	65	65	0	33	0	0	0	1,308	33.7
Other hardwoods	0	0	0	0	0	0	33	0	0	0	33	100.0
Total hardwoods	34,447	19,453	8,198	2,663	1,643	756	296	425	98	0	67,979	7.4
Total, all species	105,865	58,922	26,841	12,145	4,629	2,406	722	655	533	65	212,783	4.1
SE	4.8	5.0	6.3	8.2	10.8	13.8	25.6	27.5	28.2	100.0	4.1	

Table 95. Average annual net change of growing-stock volume on timberland by species and component of change, Washington County, Maine, 1995

(In thousands of cubic feet)

Species group	Component of change								Net change
	Ingrowth	Accretion	Gross growth	Mortality	Cull decrement	Cull increment	Net growth	Removals	
Balsam fir	4,023	3,080	7,103	-6,343	814	-56	1,518	-2,959	-1,441
Tamarack	108	419	528	-18	45	0	555	-10	545
White spruce	478	991	1,469	-428	111	0	1,151	-902	250
Black spruce	345	208	553	-240	93	0	406	-553	-147
Red spruce	1,864	5,289	7,153	-4,455	1,106	-100	3,704	-14,459	-10,755
Red pine	13	79	92	0	0	0	92	-290	-198
White pine	330	1,811	2,141	-81	854	-33	2,881	-1,672	1,208
Northern white-cedar	459	1,848	2,307	-651	1,112	-411	2,357	-635	1,722
Hemlock	750	1,872	2,622	-476	748	-84	2,811	-4,206	-1,395
Total softwoods	8,369	15,599	23,968	-12,692	4,883	-684	15,475	-25,685	-10,210
Red maple	1,543	2,510	4,053	-209	1,789	-255	5,378	-2,673	2,704
Sugar maple	191	328	519	-241	173	-351	100	-132	-32
Yellow birch	254	761	1,014	-41	426	-178	1,222	-666	556
Paper birch	642	1,109	1,750	-801	285	-133	1,102	-1,663	-561
Gray birch	141	1	142	-106	101	0	137	-90	47
Beech	413	75	487	-40	284	-49	682	-105	578
White ash	13	99	113	0	0	0	113	-57	55
Black ash	4	27	31	-38	180	0	173	-96	77
Aspen	752	1,219	1,971	-160	520	0	2,331	-1,069	1,262
Red oaks	156	73	229	0	31	-39	221	0	221
Total hardwoods	4,109	6,202	10,312	-1,635	3,790	-1,007	11,460	-6,552	4,907
Total, all species	12,479	21,801	34,280	-14,327	8,673	-1,691	26,935	-32,237	-5,303
SE	9.9	7.9	6.9	14.8	13.0	24.8	12.6	17.3	

NOTE: Removals and mortality volumes for all tables containing these estimates are calculated using each tree's diameter breast height that was measured during the 1982 inventory, if the tree is no longer present.

Table 96. Area of timberland by forest type, forest-type group, and stand-size class, Western Unit, Maine, 1982

(In thousands of acres)

Forest type	Stand-size class				All classes	SE
	Saw-timber	Pole-timber	Sapling and seedling	Non-stocked		
White pine	52.7	43.3	.0	.0	96.0	32.8
White pine/hemlock	.0	32.3	.0	.0	32.3	57.3
Hemlock	31.9	10.8	.0	.0	42.8	49.7
White/red pine group	84.6	86.4	.0	.0	171.0	24.0
Balsam fir	53.1	122.0	84.2	.0	259.3	19.0
Red spruce	10.5	63.4	.0	.0	73.9	37.3
Red spruce/balsam fir	75.4	113.9	52.2	.0	241.5	19.9
White spruce	.0	10.6	.0	.0	10.6	100.0
Black spruce	.0	.0	10.8	.0	10.8	100.0
Spruce/fir group	138.9	310.0	147.2	.0	596.1	11.5
Wh. pine/no.red oak/wh. ash	.0	21.7	10.9	.0	32.6	57.3
Oak/pine group	.0	21.7	10.9	.0	32.6	57.3
Northern red oak	.0	21.6	.0	.0	21.6	70.7
Mixed central hardwoods	.0	21.5	.0	.0	21.5	70.0
Oak/hickory group	.0	43.0	.0	.0	43.0	49.2
Black ash/Amer. elm/red maple	.0	31.4	.0	.0	31.4	57.4
Red maple(lowland)	.0	5.5	.0	.0	5.5	100.0
Red maple(upland)	.0	10.7	.0	.0	10.7	100.0
Elm/ash/red maple group	.0	47.6	.0	.0	47.6	45.1
Sugar maple/beech/yellow birch	232.1	347.2	49.8	.0	629.1	11.0
Black Cherry	.0	10.7	.0	.0	10.7	100.0
Red maple/northern hardwoods	10.0	177.4	42.8	.0	230.1	19.8
Pin cherry/reverting field	.0	10.0	38.3	.0	48.3	41.8
Mixed northern hardwoods	10.8	84.3	21.5	.0	116.7	29.5
Northern hardwoods group	252.9	629.5	152.5	.0	1,034.9	7.4
Aspen	.0	97.9	.0	.0	97.9	30.6
Paper birch	21.3	167.3	19.5	.0	208.1	21.4
Aspen/birch group	21.3	265.1	19.5	.0	305.9	17.1
All forest types	497.7	1,403.4	330.1	.0	2,231.2	.9
SE	12.9	5.2	14.3	.0	.9	

Table 97. Area of timberland by forest type, forest-type group, and stand-size class, Western Unit, Maine, 1995

(In thousands of acres)

Forest type	Stand-size class				All classes	SE
	Saw-timber	Pole-timber	Sapling and seedling	Non-stocked		
White pine	92.9	19.4	6.5	.0	118.8	23.0
White pine/hemlock	27.4	6.6	.0	.0	34.0	44.3
Hemlock	32.2	6.5	.0	.0	38.7	40.6
White/red pine group	152.5	32.5	6.5	.0	191.5	17.6
Balsam fir	26.2	98.1	82.8	.0	207.1	16.0
Red spruce	25.8	24.7	16.7	.0	67.3	30.1
Red spruce/balsam fir	45.0	85.8	30.6	.0	161.4	19.0
White spruce	.0	2.8	.0	.0	2.8	100.0
Black spruce	14.0	.0	7.6	.0	21.6	52.1
Northern white-cedar	15.9	12.5	.0	.0	28.5	45.5
Spruce/fir group	127.0	224.0	137.6	.0	488.6	9.8
Wh. pine/no.red oak/wh. ash	13.2	20.7	.0	.0	34.0	44.7
Oak/pine group	13.2	20.7	.0	.0	34.0	44.7
White oak/red oak/hickory	6.5	.0	.0	.0	6.5	100.0
Northern red oak	.0	20.1	.0	.0	20.1	57.7
Hawthorn/reverting field	.0	.0	6.6	.0	6.6	100.0
Mixed central hardwoods	7.6	38.0	.0	.0	45.5	37.3
Oak/hickory group	14.1	58.1	6.6	.0	78.8	28.3
Black ash/Amer. elm/red maple	.0	7.5	.0	.0	7.5	100.0
Red maple(upland)	.0	12.6	.0	.0	12.6	70.8
Willow	.0	.0	6.7	.0	6.7	100.0
Elm/ash/red maple group	.0	20.1	6.7	.0	26.8	50.2
Sugar maple/beech/yellow birch	270.0	370.5	37.4	.0	677.9	8.1
Black Cherry	.0	6.0	2.9	.0	8.8	75.0
Red maple/northern hardwoods	18.1	148.0	62.1	.0	228.2	16.0
Pin cherry/reverting field	.0	.0	14.1	.0	14.1	71.0
Mixed northern hardwoods	47.4	70.9	31.2	.0	149.6	19.9
Northern hardwoods group	335.5	595.4	147.6	.0	1,078.6	5.6
Aspen	5.6	73.8	40.7	.0	120.1	22.6
Paper birch	.0	120.2	39.7	.0	159.9	18.8
Gray birch	.0	.0	11.4	.0	11.4	70.8
Aspen/birch group	5.6	194.0	91.8	.0	291.4	13.8
All forest types	648.0	1,144.8	396.8	.0	2,189.6	1.3
SE	8.2	5.2	10.5	.0	1.3	

Table 98. Net volume of growing-stock trees on timberland by species and diameter class, Western Unit, Maine, 1982

(In millions of cubic feet)

Species group	Diameter class (inches at breast height)										All classes
	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0+	
Balsam fir	119.6	161.0	112.4	67.6	26.2	4.0	3.0	2.3	.0	.0	496.1
Tamarack	.1	.0	1.2	.0	.0	.0	.0	.0	.0	.0	1.3
White spruce	9.3	4.1	10.2	2.4	1.7	3.5	1.4	.0	.0	.0	32.2
Black spruce	4.7	8.3	12.8	3.7	6.0	.0	.0	.0	.0	.0	35.4
Red spruce	76.3	95.5	86.0	47.4	43.2	5.0	2.0	.0	.0	.0	355.5
Red pine	.2	2.8	2.3	5.9	1.9	1.6	.0	.0	.0	.0	14.7
White pine	24.3	42.1	57.3	43.7	66.2	49.4	55.4	42.1	14.5	14.0	408.9
Northern white-cedar	5.7	5.1	11.1	7.5	3.1	1.0	.0	.0	3.9	.0	37.5
Hemlock	4.3	27.4	25.3	34.7	19.4	14.0	6.0	3.1	.0	.0	133.9
Other softwoods	.0	.5	.8	.5	.7	.0	.0	.0	.0	.0	2.6
Total softwoods	244.6	346.6	319.3	213.3	168.6	78.3	67.9	47.4	18.4	14.0	1,518.2
Red Maple	48.8	82.3	58.9	46.6	16.3	.4	5.9	.7	9.6	.0	269.5
Sugar maple	24.0	31.5	41.4	38.4	20.9	20.4	.9	8.8	10.8	.0	197.1
Yellow birch	23.4	37.9	46.3	53.9	23.0	21.6	25.9	12.6	20.9	.0	265.6
Paper birch	57.9	85.9	77.4	33.5	12.0	4.4	1.0	.0	.0	.0	272.2
Gray birch	9.2	8.0	.0	.0	.0	.0	.0	.0	.0	.0	17.3
Beech	21.1	24.1	36.2	11.0	12.3	4.0	.6	5.3	.0	.0	114.7
White ash	9.5	25.3	10.0	7.5	8.1	1.3	1.3	.0	2.6	.0	65.6
Black ash	1.9	2.1	3.1	.9	.0	.0	.0	.0	.0	.0	8.1
Aspen	35.3	54.7	42.6	26.5	15.4	2.8	.0	.0	.0	.0	177.3
White oaks	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	1.2
Red oaks	11.8	14.5	7.1	5.7	13.8	1.0	.9	1.5	.4	.0	56.9
Basswood	.5	.4	.0	2.5	1.1	1.5	1.1	1.3	.0	.0	8.3
Elm	.9	1.5	.2	.0	1.0	1.8	.0	.0	.0	.0	5.4
Other hardwoods	.9	1.5	2.6	.8	.0	.0	.0	.0	.0	.0	5.8
Total hardwoods	245.2	371.4	326.0	227.4	123.7	59.1	37.6	30.2	44.2	.0	1,464.9
Total, all species	489.7	718.0	645.3	440.7	292.3	137.5	105.5	77.6	62.6	14.0	2,983.1

Table 99. Net volume of growing-stock trees on timberland by species and diameter class, Western Unit, Maine, 1995

(In millions of cubic feet)

Species group	Diameter class (inches at breast height)										All classes	SE
	5.0- 6.9	7.0- 8.9	9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 28.9	29.0+		
Balsam fir	86.8	121.7	84.8	43.5	19.0	3.1	1.1	.0	.0	.0	360.0	11.5
Tamarack	.1	.0	.0	.4	.0	.0	.0	.0	.0	.0	.5	86.9
White spruce	5.3	8.2	7.5	4.5	3.8	2.0	1.3	.0	.0	.0	32.3	27.1
Black spruce	5.5	8.4	9.5	5.3	2.1	.9	.0	.0	.0	.0	31.7	47.4
Red spruce	48.8	82.9	77.2	61.1	36.0	9.5	3.3	.0	.0	.0	318.8	11.7
Red pine	.7	1.1	.8	1.6	.8	1.1	2.9	.0	.0	.0	9.1	34.8
White pine	22.9	32.8	47.4	42.4	56.3	42.5	41.2	60.5	54.6	4.1	404.6	15.2
Northern white-cedar	4.5	11.3	9.3	7.9	2.8	2.0	.7	.0	2.0	.0	40.5	26.0
Hemlock	13.3	19.3	27.7	29.0	33.2	14.5	10.4	8.7	.0	.0	156.0	19.2
Total softwoods	187.9	285.6	264.1	195.6	154.1	75.6	60.9	69.2	56.6	4.1	1,353.5	6.7
Red maple	67.7	92.9	83.8	47.7	28.6	14.7	3.5	4.7	2.9	.0	346.4	8.8
Sugar maple	29.4	47.9	60.0	44.6	28.3	11.7	6.8	1.7	14.2	.0	244.7	12.9
Yellow birch	22.8	40.9	48.0	44.3	35.7	17.7	14.4	7.5	8.0	.0	239.3	9.7
Paper birch	51.6	78.6	71.4	33.8	17.9	4.2	2.5	.0	.0	.0	260.0	10.4
Gray birch	5.7	2.9	2.6	.0	.0	.0	.0	.0	.0	.0	11.3	23.7
Beech	22.3	35.2	44.4	31.6	13.0	11.0	3.3	1.7	1.4	.0	164.0	15.0
White ash	10.3	20.0	17.2	11.3	5.1	6.8	.0	1.4	.0	.0	72.1	20.9
Black ash	1.5	2.0	2.0	.9	.0	.0	.0	.0	.0	.0	6.4	35.7
Aspen	21.9	38.1	39.1	24.7	15.4	10.6	1.3	.0	.0	.0	151.1	21.6
White oaks	1.2	1.2	.8	.0	.0	.0	.0	.0	.0	.0	3.2	50.5
Red oaks	12.5	20.4	25.7	17.5	8.8	10.4	4.0	3.0	3.9	.0	106.2	16.1
Basswood	.1	.4	.6	1.4	1.2	.9	1.1	1.3	.0	.0	6.8	49.1
Elm	.9	.4	.2	.4	.0	.0	.0	.0	.0	.0	1.9	38.4
Other hardwoods	1.3	1.2	.5	.9	.0	.0	.0	.0	.0	.0	3.9	37.2
Total hardwoods	249.2	382.2	396.4	259.1	153.9	87.9	36.8	21.3	30.4	.0	1,617.2	4.6
Total, all species	437.0	667.8	660.5	454.7	308.0	163.5	97.7	90.4	87.0	4.1	2,970.7	3.2
SE	4.0	4.0	4.0	5.1	6.9	9.4	15.1	19.7	17.2	100.0	3.2	

Table 100. Net volume of growing-stock trees on timberland by forest type and stand-size class, Western Unit, Maine, 1995

(In millions of cubic feet)

Forest type	Stand-size class				All classes	SE
	Saw-timber	Pole-timber	Sapling and seedling	Non-stocked		
White pine	226.8	34.8	3.5	.0	265.1	24.9
White pine/hemlock	82.7	8.4	.0	.0	91.1	46.3
Hemlock	85.2	10.1	.0	.0	95.3	43.5
White/red pine group	394.7	53.4	3.5	.0	451.5	19.1
Balsam fir	56.6	152.1	16.8	.0	225.5	22.5
Red spruce	39.5	43.1	11.2	.0	93.9	35.2
Red spruce/balsam fir	90.6	123.2	14.8	.0	228.6	21.9
White spruce	.0	6.6	.0	.0	6.6	100.0
Black spruce	26.2	.0	4.8	.0	31.0	57.1
Northern white-cedar	18.3	12.1	.0	.0	30.4	46.2
Spruce/fir group	231.2	337.1	47.7	.0	616.0	12.5
Wh. pine/no.red oak/wh. ash	32.2	29.9	.0	.0	62.1	49.7
Oak/pine group	32.2	29.9	.0	.0	62.1	49.7
White oak/red oak/hickory	12.3	.0	.0	.0	12.3	100.0
Northern red oak	.0	23.7	.0	.0	23.7	62.8
Mixed central hardwoods	16.9	51.5	.0	.0	68.4	39.8
Oak/hickory group	29.2	75.2	.0	.0	104.4	31.6
Black ash/Amer. elm/red maple	.0	5.8	.0	.0	5.8	100.0
Red maple(upland)	.0	31.4	.0	.0	31.4	71.7
Elm/ash/red maple group	.0	37.2	.0	.0	37.2	62.5
Sugar maple/beech/yellow birch	431.3	450.3	11.5	.0	893.1	9.1
Black Cherry	.0	2.0	.1	.0	2.1	94.0
Red maple/northern hardwoods	31.2	188.9	17.4	.0	237.5	19.2
Pin cherry/reverting field	.0	.0	2.4	.0	2.4	87.2
Mixed northern hardwoods	86.5	108.7	9.1	.0	204.4	23.5
Northern hardwoods group	549.0	749.9	40.5	.0	1,339.4	6.9
Aspen	6.3	131.1	9.3	.0	146.7	30.6
Paper birch	.0	196.9	12.4	.0	209.3	22.4
Gray birch	.0	.0	4.1	.0	4.1	76.9
Aspen/birch group	6.3	328.0	25.8	.0	360.1	17.6
All forest types	1,242.6	1,610.7	117.4	.0	2,970.7	3.2
SE	9.2	6.1	17.9	.0	3.2	

Table 101. Net volume of sawtimber trees on timberland by species and diameter class, Western Unit, Maine, 1995

(In millions of board feet)

Species group	Diameter class (inches at breast height)								All classes	SE
	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0+		
Balsam fir	318.4	185.6	81.9	16.1	5.9	.0	.0	.0	607.9	17.3
Tamarack	.0	.9	.0	.0	.0	.0	.0	.0	.9	100.0
White spruce	27.3	20.2	18.7	9.5	6.5	.0	.0	.0	82.1	30.6
Black spruce	37.9	23.7	9.1	4.6	.0	.0	.0	.0	75.2	52.0
Red spruce	285.8	263.3	165.9	46.1	16.6	.0	.0	.0	777.7	14.5
Red pine	3.1	6.8	3.3	5.7	14.1	.0	.0	.0	33.0	40.9
White pine	165.5	174.2	252.1	205.6	196.9	304.6	284.3	22.1	1,605.3	16.0
Northern white-cedar	25.3	26.4	10.9	7.7	2.7	.0	8.2	.0	81.2	29.3
Hemlock	97.5	112.5	141.7	63.0	48.3	41.6	.0	.0	504.6	22.0
Total softwoods	960.7	813.7	683.7	358.3	290.9	346.2	292.4	22.1	3,768.1	8.6
Red maple	.0	192.8	120.1	62.3	16.0	20.5	13.9	.0	425.6	15.1
Sugar maple	.0	175.1	115.1	49.0	29.7	7.2	56.0	.0	432.0	16.2
Yellow birch	.0	191.0	154.8	71.4	59.6	33.2	34.2	.0	544.3	13.5
Paper birch	.0	142.1	79.7	20.2	12.6	.0	.0	.0	254.5	13.9
Beech	.0	131.9	55.5	50.8	14.9	11.3	6.4	.0	270.7	24.0
White ash	.0	45.9	22.1	31.7	.0	6.1	.0	.0	105.9	29.3
Black ash	.0	2.9	.0	.0	.0	.0	.0	.0	2.9	73.0
Aspen	.0	105.7	70.2	49.3	6.4	.0	.0	.0	231.6	21.2
Red oaks	.0	69.7	36.6	45.4	17.2	13.5	18.1	.0	200.6	22.3
Basswood	.0	6.5	5.4	3.9	4.6	6.7	.0	.0	27.0	55.4
Elm	.0	1.3	.0	.0	.0	.0	.0	.0	1.3	100.0
Other hardwoods	.0	3.6	.0	.0	.0	.0	.0	.0	3.6	70.8
Total hardwoods	.0	1,068.4	659.4	384.0	161.0	98.5	128.6	.0	2,500.0	7.0
Total, all species	960.7	1,882.1	1,343.2	742.3	451.9	444.7	421.1	22.1	6,268.1	5.4
SE	8.2	5.1	6.9	9.6	15.4	20.4	17.6	100.0	5.4	

Table 102. Number of growing-stock trees (5.0+ inches d.b.h.) on timberland by species and diameter class, Western Unit, Maine, 1995

(In thousands of trees)

Species group	Diameter class (inches at breast height)										All classes	SE
	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0+		
Balsam fir	33,131	19,379	7,519	2,676	842	124	33	0	0	0	63,706	9.6
Tamarack	35	0	0	33	0	0	0	0	0	0	69	70.7
White spruce	1,765	1,213	669	224	132	69	30	0	0	0	4,102	24.7
Black spruce	1,853	1,248	811	325	135	27	0	0	0	0	4,399	45.9
Red spruce	16,446	12,781	6,819	3,504	1,481	307	95	0	0	0	41,433	10.4
Red pine	263	237	91	99	33	39	70	0	0	0	831	39.8
White pine	7,462	5,259	4,522	2,639	2,344	1,346	1,045	1,213	851	33	26,715	18.1
Northern white-cedar	1,902	2,312	1,219	615	152	92	30	0	63	0	6,385	24.4
Hemlock	5,279	3,694	2,658	1,983	1,508	540	299	204	0	0	16,165	16.1
Total softwoods	68,136	46,123	24,310	12,097	6,627	2,544	1,603	1,417	914	33	163,806	6.1
Red maple	26,126	15,617	8,532	3,203	1,431	538	95	113	59	0	55,715	7.5
Sugar maple	10,880	8,312	5,924	2,960	1,355	450	166	38	200	0	30,286	11.7
Yellow birch	9,178	7,410	5,200	3,251	1,882	721	425	167	133	0	28,367	8.6
Paper birch	19,091	12,804	7,150	2,268	835	133	66	0	0	0	42,345	10.6
Gray birch	2,201	495	253	0	0	0	0	0	0	0	2,950	24.6
Beech	9,423	5,989	4,451	1,992	642	371	68	33	33	0	23,003	12.6
White ash	3,739	3,125	1,617	747	264	226	0	31	0	0	9,750	19.0
Black ash	679	336	226	67	0	0	0	0	0	0	1,307	31.9
Aspen	6,367	4,938	3,319	1,466	681	347	33	0	0	0	17,152	22.0
White oaks	446	206	71	0	0	0	0	0	0	0	724	44.0
Red oaks	4,648	3,401	2,570	1,165	442	378	100	71	56	0	12,831	17.7
Basswood	27	59	63	67	61	33	27	27	0	0	366	40.3
Elm	393	93	30	32	0	0	0	0	0	0	549	35.8
Other hardwoods	538	222	64	61	0	0	0	0	0	0	885	38.5
Total hardwoods	93,739	63,007	39,471	17,278	7,593	3,196	982	481	483	0	226,231	4.0
Total, all species	161,874	109,131	63,781	29,376	14,221	5,740	2,585	1,899	1,397	33	390,037	2.9
SE	3.7	3.7	3.8	4.8	6.5	9.1	14.3	19.0	16.5	100.0	2.9	

Table 103. Average annual net change of growing-stock volume on timberland by species and component of change, Western Unit, Maine, 1995

(In thousands of cubic feet)

Species group	Component of change								Net change
	Ingrowth	Accretion	Gross growth	Mortality	Cull decrement	Cull increment	Net growth	Removals	
Balsam fir	6,641	6,598	13,239	-11,235	773	-430	2,346	-12,457	-10,111
Tamarack	0	17	17	0	0	0	17	-35	-18
White spruce	204	749	953	-441	112	-114	509	-490	19
Black spruce	111	217	327	-172	32	0	188	-437	-250
Red spruce	1,616	6,093	7,709	-3,565	372	-354	4,162	-6,983	-2,821
Red pine	75	233	308	0	0	0	308	-617	-309
White pine	1,299	9,181	10,480	-862	663	-201	10,080	-10,371	-291
Northern white-cedar	147	740	888	-262	288	-673	241	0	241
Hemlock	687	2,939	3,625	-196	562	-211	3,781	-2,195	1,586
Other softwoods	0	0	0	0	0	0	0	-189	-189
Total softwoods	10,780	26,766	37,546	-16,734	2,803	-1,983	21,632	-33,775	-12,143
Red maple	3,467	7,501	10,968	-1,056	2,211	-2,160	9,963	-4,447	5,516
Sugar maple	2,349	4,378	6,727	-559	674	-653	6,190	-2,831	3,359
Yellow birch	1,395	3,396	4,791	-1,697	1,068	-1,345	2,816	-4,785	-1,969
Paper birch	1,675	3,987	5,663	-1,882	591	-1,016	3,355	-4,333	-978
Gray birch	115	218	333	-493	0	0	-159	-218	-377
Beech	1,081	4,358	5,439	-734	2,163	-784	6,084	-2,469	3,615
White ash	547	1,824	2,372	-53	60	-389	1,990	-1,510	480
Black ash	44	33	77	-42	0	0	35	-154	-119
Aspen	1,048	3,969	5,017	-1,573	321	-356	3,408	-5,155	-1,747
White oaks	46	36	82	0	76	0	158	0	158
Red oaks	980	3,224	4,203	-152	112	-72	4,091	-566	3,525
Basswood	0	106	106	-190	0	0	-84	0	-84
Elm	31	45	75	-246	0	0	-171	-79	-250
Other hardwoods	45	-13	32	-11	85	0	106	-241	-135
Total hardwoods	12,824	33,063	45,887	-8,689	7,360	-6,777	37,782	-26,788	10,994
Total, all species	23,604	59,829	83,434	-25,423	10,163	-8,760	59,414	-60,563	-1,149
SE	7.0	5.7	4.8	12.2	12.2	12.3	9.6	11.3	

NOTE: Removals and mortality volumes for all tables containing these estimates are calculated using each trees' diameter breast height that was measured during the 1982 inventory, if the tree is no longer present.

Table 104. Net land area by county, and land class, Maine, 1995

(In thousands of acres)

Counties	Land class						All classes
	Timberland	Other-urban forest	Reserved forest	Other reserv. forest	Total forest land	Nonforest land	
Androscoggin	197.4	12.6	.0	.0	210.0	91.0	301.0
Aroostook	3,751.1	96.5	25.1	.0	3,872.7	397.3	4,270.0
Cumberland	363.5	12.5	.0	.0	375.9	158.8	534.8
Franklin	981.5	19.2	30.0	.0	1,030.7	56.0	1,086.7
Hancock	854.9	26.4	26.1	6.2	913.5	103.5	1,017.0
Kennebec	408.5	.0	.0	.0	408.5	146.7	555.2
Knox	168.8	5.7	.0	.0	174.5	59.5	234.0
Lincoln	223.8	.0	.0	.0	223.8	67.8	291.6
Oxford	1,208.1	.0	6.5	.0	1,214.6	115.4	1,330.0
Penobscot	1,847.6	65.3	12.8	.0	1,925.6	247.9	2,173.5
Piscataquis	2,213.4	44.9	206.9	.0	2,464.2	74.3	2,538.6
Sagadahoc	123.4	.0	.0	.0	123.4	39.1	162.6
Somerset	2,353.2	29.0	6.7	.0	2,388.9	124.3	2,513.2
Waldo	373.2	.0	6.6	.0	379.8	87.3	467.1
Washington	1,386.5	85.6	13.5	.0	1,485.5	158.3	1,643.9
York	482.9	14.4	.0	.0	497.4	136.9	634.2
Total, all counties	16,937.7	411.9	334.2	6.2	17,689.1	2,064.2	19,753.3

NOTE: The area for reserved forest land in Piscataquis County was obtained from public agencies and not ground plot estimates.

Table 105. Area of timberland by county and forest-type group, Maine, 1995

(In thousands of acres)

Counties	Forest-type group									Total	SE
	White/ red pine	Spruce/ fir	Loblolly/ shortleaf	Oak/ pine	Oak/ hickory	Oak/gum/ cypress	Elm/ash/ red maple	Northern hardwoods	Aspen/ birch		
Androscoggin	39.0	.0	.0	.0	19.7	.0	14.2	90.7	33.9	197.4	5.2
Aroostook	25.8	1,705.1	.0	.0	.0	.0	78.1	1,347.3	594.9	3,751.1	.9
Cumberland	101.4	18.6	.0	32.6	51.9	.0	10.4	120.1	28.5	363.5	4.1
Franklin	11.6	295.9	.0	.0	17.0	.0	12.6	480.0	164.5	981.5	2.0
Hancock	71.3	398.5	6.7	.0	26.5	.0	20.3	218.8	112.7	854.9	2.8
Kennebec	73.6	15.1	.0	14.1	15.0	.0	23.8	231.7	35.1	408.5	3.2
Knox	20.8	41.6	.0	6.0	21.8	.0	6.9	47.7	23.9	168.8	7.3
Lincoln	47.0	51.9	.0	19.0	22.0	.0	6.5	57.4	19.9	223.8	5.2
Oxford	179.9	192.7	.0	34.0	61.8	.0	14.2	598.6	126.9	1,208.1	1.6
Penobscot	195.1	698.0	.0	.0	25.4	.0	74.8	578.9	275.4	1,847.6	1.2
Piscataquis	45.0	932.1	.0	.0	11.2	.0	30.3	945.1	249.7	2,213.4	.9
Sagadahoc	22.6	.0	.0	6.8	20.4	.0	.0	57.3	16.3	123.4	8.2
Somerset	98.4	822.9	.0	.0	.0	.0	87.8	1,081.6	262.4	2,353.2	.8
Waldo	30.3	136.0	.0	.0	27.4	.0	7.5	94.6	77.4	373.2	2.9
Washington	118.0	696.6	.0	6.5	26.1	.0	19.8	324.1	195.4	1,386.5	1.6
York	165.9	6.2	.0	8.5	106.9	.0	27.5	135.1	32.8	482.9	4.2
Total, all counties	1,245.9	6,011.2	6.7	127.6	453.2	.0	434.7	6,408.8	2,249.6	16,937.7	.4
SE	6.7	2.4	100.0	22.2	11.8	.0	12.2	2.3	5.0	.4	

Table 106. Area of timberland by county and stand-size class, Maine, 1995

(In thousands of acres)

Counties	Stand-size class				All classes	SE
	Saw- timber	Pole- timber	Sapling and seedling	Non- stocked		
Androscoggin	61.2	99.5	36.8	.0	197.4	5.2
Aroostook	1,431.7	1,157.6	1,161.8	.0	3,751.1	.9
Cumberland	130.5	183.5	46.8	2.7	363.5	4.1
Franklin	225.7	513.5	242.4	.0	981.5	2.0
Hancock	241.5	475.6	137.7	.1	854.9	2.8
Kennebec	148.6	168.4	91.5	.0	408.5	3.2
Knox	61.1	72.3	35.4	.0	168.8	7.3
Lincoln	66.9	131.0	25.8	.0	223.8	5.2
Oxford	422.3	631.4	154.4	.0	1,208.1	1.6
Penobscot	644.4	755.0	448.2	.0	1,847.6	1.2
Piscataquis	813.7	756.4	637.4	5.9	2,213.4	.9
Sagadahoc	72.6	28.3	22.5	.0	123.4	8.2
Somerset	857.7	854.3	638.9	2.2	2,353.2	.8
Waldo	104.5	206.8	61.8	.0	373.2	2.9
Washington	297.7	660.1	422.4	6.3	1,386.5	1.6
York	190.1	240.9	51.9	.0	482.9	4.2
Total, all counties	5,770.1	6,934.6	4,215.7	17.3	16,937.7	.4
SE	2.7	2.3	3.0	54.0	.4	

Table 107. Area of timberland by county and ownership class, Maine, 1995

(In thousands of acres)

Counties	Ownership class								All ownerships	SE
	National Forest	Miscellaneous federal	State	County and municipal	Forest industry	Farmer	Corporate	Individual		
Androscoggin	.0	.0	.0	.0	.0	14.2	9.3	173.9	197.4	5.2
Aroostook	.0	.0	92.3	52.1	2,289.3	51.8	752.4	513.2	3,751.1	.9
Cumberland	.0	.0	6.2	7.9	7.8	19.5	35.3	286.8	363.5	4.1
Franklin	.0	.0	.0	8.3	461.2	6.7	179.8	325.5	981.5	2.0
Hancock	.0	.0	19.7	.0	232.7	50.9	90.2	461.3	854.9	2.8
Kennebec	.0	.0	7.1	.0	7.1	13.5	14.4	366.4	408.5	3.2
Knox	.0	.0	.0	.0	.0	13.1	13.9	141.8	168.8	7.3
Lincoln	.0	.0	.0	6.4	.0	13.1	6.5	197.7	223.8	5.2
Oxford	33.5	.0	66.6	.0	298.7	6.5	279.7	523.0	1,208.1	1.6
Penobscot	.0	6.7	24.2	.0	635.4	19.6	496.9	664.8	1,847.6	1.2
Piscataquis	.0	.0	159.3	6.3	1,213.1	13.2	544.1	277.3	2,213.4	.9
Sagadahoc	.0	.0	.0	.0	.0	.0	.0	123.4	123.4	8.2
Somerset	.0	.0	68.5	.0	1,477.2	27.1	150.1	630.3	2,353.2	.8
Waldo	.0	.0	.0	13.4	.0	20.3	73.5	266.0	373.2	2.9
Washington	.0	13.0	26.4	6.5	667.8	.0	285.6	387.2	1,386.5	1.6
York	.0	.0	.0	7.9	7.5	.0	83.4	384.1	482.9	4.2
Total, all counties	33.5	19.7	470.2	108.8	7,297.8	269.7	3,015.1	5,722.8	16,937.7	.4
SE	44.6	57.7	11.6	24.7	2.1	15.4	4.2	2.5	.4	

Table 108. Area of timberland by county and stocking class of growing-stock trees, Maine, 1995

(In thousands of acres)

Counties	Stocking class					All classes	SE
	Nonstocked	Poorly stocked	Moderately stocked	Fully stocked	Over-stocked		
Androscoggin	.0	13.3	43.7	125.7	14.8	197.4	5.2
Aroostook	7.5	328.4	1,182.4	1,709.4	523.5	3,751.1	.9
Cumberland	2.7	6.5	99.6	187.4	67.3	363.5	4.1
Franklin	6.6	108.9	266.6	504.4	95.0	981.5	2.0
Hancock	.1	66.4	220.2	468.4	99.8	854.9	2.8
Kennebec	.0	44.4	137.7	148.5	77.8	408.5	3.2
Knox	6.7	36.9	12.9	104.0	8.4	168.8	7.3
Lincoln	.0	13.7	74.5	116.3	19.3	223.8	5.2
Oxford	.0	27.4	362.9	652.5	165.3	1,208.1	1.6
Penobscot	.0	208.3	593.0	802.4	243.9	1,847.6	1.2
Piscataquis	5.9	158.1	699.4	988.2	361.7	2,213.4	.9
Sagadahoc	.0	6.2	38.6	59.6	19.1	123.4	8.2
Somerset	2.2	230.2	606.4	1,221.8	292.5	2,353.2	.8
Waldo	6.6	15.0	109.8	208.6	33.2	373.2	2.9
Washington	12.7	156.9	526.8	538.3	151.8	1,386.5	1.6
York	.0	38.1	59.7	329.0	56.1	482.9	4.2
Total, all counties	51.0	1,458.7	5,034.2	8,164.5	2,229.2	16,937.7	.4
SE	33.3	6.3	3.0	2.0	4.9	.4	

Table 109. Net volume of growing-stock trees on timberland by county and forest-type group, Maine, 1995

(In millions of cubic feet)

Counties	Forest-type group									Total	SE
	White/ red pine	Spruce/ fir	Loblolly/ shortleaf	Oak/ pine	Oak/ hickory	Oak/gum/ cypress	Elm/ash/ red maple	Northern hardwoods	Aspen/ birch		
Androscoggin	67.0	.0	.0	.0	23.2	.0	10.8	117.3	37.9	256.3	10.7
Aroostook	29.5	2,105.2	.0	.0	.0	.0	20.3	1,624.7	584.0	4,363.6	2.8
Cumberland	266.3	23.7	.0	56.1	88.7	.0	8.1	186.9	26.9	656.6	8.1
Franklin	37.8	354.2	.0	.0	12.3	.0	13.0	539.0	160.2	1,116.5	5.3
Hancock	143.0	652.5	18.8	.0	35.4	.0	10.8	300.5	142.3	1,303.4	4.9
Kennebec	174.6	23.8	.0	19.0	29.1	.0	13.6	204.4	39.6	504.2	7.7
Knox	48.8	64.3	.0	1.6	14.4	.0	6.2	31.4	26.6	193.3	21.0
Lincoln	150.6	44.3	.0	22.2	31.2	.0	6.5	80.5	22.3	357.6	12.2
Oxford	413.7	261.8	.0	62.1	92.1	.0	24.2	800.4	199.9	1,854.2	3.9
Penobscot	392.5	872.4	.0	.0	28.7	.0	59.4	649.1	239.8	2,242.0	3.7
Piscataquis	64.0	1,177.2	.0	.0	11.4	.0	20.9	1,030.4	253.1	2,556.9	3.6
Sagadahoc	46.0	.0	.0	15.8	35.5	.0	.0	66.9	2.6	166.8	16.9
Somerset	181.3	891.1	.0	.0	.0	.0	29.0	1,314.3	252.8	2,668.4	3.6
Waldo	73.6	169.4	.0	.0	47.6	.0	1.4	91.2	97.4	480.7	9.0
Washington	154.5	701.9	.0	12.9	20.1	.0	14.9	277.0	111.5	1,292.8	4.8
York	440.7	10.2	.0	25.2	150.9	.0	25.9	206.4	17.0	876.3	8.9
Total, all counties	2,683.9	7,352.0	18.8	215.0	620.7	.0	264.9	7,520.4	2,214.0	20,889.7	1.3
SE	7.6	3.3	100.0	25.7	13.9	.0	17.0	3.0	6.9	1.3	

Table 110. Net volume of growing-stock trees on timberland by county and stand-size class, Maine, 1995

(In millions of cubic feet)

Counties	Stand-size class				All classes	SE
	Saw-timber	Pole-timber	Sapling and seedling	Non-stocked		
Androscoggin	113.7	132.5	10.1	.0	256.3	10.7
Aroostook	2,443.3	1,628.5	291.8	.0	4,363.6	2.8
Cumberland	333.2	304.2	17.7	1.5	656.6	8.1
Franklin	377.6	676.0	62.8	.0	1,116.5	5.3
Hancock	539.9	724.0	37.7	1.8	1,303.4	4.9
Kennebec	299.5	186.4	18.3	.0	504.2	7.7
Knox	109.4	76.6	7.3	.0	193.3	21.0
Lincoln	192.9	155.7	9.0	.0	357.6	12.2
Oxford	865.0	934.6	54.6	.0	1,854.2	3.9
Penobscot	1,082.8	1,050.2	109.0	.0	2,242.0	3.7
Piscataquis	1,365.9	1,054.0	136.7	.3	2,556.9	3.6
Sagadahoc	128.5	34.2	4.2	.0	166.8	16.9
Somerset	1,491.5	1,080.0	96.9	.0	2,668.4	3.6
Waldo	223.5	243.8	13.3	.0	480.7	9.0
Washington	449.0	753.7	90.1	.0	1,292.8	4.8
York	532.5	320.6	23.2	.0	876.3	8.9
Total, all counties	10,561.7	9,355.1	982.7	3.7	20,889.7	1.3
SE	3.1	2.7	5.4	65.4	1.3	

Table 111. Net volume of growing-stock and sawtimber trees on timberland by county and species group, Maine, 1995

Counties	(In millions of cubic feet)					In millions of board feet)				
	Growing stock					Sawtimber				
	Pine	Other softwoods	Soft hardwoods	Hard hardwoods	Total	Pine	Other softwoods	Soft hardwoods	Hard hardwoods	Total
Androscoggin	64.6	46.2	63.5	82.0	256.3	239.3	94.5	77.9	120.1	531.8
Aroostook	39.5	2,503.4	297.2	1,523.6	4,363.6	175.3	5,857.9	532.7	3,540.9	10,106.7
Cumberland	220.3	125.8	142.7	167.9	656.6	841.9	355.7	213.5	299.5	1,710.6
Franklin	30.7	456.2	181.9	447.7	1,116.5	120.6	973.4	280.1	719.6	2,093.7
Hancock	125.6	683.9	211.0	283.0	1,303.4	438.4	1,625.2	286.0	397.7	2,747.3
Kennebec	157.1	92.7	105.3	149.1	504.2	588.8	190.7	163.0	258.3	1,200.8
Knox	17.8	94.5	26.3	54.6	193.3	72.2	274.0	15.4	96.0	457.7
Lincoln	144.4	95.1	43.0	75.1	357.6	548.6	177.8	49.5	135.7	911.7
Oxford	383.0	483.6	236.7	750.9	1,854.2	1,517.7	1,156.4	251.4	1,248.9	4,174.4
Penobscot	180.7	1,141.3	280.9	639.1	2,242.0	716.5	2,315.5	496.0	1,277.8	4,805.8
Piscataquis	91.6	1,379.2	233.1	853.0	2,556.9	412.7	3,188.8	384.2	1,986.1	5,971.9
Sagadahoc	39.2	51.9	46.5	29.3	166.8	121.1	127.2	67.5	61.1	376.9
Somerset	133.6	1,249.3	367.6	918.0	2,668.4	523.2	2,806.0	637.5	1,985.8	5,952.5
Waldo	37.6	203.6	94.6	144.9	480.7	169.9	387.4	144.0	252.1	953.5
Washington	120.6	806.1	158.1	207.9	1,292.8	463.2	1,557.2	260.6	265.2	2,546.2
York	371.9	109.2	185.3	209.9	876.3	1,495.2	322.7	266.7	340.8	2,425.4
Total, all counties	2,158.2	9,522.0	2,673.8	6,549.2	20,889.7	8,444.6	21,410.4	4,126.1	12,985.6	46,966.7
SE	6.6	2.2	3.1	2.3	1.3	7.0	2.9	5.1	3.4	2.0

Table 112. Net volume of growing-stock trees on timberland by county and species group, Maine, 1995

(In millions of cubic feet)

Species group	Counties								
	Androscoggin	Aroostook	Cumberland	Franklin	Hancock	Kennebec	Knox	Lincoln	Oxford
Balsam fir	18.6	513.3	17.1	208.2	143.5	27.1	18.7	30.4	151.8
Tamarack	.9	66.1	.0	.5	10.1	3.0	.0	1.0	.0
White spruce	.0	177.7	.0	24.8	37.6	.0	10.3	.1	7.5
Black spruce	.1	150.8	.0	14.7	11.4	.4	.0	.8	16.9
Red spruce	1.0	691.1	10.0	136.4	326.1	.9	43.9	28.3	182.3
Red pine	1.0	.0	.0	.0	5.2	2.1	.8	.6	9.1
White pine	63.6	39.5	219.6	30.7	102.6	155.0	17.0	143.8	373.9
Northern white-cedar	.0	808.0	.1	30.0	89.2	7.1	1.2	.2	10.5
Hemlock	25.6	96.4	98.5	41.4	66.0	53.7	20.4	34.3	114.6
Other softwoods	.0	.1	.7	.0	17.8	.3	.0	.0	.0
Total softwoods	110.8	2,542.9	346.1	486.9	809.5	249.7	112.4	239.5	866.6
Red maple	54.9	273.8	123.1	142.8	189.9	79.9	20.5	37.4	203.6
Sugar maple	7.8	527.8	3.6	118.0	35.8	11.0	1.0	.4	126.7
Yellow birch	1.9	212.5	8.0	84.8	24.4	5.8	1.9	5.0	154.5
Paper birch	11.4	153.5	29.2	121.5	87.6	21.5	16.5	16.1	138.5
Gray birch	3.0	.1	2.4	6.2	6.7	3.6	1.3	2.2	5.1
Beech	1.4	221.5	26.5	44.6	29.0	27.5	3.3	13.6	119.3
White ash	8.6	23.4	19.6	39.1	20.9	21.6	5.3	5.6	33.0
Black ash	2.8	14.2	.9	4.0	5.9	.3	.0	.0	2.5
Aspen	23.3	388.9	16.3	43.8	60.4	35.9	5.1	6.0	107.3
White oaks	.0	.0	4.0	.0	.0	.0	.0	.0	3.2
Red oaks	27.5	.8	70.1	16.2	32.4	33.8	25.2	31.4	90.0
Basswood	.0	.2	1.1	5.8	.4	2.2	.0	.0	1.0
Elm	.9	2.9	.3	.6	.0	3.1	.1	.0	1.3
Other hardwoods	2.0	1.2	5.4	2.2	.7	8.4	.7	.4	1.7
Total hardwoods	145.4	1,820.8	310.6	629.6	493.9	254.5	80.9	118.1	987.6
Total, all species	256.3	4,363.6	656.6	1,116.5	1,303.4	504.2	193.3	357.6	1,854.2
SE	10.7	2.8	8.1	5.3	4.9	7.7	21.0	12.2	3.9

Table 112. continued

(In millions of cubic feet)

Species group	Counties								
	Penobscot	Piscataquis	Sagadahoc	Somerset	Waldo	Washington	York	Total	
Balsam fir	179.6	286.7	6.8	348.0	66.1	160.4	7.5	2,184.0	3.6
Tamarack	33.4	16.7	.2	11.2	4.5	19.0	.4	166.9	15.0
White spruce	27.7	77.1	.0	41.0	8.2	49.1	.0	461.2	8.0
Black spruce	14.9	47.0	.1	46.4	1.2	12.6	1.1	318.5	12.8
Red spruce	299.9	611.2	19.8	460.5	43.9	305.4	5.8	3,166.7	4.0
Red pine	15.0	.9	.0	.4	.0	27.4	1.1	63.7	27.7
White pine	165.0	90.7	36.9	132.8	37.6	92.2	367.0	2,067.8	6.7
Northern white-cedar	325.1	263.3	6.0	211.7	32.0	153.3	.0	1,937.9	5.4
Hemlock	260.8	77.1	18.9	130.6	47.5	106.3	94.3	1,286.4	6.3
Other softwoods	.6	.0	2.2	.3	.2	1.0	3.8	27.1	62.7
Total softwoods	1,322.0	1,470.8	91.0	1,382.9	241.1	926.7	481.1	11,680.2	2.1
Red maple	246.3	208.4	43.0	297.6	79.7	154.8	172.5	2,328.0	3.2
Sugar maple	137.3	264.5	.0	294.1	17.6	32.8	5.1	1,583.5	5.1
Yellow birch	75.6	139.3	1.8	177.6	6.8	25.3	15.4	940.5	4.3
Paper birch	89.4	114.5	5.4	168.6	35.1	64.7	28.2	1,101.8	4.7
Gray birch	13.1	6.0	.2	12.3	.5	3.6	1.4	67.5	11.4
Beech	135.6	159.1	.6	111.8	11.5	15.6	7.4	928.5	5.9
White ash	34.6	24.8	3.5	56.4	15.0	3.3	12.9	340.9	9.0
Black ash	12.5	8.4	.0	16.5	.0	2.8	.2	71.1	13.7
Aspen	147.7	143.5	.8	123.8	43.1	55.2	24.0	1,225.1	6.7
White oaks	3.5	.0	.0	.6	.0	.0	6.1	17.4	28.3
Red oaks	13.8	10.9	19.4	3.7	24.9	6.9	112.5	519.3	8.2
Basswood	4.6	1.8	.0	15.1	.6	.0	.9	33.7	19.9
Elm	1.3	1.2	.0	2.5	.8	.0	2.0	16.9	18.6
Other hardwoods	4.6	3.8	1.1	5.0	4.0	.9	6.6	48.7	16.0
Total hardwoods	919.9	1,086.1	75.8	1,299.0	239.5	366.0	395.2	9,222.9	1.9
Total, all species	2,242.0	2,556.9	166.8	2,668.4	480.7	1,292.8	876.3	20,889.7	1.3
SE	3.7	3.6	16.9	3.6	9.0	4.8	8.9	1.3	

Table 113. Net volume of sawtimber trees on timberland by county and forest-type group, Maine, 1995

(In millions of board feet)

Counties	Forest-type group									Total	SE
	White/ red pine	Spruce/ fir	Loblolly/ shortleaf	Oak/ pine	Oak/ hickory	Oak/gum/ cypress	Elm/ash/ red maple	Northern hardwoods	Aspen/ birch		
Androscoggin	176.1	.0	.0	.0	49.3	.0	13.4	237.2	55.8	531.8	17.6
Aroostook	85.0	4,650.4	.0	.0	.0	.0	27.8	4,414.8	928.7	10,106.7	4.0
Cumberland	823.4	40.5	.0	177.5	237.8	.0	9.8	370.3	51.2	1,710.6	11.5
Franklin	145.7	707.8	.0	.0	18.3	.0	12.9	1,000.7	208.1	2,093.7	8.2
Hancock	399.2	1,506.9	67.5	.0	47.4	.0	12.8	546.9	166.6	2,747.3	8.2
Kennebec	599.8	26.4	.0	32.0	63.0	.0	7.6	399.7	72.3	1,200.8	13.0
Knox	174.0	190.3	.0	3.3	22.7	.0	.0	32.0	35.3	457.7	34.6
Lincoln	518.4	78.8	.0	44.3	70.3	.0	.0	187.0	12.8	911.7	20.6
Oxford	1,365.5	559.6	.0	139.7	177.7	.0	46.8	1,661.5	223.6	4,174.4	6.9
Penobscot	1,100.5	1,648.6	.0	.0	71.5	.0	77.0	1,465.1	443.1	4,805.8	5.7
Piscataquis	202.0	2,766.2	.0	.0	20.4	.0	42.1	2,559.6	381.6	5,971.9	5.0
Sagadahoc	105.5	.0	.0	58.1	83.0	.0	.0	127.1	3.1	376.9	20.8
Somerset	557.9	1,834.0	.0	.0	.0	.0	33.1	3,226.0	301.4	5,952.5	5.6
Waldo	224.9	296.6	.0	.0	137.4	.0	1.0	145.6	147.9	953.5	14.6
Washington	366.2	1,349.3	.0	56.1	27.1	.0	13.4	599.2	134.9	2,546.2	7.9
York	1,528.9	22.2	.0	87.0	338.3	.0	39.5	406.2	3.2	2,425.4	14.1
Total, all counties	8,373.2	15,677.6	67.5	598.0	1,364.3	.0	337.4	17,378.8	3,169.8	46,966.7	2.0
SE	8.5	4.1	100.0	28.5	17.1	.0	21.0	3.7	9.0	2.0	

Table 114. Net volume of sawtimber trees on timberland by county and stand-size class, Maine, 1995

(In millions of board feet)

Counties	Stand-size class				All classes	SE
	Saw- timber	Pole- timber	Sapling and seedling	Non- stocked		
Androscoggin	329.3	173.5	29.0	.0	531.8	17.6
Aroostook	7,356.7	2,252.1	498.0	.0	10,106.7	4.0
Cumberland	1,116.6	549.3	44.7	.0	1,710.6	11.5
Franklin	1,084.1	910.5	99.1	.0	2,093.7	8.2
Hancock	1,708.9	994.0	41.5	2.9	2,747.3	8.2
Kennebec	943.9	245.3	11.7	.0	1,200.8	13.0
Knox	373.6	76.3	7.8	.0	457.7	34.6
Lincoln	672.5	217.0	22.2	.0	911.7	20.6
Oxford	2,703.0	1,391.7	79.7	.0	4,174.4	6.9
Penobscot	3,164.4	1,466.9	174.5	.0	4,805.8	5.7
Piscataquis	4,055.1	1,639.3	276.3	1.2	5,971.9	5.0
Sagadahoc	330.8	41.5	4.5	.0	376.9	20.8
Somerset	4,389.8	1,417.9	144.8	.0	5,952.5	5.6
Waldo	633.3	309.7	10.5	.0	953.5	14.6
Washington	1,307.9	1,105.5	132.8	.0	2,546.2	7.9
York	1,902.8	465.7	56.9	.0	2,425.4	14.1
Total, all counties	32,072.7	13,256.1	1,633.8	4.1	46,966.7	2.0
SE	3.3	3.3	8.0	76.9	2.0	

Table 115. Net volume of sawtimber trees on timberland by county and species group, Maine, 1995

(In millions of board feet)

Species group	Counties								
	Androscoggin	Arroostook	Cumberland	Franklin	Hancock	Kennebec	Knox	Lincoln	Oxford
Balsam fir	23.9	854.6	15.9	372.2	116.5	20.6	18.2	12.7	235.7
Tamarack	1.8	166.6	.0	.9	32.9	8.6	.0	.0	.0
White spruce	.0	556.9	.0	66.8	105.6	.0	37.0	.0	15.3
Black spruce	.0	209.9	.0	40.2	16.6	.0	.0	2.7	35.1
Red spruce	.0	1,889.8	19.5	304.2	984.7	2.6	141.3	61.2	473.5
Red pine	5.5	.0	.0	.0	20.1	7.3	3.2	2.8	33.0
White pine	233.8	175.3	838.8	120.6	355.2	581.5	69.0	545.8	1,484.6
Northern white-cedar	.0	1,835.0	.0	60.1	173.1	5.7	2.0	.0	21.1
Hemlock	68.9	345.1	320.3	128.9	195.8	153.3	75.5	101.2	375.7
Other softwoods	.0	.0	3.1	.0	63.1	.0	.0	.0	.0
Total softwoods	333.8	6,033.1	1,197.6	1,094.0	2,063.6	779.5	346.2	726.4	2,674.1
Red maple	68.7	472.6	177.9	228.5	251.5	108.5	2.8	44.6	197.1
Sugar maple	8.3	1,681.8	2.8	171.2	67.6	22.4	1.3	.0	260.8
Yellow birch	.0	525.4	20.8	183.9	34.3	7.9	.0	11.5	360.4
Paper birch	13.5	113.8	43.8	114.0	79.7	29.9	7.6	22.1	140.5
Gray birch	.0	.0	.0	.0	.0	.0	.0	.0	.0
Beech	2.6	471.9	17.0	93.9	44.7	53.9	1.7	26.5	176.8
White ash	9.2	60.1	35.6	51.6	34.5	43.7	11.8	4.9	54.3
Black ash	.0	25.3	.0	2.9	20.5	.0	.0	.0	.0
Aspen	35.9	715.8	22.3	86.7	101.7	70.5	6.6	6.3	144.9
White oaks	.0	.0	12.0	.0	.0	.0	.0	.0	.0
Red oaks	58.2	2.8	168.3	39.8	49.3	61.2	78.8	69.4	160.7
Basswood	.0	.0	.0	23.6	.0	6.5	.0	.0	3.4
Elm	.0	4.2	.0	.0	.0	2.1	.0	.0	1.3
Other hardwoods	1.6	.0	12.3	3.6	.0	14.8	.9	.0	.0
Total hardwoods	198.0	4,073.6	512.9	999.6	683.7	421.3	111.5	185.3	1,500.3
Total, all species	531.8	10,106.7	1,710.6	2,093.7	2,747.3	1,200.8	457.7	911.7	4,174.4
SE	17.6	4.0	11.5	8.2	8.2	13.0	34.6	20.6	6.9

Table 115. continued

(In millions of board feet)									
Species group	Counties								
	Penobscot	Piscataquis	Sagadahoc	Somerset	Waldo	Washington	York	Total	
Balsam fir	204.6	369.3	3.3	508.5	44.1	156.4	3.6	2,960.1	5.8
Tamarack	54.1	39.8	.0	15.8	10.9	47.1	1.2	379.6	17.7
White spruce	61.6	213.8	.0	113.6	18.6	80.1	.0	1,269.5	10.1
Black spruce	27.1	80.0	.0	46.3	3.8	7.6	1.8	471.0	15.2
Red spruce	739.1	1,495.2	71.0	1,256.0	110.4	732.9	16.5	8,297.8	4.7
Red pine	60.0	1.2	.0	1.7	.0	57.5	5.5	197.8	27.8
White pine	655.1	411.5	113.0	520.6	169.9	405.7	1,477.0	8,157.5	7.2
Northern white-cedar	522.1	722.7	3.6	493.7	49.7	265.7	.0	4,154.3	6.0
Hemlock	706.9	268.1	49.3	372.2	149.9	267.4	299.6	3,878.1	7.0
Other softwoods	1.3	.0	8.1	.8	.0	.0	12.7	89.2	70.8
Total softwoods	3,032.0	3,601.6	248.3	3,329.2	557.4	2,020.4	1,817.9	29,855.0	2.8
Red maple	439.4	354.0	63.6	529.8	121.1	251.2	226.4	3,537.7	5.5
Sugar maple	407.6	904.8	.0	798.8	37.7	61.2	7.7	4,434.1	6.3
Yellow birch	179.9	376.7	5.8	500.3	8.4	49.3	14.3	2,278.9	6.2
Paper birch	90.5	123.7	8.2	145.3	34.9	41.3	26.0	1,034.7	7.0
Gray birch	.0	.0	.0	1.2	.0	.0	.0	1.2	100.0
Beech	193.3	240.7	2.6	191.1	14.7	4.7	6.4	1,542.4	9.0
White ash	56.6	30.2	4.0	107.7	22.9	9.3	40.3	576.8	11.5
Black ash	7.0	11.6	.0	16.9	.0	.0	.0	84.2	24.2
Aspen	352.1	284.7	.0	273.0	66.9	91.9	31.8	2,291.3	8.6
White oaks	.0	.0	.0	2.4	.0	.0	10.5	24.9	43.3
Red oaks	32.4	37.3	44.5	11.1	79.1	12.6	233.3	1,138.9	11.8
Basswood	10.7	3.7	.0	39.6	2.3	.0	.0	89.8	28.4
Elm	.0	.0	.0	1.2	.0	.0	.0	8.8	45.9
Other hardwoods	4.3	2.8	.0	4.8	8.1	4.1	10.8	67.9	28.2
Total hardwoods	1,773.8	2,370.3	128.6	2,623.3	396.1	525.7	607.5	17,111.7	3.0
Total, all species	4,805.8	5,971.9	376.9	5,952.5	953.5	2,546.2	2,425.4	46,966.7	2.0
SE	5.7	5.0	20.8	5.6	14.6	7.9	14.1	2.0	

Table 116. Average annual net growth of growing-stock and sawtimber volume on timberland by county and species group, Maine, 1995

Counties	(In thousands of cubic feet)			(In thousands of board feet)		
	Growing-stock			Sawtimber		
	Softwoods	Hardwoods	All groups	Softwoods	Hardwoods	All groups
Androscoggin	3,831	4,140	7,971	13,191	7,362	20,553
Aroostook	16,345	41,833	58,178	95,422	80,173	175,595
Cumberland	9,829	11,320	21,149	35,314	16,053	51,367
Franklin	4,958	11,402	16,360	21,776	26,679	48,455
Hancock	24,256	15,036	39,292	67,198	22,959	90,157
Kennebec	4,045	5,231	9,276	12,522	7,983	20,506
Knox	1,197	1,797	2,994	4,173	931	5,103
Lincoln	6,140	3,169	9,309	17,054	5,469	22,524
Oxford	16,674	26,380	43,053	75,328	49,290	124,618
Penobscot	37,741	28,384	66,125	98,290	55,690	153,980
Piscataquis	6,675	17,836	24,511	52,628	23,775	76,403
Sagadahoc	534	2,175	2,709	-1,897	2,823	926
Somerset	12,875	21,636	34,512	69,577	39,329	108,907
Waldo	7,595	6,647	14,242	18,108	13,602	31,709
Washington	15,475	11,460	26,935	44,197	10,504	54,702
York	14,361	13,774	28,135	48,260	23,941	72,201
Total, all counties	182,532	222,220	404,752	671,141	386,566	1,057,708
SE	6.2	4.1	3.6	5.3	6.5	4.0

Table 117. Average annual removals of growing-stock and sawtimber volume on timberland by county and species group, Maine, 1995

Counties	(In thousands of cubic feet)			(In thousands of board feet)		
	Growing-stock			Sawtimber		
	Softwoods	Hardwoods	All groups	Softwoods	Hardwoods	All groups
Androscoggin	-3,149	-3,129	-6,278	-10,302	-5,162	-15,464
Aroostook	-98,382	-20,337	-118,719	-227,886	-44,036	-271,922
Cumberland	-9,370	-2,983	-12,353	-34,980	-5,076	-40,056
Franklin	-18,153	-13,886	-32,039	-50,610	-30,037	-80,648
Hancock	-7,473	-2,775	-10,248	-16,274	-4,057	-20,331
Kennebec	-10,414	-8,228	-18,642	-37,996	-11,765	-49,761
Knox	-1,557	-1,793	-3,351	-5,123	-3,609	-8,732
Lincoln	-4,308	-650	-4,958	-15,483	-1,006	-16,489
Oxford	-15,622	-12,902	-28,524	-41,584	-21,044	-62,628
Penobscot	-37,123	-18,257	-55,379	-95,749	-33,155	-128,905
Piscataquis	-67,237	-21,012	-88,248	-167,732	-45,917	-213,649
Sagadahoc	-1,183	-450	-1,632	-5,368	-116	-5,485
Somerset	-49,900	-21,709	-71,609	-94,731	-45,082	-139,814
Waldo	-4,291	-3,447	-7,738	-9,551	-4,737	-14,289
Washington	-25,685	-6,552	-32,237	-66,522	-13,602	-80,125
York	-6,973	-3,654	-10,627	-29,013	-7,292	-36,305
Total, all counties	-360,819	-141,765	-502,584	-908,908	-275,695	-1,184,603
SE	5.1	5.8	4.1	5.8	7.1	4.9

DEFINITIONS OF TERMS

Acceptable tree. (a) Live sawtimber trees that do not qualify as preferred trees but are not cull trees. (b) Live poletimber trees that prospectively will not qualify as preferred trees, but are not now or prospectively cull trees.

Accretion. The estimated net growth on growing-stock trees that were measured during the previous inventory (divided by the number of growing seasons between surveys to produce average annual accretion). It does not include the growth on trees that were cut during the period, nor those trees that died.

Basal-area class. A classification of forest land based on basal area (cross-sectional area of a tree stem at breast height in square feet per acre) of all live trees of all sizes.

Board foot. A unit of lumber measurement 1 foot long, 1 foot wide, and 1 inch thick, or its equivalent.

Board-foot stand-volume class. A classification of forest land based on net board-foot volume of sawtimber trees per acre.

Bog/Marsh/Swamp. Land that has less than 10.0 percent stocking with live trees and which characteristically supports low, generally herbaceous or shrubby vegetation, and which is intermittently covered with water during all seasons; includes tidal areas that are covered with brackish water during high tides.

Commercial species. Tree species currently or prospectively suitable for industrial wood products; excludes species of typically small size, poor form, or inferior quality, such as hawthorn and sumac.

County and municipal lands. Lands owned by counties and local public agencies or municipalities or leased to them for 50 years or more.

Cropland. Land that currently supports agricultural crops including silage and feed grains, bare farm fields resulting from cultivation or harvest, and maintained orchards.

Cubic-foot stand-volume class. A classification of forest land based on net cubic-foot volume of all live trees per acre.

Cull decrement. The net volume of rough or rotten trees in the previous inventory that are classified as growing-stock trees in current inventory (divided by the

number of growing seasons between surveys to produce average annual cull decrement).

Cull tree. A rough tree or a rotten tree.

Cull increment. The net volume of growing-stock trees in the previous inventory that are classified as rough or rotten trees in the current inventory (divided by the number of growing seasons between surveys to produce average annual cull increment).

Diameter at breast height (d.b.h.). The diameter outside bark of a standing tree measured at 4-1/2 feet above the ground.

Dry ton. A unit of measure of dry weight equivalent to 2,000 pounds or 907.1848 kilograms.

Dry weight. The weight of wood and bark as it would be if it had been oven-dried; usually expressed in pounds or tons.

Farmer-owned lands. Lands owned by farm operators, whether part of the farmstead or not; excludes land leased by farm operators from non farm owners.

Federal lands. Lands (other than National Forests) administered by Federal agencies.

Forest industry lands. Lands owned by companies or individuals that operate primary wood-using plants.

Forest land. Land that is at least 10 percent stocked with trees of any size, or that formerly had such tree cover and is not currently developed for a nonforest use. The minimum area for classification of forest land is one acre. The components that make up forest land are timberland and all noncommercial forest land (see definitions).

Forest type. A classification of forest land based on the species that form a plurality of live-tree basal-area stocking.

Forest-type group. A classification of forest land based on the species forming a plurality of live-tree stocking. A combination of forest types that share closely associated species or site requirements are combined into the following major forest-type groups (the descriptions apply to forests in this state):

- a. White/red pine. Forests in which eastern white pine, red pine, or eastern hemlock, singly or in combination, make up the plurality of the stocking; common associates include red maple, oak, sugar maple, and aspen.

b. Spruce/fir. Forests in which red, white, black, or Norway spruces, balsam fir, northern white-cedar, tamarack, or planted larch, singly or in combination, make up a plurality of the stocking; common associates include white pine, red maple, yellow birch, and aspens.

c. Hard pine (also called loblolly/shortleaf pine). Forests in which eastern redcedar or pitch pine, singly or in combination, make up a plurality of the stocking; common associates include white pine, paper birch, sugar maple, and basswood.

d. Oak/pine. Forests in which hardwoods (usually hickory or upland oaks) make up a plurality of the stocking and in which pines or eastern redcedar contribute 25 to 50 percent of the stocking.

e. Oak/hickory. Forests in which upland oaks, hickory, yellow-poplar, black locust, sweetgum, or red maple (when associated with central hardwoods), singly or in combination, make up a plurality of the stocking and in which pines or eastern redcedar make up less than 25 percent of the stocking; common associates include white ash, sugar maple, and hemlock.

f. Oak/gum/cypress. Bottomland forests in which tupelo, blackgum, sweetgum, oaks, or southern cypress, singly or in combination, make up a plurality of the stocking and in which pines make up less than 25 percent of the stocking; common associates include cottonwood, willow, ash, elm, hackberry, and maple.

g. Elm/ash/red maple (also called elm/ash/cottonwood). Forests in which elm, willow, cottonwood, or red maple (when growing on wet sites), singly or in combination, make up a plurality of the stocking; common associates include white ash, sugar maple, aspens, and oaks.

h. Northern hardwoods (also called maple/beech/birch). Forests in which sugar maple, beech, yellow birch, black cherry, or red maple (when associated with northern hardwoods), singly or in combination, make up a plurality of the stocking; common associates include white ash, eastern hemlock, basswood, aspens, and red oak.

i. Aspen/birch. Forests in which aspen, paper birch, or gray birch, singly or in combination, make up a plurality of the stocking; common

associates include red maple, white pine, red oaks, and white ash.

Gross growth. The sum of accretion and ingrowth.

Growing-stock trees. Live trees of commercial species classified as sawtimber, poletimber, saplings, or seedlings; that is, all live trees of commercial species except rough and rotten trees.

Growing-stock volume. Net volume, in cubic feet, of growing-stock trees 5.0 inches d.b.h. and larger from a 1-foot stump to a minimum 4.0-inch top diameter outside bark of the central stem, or to the point where the central stem breaks into limbs. Net volume equals gross volume less deduction for cull.

Hard hardwoods. Hardwood species with an average specific gravity greater than 0.50.

Hardwoods. Dicotyledonous trees, usually broad-leaved and deciduous.

Harvested cropland. All lands from which crops were harvested or hay was cut; all land in orchards, citrus groves, vineyards, and nursery and greenhouse products.

Idle farmland. Former cropland or pasture that has not been tended for within the last 2 years and has less than 10 percent stocking with live trees (established seedlings or larger trees), regardless of species.

Improved/maintained pasture. Land that is currently used and maintained for grazing (not including grazed cropland).

Indian lands. (a) Lands held in trust by the United States or States for Indian tribes or individual Indians. (b) Lands owned in fee by Indian tribes whether subject to Federal or State restrictions against alienation or not.

Industrial and commercial land. Supply yards, parking lots, factories, etc.

Ingrowth. The estimated net volume of growing-stock trees that became 5.0 inches d.b.h. or larger during the period between inventories (divided by the number of growing seasons between surveys to produce average annual ingrowth).). Also, the estimated net volume of growing-stock trees 5.0 inches d.b.h. and larger that are growing on land that was reclassified from noncommercial forest land or nonforest land to timberland.

International 1/4-inch rule. A log rule or formula for estimating the board-foot volume of logs. The mathematical formula is:

$$(0.22D^2 - 0.71D)(0.904762)$$

for 4-foot sections, where D=diameter inside bark at the small end of the log section. This rule is used as the USDA Forest Service standard log rule in the Eastern United States.

Land area. (a) Bureau of Census: The area of dry land and land temporarily or partly covered by water, such as marshes, swamps, and river flood plains; streams, sloughs, estuaries, and canals less than 200 feet wide; and lakes, reservoirs, and ponds less than 4.5 acres in area. (b) Forest Inventory and Analysis: same as (a) except that the minimum width of streams, etc. is 120 feet, and the minimum size of lakes, etc. is 1 acre.

Merchantable stem. The main stem of the tree between a 1-foot stump height and a 4-inch top diameter (outside the bark), including the wood and bark.

Mining and waste land. Surface mining, gravel pits, dumps.

Miscellaneous private lands. Privately owned lands other than forest industry and farmer-owned lands.

Mortality. The estimated net volume of growing-stock trees at the previous inventory that died from natural causes before the current inventory (divided by the number of growing seasons between surveys to produce average annual mortality) .

National Forest lands. Federal lands legally designated as National Forests or purchase units and other lands administered as part of the National Forest System by the USDA Forest Service.

Net change. The difference between the current and previous inventory estimates of growing-stock volume (divided by the number of growing seasons between surveys to produce average annual net change). Components of net change are ingrowth plus accretion, minus mortality, minus cull increment, plus cull decrement, minus removals.

Net growth. The change, resulting from natural causes, in growing-stock volume during the period between surveys (divided by the number of growing seasons to produce average annual net growth). Components of net growth are ingrowth plus accretion, minus mortality, minus cull increment, plus cull decrement.

Noncensus water. Streams/ivers between 120 feet and 200 feet in width, and bodies of water between 1

and 4.5 acres in size. The Bureau of the Census classifies such water as land.

Noncommercial forest land. Reserved productive forest land, Christmas tree plantations, other forest land, and other reserved forest land (see definitions).

Noncommercial species. Tree species of typically small size, poor form, or inferior quality that normally do not develop into trees suitable for industrial wood products.

Nonforest land. Land that has never supported forests, or land formerly forested but now in nonforest use such as cropland, pasture, residential areas, or highways.

Nonsalvable dead tree. A dead tree with most or all of its bark missing that is at least 5.0 inches d.b.h. and is at least 4.5 feet tall.

Nonstocked area. A stand-size class of forest land that is stocked with less than 10 percent of minimum full stocking with live trees.

Other cropland. Includes cropland used for cover crops and soil improvement (legumes).

Other farmland. All nonforest land on a farm excluding cropland, pasture, and idle farmland; includes farm lanes, stock pens, and farmsteads.

Other forest land. Forest land that is incapable of producing 20 cubic feet per acre per year of industrial wood under natural conditions, because of adverse site conditions (formerly known as unproductive forest land).

Other reserved forest land. Forest land that is incapable of producing 20 cubic feet per acre per year of industrial wood under natural conditions, because of adverse site conditions, and is protected through statute or administrative designation.

Ownership class. A classification of forest land based on ownership and nature of business or control of decision making for the land. It encompasses all types of legal entities having ownership interest in the land, whether public or private.

Pasture land. Includes any pasture land other than cropland and woodland pasture. It can include lands that have had lime fertilizer or seed applied, or that had been improved by irrigation, drainage, or control of weeds and brush.

Pastured cropland. Includes rotation pasture and grazing land that would have been used for crops without additional improvement.

Pastured timberland. Land that is partially developed, maintained, or managed for pasture and grazing, but which continues to meet the definition of timberland.

Poletimber stand. A stand-size class of forest land that is stocked with at least 10 percent of minimum full stocking with live trees with half or more of such stocking in poletimber or sawtimber trees or both, and in which the stocking of poletimber exceeds that of sawtimber.

Poletimber tree. A live tree of commercial species meeting regional specifications of soundness and form and at least 5.0 inches in d.b.h., but smaller than a sawtimber tree.

Preferred tree. A high-quality tree, from a lumber viewpoint, that would be favored in cultural operations. General characteristics include grade 1 butt log (if sawtimber size), good form, good vigor, and freedom from serious damage.

Productive reserved forest land. Forest land sufficiently productive to qualify as timberland but withdrawn from timber utilization through statute or administrative designation; land exclusively used for Christmas tree production.

Removals. The net growing-stock volume harvested or killed in logging, cultural operations (such as timber stand improvement) or land clearing, and the net growing-stock volume neither harvested nor killed but growing on land that was reclassified from timberland to noncommercial forest land or nonforest land during the period between surveys. **NOTE:** When a current diameter is not available, the previous diameter is used. This applies only to remeasured plots.

Rights-of-way. Highways, pipelines, powerlines, canals.

Rotten tree. A live tree of commercial species that does not contain at least one 12-foot sawlog or two noncontiguous sawlogs, each 8 feet or longer, now or prospectively, and does not meet regional specifications for freedom from defect primarily because of rot; that is, more than 50 percent of the cull volume in the tree is rotten.

Rough tree. The same as a rotten tree except that a rough tree does not meet regional specifications for freedom from defect primarily because of roughness or poor form; also a live tree of noncommercial species.

Salvable dead tree. A tree at least 5.0 inches d.b.h. that has died recently and still has intact bark; may be

standing, fallen, windthrown, knocked down, or broken off.

Sampling error. A measure of the reliability of an estimate, expressed as a percentage of the estimate. The sampling errors given in this report correspond to one standard deviation and are calculated as the square root of the variance, divided by the estimate, and multiplied by 100. Indicated in statistical tables as "SE".

Sapling. All live trees 1.0 through 4.9 inches d.b.h.

Sapling/seedling stand. A stand-size class of forest land that is stocked with at least 10 percent of minimum full stocking with live trees with half or more of such stocking in saplings or seedlings or both.

Sawlog. A log meeting regional standards of diameter, length, and freedom from defect, including a minimum 8-foot length and a minimum top diameter inside bark of 6 inches for softwoods and 8 inches for hardwoods.

Sawlog portion. That part of the bole of a sawtimber tree between the stump and the sawlog top.

Sawlog top. The point on the bole of a sawtimber tree above which a sawlog cannot be produced. The minimum sawlog top is 7.0 inches diameter outside bark (d.o.b.) for softwoods and 9.0 inches d.o.b. for hardwoods.

Sawtimber stand. A stand-size class of forest land that is stocked with at least 10 percent of minimum full stocking with all live trees with half or more of such stocking in poletimber or sawtimber trees or both, and in which the stocking of sawtimber is at least equal to that of poletimber.

Sawtimber tree. A live tree of commercial species at least 9.0 inches d.b.h. for softwoods or 11.0 inches for hardwoods, containing at least one 12-foot sawlog or two noncontiguous 8-foot sawlogs, and meeting regional specifications for freedom from defect.

Sawtimber volume. Net volume in board feet, by the International 1/4-inch rule, of sawlogs in sawtimber trees. Net volume equals gross volume less deductions for rot, sweep, and other defects that affect use for lumber.

SE. See **Sampling error.**

Seedling. A live tree less than 1.0 inch d.b.h. and at least 1 foot tall.

Single-family house. House sheltering one family and immediately adjacent managed land.

Snag. Standing dead tree with most or all of its bark missing that is at least 5.0 inches d.b.h. and at least 4.5 feet tall (does not include salvable dead).

Soft hardwoods. Hardwood species with an average specific gravity of 0.50 or less.

Softwoods. Coniferous trees, usually evergreen and having needles or scalelike leaves.

Stand. A group of forest trees growing on forest land.

Stand-size class. A classification of forest land based on the size class (that is, seedlings, saplings, poletimber, or sawtimber) of all live trees in the area.

Standard cord. A unit of measure for stacked bolts of wood, encompassing 128 cubic feet of wood, bark, and air space. Fuelwood cord estimates can be derived from cubic-foot estimates of growing stock by applying an average factor of 80 cubic feet of solid wood per cord. For pulpwood, a conversion of 85 cubic feet of solid wood per cord is used because pulpwood is more uniform.

State lands. Lands owned by the state or leased to the state for 50 years or more.

Stocking. A relative measure of stand density based on the "A line" of stocking guides for appropriate species and forest types (for a discussion of A line stocking see Gingrich 1967). The relationships between the classes and the percentage of the stocking standard are: nonstocked (0 to 9); poorly stocked (10 to 34); moderately stocked (35 to 59); fully stocked (60 to 100); and overstocked (101 and over).

Strip mine. Area devoid of vegetation due to current or recent general excavation.

Stump. The main stem of a tree from ground level to 1 foot above ground level, including the wood and bark.

Timberland. Forest land producing or capable of producing crops of industrial wood (more than 20 cubic feet per acre per year) and not withdrawn from timber utilization (formerly known as commercial forest land).

Timber products. Roundwood (round timber) products and manufacturing plant by-products harvested from growing-stock trees on timberland; from other sources, such as cull trees, salvable dead trees, limbs, tops, and saplings; and from trees on noncommercial forest and nonforest lands.

Timber removals. The growing-stock or sawtimber volume of trees removed from the inventory for roundwood products, plus logging residues, volume destroyed during land clearing, and volume of standing trees on land that was reclassified from timberland to noncommercial forest land.

Tract/multiple family housing. Multiple individual residential units or attached units (e.g., apartment buildings and condominiums) and immediately adjacent managed land.

Transportation right-of-way. Land associated with highways and railroads.

Tree class. A classification of the quality or condition of trees for sawlog production. Tree class for sawtimber trees is based on their current condition. Tree class for poletimber trees is a prospective determination--a forecast of their potential quality when they reach sawtimber size (11.0 inches d.b.h. for hardwoods, 9.0 inches d.b.h. for softwoods).

Tree grade. A classification of sawtimber quality based on guidelines for tree grades for hardwoods, spruce/fir, white pine, and southern pine. (Note: Red pine was graded using the guidelines for southern pine.)

Trees. Woody plants that have well-developed stems and that usually are more than 12 feet tall at maturity.

Unproductive forest land. See Other forest land.

Upper-stem portion. That part of the main stem or fork of a sawtimber tree above the sawlog top to a diameter of 4.0 inches outside bark, or to the point where the main stem or fork breaks into limbs.

Urban forest land. Forest land sufficiently productive to qualify as timberland that is completely surrounded by or nearly surrounded by urban development (not parks), whether commercial, industrial, or residential.

Utility right-of-way. Land associated with pipeline or electric transmission lines; identified only if vegetative cover differs from adjacent land use.

Veneer log or bolt. A roundwood product from which veneer is sliced or sawn that usually meets certain minimum standards of diameter, length, and defect.

Volume suitable for pulpwood. The sound volume (only rotten cull excluded) of growing-stock and rough trees.

SPECIES GROUPS OF MAINE

Species Group	Common Name
Balsam Fir <i>Abies balsamea</i>	balsam fir
Tamarack <i>Larix sp.</i> <i>L. laricina</i>	larch tamarack
White Spruce <i>Picea glauca</i>	white spruce
Black Spruce <i>P. mariana</i>	black spruce
Red Spruce <i>P. rubens</i>	red spruce
Red Pine <i>Pinus resinosa</i>	red pine
White Pine <i>P. strobus</i>	eastern white pine
Northern White-cedar <i>Thuja occidentalis</i>	northern white-cedar
Hemlock <i>Tsuga canadensis</i>	eastern hemlock
Other Softwoods <i>Includes all other softwoods measured in Maine</i>	
Red Maple <i>Acer rubrum</i> <i>A. saccharinum</i>	red maple silver maple
Sugar Maple <i>A. nigrum</i> <i>A. saccharum</i>	black maple sugar maple
Yellow Birch <i>Betula alleghaniensis</i>	yellow birch
Paper Birch <i>B. papyrifera</i>	paper birch
Gray Birch <i>B. populifolia</i>	gray birch

Species Group	Common Name
Beech	
<i>Fagus grandifolia</i>	American beech
White Ash	
<i>Fraxinus americana</i>	white ash
Black Ash	
<i>F. nigra</i>	black ash
Aspen	
<i>Populus balsamifera</i>	balsam poplar
<i>P. deltoides</i>	eastern cottonwood
<i>P. grandidentata</i>	bigtooth aspen
<i>P. heterophylla</i>	swamp cottonwood
<i>P. tremuloides</i>	quaking aspen
White Oaks	
<i>Quercus alba</i>	white oak
<i>Q. bicolor</i>	swamp white oak
<i>Q. lyrata</i>	overcup oak
<i>Q. macrocarpa</i>	bur oak
<i>Q. michauxii</i>	swamp chestnut oak
<i>Q. muehlenbergii</i>	chinkapin oak
<i>Q. prinus</i>	chestnut oak
<i>Q. stellata</i>	post oak
Red Oaks	
<i>Q. coccinea</i>	scarlet oak
<i>Q. ellipsoidalis</i>	northern pin oak
<i>Q. falcata</i>	southern red oak
<i>Q. falcata</i> var. <i>pagodifolia</i>	cherrybark oak
<i>Q. imbricaria</i>	shingle oak
<i>Q. laurifolia</i>	laurel oak
<i>Q. nigra</i>	water oak
<i>Q. palustris</i>	pin oak
<i>Q. rubra</i>	northern red oak
<i>Q. shumardii</i>	shumard oak
<i>Q. phellos</i>	willow oak
<i>Q. velutina</i>	black oak
Basswood	
<i>Tilia americana</i>	American basswood
Elm	
<i>Ulmus alata</i>	winged elm
<i>U. americana</i>	American elm
<i>U. rubra</i>	slippery elm
<i>U. thomasii</i>	rock elm
Other Hardwoods	
<i>Includes all other hardwoods measured in Maine</i>	

METRIC EQUIVALENTS

1 acre = 4,046.86 square meters
1 acre = 0.404686 hectares
1,000 acres = 404.686 hectares

1 board foot = 0.00348 cubic meters
1,000 board feet = 3.48 cubic meters
1 cubic foot = 0.028317 cubic meters
1,000 cubic feet = 28.317 cubic meters

1 cord (wood, bark, and air space) = 3.6246 cubic meters
1 cord (solid wood, pulpwood) = 2.4069 cubic meters
1 cord (solid wood, other than pulpwood) = 2.2654 cubic meters
1,000 cords (pulpwood) = 2,406.9 cubic meters
1,000 cords (other products) = 2,265.4 cubic meters

1 inch = 2.54 centimeters or 0.0254 meters
1 foot = 30.48 centimeters or 0.3048 meters
1 mile = 1.609 kilometers
1 square foot = 929.03 square centimeters
1 square foot = 0.0929 square meters
1 square foot per acre basal area = 0.229568 square meters per hectare
1 cubic foot per acre = 0.0699 cubic meters per hectare

1 ton = 907.1848 kilograms
1,000 tons = 907.1848 metric tons

Breast height = 1.4 meters above ground level

Although 1,000 board feet are theoretically equivalent to 2.36 cubic meters, this is true only when a board foot is actually a piece of wood with a volume 1/12 of a cubic foot. The International 1/4-inch log rule is used by the USDA Forest Service in the East to estimate the product potential in board feet. The reliability of the estimate obtained by conversion will vary with the size of the log measure. The conversion given here, 3.48 cubic meters, is based on the cubic volume of a log 16 feet long and 15 inches in diameter inside bark (d.i.b.) at the small end. This conversion could be used for average comparisons when accuracy of 10 percent is acceptable. Because the board foot unit is not a true measure of wood volume and because products other than dimension lumber are becoming important, this unit may eventually be phased out and replaced by the cubic meter.

REFERENCES

Ferguson, Roland H.; Longwood, Franklin R. 1960. **The timber resources of Maine.** Upper Darby, PA: U.S. Department of Agriculture, Forest Service, Northeastern Forest Experiment Station. 77 p.

Ferguson, Roland H.; Kingsley, Neal P. 1972. **The timber resources of Maine.** Resour. Bull. NE-26. Upper Darby, PA: U.S. Department of Agriculture, Forest Service, Northeastern Forest Experiment Station. 129 p.

Gingrich, Samuel F. 1967. **Measuring and evaluating stocking and stand density in upland hardwood forests in the Central States.** Forest Science. 13(1): 38-53.

Powell, Douglas S.; Dickson, David R. 1984. **Forest statistics for Maine: 1971 and 1982.** Resour. Bull. NE-81. Broomall, PA: U.S. Department of Agriculture, Forest Service, Northeastern Forest Experiment Station. 194 p.

Scott, Charles T. 1979. **Northeastern forest survey board-foot volume equations.** Res. Note NE-271. Broomall, PA: U.S. Department of Agriculture, Forest Service, Northeastern Forest Experiment Station. 3 p.

Scott, Charles T. 1981. **Northeastern forest survey revised cubic-foot volume equations.** Res. Note NE-304. Broomall, PA: U.S. Department of Agriculture, Forest Service, Northeastern Forest Experiment Station. 3 p.

Griffith, Douglas M.; Alerich, Carol L. 1996. **Forest Statistics for Maine, 1995.** Resour. Bull. NE-135. Radnor, PA: U.S. Department of Agriculture, Forest Service, Northeastern Forest Experiment Station. 134 p.

A statistical report on the fourth forest inventory of Maine conducted in 1994-96. Findings are displayed in 117 tables containing estimates of forest area, numbers of trees, timber volume, and growth. Data are presented at three levels: state, geographic unit, and county.

Keywords: Forest survey, inventory, area, volume, growth



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