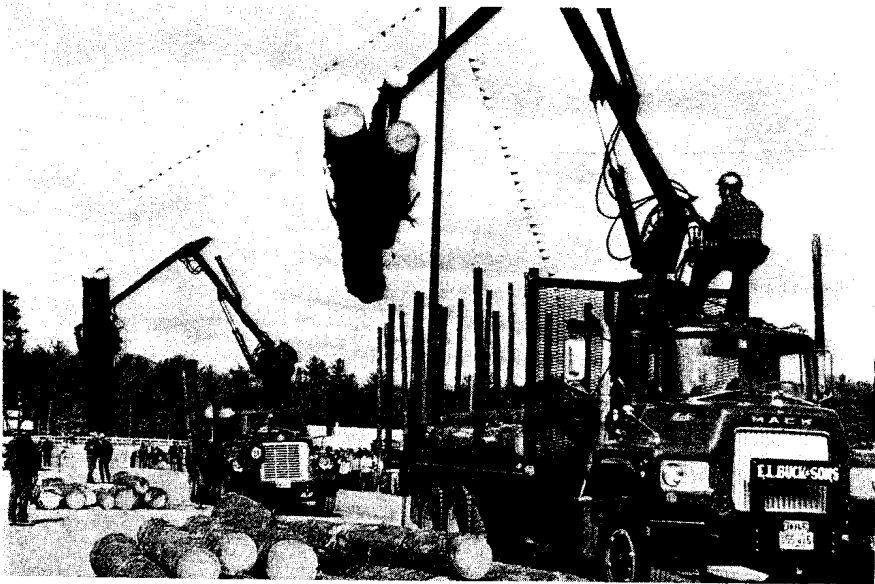
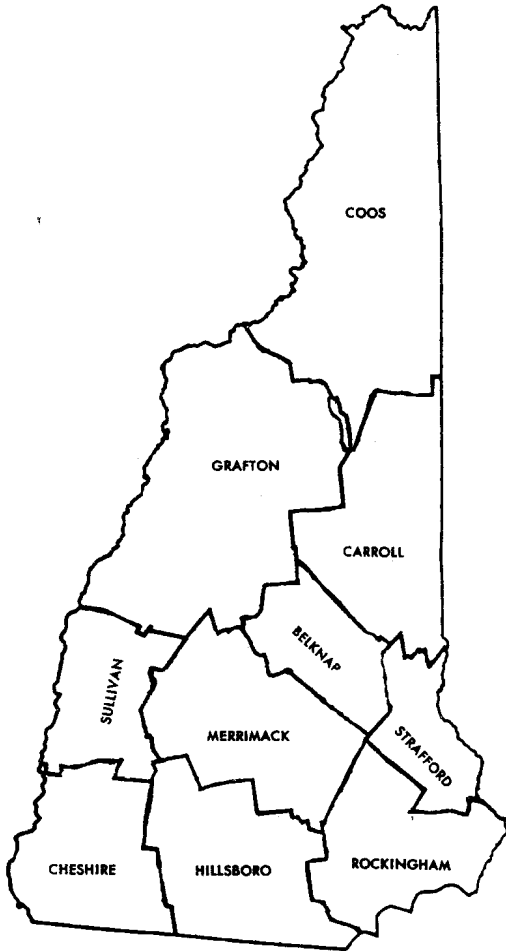


NEW HAMPSHIRE FOREST MARKET REPORT 1972



**COOPERATIVE EXTENSION SERVICE
UNIVERSITY OF NEW HAMPSHIRE**
with the
**NEW HAMPSHIRE DEPARTMENT OF RESOURCES
AND ECONOMIC DEVELOPMENT COOPERATING**

MAP OF NEW HAMPSHIRE
(Showing Counties)



by

NICOLAS ENGALICHEV

Forest Products Utilization and Marketing Specialist

ROGER P. SLOAN

Extension Forester

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The information in this bulletin covering prices, specifications, names and addresses was gathered by the New Hampshire County Foresters and the bulletin was prepared by:

Roger P. Sloan
State Extension Forester

Nicolas Engalichev
Forest Products Utilization and Marketing Specialist

County Foresters

County	Name	Address
Belknap	Scott, Donald H.	County Extension Office Laconia 524-1737
Carroll	Pohl, Peter W.	County Extension Office Conway 447-5922
Cheshire	Ferguson, John R., Jr.	County Extension Office Keene 352-4550
Coos	Nolet, Richard J. Patmos, Marshall (Assistant)	County Extension Office Lancaster 788-4961
Grafton	Sargent, Leslie B., Jr. Kinder, Richard G. (Associate)	County Extension Office Woodsville 747-2377
Hillsboro	Breck, Robert W.	County Extension Office Milford 673-2510
Merrimack	Conde, John A.	County Extension Office Concord 225-5505
Rockingham	Knowles, Stanley W.	County Extension Office County Building Exeter 772-4711 Ext. 37
Strafford	Black, Donald C.	County Extension Office Rochester 332-5808
Sullivan	Szymujko, Joseph A.	County Extension Office Claremont 543-3781
SUPERVISOR:	Leighton, Roger S.	Pettee Hall, UNH Durham 862-1029 or Dept. of Resources Development State House Annex, Concord 271-2214

A GROWING FOREST AND WOOD PRODUCTS INDUSTRY CONTRIBUTE TO THE QUALITY OF ENVIRONMENT

Wood is a "flow" resource as contrasted with other basic materials which are "stock" resources. Wood is a perpetually renewable resource while others are exhaustible. To produce wood no irreplaceable ores or fossil fuels are required. Through the process of photosynthesis, the leaves and needles of trees remove carbon dioxide from the air, combine it with moisture from the soil using the energy of the sun to grow wood. In this everlasting process, oxygen is released to purify the air. While a properly managed forest is growing, it regulates water flow, shelters and feeds wildlife, provides man with a great number of products and offers a place of beauty for recreation and contemplation.

The bountiful positive contributions of the forest are available to man forever as long as sunlight falls on the earth's forests and as long as man recognizes the obligation to manage this unique resource wisely.

AMERICAN FOREST FACTS

America still has about 75 percent as much forestland as existed here when Columbus landed.

The total area is about 758 million acres.

Of that total, about a third — 248 million acres — is set aside in parks, wilderness areas, watersheds, or is not suitable for growing commercial timber. This third of the American forest equals the size of Norway, Sweden, Denmark, Austria, Switzerland, Holland, Belgium and Israel.

The remaining 510 million acres of the total forest base is the commercial forest. This is the land that produces raw material for thousands of wood products, that contributes most to the net oxygen gain, and that literally millions of Americans use for recreation.

There's a commonly held misconception that the commercial forest is owned by a handful of large timber companies.

But that's not true.

The biggest single owner of the commercial forest is government, both state and federal. About 142 million acres of the commercial forestland is publicly held — 28 percent of the total.

Private individuals, about four million persons, own almost 60 percent of the forest, about 303 million acres.

The forest products industry comes in a distant third, with about 13 percent of the commercial forest, something like 66 million acres.

Yet the land owned by the forest products industry produces about a third of the timber required for wood products because it is intensively managed to increase yield.

Industrial forestlands average about 52 cubic feet of new wood growth per acre per year. This is about twice the average growth realized on public lands — 27 cubic feet per acre per year. Both industrial and government growth averages far exceed the productivity of lands held by individuals, but not managed for timber production.

The U.S. Forest Service is fully capable of increasing the growth rate on national forests. In fact, much of the research and development work on which modern forestry practices are based was done by the Forest Service. However, Congress has not provided the funds necessary to practice the high level of management achieved on industrial lands. For example, over the last eight years, only 40 percent of the funds requested by the Forest Service for timber growing have been approved by Congress.

At the beginning of this decade, more than 5 million acres of federally owned land were lying idle, in need of restocking. Another 13 million acres were in need of improvement work. This is acquired land, or land that has been devastated by natural catastrophe, such as fire, insect damage or disease.

Nearly half of the total area of the 11 Western states (359, 197, 200 acres) is in federal ownership. Alaska (not included in that total) is 96.9 percent federally owned.

Over three-quarters of private commercial forestland is in the eastern half of the United States. This is the same area of the country that has the greatest population density — and from which most of the nation's wood and wood products come.

Today there are about 75 million acres under the American Forest Institute Tree Farm program which seeks to provide modern forest management assistance to the owners of small woodlots.

Despite urban growth, modern forestry has helped keep much of the land green. Even those states generally thought of as completely urbanized have substantial forest areas — including New York with about 57 percent of the total land area in trees. The most heavily forested state is Maine (90 percent), and the least-forested, North Dakota (1 percent).

FOREST MARKET REPORT FOR 1972

INDUSTRY OUTLOOK

Most economists are agreed that 1972 will be a recovery year for business. This will mean increased spending for plant construction — which will get an added push if Congress approves the President's proposed investment tax credit.

The high levels of housing starts in 1971 and the expected high rates in 1972 should be reflected in increased activity in furniture markets, indicating an improved outlook for the hardwood lumber industry.

Actual conventional and mobile home production in 1971 are expected to total 2.4 million units, including some 450,000 mobile homes. This will put conventional home construction at near the two million unit mark, a 20-year record for housing production.

For 1972, the National Association of Home Builders foresees a total of 2.1 to 2.2 million conventional housing units. The Department of Housing and Urban Development projects new starts at 2.2 million units, and McGraw-Hill Information Systems predicts 1.95 million conventional units and 400,000 mobile homes, a decline of some two percent from the expected 1971 level of new housing.

If the high level of home construction continues — and the signs are all optimistic — the nation will come the closest to meeting the annual level of 2.6 million new and rehabilitated housing units needed to meet national housing goals set for the decade of the 1970's.

National Forest Products Association is projecting conventional and modular housing construction of 1.95 million units in 1972.

Based on this estimate, and anticipated expansion in economic activity generally, NFPA estimates total lumber consumption for 1972 will be at slightly higher levels than 1971.

According to the latest monthly statistics, lumber production was running at a seasonally adjusted annual rate of nearly 38 billion board feet, a 10 percent increase over monthly production rates in 1970. Lumber shipments were at a seasonally adjusted annual rate of 38.4 billion board feet, a 14 percent increase over the rate in 1970.

The single most important reason for optimistic economic forecasting is the President's crackdown during 1971 on inflation by freezing wages and prices. From the outset of the new economic program, the forest industries supported the President's approach to halt an apparent runaway inflation. While NFPA applauded the President's efforts to revitalize the economy, it was pointed out the hardship conditions the freeze imposed on hardwood producers and producers of selected softwood items whose prices were at depressed levels when the freeze became effective.

The forest products industry, as other industry groups, recognized the need for forthright and dramatic remedial action to counter a recession with inflation.

President Nixon recently announced he was forming an advisory panel on Timber and the Environment. The panel is to report to the President on July 1, 1972, regarding means of increasing the nation's supply of timber while protecting and enhancing the quality of our environment.

The panel will make recommendations on such items as the desirable level of timber harvest on federal lands and methods of accomplishing the harvest while ensuring adequate protection for the environment; cost benefits of alternative forest management programs; citizen involvement in forestry programs; timber sales procedures; and possibilities of increasing timber productivity on non-federal lands.

RECOMMENDATIONS TO PERSONS SELLING TIMBER

New Hampshire woodland owners who plan to sell stumpage, logs, pulpwood, and other forest products are urged to consider the following recommendations before selling.

1. If you are in doubt as to whether you have enough of the right

sort of timber to attract a buyer and are interested in the sort of selective cutting operation that would benefit the remaining stand, contact the County Forester or a Consulting Forester.

2. Consider the possibility of retaining the services of a qualified forester to act as your agent in handling a timber sale in your behalf when you are not in the position to look after the details of a sale, such as marking the trees for cutting, negotiating a fair price for the marked trees, looking after the cutting operations, and making sure the terms of the contract or agreement are being followed. The names and addresses of Consulting Foresters that practice in New Hampshire are listed in this report.

3. Assuming you have enough timber to have selectively cut, find out what sort of operation would be involved — whether a thinning, or an improvement, or re-production, or harvest cut, or a combination of two or more of these.

4. Arrange to have the trees that are to be cut to be marked with paint or a blaze. If not in a position to do this yourself with help from the County Forester, hire a Consulting Forester for the purpose.

5. Find out from buyers of stumpage, logs, pulpwood, and other forest products the prices they offer in order that you may take advantage of the best market. Compare the local prices with those quoted from other sections of the state.

6. Thoroughly investigate all timber markets and prices since in many cases outside markets pay better prices than local markets because of special demands.

7. Before selling, consult your neighbors who have recently sold timber and use their experience as a guide. Ask your County Forester. In many instances, failure to do this has resulted in the woodland owner not getting full value of the product.

8. Advertise and secure competition among outside purchasers. The expense will be small and outside buyers will thus learn of chances to bid on timber in competition with local buyers.

9. Secure bids whenever possible, both by the lump sum sale based on closely estimated volume and by log scale measure. A choice is thus offered and a more profitable form of bid can be accepted.

10. Consider the responsibility of the prospective purchaser before making the sale in order to avoid slow payment, costly collections, and losses.

11. When there is quality timber to market, these trees are worth more than average or poor quality trees. Be sure the buyer takes the factor of tree quality into consideration when offering you a price for stumpage.

12. Remember that standing timber usually increases in values and generally can be sold at any time. The owner, therefore, is not obliged to place his produce on the market, if the price offered is not satisfactory. Sell only trees that should be cut. These trees should be marked by the owner or his agent with the help and advice of a qualified forester. Reliable operators will make partial cuttings by taking only the market trees, if the owner insists.

13. A written timber sale agreement between buyer and seller is more important before cutting starts on a lot. Sample sale agreement forms to fit different kinds of operations can be obtained from your County Forester.

ASSISTANCE RENDERED BY THE COUNTY FORESTER

The County Forester helps woodland owners to help themselves. Your County Forester will assist you in the examination of your woodlands and make recommendations for managing them. He will help you or your agent in marking trees for cutting in limited amounts, and advise you in the marketing of forest products.

There are thousands of acres of young growing trees, such as pine, spruce, fir, and desirable hardwood, that can be converted into desirable stands of trees if the overtopping weed and cull trees are cut or killed. It is profitable to prune young, fast-growing, well-formed trees, especially white pine, with the purpose of growing quality logs that will yield clear lumber. Your County Forester can assist you in getting a forest improvement program started in your woodlands. Under the provisions of the Rural Environmental Assistance Program, the Federal Government shares the cost of woodland improvement and tree planting with woodland owners. Your County Forester can provide you with the information about the cost-sharing programs.

1972 PRICE RANGE FOR FOREST PRODUCTS

Table I. Price Range Standing Timber (Stumpage) and Sawlogs Per MBF

Prices quoted are an average range for the county. Prices will vary from those quoted depending on market conditions. More specific prices can be obtained by contacting the County Forester, Consulting Foresters, or industry representatives. Read carefully the Recommendations for selling on page 6 before disposing of stumpage, logs, and other forest products.

Belknap County

Species	Quality	Stumpage	Roadside	Delivered
White Pine	Medium	\$15-22	\$30-32	\$45-55
	High	22-30	32-36	55-60
Hemlock and Spruce	All grades	10-16	26-32	38-45
Red Oak	Low	10-12	26-32	40-42
	Medium	12-16	30-36	45
White Birch and Yellow Birch	High	16-20+	36+	55-120
	Low	10-12	26-32	38-42
Rock Maple	Medium	12-20	32-40	45-65
	High	20+	40+	75-125
Beech	Low	10-12	26-32	38-42
	Medium	12-20	32-40	50-75
White Ash	High	20+	36+	75-100
	Medium to High	8-12	26-32	40-60
Mixed Hardwoods	Low	10-12	26-32	40-42
	Medium	12-20	30-40	45-55
	High	20+	40+	65-75
		6-12	26-32	36-42

Carroll County

Species	Quality	Stumpage	Roadside	Delivered
White Pine	Low	\$10-15		\$40-50
	Medium	15-25	\$30-40	50-60
	High	25-35	40-55	60-70
Hemlock	Medium	10-18	30-35	40-45
	High	18-25	35-40	
Spruce	Low	15	25	
	Medium	18	25-30	55
	High	24	35-45	60-70
Ash	Medium	15-30	40	60
	High	40	50	70
Basswood		8		35-70
Beech	Low	6		
	Medium	15	25	45
	High	20	35-40	65
Beech-Boltwood				25-32/cord
Red Maple	Low to High	7-12	20-30	50
Sugar Maple	Low	15	25-30	50
	Medium	30	40-50	90
	High	40	70	140
Sugar Maple Boltwood				20-32/cord
Paper Birch	Low	20		65
	Medium	30	50	80-90
	High	55	80	100-140

Carroll County (Continued)

Species	Quality	Stumpage	Roadside	Delivered
Paper Birch Boltwood	Low	12-25/cord 20	30-35/cord	40-48/cord 60
Yellow Birch	Medium	45		60
	High	70		100
Oak	Medium	15-20		45-60
	High	20-30		65-70

Cheshire County¹

Species	Quality	Stumpage	Roadside	Delivered
White Pine	Low to Medium	\$12-15	\$30-35	\$35-45
	Medium to High	15-25	35-42	45-60
Hemlock	Low to Medium	10-15	30-35	36-45
	Medium to High	15-20	35-40	45-50
Spruce	Low to Medium	10-15	32-35	40-45
	Medium to High	15-20	35-40	45-55
Red Oak	Low to Medium	15-20	30-40	50-60
	Medium to High	20-30	40-60	60-70
Yellow (Silver) } Birch	Low to Medium	15-20	30-35	50-60
	Medium to High	20-30	35	60-80
Paper (White) } Birch	Low to Medium	15-20	30-35	50-60
	Medium to High	20-30	35-45	60-90
Sugar (Rock) } Maple	Low to Medium	15-20	30-35	50-60
	Medium to High	20-30	35-50	60-75
Red (Soft) } Maple	Low to Medium	10-15	28-35	40-45
	Medium to High	15-20	35-40	45-50
Beech	Medium to High	10-20	25-30	35-50
White Ash	Low to Medium	(Not purchased		45-60
	Medium to High	separately ex- cept as logs)		60-130

¹ Prices for Brattleboro-Vernon Vermont areas are also included.

Coos County

Species	Quality	Stumpage	Delivered
SAWLOGS			
White Pine	Low	\$18	\$70
	Medium	22	80
	High	25	95
Spruce-Fir	Low	18	65
	Medium	20	75
	High	20-25	80
Hemlock	Average	12-20	40-50
Hard Maple	Low		50
	Medium	25-35	70-85
	High		85-105
Soft Maple	Low		
	Medium	10	60
	High		80
White Birch			60
	Medium	20	90
	High		100

Coos County (Continued)

Species	Quality	Stumpage	Roadside	Delivered
Yellow Birch	Low			120
	Medium	25		135
	High	50		145
White Ash	Low			80
	Medium	20		125
	High			165
White Cedar (over 6" DBH)				
6' to 8' lengths		10	39-45	44-50
6' logs by the cord			32	37
8' logs by the cord			45	50
VENEER				
Yellow Birch	Low			\$120
	Medium			210
	High			315
Red Oak	Low			100
	Medium			110
	High			135
White Birch	Low			120
	Medium			145
	High			185

Grafton County

Species	Quality	Stumpage	Roadside	Delivered
White Pine	Medium	\$15-20	\$35-40	\$40-50
	High	18-30	38-48	45-70
Hemlock	Average	12-18	25-40	40-50
Spruce	Average	15-30	35-48	45-60
Yellow Birch	Sawlog	15-25	35	50-125
	Veneer	25+	45+	125-250
Sugar or Hard Maple	Sawlog	20-35	35-45	50-100
	Veneer	20+	45+	125-165
	Sawlog	20-30	35-45	50-125
White Birch	Veneer	30+	45+	100-150
	Sawlog	5-12	30+	32-60
Soft (Red) Maple	Sawlog	10-16	30-40	40-90
Red Oak	Veneer	20+		60-120
	Sawlog	5-15	30-40	38-60
Beech	Veneer	15+		60-90
	Sawlog	20-45	35-100	50-160
White Ash	Sawlog	10-15	30-40	40-50
Basswood	Veneer	20+		120-160
	Sawlog	10-20	25-38	40-50
Pallet Logs	Mixed Hardwood			

Hillsboro County

Species	Quality	Stumpage	Roadside	Delivered
White Pine	Low	\$10	\$28	\$35
	Medium	17	35	45
	High	25	40	55
Hemlock	Low	8	25	35
	Medium	14	30	40
	High	17	34	45
Red Oak	Low	10	25	35-45
	Medium	18	35	45-55
	High	25	45	55-70
Other Hardwoods	Low	8	25	36-45
Birch, Maple, Ash	Medium	12	30	42-70
Mixed Hardwood (Pallet Stock)	High	18	35	47-100
	Logs			35-45

Merrimack County

Species	Quality	Stumpage	Roadside	Delivered
White Pine	Low	\$ 8-15	\$30-40	\$35-45
	Medium	15-18	40-45	45-50
	High	20-30	45+	50+
Hemlock	Low	10	25-30	35
	Medium	12	30-35	35-45
	High	14+	35+	45+
White Birch	Medium	16-25	50	60-80
	High	25-50	50-90	90-100
Hard Maple	Medium	16-25	50	50-70
	High	30-50	50-90	90-100
Yellow Birch	Medium	25+	50	50-70
	High	30-50	50-90	90-100
Red Oak	Medium	12-25	35-50	50-70
	High	25-50	40+	70-80
Mixed Hardwood (Pallet Stock)	Logs	5-12	28-35	35-45

Rockingham County

Species	Quality	Stumpage	Roadside	Delivered
White Pine	Low	\$ 9-12	\$28-31	\$39-42
	Medium	13-18	32-37	43-48
	High	18-30	38-49	49-60
Hemlock	Medium	12-16	31-35	42-46
	High	17-20	36-39	47-50
	Medium	12-19	31-38	42-49
Oak	High	20-45	39-64	50-75
	Low	10-14	29-33	40-44
*Other Hardwoods	Medium	15-21	34-40	45-51
	High	22-30	41-49	52-60

* Higher prices are paid for white birch, yellow birch, sugar maple, and white ash when the grades are suitable for specialty items such as boltwood and veneer logs.

Strafford County²

Species	Quality	Stumpage	Roadside	Delivered
White Pine ³	Low	\$10-15	\$30-36	\$32-40
	Medium	12-20	32-38	40-45
	High	20-38	40-45	50-55
Hemlock and Spruce	Low	10	28	35-38
	Medium	15	38	38-44
	High	20	42	48
Yellow Birch ¹				
White Birch ¹				
Sugar Maple ¹				
Soft Maple	Low	8	32	38
Red Oak ¹	Medium	12	34-38	40-45
White Oak	High	18	36-44	42-50
Beech				
White Ash ¹				
Basswood ¹				

¹ Higher prices are paid for these species when the grades are suitable for specialty items such as boltwood and veneer logs.

² Prices based on either International rule or sawmill tally of square edge lumber.

³ Occasionally higher prices paid for select logs.

Sullivan County

Species	Quality	Stumpage	Roadside	Delivered
White Pine	Low	\$12-16	\$30-38	\$42-45
	Medium	16-18	35-40	46-50
	High	20-24	40-42	50-60
Hemlock	Medium	12-14	30-35	40-45
	High	14-16	35-38	45-50
Spruce	Medium	10-15	32-40	42-50
	High	15-20	40-42	48-55
	Medium	15-25	35-45	45-60
Yellow Birch	High	20-35	40-50	50-75
	Medium	15-20	35-45	45-55
White Birch	High	20-30	40-50	50-65
	Medium	15-30	35-60	45-75
Sugar Maple	High	30-40	50-65	60-80
	Medium	15-20	35-40	45-55
Red Oak	High	20-25	40-45	55-65
	Medium	20-25	40-45	50-60
White Ash	High	30-35	50-55	60-65
	Medium	15-20	35-40	50-55
Beech		20-25	40-45	55-60
Red Maple				
Mixed Hardwood				
Pallet Stock		8-12	28-32	38-45

Table II. Prices Pulpwood Per Cord — Northern New Hampshire¹

Species	Stumpage	Roadside	Mileage Zone	Mill Yard
Spruce and Fir Rough	\$3.00-6.00	\$14.50-19.00	0-20	\$21.75
			21-40	22.00-23.00
			41+	27.00
White Pine	1.00-2.00			17.00-19.00
Hemlock	1.00-4.00	13.50-15.50		18.50
Tamarack			19.00	
Red Pitch			to	
Scotch Pine				23.50
All Hardwood	1.50-3.00	14.50-16.50		20.00-24.00
Poplar (if scaled)	.50-1.00			15.00

Prices of Pulpwood Per Cord — Southern New Hampshire¹

Species	Stumpage	Roadside	Delivered at Mill
Softwood Rough			\$7.00/Ton
Hardwood Rough	\$2.00-3.00		6.00/Ton

¹ When buying pulpwood by weight: 5600 lbs. equals one cord in hardwoods and 4800 lbs. equals one cord in softwoods.

Table III. Price of Debarked Slabs and Edgings Per Green Ton Strapped

	Delivered to Chipping Plant
Softwood ¹ (mixed)	\$5.25-7.00
Hardwood (mixed)	5.00-6.50 ²

¹ Special prices are paid for slabs and edgings sorted by species (spruce and fir).

² Contact buyers for exact prices and mileage allowances.

Price of Pulp Chips Per Cord¹

	Scheduled Deliveries of Chips Produced from Roundwood ²	Produced from Slabs and Edgings Delivered to Pulp Mill ²
Pine and Hemlock		\$20.00-23.50
Spruce and Fir	\$25.00-28.00	24.00-27.00
Hardwood (mixed)	24.00-27.00	20.00-27.00

¹ Chips are bought by weight or by volume.

² Contact buyers for exact prices and mileage allowances.

Table IV. Price Range of Excelsior Wood, Boltwood, Posts and Railroad Cross Ties

Species	Stumpage	Roadside	Delivered at Mill
	Excelsior Wood Per Cord		
Poplar Peeled Rough			\$22.00- 28.00 18.00
	Boltwood Per Cord ¹		
White Birch	\$8.00-15.00	\$20.00-30.00	30.00- 45.00 per Cord 60.00-105.00 per Mbf.
Beech			20.00- 38.00 per Cord 45.00- 60.00 per Mbf.
Sugar Maple			20.00- 38.00 per Cord 60.00-100.00 per Mbf.
Yellow Birch and Black Birch	8.00-12.00		30.00- 45.00 per Cord 60.00-105.00 per Mbf.
Mixed Hardwood (pallet)	2.00- 5.00	10.00-15.00	18.00- 25.00 per Cord

¹ Price per bolt varies according to diameter and length of bolt. Some mills prefer to buy by the Mbf.

Posts

Species	Length	Top Diameter	Stumpage	Roadside Price
Red (Norway Pine) and Pitch Pine	7'	8"	\$.40	\$1.00
		6"	.10	.50
Cedar	8'	3-6"	.01	.35
		6"		.46
		5"		.41
		4"		.21

Railroad Cross Ties

Grade	Size	Rail Bearing Face	Prices Paid for Green Mixed Oak and Hardwood ¹ Ties (loaded at Mill)	MBF
No. 1	(6"x7"x8'6")	6"	\$1.45	\$48.86
No. 2	(6"x7"x8'6")	7"	2.00	67.40
No. 3	(6"x8"x8'6")	8"	2.80	82.32
No. 4	(7"x8"x8'6")	8"	3.50	88.34
No. 5	(7"x9"x8'6")	9"	3.80	85.12

¹ Beech, Birch, Maple, Cherry, Oak, Ash, Hickory.

Table V. Price Range of Fuelwood Per Cord

Species	Stumpage	Roadside	Delivered Buyers Premises
Hardwood ¹			
4' Wood	\$1.00-3.00	\$12.00-22.00	\$20.00-34.00
12", 14", 16", Lengths		18.00-30.00	20.00-45.00
Slabs (Hardwood or Softwood)		5.00-20.00	16.00-25.00
Fireplace white birch will be slightly higher than above when bought in bundles.			
Prices range up to \$60.00 + per cord.			
Formula for determining cords of fuelwood, pulpwood and boltwood in 4' lengths.			
Average height in inches times length of pile in feet divided by 384 equals the number of cords:			

$$\text{EXAMPLE: } \frac{48'' \times 8'}{384} = 1 \text{ Cord}$$

If wood is longer or shorter than standard length, which is 48", divide by standard bolt length to get current percentage. (EXAMPLE: 39" divided by 48" equals 81%).

¹ 3.00-8.00 asked for sawing 4' wood into stove length.

Table VI. Price Range of Sawdust and Shavings and Bark

	Per-Cord Green at Sawmill	Per Bale Air Dry
Sawdust	2.00-5.00 or \$.02 to .06 per cubic foot	
Shavings	2.00-5.00 or \$.02 to .04 per cubic foot	\$1.00
Bagged Dry Shavings		\$.85 to \$1.15
Bark	\$.02 to \$.04 per cubic foot (loaded) 1.00-6.00 per yard (loaded) \$.50-4.00 per cord	per 3 cu. ft. bag

Table VII. Operating Costs (Contract Prices)

	Felling and Bucking per Mbf	Yarding per Mbf	Trucking ^{3/4} per Mbf
Logs			
Softwood ¹	\$ 6.00-13.00	\$ 6.00-15.00	\$ 5.00-15.00
Softwood ²	8.00-10.00	6.00-11.00	8.00-15.00
Hardwood ¹	6.50-13.00	7.00-18.00	6.00-25.00
Hardwood ²	8.00-12.00	8.00-14.00	9.00-24.00
Pulpwood	per cord	per cord	per cord
Softwood ¹	\$ 7.00- 9.00	\$ 2.00- 4.50	\$ 3.00- 7.00
Hardwood ¹	6.50- 8.50	2.50- 6.00	4.00- 8.00
Hardwood ²	6.50- 9.00	4.00- 6.00	4.00-11.00
Fuelwood	6.90- 9.00	4.00- 6.00	
Lopping Tops (for aesthetics)		\$1.00-2.00/Mbf	
Horse Rental	\$ 1.00 per cord if the jobber feeds the animal. \$ 1.50- 2.00 per cord if the chopper feeds the animal.		
Twitching Stump to Roadside	8.00- 9.00 per cord, horse furnished.		
Chain Saw Rental	0.50- 2.00 per hour.		
Man with Chain Saw	4.00- 5.00 per hour		

Table VII. Operating Costs (Contract Prices) (Continued)

	Felling and Bucking per Mbf	Yarding per Mbf	Trucking ^{3/4} per Mbf
Stickings	4.00- 5.00	square edge hardwood lumber per Mbf.	
	3.00- 4.00	round edge softwood lumber per Mbf.	
Custom Sawing	20.00-35.00	per Mbf for softwoods or \$15-20 per hour.	
	10.00-15.00	more per Mbf for hardwoods.	
Planing	10.00-15.00	per Mbf one face or \$6.00-10.00 per hour.	
	15.00-20.00	per Mbf two faces or \$6.00-10.00 per hour.	
Resawing	6.00- 8.00	per Mbf, per cut.	

¹ For Northern New Hampshire.

² For Southern New Hampshire.

³ Intra-state and inter-state rates are sometimes used.

⁴ There are no established I.C.C. rates for trucking sawlogs and pulpwood. Rates are determined between the trucker and the party wanting the logs hauled on the basis of mileage involved. Average hauling prices are as follows:

Trucking Costs

		Truck	Truck with Loader
Logs	0- 30 miles	\$ 5.00- 8.00 per Mbf	\$15
	30- 50 miles	8.00-12.00 per Mbf	20
	50- 85 miles	12.00-19.00 per Mbf	25
	85-100 miles	19.00-22.00 per Mbf	30
Pulpwood	0- 15 miles	3.00 per cord	
	15- 30 miles	3.00- 4.00 per cord	
	30- 40 miles	4.00- 5.00 per cord	
	40- 60 miles	5.00- 8.00 per cord	
		or .11 per loaded mile per cord plus \$1.01 for standby, delay and unload.	

Note: (Using Forest Service Information from White Mountain National Forest)

Table VIII. Wholesale Rough Air Dried Price
for Graded Eastern White Pine¹

D. Select and Btr.	No. 1 and No. 2 Common	No. 3 Common	No. 4 Common
1x3	\$225	\$180	\$135
1x4	225	180	135
1x5	225	180	135
1x6	260	185	150
1x7	230	185	150
1x8	260	185	150
1x9	240	185	150
1x10	315	185	150
1x11	315	185	150
1x12	355	205	155
5/4 to 8/4 — No. 2 and No. 3 and D select		Add \$5 per M	

**Table VIII. Wholesale Rough Air Dried Price
for Graded Eastern White Pine¹ (Continued)**

D. Select and Btr.		No. 1 and No. 2 Common		No. 3 Common		No. 4 Common	
		Rough Air Dried Native Hemlock					
Boards		Dimensions					
		6'	8'	10'	12'	14'	16'
1x3	\$80						
1x4 & 1x5	80	2x3 & 2x4	\$55	90	90	90	90
1x6 & 1x7	85	2x6 & 2x8	55	90	90	90	90
1x8 & up	90	2x10	55	90	90	90	90

¹ Prices may vary somewhat from those quoted depending on market and quantities.

**Table IX. Wholesale Price List for White Pine Lumber and Hemlock
per MBF at a New Hampshire Lumber Yard¹**

Dressed 1, 2 or 4 sides, Matched or Novelty Siding

Grades	D Select and Better (Clear)	No. 1 and No. 2 Common	No. 3 Common	No. 4 Common
1x4	\$235	\$190	\$145	\$ 90
1x6	270	195	160	95
1x10	325	195	160	100
1x12	365	215	165	100

Single Clapboard Siding — 1x5 only — add \$5 per M

Double Clapboard Siding — 1x8 — add \$5 per M

V Joint, Knotty Pine. No. 2 and No. 3 — add \$5 per M

Dress 1-2-3 sides — add \$8 per M

Bundling — add \$2 per M

Eastern Hemlock

Boards		Dimensions					
		6'	8'	10'	12'	14'	16'
1x3	\$ 90	2x3	\$60	100	100	100	100
1x4	90	2x4	60	100	100	100	100
1x5	90	2x6	60	100	100	100	100
1x6 & 1x7	95	2x8	60	100	100	100	100
1x8 & up	100	2x10	60	100	100	100	100

¹ Retail prices \$35-50 more than wholesale.

Table X. Wholesale Price Range of Christmas Trees and Boughs¹

	Stumpage		Roadside	
	Single	Bundle	Single	Bundle
Pasture Run (unimproved)				
Balsam Fir	\$.35- .65	\$1.75-3.50	\$.60- .90	\$2.25-4.75
Spruce	.25- .40	1.25-2.50	.45- .75	1.75-3.00
Improved (but not sheared)				
Balsam Fir			1.25-2.00	2.75-5.50
Spruce			1.00-1.50	2.00-3.50
Sheared				
Balsam Fir			1.75-4.25	3.50-6.00
Spruce			1.50-2.75	3.00-5.00
Boughs				
		Per Bundle	Per Ton	
Balsam Fir (tied)		1.00-1.80	\$40.00- 72.00	
Balsam Fir (baled)		1.75-2.50	70.00-100.00	
Spruce (tied)		.80-1.25	32.00- 50.00	
Spruce (baled)		1.25-1.50	50.00- 60.00	

¹ Producers should contact buyers well in advance of cutting and arrange for deposits and specific prices, and use a written contract.

Table XI. Retail Price Range of Single Christmas Trees

	(Select and cut your own)
Scotch Pine	\$2.00-7.00 or \$.50-1.00 per lineal foot
Balsam Fir	
White Spruce	
Douglas Fir	
Norway Spruce	
Blue Spruce	

Table XII. Average Maple Sap Prices at Sugar House in New Hampshire

% Sugar	Price/Gal.	% Sugar	Price/Gal.
0.0 to .8	.000	3.6	.136
.9	.015	3.7	.140
1.0	.022	3.8	.144
1.1	.027	3.9	.148
1.2	.032	4.0	.152
1.3	.037	4.1	.156
1.4	.042	4.2	.160
1.5	.047	4.3	.164
1.6	.052	4.4	.170
1.7	.057	4.5	.174
1.8	.062	4.6	.178
1.9	.067	4.7	.182
2.0	.072	4.8	.186
2.1	.076	4.9	.190
2.2	.080	5.0	.194

**Table XII. Average Maple Sap Prices at Sugar House
in New Hampshire (Continued)**

% Sugar	Price/Gal.	% Sugar	Price/Gal.
2.3	.084	5.1	.198
2.4	.088	5.2	.202
2.5	.092	5.3	.206
2.6	.096	5.4	.210
2.7	.100	5.5	.214
2.8	.104	5.6	.218
2.9	.108	5.7	.222
3.0	.112	5.8	.226
3.1	.116	5.9	.230
3.2	.120	6.0	.234
3.3	.124	6.1	.238
3.4	.128	6.2	.242
3.5	.132	6.3	.246

**Suggested Maple Syrup Prices for 1972
in Metal Containers for Grades: Fancy, and A**

1 Gallon	\$7.50-\$11.00	Mostly \$9.50
½ Gallon	4.25- 6.00	Mostly 5.50
1 Quart	3.00- 3.75	Mostly 3.25-3.50
1 Pint	2.00- 2.75	Mostly 2.25
½ Pint	1.50- 1.75	

Rent Price Per Tap Hole

10 cents for sugar maples in the woods and not too easy to get to;
up to 30 cents for easily accessible trees and trees along roadsides.

Companies and Individuals Buying Standing Timber and Logs and Doing Custom Sawing

Listed by County and Town

Names of buyers listed in this bulletin are those who have indicated to the County Foresters that they are in the market now or at a later date to purchase one or more of the following: stumpage, logs, pulpwood, bolts, excelsior wood, pilings, posts, and other forest products. Many buyers and operators will give a preference to owners in the purchases of forest products who are interested in harvesting forest products from their holdings in accordance with cutting practices recommended by a County forester or a private forester. Owners can well consider giving options for further cuts to operators who will make partial cuttings in stands operated according to good forest management.

The following abbreviations are used:

SW - Softwood	HW - Hardwood	Stump - Stumpage
Road - Roadside	Cus. - Custom Sawing	Del. - Delivered at mill
P - Portable	S - Stationary	B - Buyer only
		L - Logger

Names of forest products buyers, and other persons listed are offered without recommendation or preference. Omission is not a reflection on the integrity of any person. A list of registered sawmills and of secondary processors is available from the Department of Resources and Economic Development, Concord, New Hampshire.

Belknap County

Town & Operator	Type of Sawmill	Kind of Logs	Stump.	Road.	Del.	Cus.
<u>Belmont</u>						
Contigiani Lumber Co. LaPlante, Albert L. Tilton, N.H.	S	SW & HW	X	X	X	X
Dickinson Lbr. Corp. Dickinson, John Box 696, Laconia		SW & HW	X	X	X	X
Dawson, Robert RFD 1, Barnstead	S	SW & HW	X	X	X	X
Potter, Robert RFD 1, Barnstead	S & L	SW & HW	X	X	X	X
<u>Center Harbor</u>						
Elliott, Dennis Box 302 Center Harbor	B & L	SW & HW	X	X		

Belknap County (Continued)

Town & Operator	Type of Sawmill	Kind of Logs	Stump.	Road.	Del.	Cus.
Moulton, Richard Nova Kennels Center Harbor	B & L	SW & HW	X			
<u>Laconia</u>						
Allen-Rogers Corp. Water St., Laconia	B	HW- -Boltwood	X		X	
Banfill, Ernest 500 Union Avenue Laconia	B & L	SW & HW -Oak Piling	X			
Dow, Harry RFD 3 Laconia	S	SW & HW	X			X
<u>Tilton</u>						
Daniels, Thomas G.	S	SW & HW	X	X	X	
<u>Carroll County</u>						
<u>Bartlett</u>						
Kearsarge Peg Co., W. F. Hodgins and S. E. Davidson, Jr.	S	Birch Bolts & Logs	X		X	
<u>Conway</u>						
Conway Supply Co., Inc. A. Kenneth Lucy	S	SW	X		X	
Cummings, C. B. & Sons c/o Howard Young, Sr.	S	HW Boltwood			X	
Garland, Roger North Conway	B & L	SW & HW	X	X	X	
Heath Brothers Center Conway	B & L	SW & HW	X			
Geo. W. and Noyes K. Heath	B & L	SW & HW	X			X
Morrill, Brewster Oak St., N. Conway	B & L	SW & HW	X			
North Conway Lumber Co. North Conway	S	SW & HW	X		X	
Valladares, Ricardo Box 188 Conway	B & L	SW & HW	X			
<u>Glen</u>						
Parker, John E.	B & L	SW & HW	X	X	X	

Carroll County (Continued)

Town & Operator	Type of Sawmill	Kind of Logs	Stump.	Road.	Del.	Cus.
<u>Jackson</u>						
Dundee Mgmt. Corp. Mack Beal Box 101, Jackson	B & L	SW & HW	X			
<u>Moultonboro</u>						
Nave, Walter	B & L	SW & HW	X			
Moulton, Burleigh	B & L	SW & HW	X			
<u>Ossipee</u>						
Marsh, Raymond Box 117 West Ossipee	B & L	SW & HW	X			
Portland Dowel Co., Inc. Center Ossipee Fred P. Greenwood	S	HW Bolts	X	X	X	
New England Lumber Co., Inc. Box 126 West Ossipee Earl W. Chandler	S	SW & HW	X		X	
Welch, Austin E. West Ossipee	B & L	SW & HW	X		X	
<u>Sanbornville</u>						
Hill, Wallace F.	B & L	SW & HW	X			
Rouleau, Samuel	B & L	SW & HW	X			
<u>Sandwich</u>						
Chocorna Valley Lbr. Co. North Sandwich, and Lake Street Bellingham, Mass.	S	SW & HW	X	X	X	
<u>Tamworth</u>						
Bickford Logging Bickford, Fred M., Jr. South Tamworth	B & L	SW & HW	X			
Hammond, Roy Tamworth	B & L	SW & HW	X	X	X	
Saunders Brothers c/o Elton Perkins South Tamworth	B & L	Birch Bolts & HW	X	X	X	
Rowe, Ernest Tamworth	S	SW & HW	X	X	X	

Carroll County (Continued)

Town & Operator	Type of Sawmill	Kind of Logs	Stump.	Road.	Del.	Cns.
Ryder, Perley So. Tamworth	B & C	SW & HW	X			
Thomas, Bruce Tamworth	B & L	SW & HW	X	X	X	
Cheshire County						
<u>Alstead</u>						
Blanchflower Lbr. Corp. P.O. Box 235	S	SW & HW	X		X	
<u>Chesterfield</u>						
Stone, D. S. Lumber Co. RFD 1, Keene	S	SW & HW			X	X
<u>Fitzwilliam</u>						
Damon, Clayton	S	SW & HW	X	X	X	X
Tommila Bros. RFD, Troy	S	SW & HW	X		X	
<u>Gilsum</u>						
Lackey, Frank RFD, Keene	B & L	SW & HW	X			
Duffy, Arthur Gilsum	B & L	SW & HW	X			
Prevost, David, Jr. Box 183, Gilsum	B & L	SW & HW	X			
<u>Jaffrey</u>						
Annett Wood Products, Inc.	S	SW & HW	X	X	X	
<u>Marlborough</u>						
Beauregard, Chas & Son, Inc. P.O. Box 395	S	SW & HW	X	X	X	X
Miner, Theodore Roxbury Road Marlborough	B & L	SW & HW	X			
Tarr, Roland	B & L	SW & HW	X			
White, Larry	B & L	SW & HW	X			
<u>Swanzy</u>						
Lane, C. L. Company East Swanzy	S	SW & HW	X	X	X	

Cheshire County (Continued)

Town & Operator	Type of Sawmill	Kind of Logs	Stump.	Road.	Del.	Cus.
Frazier Furniture Co. West Swanzey	S	HW			X	X
<u>Surry</u>						
Starkey, Roger	B & L	SW & HW	X			
<u>Walpole</u>						
Damaziak, K. Felix	S	HW	X	X	X	X
<u>Winchester</u>						
Prouty, Leonard Old Chesterfield Road	B & L	SW & HW	X			
Hildreth, C. H. & Son	S	SW & HW	X	X	X	X
Prouty, Harry	B & L	SW & HW	X			
Coos County						
<u>Berlin</u>						
White Mt. Lbr. Co., Inc. East Milan Road	S	SW			X	
White Mt. Woodcraft, Inc. Boucher, George, Buyer E. Milan Road	S	SW & HW			X	
<u>Colebrook</u>						
Weir, Harlie	B	HW & SW			X	
<u>Dalton</u>						
Saunders Bros. Bartlett, Raymond, Buyer RFD, Whitefield	S	HW	X	X	X	
<u>Groveton</u>						
Crawford, Wilson	S	HW	X	X	X	X
C. B. Cummings & Son, Co.	S	HW	X		X	
<u>Lancaster</u>						
Alden, Clayton M. RFD No. 1	S	HW	X	X	X	
Alden, Harold B. RFD No. 1	S	SW			X	X
Placey, George RFD No. 1	S	SW			X	X
<u>Milan</u>						
Milan Industries, Inc. Paul Dumas, Buyer	S	SW			X	

Coos County (Continued)

Town & Operator	Type of Sawmill	Kind of Logs	Stump.	Road.	Del.	Cus.
<u>North Stratford</u>						
Washburn Lumber Co. Reuben Washburn, Buyer	S	SW & HW	X	X	X	
<u>Shelburne</u>						
Poretta Lumber Co.	S	SW			X	
<u>Whitefield</u>						
Miles Pond Wood Products, Inc. Roger Olds, Buyer	S	HW	X	X	X	
<u>Grafton County</u>						
<u>Bath</u>						
Davis, Jack RFD, Lisbon	S	SW & HW				X
<u>Benton</u>						
Page Hill Farms Pike, N.H.	S	SW			X	X
<u>Bristol</u>						
Williams, R. P. & Son	S	SW & HW	X	X	X	
<u>Campton</u>						
North American Rockwell Corp. Draper Div. Beebe River	S	SW & HW	X	X	X	
<u>Canaan</u>						
Roberts Lbr. Co.	S	SW & HW	X	X	X	X
<u>Hanover</u>						
Lacoss, Niles	S	SW	X	X	X	X
<u>Haverhill</u>						
Heberbrand, Arthur D. (N. Haverhill)	S	SW & HW	X	X	X	
Newman Lbr. Co. & Transit Milling Co. Woodsville		SW	X	X	X	
Northeast Hardwoods, Inc. N. Haverhill		HW	X	X	X	

Grafton County (Continued)

Town & Operator	Type of Sawmill	Kind of Logs	Stump.	Road.	Del.	Cus.
<u>Lebanon</u>						
Brown, P. K.	S	HW	X	X	X	
<u>Lisbon</u>						
Profile Lumber Co.	S	SW & HW	X	X	X	
<u>Littleton</u>						
Poulson Lumber Co.	S	SW & HW	X	X	X	
Crowe, Luther	B & L	SW & HW	X	X		
Schoff, Arthur	S	SW & HW	X	X	X	
Timber Products Laurence Bean	S	HW			X	
Little, Raymond	B & L	SW & HW	X			
Plant, Roy Sr.	B & L	SW & HW	X	X		
<u>Orford</u>						
Tatham, Donald A.	B & L	SW & HW	X			
<u>Plymouth</u>						
Ireland Lumber Co.	S	SW & HW	X	X	X	X
Whitman Division USM Corporation	S	HW			X	
Roy, Thomas	B	SW & HW	X			
<u>Rumney</u>						
Keniston, Raymond	S	SW & HW	X	X	X	X
<u>Warren</u>						
Whitcher, Kenneth	S	SW & HW	X	X	X	X
<u>Wentworth</u>						
Allen Rogers, Corp.	S	HW			X	
King, John M.	B & L	SW & HW	X			
 Hillsboro County						
<u>Amherst</u>						
Converse & Peaslee c/o Max Sherburne Tyngsboro, Mass.	S	SW & HW	X			X

Hillsboro County (Continued)

Town & Operator	Type of Sawmill	Kind of Logs	Stump.	Road.	Del.	Cus.
<u>Bennington</u>						
Durgin, John D. RFD, Antrim	P	SW & HW	X	X	X	
Low, Forest	S	SW				X
<u>Brookline</u>						
Tapley, Wm. Lunenburg, Mass.	S	SW & HW	X	X	X	
<u>Goffstown</u>						
Shell Repairing of Manchester, Inc. (Mill) Laurent Cormier Rt. 114, Goffstown Harvey Rd., Londonderry	S	SW & HW	X			
Hebert Lucien Route 4, Box 208 Manchester	P	SW & HW	X			
<u>Hollis</u>						
Woods, Arthur Hollis	S	SW			X	X
Stateline Lmbr. Co. Box 35, Nashua	S	SW & HW	X	X	X	
<u>Hudson</u>						
Esty, Ralph Upstock Road Georgetown, Mass.	P	SW & HW	X			
<u>Lyndeboro</u>						
Riley Bros. c/o Peter Riley Milford	S	SW & HW	X	X	X	
<u>Milford</u>						
Hopkins, John, Jr.	S	SW			X	X
Lorden Lbr. Co.	S	SW & HW	X		X	
Matson, Theodore	P	SW & HW	X	X	X	
Whitten, Chester	S	SW	X	X	X	
Wilkins, Harold, Jr. Amherst, N.H.	S	SW	X	X	X	X
<u>New Ipswich</u>						
Dudar, John RFD 2, Peterboro	S	SW & HW	X	X	X	X
<u>Weare</u>						
Colburn, Robert	S	SW				X

Merrimack County

Town & Operator	Type of Sawmill	Kind of Logs	Stump.	Road.	Del.	Cus.
<u>Andover</u>						
Dalphond Bros., Inc. RFD No. 1	S	SW & HW	X	X	X	X
<u>Boscawen</u>						
Colby Lumber Co. Box 146, Penacook	S	SW & HW	X	X	X	X
Durant, Herbert B. 164 N. Main St. Penacook	S	SW & HW		X	X	X
Bailey, Wm. G., Jr. R. 5, Penacook	B	SW & HW	X			
Steenbek & Sons, Inc. RFD No. 5, Penacook	S	SW	X		X	
<u>Chichester</u>						
Reed, Edgar	P	SW	X			
<u>Concord</u>						
Concord Lumber Co. Box 469	S	SW & HW	X	X	X	X
<u>Franklin</u>						
Dickinson, Elbert E. Pleasant St.	B	SW & HW	X			
<u>Henniker</u>						
Ancoin, Herve	B	SW & HW	X			
Bowlan Lbr. Co. Buyer: James Neil 163 Maple Ave., Claremont	S	SW & HW	X	X	X	
Buxton, F. H.	B	SW & HW	X	X		
Goss Lumber Co.	S	SW & HW	X	X	X	
Henniker Lumber Co., Inc.	S	SW & HW	X	X	X	
Patenaude, Barry Rush Road	S	SW & HW	X	X	X	
Thelvicki Corp. Thomas Johnson, Buyer Henniker, N. H.	B & S	HW & SW	X	X	X	
Henniker Hardwood Pallet Co., Inc. Richard French, Mgr.	S	HW	X	X	X	X

Merrimack County (Continued)

Town & Operator	Type of Sawmill	Kind of Logs	Stump.	Road.	Del.	Cus.
<u>Hill</u>						
Robie, Robert	S	SW & HW	X	X	X	
<u>London</u>						
Berwick & Ford Lumber Co., Inc. 6 Grove St., Concord	S	SW & HW	X			
Maxfield, Ralph H. Box 30	S	SW & HW	X	X	X	X
<u>New London</u>						
Messer, J.	B	SW & HW	X			
Page Lumber Co. RFD No. 8, Concord	S	SW & HW	X	X	X	X
<u>Pittsfield</u>						
Barton Bros.	P & S	SW	X	X	X	
Pittsfield Box & Lumber Co.	P	SW	X			
<u>Salisbury</u>						
Prince, Raymond	B	SW & HW	X			
<u>Sutton</u>						
Meding, Stephen Y. Enterprises RFD, New Loudon	S	SW & HW	X	X	X	X
<u>Warner</u>						
Mock, Philip, RFD No. 1	B	SW & HW	X			
Nichols, L. Earl	S	SW	X		X	
<u>Webster</u>						
Jones, Paul S. RFD, Contoocook	B	SW & HW	X			
Roby, Rob	B	SW & HW	X			

Rockingham County

Atkinson

Feuer, Martin M. Main St.	S	SW & HW	X	X	X	
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Rockingham County (Continued)

Town & Operator	Type of Sawmill	Kind of Logs	Stump.	Road.	Del.	Cus.
<u>Brentwood</u>						
Lyford, Lawrence E. RFD No. 2, Exeter	L	SW	X			
<u>Candia</u>						
Perkins, Fletcher East Candia	P	SW & HW	X			
<u>Chester</u>						
Lewis, Richard D. Route 2, Box 15A	L & B	SW & HW	X			
<u>Deerfield</u>						
Mathes, Roger V.	P & B	SW & HW	X			
<u>Derry</u>						
Concord Lbr. Co. P.O. Box 469 Concord, N.H.	S	SW & HW	X	X	X	X
Kelly, Lester H. P.O. Box 256	B & L	SW & HW	X	X	X	X
True & Noyes East Derry Contact: Richard M. True Box 6	S	SW & HW	X	X	X	
<u>East Kingston</u>						
R. E. Sargent Sargent Lumber Co. Bear Hill Road Merrimack, Mass. 01860	S	SW & HW	X	X	X	
<u>Fremont</u>						
Bolduc, Joseph, Jr. Main St.	L & B	SW	X			
Holmes, Leon Sandown Road	L & B	SW	X	X		
Spaulding & Frost Co., Inc. Edward Jewett Vice President and General Manager	S	SW	X	X	X	
<u>Hampton</u>						
Carter, Joseph E. 446 High St.	L & B	SW & HW	X	X		
<u>Kensington</u>						
Brown, Everett W. RFD, East Kingston	L & B	SW	X			

Rockingham County (Continued)

Town & Operator	Type of Sawmill	Kind of Logs	Stump.	Road.	Del.	Cas.
Cole, George RFD, East Kingston	S	SW				X
Evans, Arthur C. East Kingston	S					X
<u>Kingston</u>						
Cheney, R. W. & Son RFD, East Kingston	S	SW	X	X	X	
<u>Nottingham</u>						
Fernald, Frederick President J. E. F. F., Inc.	L	SW & HW	X			
<u>Raymond</u>						
Campbell, Avery	S	SW & HW	X	X	X	X
<u>Rye</u>						
Rand Lbr. Co., Inc. 511 Wallis Road	S	SW & HW	X		X	X

Stafford County

<u>Barrington</u>						
Green, George East Barrington	P	SW	X			
<u>Dover</u>						
Mathes, Valentine	B	SW	X			
<u>Durham</u>						
Woodward, William	S	SW	X	X	X	X
<u>Farmington</u>						
Leary, Kenneth RFD, Farmington	S	SW & HW				X
Mooney, G. & F. & Son, Inc. Box 578, Farmington	S	HW & SW			X	
<u>Gonic</u>						
Hussey, Robert Flagg Road, RFD, Gonic	B	SW & HW	X	X		
<u>Madbury</u>						
Felker, Elliot	S	SW & HW				X

Strafford County (Continued)

Town & Operator	Type of	Kind of Logs	Stump.	Road.	Del.	Cus.
<u>Middleton</u>						
Diprizio, Charles & Sons, Inc. (Middleton) RFD No. 1, Union	S	SW & HW	X	X	X	X
<u>Milton</u>						
Tibbetts Lbr. Co. Farmington	S	SW & HW	X	X	X	
<u>New Durham</u>						
Bickford Bros.	S	SW & HW				X
<u>Rochester</u>						
Leroy E. Allen Co. 153 Wakefield Street	P	SW	X			

Sullivan County

Claremont

Atkinson-Davis Corp. Box 704	B & L	SW & HW	X			
Davis & Symonds Lbr. Co. Box 56	S	SW & HW	X		X	
Freeman & Hawkins Winter St. Ext.	S	SW & HW				X
Neil, James H. 163 Maple Ave.	B	SW & HW	X	X		
Red Water Lbr. Co. RFD No. 1	S	SW & HW	X	X	X	
Stevens, Leon W. 12 Stevens St.	B & L	SW & HW	X	X		

East Lempster

Onnela Lbr. Co. 24 Pinnacle Rd. Newport	S	SW & HW	X	X	X	
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Grantham

Cote & Roney Lbr. Co., Inc.	S	SW & HW	X		X	X
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Langdon

Porter, George RFD, Alstead	S	SW & HW			X	
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Sullivan County (Continued)

Town & Operator	Type of	Kind of Logs	Stump.	Road.	Del.	Cus.
<u>Newport</u>						
Rowe Lumber Co. Box 383	S	SW & HW	X		X	
Wilcox Lbr. Co., Inc. RFD No. 2 Newport	S	SW & HW	X	X	X	
<u>Plainfield</u>						
Demers, Warren	P					X
<u>Sunapee</u>						
Trow, W. W. & Son	S	SW & HW			X	X

**Out-of-State Stumpage, Log, and Specialty Buyers
Who Buy in New Hampshire**

	Kind of Logs	Stump.	Road.	Del.	Cus.
<u>Maine</u>					
Andover Wood Products, Inc. Andover, Tel. Rumford 364-4409	Y. Birch H. Maple			X	
Bear Paw Timber Corp. Box 80, Fryeburg	SW & HW	X	X	X	
Chadbourne, P. H. & Co. Dick Waldron, Buyer Bethel	SW & HW (also SW & HW slabs for chipping)	X	X	X	
Crouse, Harry G. N. Fryeburg	SW & HW	X			
Cummings, C. B. & Sons c/o Norman H. Gray Fryeburg	HW (Birch)	X	X	X	
Fryeburg Lbr. & Chipping Corp. Archie Lane, Buyer Fryeburg	SW	X		X	
Gladding - Paris Div. Henry W. Morton, Buyer Box 259, So. Paris Tel. 743-5111	HW			X	

**Out-of-State Stumpage, Log, and Specialty Buyers
Who Buy in New Hampshire (Continued)**

	Kind of Logs	Stump.	Road.	Del.	Cus.
Saunders Bros. Hall & Smith Stanley Fitts, Manager Garland Buhrman, Woodlands Manager Lusky, Paul, Buyer Fryeburg	HW & SW	X	X	X	
Hammond & Son, Thomas E. Hiram	SW		X	X	X Logs by grades
Hanover Dowell Mill Bethel, 824-2191 W. E. Saunders, Buyer	HW			X	
Hurd Lbr. Co. E. Lebanon	SW & HW	X	X	X	X
Kendall Dowell Mill W. Bethel, 836-2473 Maurice Kendall, Buyer	HW			X	(bolts & Logs)
LaValley, Albert Sanford	SW	X	X	X	(Softwood roundwood for chopping)
Maine Woods Products Corporation Gunter, Steward W., Buyer Steep Falls	HW			X	
Newton Tebetts, Inc. W. Bethel, 836-2336 Charles, Keoskie, Buyer	HW			X	
S. D. Warren Co. Westbrook Wayne Jackson David Clement Steve Orach	SW & HW	X (Pulpwood)		X	
Sprang, Phillip RFD, Kennebunk	SW & HW	X			
Smith, Wilmer Fryeburg	B & L	X			
Stowel, Silk Spool Co. Bryant Pond, Tel. 44 Milton Mills, Buyer	HW			X	(boltwood)
Westonis John F. Weston Fryeburg	SW & HW	X	X (pulp and logs)		
Massachusetts					
Bartlett, Edmund W. 240 Main Street Salisbury	S	SW & HW tree length	X	X	X

**Out-of-State Stumpage, Log, and Specialty Buyers
Who Buy in New Hampshire (Continued)**

		Kind of Logs	Stump.	Road.	Del.	Cus.
Johnson Lumber Co. Salisbury, Mass.	S & B	SW	X		X	
Brown Package Co., Inc. Winchendon		W. Pine	X		X	
Esty, Ralph A. & Sons, Inc. Hobart B. Esty, Buyer Main Street Groveland		SW & HW	X	X	X	X
Freys Lumber Co. Cross St. Bernardston		SW & HW	X			
Haskel, C. M. & Sons 400 Canal St. Bernardston		SW	X	X	X	X
High Grade Logging Thomas Hill Ashburnham 827-4768		SW & HW	X			
<u>Vermont</u>						
Kimberly-Clark Corp. Atlantic Lbr. Operations Jack Davis, Buyer East Burke, Vt. Tel. 626-5269		HW	X			
Batchelder, Earl Windham, Vt.		HW		X	X	X
Beecher Falls Div. of Baumritter Corp. Beecher Falls		SW & HW			X	
Bradford Veneer & Panel Co.		HW (Veneer)	X	X	X	
Carroll Snelling E. Thetford		SW & HW		X	X	
Cersosimo Lbr. Co., Inc. RFD No. 3 Brattleboro		SW & HW	X			
Clark Ash Mill V. L. Morse, Buyer Brattleboro		White Ash			X	
Clark, C. E. & Sons c/o Francis Clark 29 Western Ave. Brattleboro		SW & HW	X	X	X	
Colby Lbr. Corp. Lunenburg 892-5320		SW		X	X	X

**Out-of-State Stumpage, Log, and Specialty Buyers
Who Buy in New Hampshire (Continued)**

	Kind of Logs	Stump.	Road.	Del.	Cus.
Concord Woodworking Co. of Vt. Lyndonville	SW & Cedar		X	X	
Fournier, Arthur Chester (for Newport, N.H. mill)	SW	X	X	X	X
Indian Head Plywood Newport Ivan Elger (Buyer) Berlin, N.H. 752-6428	HW (Veneer)	X	X	X	
Malmquist-Wood Products Co. Post Mills	HW			X	
Peck Lbr. Co. Vernon Howard Mason, Buyer	SW & HW	X	X	X	X
River Basket Corp. Putney	Pine, ash, oak logs, 8', 10', 12'			X	
Smead Lumber Co. Vernon	SW & HW	X	X	X	X
Tri-State Timberland 56 Summer St. Hartland, Vermont	SW & HW	X	X	X	
Tenney's Lbr. Mill Saxton's River Claude Tenney, Buyer	SW & HW	X	X	X	
True Temper Corp. Wallingford and St. Johnsbury	Ashlogs and Boltwood	X	X	X	
Vermont Log Bldgs., Inc. Hartland	W. Pine			X	
West River Basket Putney	Pine, Oak, Ash			X	
Weyerhaeuser Co. North Troy	HW (Veneer)			X	
White River Valley Hardwood, Inc. P.O. Box 6, Bellows Falls	HW	X	X	X	

**Out-of-State Stumpage, Log, and Specialty Buyers
Who Buy in New Hampshire (Continued)**

	Kind of Logs	Stump.	Road.	Del.	Cus.
Quebec — Canada					
Kimberly-Clark Corp. Atlantic Lbr. Operations Sawyerville 889-2644	HW			X	
Commonwealth Plywood Mr. Tennolthy Montreal, Que.	HW				
W. H. Hunting & Sons, Ltd. Huntingville, Que. 562-8202	HW & SW			X	
LaBranche & Son St. Isadore 658-3666	SW & HW	X	X	X	X
LaLiberte Dixville 849-4111	HW			X	
Marcel Lauzon, Inc. East Hereford 844-2393	SW	X	X	X	
L. G. Rustic Fence Standstead, Que. 876-2732	Cedar	X	X	X	
Paul Vallee, Inc. Sawyerville 889-2777	HW & SW			X	
Sherbrooke Wood Products Paul Blais, Buyer Sherbrooke 567-4662 Montreal 878-1306	Ash Logs		X	X	
Viateur Pepin Lumber, Inc. LaPatrie	HW			X	

Portable Pulpwood Debarkers

Benjamin, Mariner 40 East Main St., Merrimac, Mass.

Planing Mills

C — Custom

W — Wholesale only

Alden, Harold B.	C	Lancaster
Beauregard, Chas. & Sons, Inc.	W	Marlborough
Chase, Benjamin Co.	C	Derry
Cheney, Roland & Son	C	Kingston

Planing Mills (Continued)

C — Custom		W — Wholesale
Chick, John F. & Son	C & W	Silver Lake
Cole, George	C	RFD East Kingston
Concord Lumber Co.	W	Commercial St., Concord
Contigiani Lumber Co.	W	Belmont
Conway Supply Co., Inc.	C	Conway
Cote & Roney Lbr. Co.	C & W	Grantham
Currier, P. L. Lumber Co.	C	RFD Milford
Dalphonc Bros., Inc.	C & W	RFD 1, Andover
Damon, Clayton	C	Fitzwilliam
Davis, Jack	C	RFD Lisbon
Davis & Symonds Lumber Co.	W	Claremont
Demers, Warren (Portable)	C	Plainfield
Dickinson Lumber Co.	W	Belmont
DiPrizio, Chas. & Sons	W	Union
Freeman & Hawkins	W	Claremont
Green Lbr. Co.	C & W	1253 Hooksett Rd., Manchester
Heberbrand, Arthur D.	C	N. Haverhill
Lorden Lumber Co.	W	Milford
Milan Industries In.	W	Milan
Newman Lumber & Transit Milling Co.	W	Woodsville
Page Hill Farms	C	Pike
Paulsen Lumber Co.	C & W	Littleton
Pennsylvania Box & Lumber Co.	C	Plaistow
Porter, George	W	Alstead
Rand Lumber Co.	C	511 Wallis Road, Rye
Rowe Lumber Co.	W	Newport
State Line Lumber Co.	C & W	Box 35, Nashua
Tibbets Lumber Co., Inc.	W	Farmington
Trow, W. W. & Son	C & W	Sunapee
White Mt. Lumber Co., Inc.	W	E. Milan Road, Berlin
Woodward, William	C	Durham

Kiln Drying (Custom)

Chick, John F. & Son	Silver Lake
Colonial Pine Bucket, Inc.	310 Marlow St., Keene
Pennsylvania Box & Lbr. Co.	Plaistow

Wood Preservation — Treating Plants

Koppers Co., Inc.
Forest Products Division

Nashua

Shingle Mills

Umbagog Shingle Mill

Box 51, Errol — Cedar & Pine

Wood Chipping Plants in New Hampshire

Company		Location	Type
Allen-Rogers Corp. Wentworth Division		Wentworth	2
Beauregard, Charles & Son, Inc.		Marlborough	2
Blanchflower Lbr. Co.		Alstead	2
C. B. Cummings & Sons, Co.		Groveton	2
Chocorua Valley Lumber Co.		No. Sandwich	2
Cloutier Lumber Co.		Northumberland	3
Connecticut Valley Chipping Co., Inc. (B)	(B)	Woodsville	1
Connecticut Valley Chipping Co., Inc. (B) (Littleton Division)	(B)	Littleton	1
Dalphonc Bros. Inc.		RFD No. 1, Andover	2
Davis & Symonds Lbr. Co.		Claremont	2
Draper Div., North American Rockwell Corp.		Beebe River	2
Lakes Region Chipping Corp. (B)	(B)	Ashland	1, 1a
Lorden Lumber Co. (B)	(B)	Milford	2
Milan Industries, Inc.		Milan	2
Miles Pond, Inc.		Whitefield	2
New England Lbr. Co., Inc.		West Ossipee	2
New Hampshire Pulp Co. (B)	(B)	Fremont	1
Roberts Lumber Co.		Canaan	2
Saunders Bros.		Dalton	2
Tommila Bros.		Fitzwilliam	2
Washburn Lumber Co.		N. Stratford	2 & 2a
Whitcher, Kenneth E., Inc.		Warren	2
White Mountain Lumber Co., Inc.		E. Milan Road, Berlin	2
White Mountain Woodcraft, Inc. (B)	(B)	Berlin	2
Wilcox Lbr. Co., Inc.		RFD No. 2, Newport	2

1. Central Chipping Plant (Stationary)
 - 1a. Facilities available for roundwood debarking & chipping
 2. Chipper at sawmill (Stationary)
 - 2a. Facilities available for roundwood debarking & chipping
 3. Roundwood Debarking & Chipping Plant (Mobile)
- (B) Indicates buyer of debarked slabs and edgings

**Partial List of Out-of-State Woodchipping Plants
Buying Slabs in New Hampshire**

LaValley, Albert Sanford, Maine	Softwood
Chadbourne, P. H. & Co. Bethel, Maine	Softwood and hardwood

Pulpwood Buyers*

Company and Individual Buyers	Kinds of Wood Purchased
Benjamin, Mariner 40 East Main St., Merrimac, Mass.	Hardwood
Brown Company, Berlin Loiselle, Bob, Colebrook Hamlin, Mark, Berlin Pike, William, Jr. 446 Grafton St., Berlin Renoux, John, Gorham	Spruce, fir, hemlock, tamarack, pines, beech, birches, maples, oak, elm, ash.
Chadbourne, P. H. and Co. Bethel, Me.	Softwood and hardwood slabs for chip- ping
Franconia Mfg. Corp. Lincoln Glen E. Stevens	Spruce, fir, hemlock, and hardwood.
Groveton Paper Co., Groveton Subsidiary of Diamond International Haynes, Eldwood, N. Stratford Mountain, Harold, Groveton Ruch, Lewis, Lancaster	Hardwood (no elm)
International Paper Co. Sawyer, Rhoades, N. Stratford	Spruce, fir (inquire direct) wood
Lakes Region Chipping Corp. Ashland Jesse E. Bushaw, Warren, N.H.	Hardwood (tree length)
New Hampshire Pulp Co. Tom McCall, Raymond RFD Fremont, N. H.	Softwood and hardwood
Oxford Paper Co., Rumford, Maine and Lawrence, Mass. Ashton, R. V. 158 School St., Concord Hartranft, John L., Manager Wood Dept., Rumford, Maine MacKay, Claude, Asst. Manager, Wood Procurement, Rumford, Maine	Spruce, fir, hemlock, and northern hard- wood, chips. Buying pulp for Rumford mill. Chips in Merrimack County
Thelvicki Corp. Johnson, Thomas, President Henniker	Hardwood
Warren, S. D., Co., Westbrook, Me. Orach, Steve	Spruce, white pine and hardwood

* 4 ft. wood unless otherwise indicated.

Excelsior, Pole, Piling, Posts and Railroad Tie Buyers

Company and Individual Buyers

Kinds of Wood Purchased

Excelsior Buyers*

Berry, O. P. Co., Wolfeboro
F. Berry, Manager

Peeled poplar and basswood

Poles, Piling, and Post Buyers

Hill, Wallace F.
Sanbornville, Tel. 522-3308

Norway (Red) pine posts

Koppers, Co., Inc.,
Forest Products Div., Nashua

Norway (Red) pine poles & piling

Morrill, Brewster
Oak Street, North Conway

Norway (Red) Pine

Miner, Theodore
Roxbury Road, Marlboro

Railroad Tie Buyers

Koppers Co., Inc.
Forest Products Division
Nashua

Oak, Birch, Beech, Maple, Cherry, Ash

* Excelsior companies prefer peeled wood. The sticks must be 48 inches long and 4 inches minimum diameter at the small end.

Specialty Product Buyers — Birch Bolts and Other Roundwood Products

Town and Operator

Species and Specifications

Allen-Rogers Corp., Laconia, N. H., Andover Division, E. Andover, N. H. — buying white birch, hard maple and yellow birch bolts and logs. For prices and specifications contact mill manager, Herman Schumaker, East Andover, N. H., or David McKay, Allen-Rogers Corp., Laconia.

Allen-Rogers Corp., Laconia, N. H., Wentworth Division, Wentworth, N. H. — buying white birch, hard maple, and limited quantities of beech and yellow birch. Logs only. For prices and specifications contact mill manager, Bruce Bumford, Wentworth, or David McKay at Laconia.

Bartlett, Edmund, Salisbury, Mass. — oak boat keel stock.

Bradford Veneer & Panel Co., Bradford, Vt. — B. E. Farr, Buyer — yellow birch and other veneer logs. Write for specifications.

Clark Ash Mill, U. L. Morse, Buyer, Brattleboro, white ash 11' & 16½' minimum diameter 9".

Concord Woodworking Co., Inc., Lyndonville, Vt. — white cedar posts, poles and logs. Write for specifications.

Cummings, C. B. & Sons, Conway and Groveton — white and yellow birch, stumpage, bolts. Roadside and delivered.

Crawford, Wilson, Groveton — white and yellow birch bolts and logs.

- North American Rockwell Corp.
 Draper Division, Beebe River — sugar maple, hemlock, pine and spruce logs.
- Fairfax Corp., Route 11, Charlestown, N.H. — mixed hardwood, pallet stock 4x4 and 4x6 cants.
- Foote, Thomas, Marlow — 49" hardwood stumpage and bolts all species, 6"-24" in diameter.
- Frye, E. B. & Son, Wilton — birch, beech, and pine logs 12" min. diameter veneer quality preferable.
- Kearsage Peg Co., Bartlett — straight grained white and yellow birch in 4' lengths, 6" top diam. Red heart not over $\frac{1}{3}$ diam. of stick. Comparatively free from knots and burls.
- Labree, Clifton, Wilson Hill Rd., New Boston, N.H. — 50" hardwood bolts, all species, 6" to 20" diam.
- LeBlanc, Gerard, 150 River St., Franklin — softwood bolts. Contact for specifications. (Mail RFD No. 1, Hill).
- Mooney, G. F. & Son, Farmington, N.H. — write for specifications.
- Morse, V. L., Brattleboro, Vt. — white ash logs.
- Northeast Hardwoods, Inc, N. Haverhill — buys white birch in log and bolt form. Write for specifications.
- Northeast Wood Products, Inc., Plainfield, N.H. — white ash, No. 1 logs, handle quality, 5½', 11' and 16' lengths plus 2" trim, 10" min. diam.
- Portland, Dowell Co., Center Ossipee, Fred Greenwood, Mgr. — hardwood stumpage, birch, beech, maple within 25 miles radius of mill and boltwood delivered to mill.
- Saunders Bros., Westbrook, Me. and Woodlands Div., Fryeburg, Me. — Concentration Yards at S. Tamworth, N.H., Dalton, N.H., Warren, N.H. and Fryeburg, Me. Contact Mr. Elton Perkins, Box 34, S. Tamworth, N.H., or Burm Garland and Paul Lusky, Fryeburg, Me. — birch logs 39", 48", 59", lengths; min. 3" white wood around red heart, also beech, maple, ash and oak.
- Smead Basket Shop, West Swanzey — white ash logs.
- Thelvicki Corp., Thomas Johnson, Mgr., Henniker, N.H. — mixed hardwood bolts, log and pallet stock.
- True Temper Corp., St. Johnsbury, Vt. — white ash logs and bolts, specifications on request.
- Whitman Division, USM Corporation, Plymouth — white birch, length 10' to 24' min. top diam. 8". No more than 2 small knots per 4' section. Sound, no cracks or crooks.
- Vermont Log Bldgs. Inc., Hartland, Vt. — white pine 8"-11" diam., 8'-16' length.
- West River Basket Corp., Putney, Vt. — ash, oak and pine logs 8', 10', 12', 14' custom sawing.
- White Mountain Lumber Co., Arthur Napert, Buyer, Berlin — No. 3 common hardwood lumber for pallets and skids.
- White Mountain Woodcraft Inc., Berlin — sugar maple and yellow birch logs and bolts. Spruce and fir logs.
- Wright Crafts, Robert Wright, Chesterfield — white pine and red pine 6-12" diameter, 8 to 20' in length.

Shingle Mills

- Monadnock Wood Products, 19 South Main St., P.O. Box 63, Troy, N.H. — pine shingles
- Umbagog Shingle Mill, Box 51, Errol, N.H. — cedar and pine shingles

CHRISTMAS TREE PRODUCTION IN NEW HAMPSHIRE 1971

The number of Christmas trees harvested by New Hampshire land-owners had been expected to increase in 1971. However, due to unfavorable weather conditions in the north country, it is generally agreed the New Hampshire annual harvest remained at about 450,000.

Indian Summer weather during most of October and a heavy snow-fall at Thanksgiving reduced the span of time trees could be cut to about half in the north.

The "choose and cut" method of marketing trees used principally in the southern half of the state was better than ever as more trees were available this year.

A recent survey of New Hampshire and Vermont producers indicated that 38% of the growers could have sold more trees had they been available.

CHRISTMAS TREES AS AN INDUSTRY

The impact of the Christmas Tree industry on New Hampshire's economy is seldom recognized by the general public. Although the very nature of the industry is seasonal, rural families find employment nearly the year round — planting, fertilizing and shearing the evergreens. Coos County alone produces $\frac{2}{3}$ of New Hampshire's total annual harvest.

Perhaps the greatest benefit of the industry may be measured in terms of supplementing the income of many rural families. To some rural people, the income derived from growing and selling Christmas Trees raises them above the poverty and welfare bracket. Becoming self sufficient leads them to developing self-esteem and thereby becoming better citizens.

Few people who buy the traditional evergreen realize the full input of time, labor and money that goes into every tree. The days of cutting natural trees as developed by nature alone have practically vanished. Many of the trees that now find their way to the market have been grown from three year old seedlings purchased from the N.H. State Nursery in Gerrish. These tender seedlings are planted by machine or by hand in open fields or pastures and treated with a chemical which kills competing grasses and weeds. An application of fertilizer at time of planting and another application every two years hence assures deep green foliage and vigorous growth. When trees reach the height of four to five feet, they are individually sheared — a process which removes the tips of the branches and stimulates the tree to produce more branches, thus thickening and improving its shape. Once a tree has been sheared, the process must be repeated annually until harvest time.

There are many risks in growing Christmas Trees which should not be overlooked. Young seedlings are often choked out by grass, rendered useless by insects and diseases, damaged by heavy snow, ice or snow-mobles or destroyed by fire. If all goes well, trees may be harvested after the 8th to 12th growing season.

The local Christmas Tree industry is spurred by the N.H.-Vt. Christmas Tree Association and the County Foresters of the University

of New Hampshire Cooperative Extension Service. Both organizations have been very active this year, first hosting the Quebec Christmas Tree Association at the Association's Annual Spring Field Meeting and later at the Lancaster Fair, the New Hampshire Forest Field Day and at the Eastern States Exposition.

The New Hampshire Christmas Vendor, a periodically revised list of Christmas Trees and other Christmas products in New Hampshire was again published by the Coos County Cooperative Extension.

Christmas Tree Dealers and Producers

(c) Christmas Trees (s) Stumpage (b) Boughs (w) Wreaths (r) Producer Retailers

Anderson, Henry A., State Line (c)
 Arsenaault, Oliver, RFD 1, N. Stratford (c)
 Bachelder, Stewart, Clarksville (P.O. Pittsburg) (c)
 Bacon, Claude, Beecher Falls, Vt. (c & b)
 Ball, Harold, N. Stratford (c)
 Barlow, Paul, Linden St., RFD, Exeter (c & r)
 Beloin, Alcide, Hall Stream, Pittsburg (P.O. Beecher Falls, Vt.) (c)
 Beloin, Germain, RFD, Colebrook (c)
 Bennett, Evelyn, Elm Street, Lancaster (c)
 Bessett, Alex, RFD 2, N. Stratford (c & b)
 Blood, Edward, Durham, N. H. (c)
 Boothman, John, Randolph (c)
 Boudle, Laura, Jefferson (w)
 Boulanger, Richard, Maple Street, Littleton (c)
 Bradley, Walter (Mrs.), RFD, Whitefield (c & r)
 Brissett, Alex, RFD, Colebrook (c & b)
 Brockelman, Curtis, Franconia (c)
 Brooks, Darwin, Stewartstown (P.O. RFD No. 1, Colebrook) (c)
 Brooks, Douglas, N. Haverhill (c)
 Brown, Peter, RFD 1, Bristol (c)
 Bryant, Walter, South Hill Road, Colebrook (c)
 Burt, Herschel, RFD, Exeter (c & r)
 Bunnell, Holman, RFD 3, Colebrook (c)
 Carder, Walter, RFD, Alton (c & r)
 Carney, Howard, RFD, Colebrook (c)
 Chaplick, Adolph, 131 Lowell Road, Hudson, N. H. (c & r)
 Chappell, Colon, Pittsburg (c)
 Chappell, Fay, Pittsburg (c & b)
 Colby, Helen, Eastman Ave., RFD, Laconia, N. H. (c & r)
 Conway, Raymond, RFD 1, Jefferson (c)
 Cook, Roland, West Stewartstown (c)
 Corneliusen, Robert, English Range Rd., Derry (c & r)
 Couture, J. P., Colbrook (c)
 Couture, Wilfred, P.O. RFD No. 1, Jefferson (c & b)
 Cree, Leighton, Colebrook (c)
 Danforth, Benjamin, Colebrook (c)
 DAnjou, Wilfred, Colebrook (c)
 Day, M. Eva, West Stewartstown (c, b & w)
 Day, Louis, West Stewartstown (b & c)
 Dearborn, Richard, RFD No. 3, Plymouth (c)
 Deblois, Roger, RFD No. 1, Colebrook (c & b)
 Dunn, Red, Laconia (c)
 Emerson, Stephen, RFD No. 1, Lancaster (c & b)
 Fistere, Gilbert G., RFD No. 2, Rochester, N. H. (c)
 Forbush, Daniel, Lancaster (c)
 Fitts, Perley, Durham, N. H. (c)
 Foss, George III, Lisbon (50 Windsor Rd., Westwood, Mass.) (c & s)

Furguson, W. W., Colebrook (c)
 Furber, Alan W., South Rd., South Deerfield (c & r)
 Gagnon, Conrad, Beecher Falls, Vt. (c & b)
 Gangwer, Jesse, Durham, N. H. (c)
 Geller, Frederick F., 26 Hanover St., Keene (c)
 Giguere, Paul, RFD 3, Colebrook (c)
 Giroux, Yvon, RFD 3, Colebrook (c)
 Glover, Clayson, Dummer (c)
 Godzyk, Michael, Colebrook (c, b, w, r)
 Goodrum, Hazen, RFD 1, Colebrook (c, b & s)
 Goodrum, Monty, Colebrook (c)
 Gorman, Redmon, RFD, Colebrook (c, b & w)
 Gray, Tabor, Pittsburg (P.O. Beecher Falls, Vt.) (c, b & w)
 Gregory, Franklin, Greylor Farm, RFD No. 3, Concord (c & r)
 Grondin, Claude, Stewartstown (P.O. RFD No. 3, Colebrook) (c)
 Guay, Alex, West Stewartstown (c, b, w & s)
 Haynes, Orville, RFD No. 1, Colebrook (s)
 Henson, Everett, N. Haverhill, N. H. (c)
 Hollingsworth, Schuyler, RFD 2, Peterborough (c)
 Hughes, Thomas and Wendall, RFD, North Stratford (c & b)
 Huggins, Harry, Pittsburg (c & b)
 Hyde, John L., 6 Columbus Avenue, Concord (c)
 Jackson, Charles, Colebrook (s)
 Jackson, Frank, 59 Prospect St., Lebanon (c)
 Jacques, Nelson, Plymouth (c)
 Johnson, Arthur, 404 Winnicunnett Rd., Hampton (c & r)
 Keach, Douglas, 747 Beech St., Manchester (c)
 Ladd, Robert, Lancaster (c & r)
 Ladd, Wayne, RFD 2, Colebrook (c & b)
 Laflamme, Gaston, W. Stewartstown (c)
 Lakin, Calvin, RFD, Colebrook (c)
 Lamoureux, Peter F., Colebrook (c & w)
 Lang, Harry, RFD 1, Colebrook (c & s)
 Laperle, Roland, Colebrook (c)
 Larcomb, Charles, Meadows (c)
 LaRoche, Arthur, Keene (c & r)
 LaRochelle, Albert, Groveton, Box 62 (c & b)
 Lewis, Darwin, Colebrook (c, b & s)
 Lynch, F. Robert, RFD 3, Colebrook (c & b)
 Lyons, Albion J., RFD 1, Colebrook (c)
 Mallery, Bayard, c/o John Keller, Bethlehem (c)
 Magnusson, Ted, RFD, East Kingston (c & r)
 Mailloux, Jean, Hall Stream Rd., Pittsburg (c)
 Marchessault, Lorrainy, RFD, Colebrook (c, b & w)
 Marquis, Leon, Pittsburg (P.O. Beecher Falls, Vt.) (c)
 Maurais, Raymond, RFD, Colebrook (c)
 McAllaster, Roger & Shirley, Stewartstown (P.O. RFD 3, Colebrook) (c)
 McCrone, Henry, Knox Marsh Rd., RFD, Dover (c)
 McKinnon, Frank C., South Hill Road, Colebrook (c)
 McMann, Harlan, RFD 1, Stratford (c)
 Melendy, Harry, Milford (r)
 Moss, Donald, RFD 2, Concord (c & r)
 Merrill, Lee, RFD 1, Whitefield (c & b)
 Nelson, Charles, Groveton (c)
 New England Forestry Foundation, c/o Richard Boulanger, Maple St., Littleton (c)
 Nimms, Everett, Keene (c & b)
 Nottingham, Evelyene, RFD, East Rindge (c & r)
 Northrup, Sydney, N. Rd., Brentwood (P.O. RFD, Exeter) (c & r)
 Noyes, David R., RFD, Gossville (c)
 Olsen, Morris, N. Haverhill (c)
 Oleson, Norman, RFD 1, Jefferson (c & b)
 Ouimette, Marcel, Colebrook (c)
 Owen, Frank, Colebrook (c)
 Paquette, Marcel, Twin Mountain (c, b & w)
 Paquette, Maurice, Colebrook (c)
 Peaslee, David, Newfields (c & r)

Perry, Glenn, RFD 1, Colebrook (c)
 Parker, Herman, 576 Post Rd., Greenland
 Philbrick, Walter, 99 Fair Street, Laconia (c)
 Placey, Burleigh R., RFD, Colebrook (c & b)
 Putnam, Cortland, Winchester (c & r)
 Rainville Brothers Tree Company, Colebrook (c)
 Rainville, Frederick, Colebrook (c)
 Rainville, Robert, Colebrook (c)
 Rainville, Stewart, Colebrook (c)
 Rancloes, Frank, RFD 3, Colebrook (c)
 Reed, Kenneth, RFD 1, Jefferson (c & b)
 Reynolds, William N., Stratford (c)
 Ricard, James, Canaan (c)
 Riley, Gilbert, Milford (r)
 Roberts, George, Gilmanton (c & r)
 Robinson, Eric, Hall Stream (P.O. Beecher Falls, Vt.) (c & b)
 Robitaille, Gerald, RFD, Colebrook (c)
 Rogers, Lawrence R., RFD 1, Whitefield (c)
 Russell, Lee, Farmington (c)
 Savage, Chester, RFD 1, Lancaster (c & w)
 Sawyer, Alfred, Jaffrey (c)
 Schander, John, Newmarket (c)
 Sibgo Tree Co., Colebrook (c, w, b & r)
 Simons, Donald, 15 Shirley Ave., Goffstown (r)
 Slanetz, William, Keene (c & r)
 Smith, Leonard, RFD 7, Penacook (c & r)
 Society for the Protection of New Hampshire Forests, State House, Concord (c)
 Stiles, Ernest, Milan (c)
 Stiles, Walton, Ctr. Strafford (c)
 Struhsaker, Philip, Flintlock Lodge, Franconia (c)
 Tatham, Donald A., Orford (c & b)
 Taylor, Sidney J., Contoocook (c & r)
 Thibeault, Joseph, Hall Stream (P.O. Beecher Falls, Vt.) (c, b & w)
 Tyler, George, Monroe (c)
 Vaitl, Matthew, Jefferson (c)
 Vatcher, George, Sanborn Rd., Hampton Falls (c & r)
 Wagner Woodlands & Co., Lyme (c & b)
 Wallace, Lew, RFD No. 1, Colebrook (c)
 Warren, Richard, Barrington (c & r)
 Watson, Gail, Laconia (c)
 Watson, Lyle, Belmont (c)
 Webber, Carl, Dublin (c)
 Weir, Bill, Colebrook (c, b, w & r)
 Weir, Harlie, Colebrook (c)
 Wheeler, Claude, Hall Stream (P.O. Beecher Falls, Vt.) (c, b, w & r)
 Wheeler, Leonard, Beecher Falls, Vt. (Bishop Brook Road, N. H.) (c)
 Wheeler, Donald, Pittsburg (P.O. Beecher Falls, Vt.) (c)
 Wevant, Donald, RFD 2, W. Franklin (c & r)
 Wilkins, Malcolm, Canterbury (c & r)
 Yale, William, Sandown, RFD 2, Chester (c)
 Yost, Karl, Gilmanton (c)
 Young, Merle & Son, Colebrook (c & b)

Christmas Tree Truckers (Partial List)

Covell, Walter, Colebrook
 Currier Trucking, Gorham
 Dostie, Andre, Colebrook
 MacLean, Joseph, Colebrook
 Marchand, Neil, W. Stewartstown
 Marquis, Gilles, W. Stewartstown
 Marquis, Ronald, Hall Stream (P.O. Beecher Falls, Vt.)
 Rancloes, Frank, W. Stewartstown

Maple Sap Buyers and Central Evaporation Plants in New Hampshire

Grafton County

Howard and Bruce Townsend
Lebanon 03766

Sherburne B. Dame
Winter Street
Ashland 03217

John H. Fadden & Son
Bell Street
North Woodstock 03262

Sullivan County

Kenneth E. Bascom
R.F.D. 1
Alstead 03602

Gordon H. Gowan
Tamarack Farm
Acworth
Post Office Alstead 03602

George B. Porter
Langdon
Post Office Alstead 03602

Putnam Brothers
R.F.D. 1
Charlestown 03603

Fred and Shirley Sullivan
Cornish Flat 03746

Richard Webb
Harding Hill Farm
Mount Sunapee 03772

High View Church Farm
East Lempster 03605

Carroll County

Partridge Rock Farm
Ray Conley
Center Sandwich 03227

Tom Hunter
Melvin Village
Post Office Center Harbor 03226

Cheshire County

Niles Aldrich
Summit Road Sugar House
Route 12
Westmoreland 03467

Charles Bacon
Upper Dublin Rd.
Jaffrey

Merrimack County

Lauris Moore
Loudon 03301

Cecil Pearl
Loudon 03301

Rockingham County

Kenneth W. Gowen
Durham Post Office
RFD 1, Newmarket

Maple Syrup Producers

Belknap County

Hill, Arthur W., Belmont, P.O. Laconia 03246

Robertson, Robert B., Gilford, P.O. Laconia 03246

Brown, Arthur R., Gilmanton, P.O. 7 South State Street, Concord 03301

Potter, Robert L., Lower Gilmanton, P.O. Barnstead 03218

Price, A. Richard & Sons, Gilmanton Iron Works 03837

Fillion, William E., R.F.D. 2, Laconia 03246

Moulton, Robert H. & Betty, Ancestral Acres Farm, New Hampton, P.O. Ashland
03217

Elliot, Mrs. Alfreda H., Hersey Farm, Sanbornton, P.O. Tilton 03276

Harrington, Malcolm, Hillcrest Farm, Gilford, P.O. Laconia 03246

Carroll County

Lucy, Fred P., North Conway 03860

Vappi, Richard R., Moultonboro, P.O. RFD 1, Center Harbor 03226

Cook, Wilbur A., Jr., Mt. Isreal Farm, Box 54, Center Sandwich 03227

Smith, Julius H., RFD, Center Sandwich 03227

Bemis Farm, Douglas McKensie, Mgr., Tamworth 03886
Dow, Roland D., Tuftonboro, P.O. Ossipee 03864
Hunter, Tom, Melvin Village, P.O. Center Harbor 03226
Whitten, Charles F., Tuftonboro, P.O. Wolfeboro 03894
Turtle, Daniel, Sanbornville 03872
Walter, Stillman E., Walter Bros., Box 23, Wolfeboro 03894
Watts Farm, Percy Taylor, Mgr., Freedom 03836
Partridge Rock Farm, Ray Conley, Center Sandwich 03227

Cheshire County

Johnson, Daniel M., Rindge, P.O. RFD 1, Box 265, Jaffrey 03452
Hall, Forest F. Jr., Box 43, Chesterfield 03448—Westmoreland
Bacon, Charles W., Bacon's Sugar House, Jaffrey Center 03454
Balantine, James W., RFD, Jaffrey 03452
Brummer, E. C., Woodbound Inn, Jaffrey 03452
Shattuck, Daniel C. Jr., RFD Box 254, Jaffrey 03452
Barrett, Mrs. Evans H. & Sons, RFD 2, Summit Road, Keene 03431
Bolles, Harry H., Nims Road, Keene 03431
Borden, Bruce L., 11 Andover Street, Keene 03431—Wyman Road
Bretwood Farm, Keene 03431
Hall, Walter S., 598 West Street, Keene 03431
Hamilton, Byrd G., 510 Elm Street, Keene 03431
Knight, Robert H. & Sons, West Surry Road, Keene 03431
Parker, Lewis S., 409 Main Street, Keene 03431—Nelson
Salo, John S., Box 290, Keene 03431—Marlow
Woodbury, John III, Old Concord Road, Keene 03431
Wyman, Arthur B., 25 Woodburn Street, Keene 03431
Depres, Alfred S., Monadnock Drive, Marlboro 03455
Porter, Charles W., Marlboro 03455
Whippoorwill Farm, Chester Wats, Manager, RFD, Marlboro 03455
Foote, Thomas F., Marlow 03456
Plumb, Allen W., P.O. Box 12, Marlow 03456
Pitcher, Mountain Farm, Stoddard 03464
Sweet, Harvey W., Sullivan, Nelson Star Route, Keene 03431
Turner, Gardner C., Seward Mountain Farm, Sullivan, P.O. E. Sullivan 03445
French, Winston H., Nelson 03457
Allen, William A., Box 443, Walpole 03608
Blake, Walter A. & McGill, Frank, Walpole 03608
Galloway, Paul R., Walpole 03608
Jennison, Floyd R., RFD 1, Walpole 03608—Watkins Hill Road
Rhodes, E. Everett, RFD, Walpole 03608—County Road
Summit Sugar House, F. Niles Aldrich, Route 12, Westmoreland 03467
Aldrich, Gilbert, Westmoreland 03467
King Farm, East Westmoreland, P.O. Box 46, Westmoreland 03467
Evans, Hugh & Emery, Guilford, Vt., P.O. RFD 3, Brattleboro, Vt. 05301
Hill, Charles, Stoddard 03464
McDonald, Howard, Hinsdale 03451
Goodnow, Howard, West Swanzey 03469
Dean, Tom, West Chesterfield 03466

Coos County

Olivier, J. Maurice, RFD 1, North Stratford 03590
FFA Chapter, c/o Waleryszak, Eric, White Mountain Regional High School,
Whitefield 03598
Connary, Edward, North Stratford 03590
Emerson, Stephen, RFD 1, Lancaster 03584
Chappell, Colon, Pittsburg 03592
Bisson, Armand F., 105 Mason Street, Berlin 03570
Colebrook Academy Forestry Enterprise, Colebrook 03576
Elkins Suzar House, c/o Clukay, Ted, RFD 1, Jefferson 03583
Bean, Willard, Col., 66 Elm Street, Lancaster 03584
Bishop, Arno, RFD 1, Lancaster 03584
Colbeth, Bradley, Garland Road, Lancaster 03584
Boothman, John H., Jr., Randolph 03593

Rancoes, Frank O., Stewartstown (P.O. Colebrook 03576)
Walker, Miriam Dwight (Miss), High Hole Farm, Kimball Hill, Whitefield 03598
Burns, Harold, Whitefield 03598
Rheaume, Omer, 276 E. Mason Street, Berlin 03570
Savage, Gordon, Jefferson
Blakslee, Charles & Ralph, Dalton Road, Dalton
Ferguson, Wilmar, RFD 2, Colebrook
Guay, Alec, RFD 2, Colebrook
Mosher, James, Lancaster

Grafton County

Townsend, Howard and Bruce, Lebanon 03766
Tyler, George R., Tyler Tree Farm, Monroe 03771
Underhill Farm, Haverhill 03765
Worthen, Samuel E., Peaked Hill Road, Bristol 03222
Dame, Sherburne B., Winter Street, Ashland 03217
Burleigh Farm Association, Holderness 03245
Page Brothers, Pike 03780
Fobes, J. W., Franconia 03580
George O. Hicks & Sons, Slate Ledge Road, Littleton 03561
Barney, Reginald, Operator (Vincent Frascinno; Owner) Box 95, Canaan 03741
Benton, Bert, P.O. Campton 03223
Clement, George and David, Landaff, P.O. Lisbon 03585
J. H. Fadden & Son, Bell Street, North Woodstock 03262
Franklin, Harry, Orford 03777
Gregoire, Robert, R.F.D. 1, Rummey 03266
Labbay, Leonard A., R.F.D. 1, Lisbon 03585
Mitchell, L. E., Sr., Plymouth 03264
Wallace Patch & Sons, Box 270, Lebanon 03766
Pease, Glenn F., Sunset View Farm, R.F.D., Orford 03777
Pulsifer, B. W., Plymouth 03264
Pulsifer, Clarence W. & Son., R.F.D. 1, Plymouth 03264
Stewart, Charles, R.F.D., Lisbon 03585

Hillsboro County

Parker, Raymond, Mason, P.O. Brookline 03033
Tuttle, Richard R., Jr., Wilton, P.O. South Lyndeboro 03082
Fisk, William, Dale Street, Wilton 03086
Hutchinson, Calvin L., South Lyndeboro 03082
Forster Bros., Highland Farm, Antrim 03440
Chas. F. & Naomi C. Wilcox, South Lyndeboro 03082
North Pack Farm, Chester Russell, Secretary, Greenfield 03047
Ednew Farm, Mrs. Eileen D. Newhall, Bennington 03442
Newhall, Gladys E. (Miss), Bennington 03442
Whipple, Earle C., Goffstown 03045
Briere & Pierce, New Boston 03070
Crane, Walter H., Hillsboro 03244
Nagite, Earle H., Peterborough 03458
Greene, Bruce H., Hillsboro Upper Village 03244
Goodwin & Merchant, Greenfield 03047
Holt, Guy M., Wilton 03086
Tocher, Berry, South Lyndeboro 03082
Van Ham, Ernest, South Lyndeboro 03082
Blouin, R., 86 Warren Avenue, Manchester 03102
Rand, Loran P., Weare 03281
Curtis, Grace, Est., Wilton 03086
Buchanan, Robert, Kendall Hill Road, Mount Vernon 03057

Merrimack County

Gregory, Franklin E., Greylore Farm, Bow, P.O. Concord 03301
Crosby, R. E. & Sons, Starkway Farm, Dunbarton, P.O. RFD 2, Concord 03301
Fortune, John A., RFD 2, Bradford 03221
Messer, Roy A. & Sons, Bradford 03221

Sweet, Jeffrey C., Marshall Hill, Bradford 03221
 Colby, Donald, RFD 6, Currier Road, Concord 03301
 Emerson, David, Shaker Road, Canterbury, P.O. RFD 6, Concord 03301
 Fifield, Stuart, Canterbury 03224
 Hutchinson, Roy S., Sap-N-Cider Farm, Canterbury, P.O. Concord 03301
 French, Charles C., 230 Pembroke Street, Concord 03301
 Crossman, Stanley & Louise, Hopkinton, P.O. RFD 1, Concord 03301
 Watson, David C., RFD 1, Pittsfield 03263
 Don Wheeler Family, Epsom, P.O. RFD 1, Pittsfield 03263
 Robie, George W. & Cynthia, Hill 03243
 Ashland, Norman J., Loudon, P.O. Concord 03301
 Merrill, Maurice & Ralph, Loudon, P.O. RFD 2, Pittsfield 03263
 Moore, Lauris D., Sunny Side Maples, Loudon, P.O. Concord 03301
 Moore, Lloyd O. & Sons, Ridge Crest Farm, Loudon, P.O. Concord 03301
 Moore, Richard & Elaine, Loudon, P.O. RFD 8, Concord 03301
 Pearl, Cecil V. & Eleanor L., Loudon, P.O. Concord 03301
 Smith, Benjamin E., Loudon, P.O. Concord 03301
 Gay, Clarence, New London 03257
 Gay, Paul B., New London 03257
 Lovely, Robert M., Sr., New London 03257
 Stevens, Mrs. Marilyn, Horse Corner Road, RFD 1, Chichester 03258
 Twombly, Ray, Salisbury 03268
 Roby, Roy, Webster, P.O. Contoocook 03229
 Talbot, George H., Webster, P.O. Penacook 03301
 Anderson Brothers, Bradford 03221
 Kearsarge Regional High School Sap Club, Sutton 03221

Rockingham County

Shores, Folger, Gossville 03239
 Cowans, Mike, Vo-Ag Instructor, Coe Brown Academy, Northwood 03261
 Bradbrook, Robert, East Kingston 03827
 Dutton, Ralph, Londonderry 03053
 Gowen, Kenneth, Newmarket 03857—Lee
 Sanborn, Philip, Newmarket 03857—Lee

Stafford County

Stiles, James, 03884
 Jennings, Irving, New Durham 03855
 Sidmore, David, R.F.D. 2, Box 137, Dover 03820

Sullivan County

Bascom, Kenneth E., RFD 1, P.O. Alstead 03602
 Campbell, Winifred, Acworth, P.O. Alstead 03602
 Clark, Alvin L., Langdon, P.O. Alstead 03602
 Clark, Roscoe D., Acworth, P.O. South Acworth 03607
 Gowen, Gordon H., Tamrack Farm, Acworth, P.O. Alstead 03602
 Newton, Leon F., Acworth, P.O. Alstead 03602
 Putnam Brothers, RFD 1, Charlestown 03603
 Shugah Vale Inc., Claremont 03743
 Putnam, Donald E. & Sons, East Road, Cornish, P.O. RFD 2, Windsor, Vermont 05089
 Runnals, George A., Mor-Ra-Less Acres, Cornish, P.O. Windsor, Vermont 05089
 Sullivan, Fred & Shirley, Cornish Flat 03746
 Hall, Frederick E., Fieldstone Farm, W. Unity, P.O. Star Route, Charlestown 03603
 Holmes, Clifford J., Holden Hill, Langdon, P.O. Alstead 03602
 Porter, George B., Langdon, P.O. Alstead 03602
 Nielson, George, Wendell 03783
 Nutting, Elwin, Box 764, Wendell, RFD 2, Newport 03738
 Webb, Richard, Harding Hill Farm, Mt. Sunapee 03772
 Quimby, Arthur W., Plainfield 03781
 Williams, Wallace H., Plainfield, P.O. Meriden 03770
 Smith, Ethan A., RFD 2, Newport 03773
 Easton, Frank B., Jr., Star Lake Farm, Springfield, P.O. Georges Mills 02751
 Sugar House Campground, Kirk Heath, W. Springfield, P.O. Enfield 03748

possible question for consulting forester

Crane, Perley H., Sons, Washington, P.O. Box 97, Hillsboro 03244
Jager, Ronald, Washington 03280
Howard, Henry A., RFD 3, Grantham 03753
High View Church Farm, East Lempster 03605

Partial List of Consulting Foresters Practicing in New Hampshire

The services rendered by the Consulting Foresters are indicated by the numbers following their name. The service rendered is keyed to the numbers as follows:

- | | |
|--|--|
| 1. Forest Management plan | 9. Forest land survey |
| 2. Timber & timber land appraisal | 10. Title and boundary search |
| 3. Income tax assistance
(timber depletion) | 11. Recreational development |
| 4. Timber sales & supervision | 12. Laying out and supervision of woods
road construction |
| 5. Timber marking | 13. Owners or operators representative
in trespass cases |
| 6. Timber stand improvement work
(weeding, thinning, pruning) | 14. Licensed real estate brokers |
| 7. Tree planting | 15. Registered Forester |
| 8. Approved vendor for R.E.A.P.
Forestry practices | 16. Registered commercial applicators
for pesticides |

Attridge, Milton, Antrim — 1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 16.

Baker, David, Box 27, Newton — 1, 2, 4, 5, 6, 8, 12, 16.

Bean, William, c/o Williams Est., Windy Row, Peterborough — 1, 2, 3, 4, 5, 6, 7, 8,
9, 10, 11, 12.

Boomer, Stephen J., White Mountain Highway, Center Ossipee — 2, 9, 10.

Boulanger, Richard, 47 Maple Street, Littleton — 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11,
12, 13.

Breckenridge, Walter F., Spruce Street, Newport — 2, 9, 10, 13.

Brown, J. Wilcox, RFD No. 2, Concord — 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14.

Calhoun, John C., Jr., Gilsum — 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 16.

Coville, Stanley, Tamworth — 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 15.

Dickenson, Howard, Eaton Center — 1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12.

Dundee Management Corp., P.O. Box 101, Jackson — 1, 2, 4, 5, 6, 7, 8, 9, 10, 12.

Dwyer, Walter W., Jr., Briar Hill Road, Hopkinton Village — 4, 9, 14.

Dyer, Donald, S. Main St., Colebrook — 2, 4, 5, 6, 9, 10, 15.

Feuer, Martin M., Main Street, Atkinson — 2, 5, 12, 13.

Hambrook, Francis G., RFD, Center Harbor — 1, 2, 4, 5, 6, 8, 9, 10, 12, 13.

House, William P., RFD, Marlboro — 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14,
15, 16.

Hubbard, Ronald, RFD No. 1, Durham — 1, 4, 5, 6, 7, 8, 12.

Jacobson, Arthur, Bartlett, N. H. — 1, 2, 4, 5, 6, 7, 11.

Johnston, Richard B., RFD, Center Harbor (Sandwich) — 1, 2, 3, 4, 5, 6, 7, 8, 9,
10, 12, 13, 14, 15, 16.

Keller, John C., Bethlehem — 1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15.

Knickerbocker, Gerald C., Lake Spofford Realty, Spofford Lake, N.H. — 1, 2, 3, 4,
5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15.

- LaBree, Clifton, New Boston, N.H. — 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14.
- Lammert, Peter R., RR No. 1, Box 409, Newport (Croyden) — 1, 4, 5, 6, 7, 8, 11, 12, 13, 15.
- Lane, William, Crown Point Road, Rochester — 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15.
- Macomber, Elwin E., RFD No. 2, Plymouth — 1, 2, 4, 5, 9, 10, 11, 12, 13.
- Magoon, John, 119 Gates St., Portsmouth — 1, 2, 4, 5, 6, 7, 8, 10, 11, 12.
- Marshall, Raymond H., Mann's Hill Road, Littleton — 2, 4, 5, 6, 7, 8, 9, 10, 13, 15.
- McIntyre, Tim, 199 Gates St., Portsmouth — 1, 2, 4, 5, 6, 7, 8, 10, 11, 12.
- Morse, John H., P.O. Box 65, Wilmot, N.H. — 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16.
- Neil, James H., 163 Maple Ave., Claremont — 1, 2, 4, 5, 9, 10, 12, 15.
- New England Forestry Foundation, Inc., 1 Court St., Boston, Mass.
- Noyes, David R., RFD, Gossville, N.H. — 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16.
- Phoenix Inc., c/o David Patrick, RFD, Colebrook — 1, 2, 4, 5, 6, 8, 9, 10, 11, 12, 13.
- Plumb, Allan W., Box 12, Marlow, N.H. — 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15.
- Poppema, Donald, RFD No. 1, Center Barnstead, N.H. — 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13.
- Renzelman, Pete, 199 Gates St., Portsmouth, N.H. — 1, 4, 5, 6, 7, 8, 12.
- Rastallis, Stanley J., RFD No. 1, Box 227, Newport — 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15.
- Richer, Clifford, 122 Cheney St., Newport, N.H. — 1, 2, 4, 5, 6, 8, 9, 10, 11, 12, 13, 15.
- Stevens, Leon W., 12 Stevens St., Claremont, N.H. — 1, 2, 4, 5, 6, 7, 8, 9, 11, 12, 15.
- Thorne, Thaddeus, Center Conway, N.H. — 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15.
- Waldo Land Management Service, Henry C. Waldo, Lincoln, N.H. — 1, 2, 4, 9, 10, 11, 13, 15.
- Woodward, Howard, 234 Main Street, Berlin, N.H. — 1, 2, 3, 4, 9, 10, 12, 13, 14, 15.
- Woodward, Karl, Rte. 2, Box 138A1, Dover — 1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12.
- Woodward, Steve, 234 Main Street, Berlin, N.H. — 1, 2, 4, 5, 9, 10, 12.

Partial List of Industrial and Municipal Foresters Employed in New Hampshire

Rhades F. Sawyer
Allen Rogers Corp., Laconia
David McKay

Andorra Forest, Stoddard
William Dussault

Brown Company, Berlin

K. S. Scott
M. E. Hamlin
J. D. Bates
K. S. Norcott

F. Renoux
L. Parsons
D. Grella
M. Grigel

D. R. Bennett
R. Loiselle
A. York
B. Wyman

Draper Division, North American Rockwell Corp., Beebe River
John French, Woodlands Mgr.
David Ash

Groveton Paper Company, Subsidiary of Diamond International Corp., Groveton
Harold S. Mountain
Collin Sutherland

International Paper Co., North Stratford
Rhoades F. Sawyer

Manchester Water Works, Manchester
Aldis J. Christie

David & Symonds Lumber Co., Claremont

Oxford Paper Co., School Street, Concord
Richard Ashton

St. Regis Paper Co., West Stewartstown
George D. Gates Philip Nowell
David B. Strathdee Peter Ludwig
Clifford Williamson Fred Bigney

Wagner Woodland & Co., Lyme
Robert Berti
Richard Dearborn

Webber, William, Lorden Lumber Co., Milford

Saunders Bros., Westbrook, Me.
Buhrman Garland

Partial List of Timber Stand Improvement Contractors

These men offer the following forestry services: weeding, thinning, pruning, tree planting.

Bartlett, John, RFD 5, Laconia, N. H.

Bennett, Harry J., RFD No. 3, Winchester, N. H.

Carlson, Walter Jr., Timberland Improvement Co., Wolfeboro, N. H.

Curran, Martin, 31 Second St., Somersworth, N. H.

Day, Louis C., High Street, West Stewartstown, N. H.

Dundee Management Corp., Box 101, Jackson, N. H.

Garneau, Leo, Box 148, Lowell, Mass.

Kear-Wood Inc., Wilmot, N. H.

Mason, Gary, 213 Sage St., Hanover and RFD No. 1, Exeter, N. H.

Natoli, Ronald, Colby Rd., Tilton, N. H.

Olson, Kurt, RFD, Nashua, N. H.

Prevost, David, Box 183, Gilsun, N. H.

Robinson, Clarence, RFD No. 1, Tilton

Russell, Lee, Farmington, N. H.

Tatham, Donald, Orford, N. H.

Timberland Improvement Co., Carlson, Walter, Jr., Mgr., Wolfeboro

Wagner Woodlands & Co., Lyme, N. H.

Quinn, George N., 33 Central, Farmington, N. H.

F. A. Bartlett Tree Expert Co., 2770 Summer St., Stamford, Conn.

William Clark, Jr., Robert Zigler, Jr., Elm St., Milford, N. H.

New England Forestry Foundation, 1 Court St., Boston

AMERICAN SOFTWOOD LUMBER STANDARD

The "American Softwood Lumber Standard", Voluntary Product Standard PS20-70 became fully effective on September 1, 1970. The new softwood lumber standard relates softwood lumber sizes to moisture content at the time of manufacture so that both seasoned and unseasoned lumber is uniform in sizes when used.

Copies of the standard can be obtained from the Superintendent of Documents, U. S. Government Printing Office, Washington, D.C., 20402. Price 35 cents. (Catalog No. C13.20/2:20-70).

LUMBER SIZE TABLE

Nominal and Minimum-dressed Sizes of Boards, Dimension and Timbers
(All Figures In Inches)

ITEM	THICKNESS			FACE WIDTHS				
	Nominal	Minimum Dressed		Nominal	Minimum Dressed			
		Dry	Green		Dry	Green		
Boards*				2	1-1/2	1-9/16		
				3	2-1/2	2-9/16		
				4	3-1/2	3-9/16		
				5	4-1/2	4-5/8		
		1	3/4	25/32	6	5-1/2	5-5/8	
					7	6-1/2	6-5/8	
		1-1/4	1	1-1/32	8	7-1/4	7-1/2	
					9	8-1/4	8-1/2	
		1-1/2	1-1/4	1-9/32	10	9-1/4	9-1/2	
					11	10-1/4	10-1/2	
					12	11-1/4	11-1/2	
					14	13-1/4	13-1/2	
					16	15-1/4	15-1/2	
	Dimension				2	1-1/2	1-9/16	
					3	2-1/2	2-9/16	
					4	3-1/2	3-9/16	
		2	1-1/2	1-9/16	5	4-1/2	4-5/8	
		2-1/2	2	2-1/16	6	5-1/2	5-5/8	
					8	7-1/4	7-1/2	
		3	2-1/2	2-9/16	10	9-1/4	9-1/2	
		3-1/2	3	3-1/16	12	11-1/4	11-1/2	
					14	13-1/4	13-1/2	
					16	15-1/4	15-1/2	
Dimension					2	1-1/2	1-9/16	
					3	2-1/2	2-9/16	
					4	3-1/2	3-9/16	
					5	4-1/2	4-5/8	
			4	3-1/2	3-9/16	6	5-1/2	5-5/8
			4-1/2	4	4-1/16	8	7-1/4	7-1/2
					10	9-1/4	9-1/2	
					12	11-1/4	11-1/2	
					14	13-1/4	13-1/2	
					16	15-1/4	15-1/2	
	Timbers	5 & Thicker		1/2 Off	5 & Wider		1/2 Off	

* Boards less than the minimum thickness for 1 inch nominal but 5/8 inch or greater thickness dry (11/16 inch green) may be regarded as American Standard Lumber, but such boards shall be marked to show the size and condition of seasoning at the time of dressing. They shall also be distinguished from 1-inch boards on invoices and certificates.

Dry Sizes apply to lumber which has been seasoned or dried to a moisture content of 19 percent or less.

Green Sizes apply to lumber having a moisture content in excess of 19 percent.

UNITS OF MEASUREMENT FOR FOREST PRODUCTS

A knowledge of the common units of measure for the various forest products is of importance to persons involved in the marketing process. These units of measure form a basis for common understanding between buyer and seller. Familiarity with these units can mean a greater financial return and a reduction of the chances of misunderstanding of the terms of forest products sale agreements.

The Blodgett rule is the official standard in New Hampshire. Several other rules are also in use by mutual agreement between buyer and seller. However, the International Rule, $\frac{1}{4}$ " kerf, is most commonly accepted.

The volume of a standing tree or log is determined by using tree and log rules. These rules simply give the approximate number of board feet of sawed lumber that may be manufactured after allowing for milling losses in slabs, edgings and sawdust.

Tree Scale (Tree Volume Measurement)

To determine the board foot content of standing trees, tally the trees by:

- 1) D.B.H. (Diameter Breast Height = measurement of diameter of tree $4\frac{1}{2}$ ft. above ground)
- 2) Estimate the number of 16 foot logs to 6 inch top diameter
- 3) Apply the scale given in Table below

Tree Scale — International Rule

D.B.H.	<i>Number of 16 foot logs — to 6" top</i>						
Inches	1	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
6	10	15					
8	20	35	50				
10	40	55	70	85	95		
12	60	75	95	110	125	145	165
14	85	110	135	150	165	190	215
16	110	150	190	215	240	260	285
18	140	195	245	285	320	345	370
20	180	245	310	355	400	435	465
22	220	300	380	445	505	545	585
24	270	365	460	540	615	670	730
26	320	435	550	645	735	805	875
28	370	515	655	760	870	950	1035
30	430	595	760	885	1010	1110	1205

Log Rule

To determine the board foot content of sawlogs, tally the logs by:

- 1) Average Diameter at the small end and inside the bark and by lengths
- 2) Apply volumes from the table given in Table below and total

The International Log Rule $\frac{1}{4}$ -inch Saw Kerf

Diameter (Small end inside bark) Inches	Length of Log in Feet						
	8	10	12	14	16	18	20
4		5	5	5	5	5	10
5	5	5	10	10	10	15	15
6	10	10	15	15	20	25	25
7	10	15	20	25	30	35	40
8	15	20	25	35	40	45	50
9	20	30	35	45	50	60	70
10	30	35	45	55	65	75	85
11	35	45	55	70	80	95	105
12	45	55	70	85	95	110	125
13	55	70	85	100	115	135	150
14	65	80	100	115	135	155	175
15	75	95	115	135	160	180	205
16	85	110	130	155	180	205	235
17	95	125	150	180	205	235	265
18	110	140	170	200	230	265	300
19	125	155	190	225	260	300	335
20	135	175	210	250	290	330	370
21	155	195	235	285	320	365	410
22	170	215	260	305	355	405	455
23	185	235	285	335	390	445	495
24	205	255	310	370	425	485	545
25	220	280	340	400	460	525	590
26	240	305	370	435	500	570	640
27	260	330	400	470	540	615	690
28	280	355	430	510	585	665	745
29	305	385	465	545	630	715	800
30	325	410	495	585	675	765	860

Lumber (Square Edge)

The standard unit of measurement for lumber, is the board foot. It is equivalent to $\frac{1}{12}$ of a cubic foot such as a board 12 inches by 12 inches and 1 inch thick.

Board foot measurements refer to rough lumber. Surfaced lumber is tallied on the basis of width and thickness before surfacing.

To calculate the board footage of lumber, for each piece multiply the width in inches by the thickness in inches by the length in feet and divide by 12.

Example:

$$\frac{6'' \text{ wide} \times 2'' \text{ thick} \times 16' \text{ long}}{12} = 16 \text{ board feet}$$

Board Foot Measure Contained in Lumber

Thickness and Width Inches	Board Foot Content Board Length in Feet					
	6	8	10	12	14	16
1 x 2	1	1 $\frac{1}{3}$	1 $\frac{2}{3}$	2	2 $\frac{1}{3}$	2 $\frac{2}{3}$
1 x 3	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4
1 x 4	2	2 $\frac{2}{3}$	3 $\frac{1}{2}$	4	4 $\frac{2}{3}$	5 $\frac{1}{3}$
1 x 5	2 $\frac{1}{2}$	3 $\frac{1}{3}$	4 $\frac{1}{6}$	5	5 $\frac{5}{6}$	5 $\frac{2}{3}$
1 x 6	3	4	5	6	7	8
1 x 7	3 $\frac{1}{2}$	4 $\frac{2}{3}$	5 $\frac{5}{6}$	7	8 $\frac{1}{6}$	9 $\frac{1}{3}$
1 x 8	4	5 $\frac{1}{3}$	6 $\frac{2}{3}$	8	9 $\frac{1}{3}$	10 $\frac{2}{3}$
1 x 10	5	6 $\frac{2}{3}$	8 $\frac{1}{3}$	10	11 $\frac{2}{3}$	13 $\frac{1}{3}$
1 x 12	6	8	10	12	14	16
1 $\frac{1}{4}$ x 4	2 $\frac{1}{2}$	3 $\frac{1}{3}$	4 $\frac{1}{6}$	5	5 $\frac{5}{6}$	6 $\frac{2}{3}$
1 $\frac{1}{4}$ x 6	3 $\frac{3}{4}$	5	6 $\frac{1}{4}$	7 $\frac{1}{2}$	8 $\frac{3}{4}$	10
1 $\frac{1}{4}$ x 8	5	6 $\frac{2}{3}$	8 $\frac{1}{3}$	10	11 $\frac{2}{3}$	13 $\frac{1}{3}$
1 $\frac{1}{2}$ x 4	3	4	5	6	7	8
1 $\frac{1}{2}$ x 6	4 $\frac{1}{2}$	6	7 $\frac{1}{2}$	9	10 $\frac{1}{2}$	12
1 $\frac{1}{2}$ x 8	6	8	10	12	14	16
2 x 4	4	5 $\frac{1}{3}$	6 $\frac{2}{3}$	8	9 $\frac{1}{3}$	10 $\frac{2}{3}$
2 x 6	6	8	10	12	14	16
2 x 8	8	10 $\frac{2}{3}$	11 $\frac{1}{3}$	16	18 $\frac{2}{3}$	21 $\frac{1}{3}$
2 x 10	10	13 $\frac{1}{3}$	16 $\frac{2}{3}$	20	23 $\frac{1}{3}$	26 $\frac{2}{3}$
2 x 12	12	16	20	24	28	32
2 $\frac{1}{2}$ x 12	15	20	25	30	35	40
3 x 6	9	12	15	18	21	24
3 x 8	12	16	20	24	28	32
3 x 10	15	20	25	30	35	40
3 x 12	18	24	30	36	42	48
4 x 4	8	10 $\frac{2}{3}$	13 $\frac{1}{3}$	16	18 $\frac{2}{3}$	21 $\frac{1}{2}$
6 x 6	18	24	30	36	42	48

Cordwood

Wood fuel may generally be sold only by the standard cord of 128 cubic feet as defined in the following excerpts from New Hampshire Revised Statutes Annotated 359-A:3 and 359-A:35.

RSA 359-A:3 *Definitions of Special Units of Measure.* The term "ton" shall mean a unit of two thousand pounds avoirdupois weight. The term "cord" when used in connection with wood intended for fuel purposes shall mean the amount of wood that is contained in a space of one hundred twenty-eight cubic feet when the wood is ranked and well stowed.

RSA 359-A:35 *Wood.* It shall be unlawful to sell or offer to sell in this state any wood for fuel purposes, except standing trees, wood not exceeding sixteen inches in length, edgings, bobbin wood, clippings, slabs and other waste, in any other manner than by the cord or fraction thereof, unless the parties to the transaction otherwise agree; but no person, firm or corporation dealing in wood, or having or offering wood for sale, shall refuse to sell it by the hereinafter defined load or fractional part thereof. Wood not exceeding sixteen inches in length, edgings, bobbin wood, clippings, slabs and other waste may be sold by the load in the loose; provided, however, that a load shall contain eighty cubic feet, three quarters of a load sixty cubic feet, one half of a load forty cubic feet and one quarter of a load twenty cubic feet. No wood shall be sold by the load in any other dimensions. Whoever sells or offers for sale such wood by the load in the loose shall specify upon the outside of the delivery vehicle the cubic contents thereof, in figures at least one inch high. The commissioner of agriculture shall require the inspectors and sealers to measure the cart bodies or containers used in the delivery of wood by the standard load, to see if they contain the contents specified.

NOTE: Wood dealers are advised that the so-called "short cord" or "face cord" is no longer a legal unit of measure.

(Other tables, etc. which are shown in the 1971 *Forest Market Report* are satisfactory.)

Solid Wood Content of a Standard Cord

1 Standard cord (4'x4'x8')	= 128 cubic feet of wood, bark and air spaces
1 Standard cord of pulpwood, rough	= 85 cubic feet of solid wood (softwood)
1 Standard cord of pulpwood, peeled	= 95 cubic feet of solid wood (softwood)
1 Standard cord of pulpwood, rough	= 85 cubic feet of solid wood (hardwood)
1 Standard cord of pulpwood, peeled	= 95 cubic feet of solid wood (hardwood)
1 Standard cord of boltwood	= 500 board feet

When green rough pulpwood is purchased by weight, the following weight-volume equivalents are generally accepted:

5600 - 5700 pounds = 1 cord (hardwood)
4600 - 4700 pounds = 1 cord (softwood)

**Number of Four-Foot Bolts Contained in a
Standard Cord by Bolt Diameter¹**

<i>Bolt Diameter in inches</i>	<i>Rough Wood</i>	<i>Peeled Wood</i>
4	244	270
5	156	175
6	109	120
7	79	88
8	61	68
9	48	54
10	39	43
11	32	36
12	27	30
13	23	26
14	20	22
15	17	19
16	15	17

¹ Average figures which will vary somewhat with the method of piling and the characteristics of the material.

Solid Wood Content of a Cord

The solid wood content of a cord of pulpwood is dependent on many factors such as:

- 1) The average diameter of the bolts
- 2) Tightness of piling
- 3) Limbing practice and knottiness
- 4) Taper and straightness of individual bolts
- 5) Amount of bark rubbed off prior to scaling
- 6) Period of time between piling and scaling (shrinkage and compaction during transportation)

The volume given in the Table below are averages and are commonly used as conversion factors.

**Number of Cords of Round Wood Required for
1 M Bd. Ft. of Lumber**

<i>Bolt Diameter inches</i>	<i>Number of cords</i>
5	2.20
6	2.18
7	2.10
8	2.07
9	2.01
10	1.94
11	1.87
12	1.81

Number of Bd. Ft. of Lumber per Cord of Round Wood

<i>Bolt Diameter inches</i>	<i>Number of Bd. Ft.</i>
5	454
6	459
7	476
8	483
9	498
10	515
11	535
12	552

Comparative Volume Table¹ for Log Rules Commonly Used in the Northeast

<i>Name of Rule</i>	<i>Volume in Board Feet</i>												
	<i>Diameter in Inches</i>												
	6	8	10	12	14	16	18	20	22	24	28	32	36
International (¼")	20	40	65	95	135	180	230	290	355	425	585	770	980
Scribner													
Decimal "C"	20	30	60	80	110	160	210	280	330	400	580	740	920
Scribner				79	114	159	213	280	334	404	582	736	923
Doyle or Ontario	4	16	36	64	100	144	196	256	324	400	576	784	1024
Bangor	23	41	69	100	137	182	238	300	369	444	609	792	
Holland or Maine	20	44	68	105	142	179	232	302	363	439	614	795	1026
Vermont	24	43	66	96	130	170	217	267	320	384			
New Hampshire or Blodgett Caliper	35	54	78	106	139	176	217	262	313	367	489	628	785

¹ The values given are for 16' logs.

Railroad Tie Volume Table

<i>Grade</i>	<i>Dimensions</i>	<i>Bd. ft. volume per tie</i>	<i>No. of pcs. per MBF</i>
1	6"x7"x8'6"	25.7	38.9
2	6"x7"x8'6"	29.7	33.7
3	6"x8"x8'6"	34.0	29.4
4	7"x8"x8'6"	39.6	25.2
5	7"x8"x8'6"	44.6	22.4

**Calculated Sawdust Weights in Pounds Per Cubic Foot
at Selected Moisture Contents.¹**

Moisture Content Level		Species and Compaction Classes							
		White Pine			Red Oak			Red Maple	
Percent	Percent	Light	Shaken	Packed	Light	Shaken	Packed	Light	Shaken
Oven-dry	Green Basis	7.7	9.7	13.2	11.0	13.9	16.8	8.9	12.2
5	4.8	8.1	10.2	13.7	11.5	14.6	17.3	9.3	12.8
10	9.1	8.5	10.7	14.0	12.1	15.3	17.7	9.8	13.4
15	13.0	8.8	11.1	14.5	12.6	16.0	18.3	10.2	14.0
20	16.6	9.2	11.6	14.9	13.2	16.7	18.9	10.7	14.6
25	20.0	9.6	12.1	15.2	13.7	17.4	19.5	11.1	15.2
30	23.1	10.0	12.6	15.5	14.3	18.1	20.0	11.6	15.9
50	33.3	11.5	14.5	17.3	16.5	20.8	22.8	13.3	18.3
75	42.8	13.5	17.0	19.5	19.2	24.3	26.2	15.6	21.3
100	50.0	15.4	19.4	22.0	22.0	27.8	31.0	17.8	24.4
125	55.5	17.3	21.8	25.0	24.7	31.3	36.0	20.0	27.4
140	58.3	18.5	23.3	27.1	26.4	33.3	40.0	21.4	29.3

¹ Weights by each compaction class are mean values calculated to be within $\pm \frac{1}{2}$ pound of the true mean value at the 95 percent confidence level.

AVAILABLE HEAT FROM WOOD

The heat value of a substance is determined by the amount of heat, expressed in Btu (British thermal units) produced in burning it to total ash. Since different woods are fundamentally alike in the chemical composition of the wood substance, at the same moisture content, the heat value obtained from unit weights of all woods, regardless of species, is about the same. Exceptions are woods containing resins, oils and gums.

Heat Available from 1 lb. of Moist Wood

Moisture Content of Wood, %		Available Heat, Btu.
Ovendry Basis		
	0	7098
	5	6701
	10	6341
	15	6011
	20	5710
	25	5432
	30	5176
	40	4718
	50	4322
	75	3529
	100	2934
	150	2101
	200	1546
	250	1149

**Approximate Weight and Heating Value per Cord (80 cu. ft.) of
Different Woods, Green and Air Dry (20% Moisture Content)**

<i>Woods</i>	<i>Weight, lb.</i>	<i>Available Heat, Million Btu</i>	<i>Equivalent in Coal Tons</i>	<i>Equivalent in Gallons of Fuel Oil</i>
	<i>Air-dry</i>	<i>Air-dry</i>	<i>Air-dry</i>	
Ash	3,440	20.0	0.91	145
Aspen	2,160	12.5	0.57	91
Beech, American	3,760	21.3	0.99	158
Birch, yellow	3,680	21.3	0.97	154
Douglas-fir	2,400	18.0	0.82	130
Elm, American	2,900	17.2	0.87	125
Hickory, shagbark	4,240	24.6	1.12	178
Maple, red	3,200	18.6	0.85	135
Maple, sugar	3,680	21.3	0.97	154
Oak, red	3,680	21.3	0.97	154
Oak, white	3,920	22.7	1.04	165
Pine, eastern white	2,080	13.3	0.60	96
Pine, southern yellow	2,600	20.5	0.94	149

CAUSES OF DEGRADE IN AIR-DRIED LUMBER

TO REDUCE DEGRADE in air-dried lumber, follow proper stacking and storing principles. Here are the different types of degrade and the causes:

Split—(1) two few stickers, (2) lack of roofing or poor roofing, (3) stickers not flush with ends of boards.

Check—(1) lack of roofing, (2) board edges exposed at bunk spaces, (3) stickers not flush with ends of boards, (4) drying too rapid due to excessive exposure of lumber stacks.

Warp—(1) poor sticker alignment, (2) poor bunk alignment, (3) lack of sufficient stickers, (4) foundation out of level, (5) thick and thin lumber in same course in stack.

Stain—(1) no chemical dip, (2) use of green or wide stickers, (3) base of piles too low, (4) grass and weeds growing between stacks, (5) poor yard location, (6) stickers too thin.

Source: U. S. Forest Service

FOREST PRODUCTS LABORATORY PUBLICATION LISTS

LISTS OF PUBLICATIONS dealing with investigative projects of the U. S. Forest Products Laboratory or relating to special interest groups are available from the Director, Forest Products Laboratory, Madison, Wis. 53705. Separate lists have been compiled for each of the following subjects: Box, Crate & Packaging Data; Drying of Wood; Fire Protection; Glue & Plywood; Growth, Structure & Identification of Wood; Furniture Manufacture; Logging, Milling, & Utilization of Timber Products; Mechanical Properties of Timber; Structural Sandwich; Plastic Laminates, & Wood-Base Components; Thermal Properties of Wood; Wood Finishing Subjects; Wood Preservation; Architects, Builders & Engineers.

METRIC EQUIVALENTS

(Based on National Bureau of Standards)

Length

Mm.	=	0.0393 in.	In.	=	25.4 mm.
Cm.	=	0.3937 in.	In.	=	2.5400 cm.
Meter	=	39.37 in.	Ft.	=	304.8 mm.
Meter	=	3.2808 ft.	Ft.	=	30.48 cm.
Meter	=	1.0936 yd.	Ft.	=	0.3048 m.
Km.	=	3,280.8 ft.	Yd.	=	0.9144 cm.
Km.	=	0.6214 mile	Mile	=	1,609.34 m.
			Mile	=	1.6093 km.

Area

Sq. cm.	=	0.1550 sq. in.	Sq. in.	=	6.4516 sq. cm.
Sq. m.	=	10.7639 sq. ft.	Sq. ft.	=	929.03 sq. cm.
Sq. m.	=	1.1960 sq. yd.	Sq. ft.	=	0.0929 sq. m.
Hectare	=	2.4710 acres	Sq. yd.	=	0.8361 sq. m.
Sq. km.	=	247.105 acres	Acre	=	0.046.87 sq. m.
Sq. km.	=	0.3861 sq. mile	Acre	=	0.404 hectare
			Sq. mile	=	2.5900 sq. km.

Volume

Cu. m.	=	2.8877 bd. ft.	Bd. ft.	=	0.0025 cu. m.
Cu. cm.	=	0.0610 cu. in.	Cu. in.	=	16.3872 cu. cm.
Cu. m.	=	35.3145 cu. ft.	Cu. ft.	=	0.0283 cu. m.
Cu. m.	=	1.3079 cu. yd.	Cu. yd.	=	0.7646 cu. m.

Capacity

Liter	=	0.0353 cu. ft.	Cu. ft.	=	28.3162 liters
Liter	=	0.2642 gal (U. S.)	Gal.	=	3.7853 liters
Liter	=	61.0250 cu. in.	Cu. in.	=	0.0164 liter
Liter	=	2.2046 lb. of pure water at 4 deg. C.			

Weight

Gram	=	15.4324 gr.	Grain	=	0.0648 g.
Gram	=	0.0353 oz.	Oz.	=	28.3495 g.
Kg.	=	2.2046 lb.	Lb.	=	0.4536 kg.
Kg.	=	0.0011 ton	Ton (sht)	=	907.1848 kg.
		(sht)	Ton (sht)	=	0.9072 ton
Ton (met.)	=	1.1023 ton			(met.)
		(sht)	Ton (lg)	=	1.0160 ton
Ton (met.)	=	0.9842 ton			(met.)
		(lg)			

Pressure

1 kg. per sq. cm.	=	14.223 lbs. per sq. in.
1 lb. per sq. in.	=	0.0703 kg. per sq. cm.
1 kg. per sq. in.	=	0.2048 lb. per sq. ft.
1 lb. per sq. ft.	=	4.8824 kg. per sq. m.
1 kg. per sq. cm.	=	0.9678 normal atmosphere