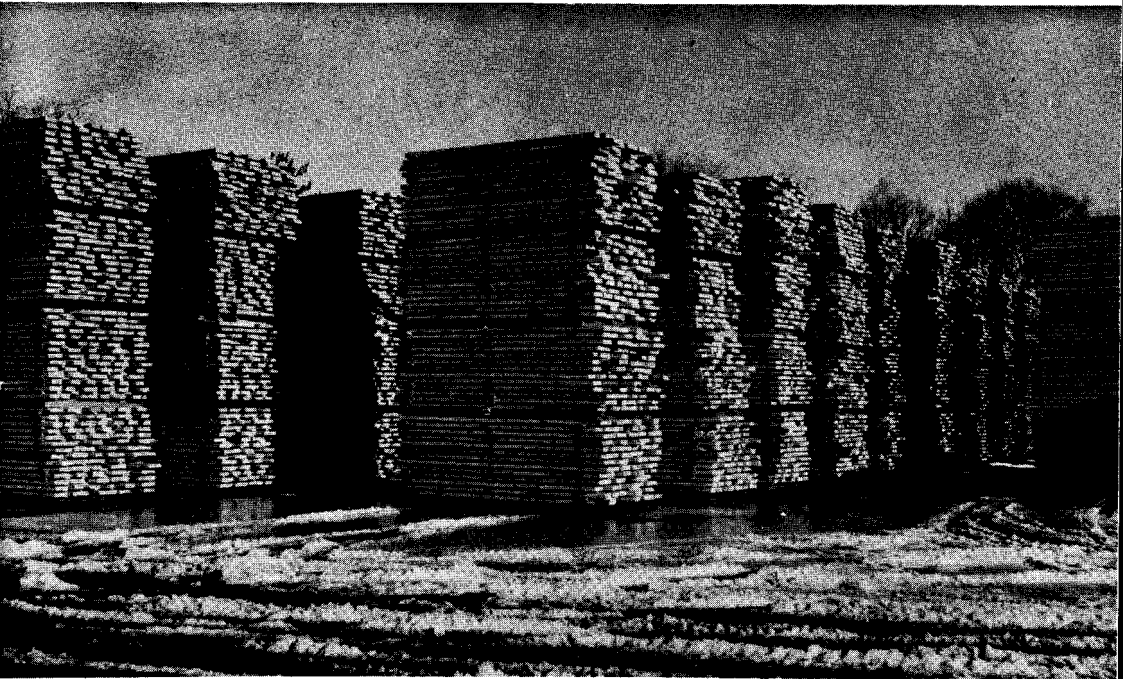


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X March 1965

NEW HAMPSHIRE FOREST MARKET REPORT 1965



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

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Index

	Page
County Foresters in New Hampshire	3
The National Demand and Price Situation for Forest Products	4
Timber — Pulpwood — Veneer	4-5
The Forest Market Situation in New Hampshire	5
Recommendations to persons selling timber	6
Assistance Rendered by the County Foresters	7
Table I — Price Range of Standing Timber (stumpage) and Sawlogs	8
Belknap County	8
Carroll County	8
Cheshire County	9
Coos County	10
Grafton County	10
Hillsboro County	11
Merrimack County	11
Rockingham County	12
Strafford County	12
Sullivan County	12
Table II — Prices of Pulpwood Per Cord	
Northern New Hampshire	13
Southern New Hampshire	13
Table III — Debarked Slabs and Edgings Per Green Ton Strapped	13
Table IV — Prices of:	
Excelsior Wood	14
Boltwood	14
Poles	14
Construction Poles	14
Piling	15
Posts	15
Railroad Cross Ties	15
Table V — Price Range of Fuelwood Per Cord	16
Sawdust at Sawmill Per Cord	16
Formula for determining fuelwood, pulpwood and boltwood in 4' lengths	16
Table VI — Price Range of Christmas Trees and Boughs	16
Table VII — Operating Costs (Contract Prices) for Producing Forest Products	17
Table VIII — Wholesale Price for Rough Air Dried Graded Eastern White Pine	17
Wholesale Price for Rough Air Dried Native Hemlock	18
Table IX — Wholesale Price List for White Pine Lumber Per Mbf	
at a New Hampshire Lumber Yard	18
Wholesale Price List for Eastern Hemlock	18

	Page
Companies and Individuals Buying Standing Timber and Logs and Doing Custom Sawing. Listed by County and Town	19
Belknap County	19
Carroll County	20
Cheshire County	21
Coos County	23
Grafton County	24
Hillsboro County	26
Merrimack County	28
Rockingham County	29
Strafford County	31
Sullivan County	32
Out-of-State Stumpage and Log and Specialty Buyers who Buy in New Hampshire	
Maine	34
Massachusetts	34
Vermont	34
Portable Pulpwood Debarkers	36
Planning Mills available for Custom Work	36
Shingle Mill Operators	36
Wood Chipping Plants	37
Pulpwood Buyers and Kinds of Wood Purchased	37
Excelsior Buyers	38
Poles, Piling, Post and Railroad Tie Buyers	38
Specialty Product Buyers — Birch Bolts and Other Roundwood Products	39
Partial List of Consulting Foresters Practicing in New Hampshire and the Services they Render	40
Partial List of Industrial Foresters Employed in New Hampshire	41
Partial List of Timber Stand Improvement Contractors	42
United States Situation — Christmas Tree Consumption	42
Christmas Tree Production in New Hampshire	42
Christmas Tree Dealers and Producers	43
Conversion Factors and Units of Measurement for Forest Products	45
Tree Scale (Tree Volume Measurement)	45
Log Rule	46
Pulpwood	46
Solid Wood Content	47
Cordwood	48
Lumber (Square edge)	48
White Pine Trial Log Grades and Relationship to Lumber Grade Yields	49
White Pine Log Grades	49
Predicted Lumber Grade Yields	52

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, Extension Forester, and Nicholas Engalichev, Forest Products Utilization and Marketing Specialist.

County Foresters

County	Name	Address
Belknap	Monahan, Daniel H.	County Extension Office Laconia 524-7011 Ext. 731
Carroll	Dodge, Arthur G.	County Extension Office Conway 447-5922
Cheshire	Richards, Tudor	County Extension Office Keene 352-4550
Coos	Sargent, John E.	County Extension Office Lancaster 788-4961
Grafton	Sargent, Leslie B. *Kinder, Richard	County Extension Office Woodsville 747-2061
Hillsboro	Breck, Robert W.	County Extension Office Milford 673-2510
Merrimack	Thompson, Wilbur E.	County Extension Office Concord 225-5505
Rockingham	Knowles, Stanley W. *Ferguson, John	County Extension Office Exeter 772-2741
Strafford	Leighton, Roger S.	County Extension Office Rochester 332-5808
Sullivan	Szymujko, Joseph A.	County Extension Office Claremont 543-3181

* Assistant County Foresters

Forest Market Report for 1965

THE NATIONAL DEMAND AND PRICE SITUATION FOR FOREST PRODUCTS

Consumption

Consumption of all timber products in 1964 is estimated at 12.4 billion cubic feet, and production from domestic forests at 10.7 billion cubic feet. These levels are about 4 percent above those of 1963. Stumpage prices for most species of timber sold from the National Forests have also moved upward during the first half of the year.

Lumber consumption in 1964 is estimated at 41.3 billion board feet, some 2.3 billion board feet above 1963. Softwood lumber consumption is expected to total 34.1 billion board feet — 7 percent above 1963 — while hardwood lumber consumption remains near the 1963 level of 7 billion board feet.

Domestic Production

Domestic Lumber production in 1964 is expected to reach 36.8 billion board feet, an increase of 6 percent over 1963. Softwood lumber production is estimated at 29.8 billion board feet, 8 percent above 1963. Hardwood lumber production is expected to total 7 billion board feet, about the same as in 1963.

Lumber Imports

Lumber imports in 1964 are estimated at 5.5 billion board feet (all softwoods except for 0.3 billion board feet of hardwoods) and exports at 1 billion board feet. Net imports will thus amount to 4.5 billion board feet and compose about 9 percent of total lumber consumption (13 percent of softwood consumption). In comparison, 1963 net imports totaled 4.4 billion board feet and composed 11 percent of total consumption.

Pulpwood Consumption

Trends during the first part of 1964 indicate that about 48.9 million cords of pulpwood — including 36.5 million cords of roundwood and 12.4 million cords of chipped plant byproducts — will be consumed in U. S. pulpmills in 1964. This represents a new peak in consumption — 6 percent above that in 1963 and 66 percent above that of 10 years ago.

Production of round pulpwood from domestic forests is estimated at 35.4 million cords, some 1.2 million cords above 1963. Round softwood production is expected to total 25.3 million cords and hardwoods 10.1 million cords. These levels are respectively 3 percent and 4 percent above those of 1963.

Pulpwood prices at local points of delivery have been relatively stable in recent years. In the Midsouth for example, the price of southern pine roundwood has been around \$15.75 per cord since 1956. Prices of hardwood roundwood and chipped plant byproducts have respectively been near \$13.10 and \$14.40 per cord during the same period.

Pulpwood Chips

Production of pulpwood chips from sawmill and veneer mill residues is expected to reach the equivalent of 11.5 million cords in 1964 — 1.5 million cords above 1963.

Plywood and Veneer Consumption

Plywood and veneer consumption is expected to reach 14.5 billion square feet in 1964, about 11 percent above the 13.1 billion square feet consumed in 1963.

Softwood plywood consumption, including small amounts of veneer, is estimated at 11.5 billion square feet. This is a new high in consumption that has been rising at an average annual rate of 11.1 percent since 1954. Consumption of hardwood plywood and veneer is also expected to reach a new peak of 3 billion square feet in 1964.

The wholesale price index for softwood plywood in July 1964 was 86.6 (1957-59=100), some 3 points below the 1963 average. The wholesale price index for hardwood plywood in the same month was 96.9 — about the same as the 1963 average of 97.3.

Softwood Veneer Log Production

Softwood veneer log production in 1964 is estimated at 5 billion board feet, a half billion board feet more than in 1963. Softwood veneer log production has been concentrated in the West; however, in the past year three new plants using southern pines have been built in the South, and another four plants are either under construction or announced.

Hardwood Veneer Log Production

Domestic hardwood veneer log production has stabilized in recent years at an average of about 800 million board feet a year — a level that is expected to be maintained in 1964. Imports of hardwood plywood and veneer are expected to rise by 9 percent in 1964.

THE FOREST MARKET SITUATION IN NEW HAMPSHIRE

This past year has been a good year for practically all of those engaged in the manufacture and distribution of lumber and wood products — in spite of the almost universal complaint that the margin of profit has been disappointingly slim and out of proportion with the capital and energy invested in the business.

Production of native softwood lumber has surpassed last years' in response to a good demand and a reasonably balanced movement of various grades. Demand for hardwood lumber and dimension stock has been strong and shortages of hardwood pallet stock were reported on several occasions.

The pulpwood and pulp chip markets did not live up to expectation. But the commitments for expansion made by the pulping industry in New England point to an increasing demand for pulpwood and chips in

the future. White Birch bolts as in the past year remained in good demand and command a good price.

All indications are that 1965 will generally be a good year for the lumber and wood products industry.

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 Agricultural Conservation 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.

RANGE OF PRICES PAID FOR FOREST PRODUCTS, JANUARY 1965

Quality, quantity, size of trees, location, terrain, demand, and other factors affect the prices paid for standing timber, logs, pulpwood, boltwood, piling, poles, fuelwood, Christmas trees, and other forest products. The range in prices paid for stumpage and for roadside and mill deliveries is so varied that the prices quoted show a wide range. Prices can be expected to go up or down depending on the market situation and demand for certain species.

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 stump age, logs, and other forest products.

Belknap County

Species	Quality	Stumpage	Roadside	Delivered				
White Pine	Low	\$ 6-10	\$30-32	\$36-38				
	Medium	10-15	32-38	38-40				
	High	15-20	38-41	40-47				
Hemlock and ¹ Spruce	Low	10	28	35				
	Medium	14	33	40				
	High	16	38	42				
Beech	} Low	5-8	30-32	30-35				
Red Maple		8-10	32-33	35-38				
White Oak		10-12	33-34	38-40				
White Ash ¹	} Low	10-12	33-34	38-40				
Basswood ¹								
Paper Birch ¹					Medium	12-15	34-35	40-42
Yellow Birch ¹					High	15-18	35-36	42-45
Sugar Maple ¹								
Red Oak ¹								

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

Carroll County

Species	Quality	Stumpage	Roadside	Delivered	
White Pine	Low	\$ 8-15		\$25-30	
	Medium	15-20	\$35-38	40-48	
	High	20-30	40	50-70	
Hemlock	Medium	15-18	30	40	
	High	20-22		45	
Spruce	Low	15		45	
	Medium	20	35	50	
	High	22		60	
Ash	Medium	15		50	
	High	25		80	
Beech	Low	7			
	Medium	10		43	
	High	12			
Beech-Boltwood				20-30/cord	
Red Maple	Low to High	7-9		50	
Sugar Maple			Low	12	
			Medium	17	40
			High	25	70
Sugar Maple- Boltwood				20-30/cord	

Carroll County (Continued)

Species	Quality	Stumpage	Roadside	Delivered
Paper Birch	Medium to High	20		55
Paper Birch- Boltwood Yellow Birch	Low	10-12/cord		25-34/cord
	Medium	12		
	High	38		50
		44		80
If 1/2 of lot is veneer		55		
Oak Veneer	Low	26		80
	Medium	33		100
	High	40		120

Cheshire County ¹

Species ²	Quality	Stumpage	Roadside	Delivered
White Pine ³	Low to Medium	\$ 8-15	\$24-35	\$32-45
	Medium to High	15-20	35-42	45-50
Hemlock ³	Low to Medium	8-15	26-35	36-45
	Medium to High	15-18	35-40	45-50
Spruce	Low to Medium	8-15	32-35	40-45
	Medium to High	15-18	35-40	45
Red Oak ^{4, 5}	Low to Medium	8-14	28-40	35-45
	Medium to High	14-25	40-55	45-70
Yellow (Silver) ⁵	Low to Medium	10-15	30-35	45-50
Birch	Medium to High	15-25	35-40	50-60
Paper (White) ^{5, 6}	Low to Medium	10-15	30-35	40-45
Birch	Medium to High	15-25	35-40	45-60
Sugar (Rock) ⁵	Low to Medium	10-15	30-35	45-50
Maple	Medium to High	15-25	35-40	50-60
Red (Soft)	Low to Medium	8-15	28-35	35-45
Maple	Medium to High	15-20	35-40	45-50
Beech ⁷	Medium to High	8-15		35-45
White Ash ⁴	Low to Medium	(Not purchased		40-45
	Medium to High	separately ex- cept as logs)		45-100

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

² Since timber being sold usually includes several species, prices in any one sale are often the same for all species, especially in the case of standing timber.

³ Generally in poor demand as of December, 1964.

⁴ Special markets in Southeastern Vermont.

⁵ Much higher prices paid for veneer logs in Northern New Hampshire and Vermont.

⁶ Special markets in Cheshire County.

⁷ No actual prices were obtained as prices fluctuate with demand.

Coos County
(Does not include pulpwood prices)

Species	Quality	Stumpage	Roadside	Delivered
SAWLOGS				
White Pine	Low	\$12		\$45
	Medium	17		50
	High	20		60
White Spruce	Low	12		45
	Medium	17		50
	High	20		55
Red Spruce	Low	12		45
	Medium	17		50
	High	20		55
Hemlock	Low	10		40-
	Medium	12		40-
	High	15		40-
Hard Maple	Low	15		50
	Medium			65
	High	20		75
Soft Maple	Low	6		
	Medium	10		
	High	15		
White Birch	Low	15		
	Medium	22		50
	High	30		
Yellow Birch	Low	10		
	Medium	20		90
	High	30		125
Beech	Low	5		
	Medium	10		45
	High	15		
Ash	Low	10		65
	Medium	14		
	High	18	85	85
VENEER				
Hard Maple	Veneer	10-25		110
Yellow Birch	Veneer	15-50		110-285
Soft Maple	Veneer	5-12		55-70
Ash (White and Brown)	Veneer	5-12		70
	Veneer	5-12		70
Poplar	Veneer	5-12		55-70
Beech	Veneer	5-12		
White Birch	Veneer	15-50		110-285
Red Oak	Veneer	15-30		120
Elm	Veneer	5-15		75
Basswood	Veneer	5-12		70

Grafton County

Species	Quality	Stumpage	Roadside*	Delivered
White Pine	Low	No market		
	Medium	\$10-20	\$34-38	\$40-45
	High	15-25	38-45	43-55
Hemlock		8-16	28-35	34-43

* Note -- Limited number of firms buying roadside—prefer to buy delivered to mill.

Grafton County (Continued)

Species	Quality	Stumpage	Roadside	Delivered
Spruce		10-20	30-38	40-50
Yellow Birch	Sawlog	12-20	35-40	40-90
	Veneer	25+	45+	80-300
Sugar or Hard Maple	Sawlog	12-25	35-43	40-90
	Veneer	18+	45+	65-135
White Birch	Sawlog	12-22	35-42	40-100
	Veneer	18+	45+	90-235
Soft (Red) Maple	Sawlog	(limited market)	35	50
Red Oak	Sawlog	10-15	30-40	40-55
	Veneer	20+		60-120
Beech	Sawlog	8-15	30-40	35-50
	Veneer	15+		50-85
White Ash		10+		65-90
Basswood	Sawlog	10-15	30-40	40-45
	Veneer	20+		60-120

Hillsboro County

Species	Quality	Stumpage	Roadside	Delivered
White Pine	Low	\$ 9	\$28	\$30
	Medium	15	33	38
	High	25	38	45
Hemlock	Low	8	25	30
	Medium	14	30	35
	High	17	34	40
Red Oak and White Birch	Low	6	25	30
	Medium	15	35	40
Other Hardwoods	High	18	40	45
	Low	5	25	31
	Medium	12	30	37
	High	17	35	42

Merrimack County

Species	Quality	Stumpage	Roadside	Delivered
White Pine	Low	\$10-12	\$28-30	\$35-38
	Medium	12-14	30-35	38-42
	High	15	33-38	42-45
Hemlock	Low	10-12	28-30	35-38
	Medium	12-14	30-35	38-40
White Birch	Bolt (cord)	5-10	15-20	32
	Log	15-20	35-45	64
Red Oak	Average	12-15	35-38	40-45
	High	15-20	40-42	50
Soft Maple	Average	8-10	30	38
Beech	Average	8-10	30	38

Rockingham County

Species	Quality	Stumpage	Roadside	Delivered
White Pine	Low	\$ 8-11	\$21-28	\$28-36
	Medium	12-15	28-32	36-40
	High	16-20	32-36	41-46
Hemlock	Medium	8-13	24-28	29-33
	High	14-16	28-32	33-37
Oak	Low	12-18		
	High	20-40 (Keel stock)		
Birch	High	20-40		
Maple	Medium	12-16		
White Oak	Keel Stock	20-40		

Strafford County

Species	Quality	Stumpage	Roadside	Delivered
White Pine	Low	\$10-12	\$28-32	\$32-36
	Medium	12-16	32-38	38-40
	High	18-30	38-45	40-50
Hemlock and Spruce	Low	10	28	35
	Medium	12	32	38
	High	18	35	40
Yellow Birch ¹				
White Birch ¹				
Sugar Maple ¹				
Soft Maple	Low	8		
Red Oak ¹	Medium	12	32	38
White Oak	High	18	34	40
Beech			36	42
White Ash ¹				
Basswood ¹				

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

Sullivan County

Species	Quality	Stumpage	Roadside	Delivered
White Pine	Low	\$ 8-10	\$30	\$35
	Medium	10-15	32-35	40-45
	High	15-20	35-40	45-48
Hemlock	Medium	8-12	30-35	38-40
	High	14-18	35-38	40-48
Spruce	Medium	12-15	32-38	40-45
	High	15-18	38-40	45-50
Yellow Birch	Medium	10-15	36-38	45-50
	High	15-30	38-42	50-60
White Birch	Medium	10-15	35-40	40-50
	High	15-20	40-42	50-60
Sugar Maple	Medium	12-15	35-40	45-50
	High	15-30	40-42	50-60
Red Oak	Medium	10-14	34-40	42-50
	High	14-25	40-45	50-60

Table II. Prices of Pulpwood Per Cord¹ — Northern New Hampshire

Species	Stumpage	Roadside	Delivered at Mill ¹ Cord	C.W.T.
Spruce and Fir				
Peeled		\$19.00-	\$23.50-29.00	
Rough	\$3.00-6.00	14.00-16.00	18.00-24.00	
Pines				
Peeled			19.00-22.00	
Rough	.50-2.00		15.00-17.00	
			Zone - 0-20 mi. 15.00	
			Zone -21-40 mi. 16.00	
Hemlock				
Peeled		16.00-17.50	21.50-25.00	
Rough	1.00-3.00	10.00-12.00	15.00-20.00	
Tamarack				
Peeled		15.00-17.00	20.00-23.00	
Rough	1.00-3.00	10.00-12.00	15.00-19.00	
Hardwood²				
Peeled		12.00-14.00	20.00-24.00	
Rough	.25-1.50	8.00-10.00	14.00-19.00	
			Zone - 0-20 mi. 15.26	\$.27
			Zone -21-40 mi. 16.10	.28
			Zone -41 + mi. 16.38	.29
Poplar				
Peeled			17.00-20.00	
Rough	.50-1.50	8.00-14.00	12.00-	

¹ One mill is buying hardwood by weight and greenwood, 5600 pounds equals one cord.

² One mill pays a straight price from all zones.

Prices of Pulpwood Per Cord — Southern New Hampshire

Species	Stumpage	Roadside	Delivered at Mill
Hardwood			
Rough	\$1.00-2.00	\$10.00-12.00	
Peeled		15.00-18.00	\$23.25-26.75 ¹

¹ Price varies depending on distance from mill.

Table III. Debarked Slabs and Edgings Per Green Ton Strapped

	Picked up at Mill	Delivered to Chipping Plant
Softwood	\$1.00-2.00	\$4.50-5.00
Hardwood	1.00-2.00	4.00-4.50
Pulp chips, screened and meeting bark contents specifications \$20.00-26.00 per cord.		

Table IV. Price Range of Excelsior Wood, Boltwood, Poles, Construction Poles, Piling, and Posts¹ and Railroad Cross Ties

Species	Stumpage	Roadside	Delivered at Mill
	Excelsior Wood Per Cord		
Poplar (Peeled) Species	\$1.00-3.00	\$17.00	\$20.00-28.00
	Stumpage	Roadside	Delivered at Mill
White Birch	\$8.00-14.00	Boltwood Per Cord ² \$19.00-27.00	\$30.00-36.00 per cord
Beech	3.00-6.00		50.00-75.00 per Mbf.
Sugar Maple			20.00-30.00 per cord
Yellow Birch	8.00-12.00		45.00-50.00 per Mbf.
			20.00-32.00 per cord
			40.00-70.00 per Mbf.
			28.00-35.00 per cord

¹ Before cutting any posts and poles or piling, woodland owners should inquire of buyers concerning current specifications and purchasing program.

² Price per bolt varies according to diameter and length of bolt. Some mills prefer to buy by the Mbf.

Poles¹

Species	Stumpage		Roadside Per Mbf.
Red (Norway) Pine	\$15.00-25.00	25' and 30'	\$40.00
	.10- .55	35' 40' 45'	
	(per linear foot)	and 50'	50.00
Specifications:			
Lengths	Top Size Diameter		Butt Size Diameter
25' and 30'	6" to 9"		9" to 14"
35' and 40'	7" to 9"		12 1/2" to 16"
45' and 50'	6" to 9"		16 1/2" to 20"

Poles must be cut from sound live trees free from short crooks, rot and excessive sweep. All limbs to be trimmed close to the body of the stick. Tops and butts to be cut square. All sticks to be cut 6" over their specified lengths. All diameters are under bark.

¹ Before cutting any posts and poles or piling, woodland owners should inquire of buyers concerning current specifications and purchasing program.

Construction Poles¹

Species	Top Diameter	Roadside (per linear foot)	Delivered at Mill
Red (Norway) Pine	5 1/2"	\$.05	\$1.55-3.00
	6 1/2"	.06	(Per pole)
Lengths:	12', 14', 16', 18', 20', 22'		

Construction poles must be cut from solid live trees free from short crooks, rot and excessive sweep. All limbs to be trimmed close to the body of the stick. Tops and butts to be cut square. All diameters are inside the bark.

¹ Before cutting any posts, and poles or piling, woodland owners should inquire of buyers concerning current specifications and purchasing program.

Piling¹

Species	Stumpage		Roadside
Spruce	Per Mbf.	\$20.00-60.00	\$40.00-50.00 per Mbf. .20- .30 per Linear Foot
Red (Norway) Pine	Per Linear Foot	.08- .20	
Hardwood			
Specifications:			
Length:	20' and up	Diameter 3' from the Butt:	12" on Piling — 20' to 50' Long
Top Diameter:	8" on Piling — 20' to 39' lengths 7" on Piling — 40' and up		13" on Piling — 51' and longer

¹ Before cutting any posts and poles or piling, woodland owners should inquire of buyers concerning current specifications and purchasing program.

Posts¹

Species	Stumpage	Roadside	Delivered at Mill Per Post)
Red (Norway) Pine and Pitch Pine (Per post)	\$.10- .15	\$.90	
Lengths:	3½"-4½"x7' 4½"-6½"x8'	.20 .30	
Specifications:			
Lengths:	7' most in demand		
Top Diameter	6½"-8½" 8½"-10½"	.90	\$.70 1.35

¹ Before cutting any posts and poles or piling, woodland owners should inquire of buyers concerning current specifications and purchasing program.

Railroad Cross Ties¹

Grades	Prices Paid Roadside	
	Oak	Other Hardwoods ²
No. 1 (6"x6"x8'6")	\$1.20	\$1.10
No. 2 (6"x7"x8'6")	1.70	1.55
No. 3 (6"x8"x8'6")	1.90	1.75
No. 4 (7"x8"x8'6")	2.20	2.10
No. 5 (7"x9"x8'6")	2.40	2.30

¹ Slightly higher prices are paid at locations on Maine Central sidings or at the Koppers Plant in Nashua, N. H.

² Beech, Birch, Maple, Cherry.

Table V. Price Range of Fuelwood Per Cord

Species	Stumpage	Roadside	Delivered Buyers Premises
Hardwood			
4' wood ¹	\$.50-3.00	\$10.00-15.00	\$18.00-25.00
12", 14", 16" lengths		15.00-20.00	16.00-30.00
Slabs		5.00- 8.00	16.00-20.00
Fireplace white birch will be slightly higher than above when bought in bundles.			
Prices range up to \$60.00+ per cord.			
Softwood Slabwood²			
4' lengths		1.00- 2.00	4.00-11.00
16" and shorter dry		1.00- 6.00	8.00-18.00
Hardwood Slabwood at Mill²			
12", 14", 16" lengths		5.00-10.00	10.00
	Sawdust at Sawmill	Per Cord	Per Bale
	Dry	Green	
Sawdust	\$2.00-5.12	\$2.00-4.00	
	.02c per cubic foot	.04c per cubic foot	
Shavings	2.00-5.00	1.00-3.00	.70- 1.00
	.02c per cubic foot		

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.

² Sometimes given away if taken green at sawmill pit.

Table VI. Price Range of Christmas Trees and Boughs ¹

	Stumpage		Roadside	
	Single	Bundle (2 or more)	Single	Bundle
Pasture Run				
Balsam Fir	\$.35- .65	\$.75-1.25	\$.75-1.50	\$2.50-4.00
Spruce	.25- .50	.50-1.00	.50-1.00	1.25-3.00
Improved Trees				
Balsam Fir	.75-1.25	2.50-4.00	1.00-2.75	3.00-4.50
Spruce	.50- .75	2.00	.50-1.25	2.75-3.00
Plantation Grown				
Trees ²	1.00-3.50 or .50c per linear foot.			
Boughs	Per Bundle Roadside		Per Ton Roadside	
Balsam Fir	.50-1.75		\$40.00-75.00	
Spruce	.50-1.00		60.00-64.00	

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

² Applies to Southern New Hampshire for buyer selected trees.

Table VII. Operating Costs (Contract Prices)

	Felling and Buckling Per Mbf.	Yarding Per Mbf.	Trucking ¹ & ² Per Mbf.
Logs			
Softwood	\$6.00-13.00	\$6.00-15.00	\$5.00-13.00
Hardwood	7.00-13.00	7.00-18.00	6.00-20.00
Pulpwood			
Softwood	4.50- 8.00	2.00- 6.00	3.00-10.00
Hardwood	4.00- 9.00	2.50- 7.00	4.00-11.00
Fuelwood	6.00- 9.00	3.00- 6.00	
Stump to Stick:	\$35.00-65.00	square edge softwood lumber per Mbf.	
		30.00-40.00 round edge softwood lumber per Mbf.	
		51.00-75.00 square edge hardwood lumber 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:	13.00-30.00	per Mbf for softwoods or \$15. per hour.	
		2.00- 5.00 more per Mbf for hardwoods.	
Planing:	8.00-15.00	per Mbf. \$6.00-16.00 per hour.	
Portable Planner	10.00	per Mbf. one face	
	15.00	per Mbf two faces	
Horse Rental:	4.00	per day including board, or \$1.00-2.00 per cord.	
Chain Saw Rental:	.75- 1.50	per cord.	
	.50- 2.00	per hour.	
Twitching stump to roadside: (including cuttings)	6.00- 9.00	per cord, horse furnished.	
Man with Chain Saw:	2.50- 5.00	per hour.	
Trucking Costs: 1 & 2	There are no established I.C.C. rates for trucking saw-logs or pulpwood. Rates are determined between the trucker and the person or company wanting logs hauled.		

¹ Intra-state and inter-state truck rates are sometimes used.

² Costs average 25c per mile after loading.

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	\$160	1x3 \$120	1x3 \$ 80
1x4	160	1x4 140	1x4 95
1x5	160	1x5 140	1x5 95
1x6	200	1x6 145	1x6 100
1x7	200	1x7 145	1x7 100
1x8	210	1x8 145	1x8 100
1x9	210	1x9 145	1x9 100
1x10	220	1x10 145	1x10 100
1x11	220	1x11 145	1x11 100
1x12	250	1x12 165	1x12 115
1x13	250	1x13 155	1x13 110
5/4 to 8/4 — No. 2 & No. 3 & D Select		Add \$5 per M	

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

**Table VIII. Wholesale Rough Air Dried Price
for Graded Eastern White Pine (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'
1x4 & 1x5	\$58-60	2x3 & 2x4	\$35	70	70	70	70	70
1x6 & 1x7	67	2x6 & 2x8	35	70	70	70	70	73
1x8 & up	70	2x10	35	70	70	70	73	73
Spruce — add \$5 per Mbf.								

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

Grades	Eastern White Pine			
	D Select & Better (Clear)	No. 1 & No. 2 Com.	No. 3 Com.	No. 4 Com.
1x4	\$180	\$140	\$100	\$70 Retail Prices
1x6	220	165	120	78 \$35-50
1x10	240	165	120	85 more than
1x12	270	185	135	85 wholesale

2x4, No. 4 white pine — \$65.00 - 80.00 depending on quantity.
 Single Clapboard siding — 1x5 only — add \$4 per M
 Double Clapboard siding — 1x8 — No. 3c — add \$4 per M — No. 4c — add \$7 per M
 V Joint, Knotty Pine, No. 2 & No. 3 — add \$4 per M
 Pickwick Pattern — A grade \$160.
 No. 3 Knotty Pine — \$135.

Boards	Eastern Hemlock							
			Dimensions					
			6'	8'	10'	12'	14'	16'
1x2 & 1x3	\$80	2x3	\$50	85	85	85	85	85
1x4	73	2x4	50	85	85	85	85	85
1x5	75	2x6	50	85	85	85	85	88
1x6 & 1x7	82	2x8	50	85	85	85	85	88
1x8 & up	85	2x10	50	85	85	85	88	88
Spruce — Add \$5 M								

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, plupwood, bolts, excelsior wood, piling, posts, and other forest products. Many buyers and operators will give a preference to owners in the purchase 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 recommendations 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 of Resource Development, Concord, New Hampshire.

Belknap County

Town & Operator	Type of Sawmill	Kind of Logs	Stump.	Road.	Del.	Cus.
Belmont						
Contigiani Lumber Co. LaPlante, Albert L. Tilton, N. H.	B & L	SW & HW	X	X	X	X
Hueber Lumber Co. RFD 1, Laconia	S	SW & HW	X	X	X	X
White, R. C. RFD 1, Laconia	L	SW & HW	X			
Gilmanton						
Clairmont, Jos. Gilmanton Corner	S & L	SW & HW	X	X	X	X
Dawson, Robert RFD, Gilmanton	S & L	SW & HW	X	X	X	X
Potter, Robert	S & L	SW & HW	X	X	X	X

Belknap County (Continued)

Town & Operator	Type of Sawmill	Kind of Logs	Stump. Road.	Del.	Cus.
Partridge, George RFD Gilmanton Iron Works	L	SW & HW	X		
Gilford					
Gardner, Walter Governors Island RFD, Laconia	B & L	SW & HW Veneer	X		
Laconia					
Allen — Rogers Corp. Water St., Laconia	B	HW- Boltwood	X		X
Banfill, Ernest 500 Union Avenue Laconia	B & L	SW & HW	X		
Laconia Milling Co. Box 114, Blaisdell Ave. Laconia	S	SW & HW	X	X	X X
Page, Otto 260 Court Street Laconia	B & L	SW & HW	X		
Philbrook, Walter 17A Clinton Street Lakeport	B	SW & HW	X		
Meredith					
Sharon, Edward Plymouth Rd., Meredith	B & L	SW & HW Veneer	X	X	
Tilton					
Daniels, Thomas RFD, Tilton	S & L	SW	X	X	X X
Carroll County					
Bartlett					
Kearsarge Peg Co.	S	Birch Bolts			X
Morton, Al Glen	B & L	SW & HW	X		
Conway					
Conway Supply Co., Inc.	S	SW & HW	X	X	X X
Morrill, Brewster North Conway	B & L	SW & HW	X		

Carroll County (Continued)

Town & Operator	Type of Sawmill	Kind of Logs	Stump.	Road.	Del.	Cus.
North Conway Lumber Co. North Conway	S	SW	X		X	X
Valladores & Leavitt	B & L	SW & HW	X			
Jackson						
Dundee Mgmt. Corp. Box 1	B & L	SW & HW	X			
Kelley, Harold W. Glen Road	B & L	SW & HW	X			
Ossipee						
Portland Dowell Co. Center Ossipee	S	HW- Bolts			X	
North Sandwich						
Elliot, Sidney	B & L	HW	X			
Sandwich						
Bellingham Lumber Co. Norcross, Elmer, Mngr.	S	SW & HW	X	X	X	X
Tamworth						
Hammond, Roy	B & L	SW & HW	X			
Thomas, Bruce Plymouth, N. H.	S	SW & HW	X	X	X	
Saunders Brothers E. A. Perkins, Buyer, Box 43, S. Tamworth	B & L	HW	X	X	X	
Tuftonboro						
Tupeck, Henry S. Center Tuftonboro	B & L	SW & HW	X			
Cheshire County						
Alstead						
La Frank, Charles J.	S	SW & HW	X		X	
Chesterfield						
Stone, D. S. Lumber Co. Route 1, Keene	S	SW & HW	X	X	X	X
Welcome, Paul E.	S	SW & HW	X		X	X
Fitzwilliam						
Tommila Bros.	S	SW & HW	X			

Cheshire County (Continued)

Town & Operator	Type of Sawmill	Kind of Logs	Stump. Road.	Del.	Cus.
<u>Gilsum</u>					
Lackey, Frank RFD, Keene	B & L	SW & HW	X		
<u>Keene</u>					
Rivers, Paul E. 334 Elm St., Keene	B & L	SW & HW	X		
Bardwell, Walter L. Lower Winchester Road Keene	P	SW & HW	X		
<u>Marlboro</u>					
Beauregard, Chas. & Sons, Inc. P. O. Box 395	S	SW & HW	X	X	X
Cummings, F. T., Inc. Box 185, Troy	S	SW & HW	X	X	X
<u>Richmond</u>					
Lane, C. L. Company Richmond	S	SW	X	X	
<u>Stoddard</u>					
Batchelder, Earl Peru, Vermont	P	HW	X	X	
<u>Troy</u>					
Jonas Damon Estate State Line	S	SW & HW	X	X	X
Starkey, Eugene	P	SW & HW	X		
<u>Walpole</u>					
Kingsbury, Albert	S	SW & HW	X		X
<u>Swanzy</u>					
Frazier Furniture Co. West Swanzy	S	HW		X	X
Savard, Winfred	B & L	SW & HW	X		
<u>Winchester</u>					
New England Lbr. Co. Box 124	S	SW & HW	X	X	
Prouty, Leonard Old Chesterfield Rd.	B & L	SW & HW	X		

Coos County

Town & Operator	Type of Sawmill	Kind of Logs	Stump. Road.	Del.	Cus.
<u>Berlin</u>					
White Mt. Lbr. Co., Inc. Arthur Napert, Buyer Box 392	S	SW		X	
Boucher, George E. Milan Rd.	S	HW		X	
<u>Colebrook</u>					
Weir, Harlie	B	HW		X	
<u>Columbia</u>					
Parkhurst, Lynn & Sons RFD No. 1, Colebrook	S	SW & HW		X	X
<u>Dalton</u>					
Saunders Bros. Clifford Wentwork, Buyer RFD, Whitefield	S	HW	X	X	X
<u>Errol</u>					
Lemere, George	S	HW		X	
<u>Groveton</u>					
Crawford, Wilson	S	HW	X	X	
C. B. Cummings & Son Co.	S	HW		X	
<u>Lancaster</u>					
Alden, Clayton M. RFD No. 1	S	SW & HW	X	X	X
Alden, Harold B. RFD No. 1	S	SW	X	X	X
Placey, George RFD No. 1	S	SW		X	X
<u>North Stratford</u>					
Plywood Products, Div. of Brown Company	S	HW	X	X	X
Washburn Lumber Co. Harold Rich, Supt. Reuben Washburn, Buyer	S	SW & HW	X	X	X
<u>Pittsburg</u>					
Leo Brooks & Son Indian Stream Sawmill	S	SW			X

Coos County (Continued)

Town & Operator	Type of Sawmill	Kind of Logs	Stump.	Road.	Del.	Cus.
Shelburne						
Main Spruce Mfg.	S	SW			X	
Whitefield						
Savage, Roswell	S	SW			X	X
Grafton County						
Alexandria						
Robie, Ernest S. RFD	P	SW & HW	X		X	X
Ashland						
Gallup Lumber Co. c/o B. Avery, Mgr. Ashland	S	SW	X	X	X	X
Benton						
Page Hill Farms Pike, N. H.	S	SW			X	X
Bristol						
Williams, R. P. & Son	S	SW & HW	X	X	X	
Campton						
Draper Corp. Beebe River	S	SW & HW	X	X	X	
Mardin, Robert RFD, Plymouth	S	SW & HW	X	X	X	X
Canaan						
Morris Lumber Co.	S	SW & HW	X	X	X	X
Enfield						
Cobb, Willis, P. O. Box 128	B	SW & HW	X			
Grafton						
Brale, Maurice F.	S	SW & HW	X	X	X	
Hanover						
Lacoss, Niles P. O. Etna	S	SW	X	X	X	X
Haverhill						
Heberbrand, Arthur D. (N. Haverhill)	S	SW & HW		X	X	X

Grafton County (Continued)

Town & Operator	Type of Sawmill	Kind of Logs	Stump.	Road.	Del.	Cus.
Moosilauke Lbr. & Bobbin Co. (Pike)	S	HW	X	X	X	
Newman Lbr. Co. & Transit Milling Co. Woodsville	S	SW	X	X	X	
Northeast Hardwoods, Inc. N. Haverhill	S	HW	X	X	X	
Landaff						
Davis, Jack RFD, Lisbon	S	SW & HW	X	X	X	X
Lebanon						
Laro, Leonard	S	SW & HW	X	X	X	X
Goodwin, Edmond RFD, W. Lebanon	B	SW & HW	X			
Lisbon						
Varney, Robert RFD 2, Littleton	S	SW & HW	X	X	X	X
Littleton						
Poulsen Lumber Co.	S	SW & HW	X	X	X	
Schoff, Arthur	S	SW & HW	X	X	X	
Timber Products Laurence Bean	S	HW			X	
Lyme						
Wagner Woodlands	B	SW & HW	X			
Monroe						
Knights Lumber Co. Barnet, Vermont	S	SW	X	X	X	X
Orange						
Hammond, F. C. & Sons	S	SW & HW	X	X	X	
Plymouth						
Berg & Ireland Lbr., Co.	S	SW & HW	X	X	X	X
United Shank & Finding Division	S	HW	X	X	X	
Rumney						
Forest Lands, Inc. c/o Roger A. Sanborn, Buyer RFD, Rumney	B	SW & HW	X			

Grafton County (Continued)

Town & Operator	Type of Sawmill	Kind of Logs	Stump.	Road.	Del.	Cus.
Keniston, Raymond	S	SW & HW	X	X	X	
Sanborn, Richard	S	SW	X	X	X	
Tarr, Bert	S	HW	X	X	X	X
<u>Thornton</u>						
Benton, Bert RFD, Campton	S	SW				X
<u>Warren</u>						
Whitcher, Kenneth	S	SW & HW	X	X	X	X
<u>Wentworth</u>						
Forest Products, Inc., or Herm Ball	S	HW	X	X	X	
Hillsboro County						
<u>Antrim</u>						
Brown, P. K. & Sons Corp. Claremont, N. H. Durgin, Operator	S	SW & HW	X	X	X	
<u>Amherst</u>						
Converse & Peaslee RFD, Milford	S	SW & HW				X
Phinney, Ernest	S	SW & HW	X	X	X	
<u>Bennington</u>						
Durgin, John D.	P	SW & HW				X
Low, Forest	P	SW				X
<u>Brookline</u>						
Tapply, William Lunenburg, Mass.	S	SW & HW	X	X	X	
<u>Goffstown</u>						
Upton, Gerald	S	SW & HW	X	X	X	
Herbert, Lucien 29 College Rd. Manchester	S	SW & HW	X			
<u>Hancock</u>						
Pierce, W. H. & Son	B	SW				X
Upton, Karl G.	B	SW & HW	X			

Hillsboro County (Continued)

Town & Operator	Type of Sawmill	Kind of Logs	Stump. Road.	Del.	Cus.
Hillsboro					
Durgin, Ernest	P	SW & HW	X		
LaBonte, Antonio	B	SW & HW	X		
Livingston, Sidney	P	SW & HW	X		
Hollis					
Glover, Milton RFD No. 2, Milford	S	SW	X		X
Stateline Lbr. Co. Box 35, Nashua	S	SW & HW	X	X	X
Litchfield					
Yanis, Stanley 102 Hollis St., Nashua	P	SW	X		
Lyndeboro					
Ballou, C. Co. Douglas St., Uxbridge, Mass.	S	SW	X	X	X
Manchester					
Bailey, Arthur D. 48 N. Adams St.	B	SW	X		
West Side Lbr. Co. 168 S. Main St.	S	SW	X		X
Merrimack					
Heath, A. C. S. Merrimack	B	SW & HW			
Milford					
Wilkins & Son RFD, Milford	S	SW	X	X	X
Lorden Lbr. Co.	S	SW & HW	X	X	X
Matson, Theodore	P	SW & HW	X	X	
White Pine Wooden Ware Co. Box 107, Milford	S	SW	X	X	X
New Ipswich					
Kurth, Walter	S	SW	X		X
Saari, George	S	SW			X

Hillsboro County (Continued)

Town & Operator	Type of Sawmill	Kind of Logs	Stump.	Road.	Del.	Cus.
<u>Pelham</u>						
Pelham Lbr. Co. (Fred S. Tinkham)	S	SW	X	X	X	
<u>Weare</u>						
Colburn, Robert RFD No. 1, Weare	S	SW	X			
Merrimack County						
<u>Andover</u>						
Dalphond Bros., Inc. RFD No. 1	S	SW & HW	X		X	X
<u>Boscawen</u>						
Colby Lumber Co. River Rd., Penacook	S	SW & HW	X	X	X	
Durant, Herbert B. 164 N. Main St. Penacook	S	SW & HW		X	X	X
Merrimack Mfg. Co.	B	SW	X	X	X	
<u>Bradford</u>						
Heselton, Walter A. & Son	S	SW & HW	X			
Westerberg, Edwin E. Company, Inc.	S	SW	X		X	
<u>Canterbury</u>						
Greenwood, George RFD 6, Concord	S					X
<u>Concord</u>						
Concord Lumber Co. Commercial Street	S	SW	X	X		
N. H. Forest Development Associates, Inc. 40 Merrimack Street	B	SW	X			
<u>Franklin</u>						
Buswell, Guy A. W. Franklin	S	SW & HW	X	X	X	X
<u>Henniker</u>						
Patenaude, Barry Rush Road	S	SW & HW	X	X	X	

Merrimack County (Continued)

Town & Operator	Type of Sawmill	Kind of Logs	Stump. Road.	Del.	Cus.
Metopoles, Peter Bradford Road	S	SW & HW	X		
<u>Hopkinton</u>					
Astles Lumber Co. Contoocook	S	SW	X	X	X
<u>Loudon</u>					
Moore & Page Lbr. Co. RFD 8, Concord	S	SW & HW	X	X	X
Sanborn, Albin J. RFD 2, Pittsfield	S	SW	X		X
<u>Pittsfield</u>					
Catamount Lbr. Co.	S	SW	X		X
Pittsfield Box and Lumber Company	P	SW	X		
Barton Brothers	P	SW	X		
<u>Warner</u>					
Hill Box Co., Inc.	B	SW	X		
Nichols, L. Earl	S	SW	X	X	
Sawyer, Clifford A.	B	SW & HW	X		
<u>Webster</u>					
Jones, Paul S. RFD, Contoocook	S	SW & HW	X	X	X
Roby, Robert H. RFD 5, Penacook	B	SW	X		
<u>Wilmot</u>					
Patten, Henry L.	S	SW & HW	X	X	
N. H. Woodlands P. O. Box 65 Wilmot	B	SW & HW	X		
 Rockingham County					
<u>Atkinson</u>					
Feuer, Martin M. Main Street	S	SW	X		X

Rockingham County (Continued)

Town & Operator	Type of Sawmill	Kind of Logs	Stump.	Road.	Del.	Cus.
<u>Auburn</u>						
Royer, Arthur J. & Son Box 68	S	SW & HW	X	X		X
<u>Brentwood</u>						
Lyford, Lawrence RFD, Exeter	L & B	SW	X	X		
<u>Candia</u>						
Brown, Alfred E. RFD No. 1, Manchester	S	None				X
Perkins, Arthur E.	P	SW	X			
<u>Deerfield</u>						
Plant Bros. South Deerfield	P	SW	X			
<u>Derry</u>						
Kimball Lumber Co. P. O. Box 24	S & P	SW & HW	X	X	X	
True & Noyes East Derry	P	SW & HW	X			
<u>East Kingston</u>						
Sargent, Richard E. Bear Hill Road Merrimack, Mass.	S	SW & HW	X		X	
<u>Epping</u>						
Johnson Lumber Co. 875 Elm Street Manchester	P & S	SW	X	X		
<u>Fremont</u>						
Fremont Lumber Sales Box 43	S	SW & HW	X	X	X	
Spaulding & Frost Co. Richard Wiggin, Mgr.	S	SW	X	X	X	
<u>Hampstead</u>						
Collette, Alfred	S	SW	X	X	X	X
<u>Kensington</u>						
Brown, Everett East Kingston, RFD	L & B	SW & HW	X	X		

Rockingham County (Continued)

Town & Operator	Type of Sawmill	Kind of Logs	Stump.	Road.	Del.	Cus.
Cole, George East Kingston, RFD	S	SW	X	X	X	X
Kingston						
Cheney, R. W. & Son East Kingston, RFD	S	SW & HW	X	X	X	
Londonderry						
Mathes, Roger V. RFD No. 1, Hudson	B	SW	X			
Chase, Calum C., Sr. 105 Hillside Avenue Derry	S	SW & HW	X			X
Nottingham						
Fernald, Fred	P	SW & HW	X			
Raymond						
Campbell, Avery	S & P	SW & HW	X	X	X	X
Rye						
Rand Lumber Co. 511 Wallis Road	S	SW & HW	X	X	X	X
South Hampton						
Brown, Harold 71 Market Street Amesbury, Mass.	S	SW	X	X	X	
Strafford County						
Barrington						
Clark, Melvin East Barrington	B	SW	X			
Green, George East Barrington	P	SW	X			X
Dover						
Jaques, Leigh F. Bay View Road, Dover	B	SW	X			
Durham						
Johnson, Phillip Durham Pt. Road	S	SW				X
Woodward, William	S	SW				X

Strafford County (Continued)

Town & Operator	Type of Sawmill	Kind of Logs	Stump.	Road.	Del.	Cus.
<u>Farmington</u>						
Mooney, G. F. & Sons, Inc. Littlefield Box Shop	B S Bolts	HW SW & HW	X	X	X	
Russell, Lee	B	HW	X			
<u>Lee</u>						
Jaques, George & Co. Kennard, Oliver	S S	SW	X			X
<u>Middleton</u>						
Diprizio, Charles & Sons Inc. (Middleton) RFD No. 1 Union	S	SW & HW	X	X	X	X
LaPierre, Ulderic	B	SW & HW	X			
<u>Milton</u>						
Tibbetts Lbr. Co. Farmington	S	SW	X	X	X	X
<u>New Durham</u>						
Bay Lbr. Co. New Durham	S	SW & HW	X	X	X	X
<u>Rochester</u>						
Collins, Raymond 16 First Street	P	SW & HW	X	X	X	X
Leroy E. Allen Co. 151 Wakefield	P	SW	X			
Sullivan County						
<u>Claremont</u>						
Davis & Symonds Lbr. Co. Box 56	S	SW & HW	X		X	
Rock Lumber Company Box 37 Cornish Flat	S	SW & HW	X	X	X	X
<u>Grantham</u>						
Cote & Roney Lbr. Co.	S	SW & HW	X	X	X	X
<u>Langdon</u>						
Porter, George RFD, Alstead	S	SW & HW			X	

Sullivan County (Continued)

Town & Operator	Type of Sawmill	Kind of Logs	Stump.	Road.	Del.	Cus.
<u>Newport</u>						
Bailey, Howard D. RFD No. 1 Bradford Rd.	S					X
Hackwell Lbr. Co., Inc.	S	SW & HW	X	X	X	
Rowe Lumber Co. Box 383	S	SW & HW	X		X	
<u>Plainfield</u>						
Demers, Warren	P					X
<u>Sunapee</u>						
Trow, W. W. & Sons	S	SW & HW			X	X
<u>Unity</u>						
Newton, P. A. & Sons RFD No. 2, Newport	S	SW	X			

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

	Kind of Logs	Stump.	Road.	Del.	Cus.
MAINE					
Andover Wood Products, Inc., Andover, Tel. 34	Y. Birch H. Maple			X	
Cummings, C. B. & Sons, c/o Norman H. Gray, Fryeburg	HW (Birch)	X	X	X	
Currier, Owen G., East Fryeburg	SW & HW	X			
Diamond Nat'l Corp., Fryeburg McGowan, Neil W., Forester	S	X		X	
Gerry, E. C., Lovell	SW	X	X	X	
Hammond, Thomas & Son, E. Hiram	SW	X		X	
Hurd, Ira & George, E. Lebanon	SW & HW	X		X	X
Maine Woods Corporation, Steep Falls	HW			X	
Paris Mfg. Co., South Paris	HW			X	
Parsons Lumber Co., York	SW	X (over ½ Million bd. ft. lots)			
Saunders Bros., Westbrook	HW	X		X	
Sewell Lumber Co., Lebanon	SW	X			
Spang, Phillip, RFD, Kennebunk	SW & HW	X (pulpwood)			
MASSACHUSETTS					
Bartlett, Edmund, 240 Main Street, Salisbury	Oak & Birch		X		
Brown Package Co., Inc., Winchendon	W. Pine	X		X	
Estys, Ralph, Upstack Road, Georgetown	SW & HW	X	X	X	X
Gates, Lester H., 380 Liberty St., Haverhill	SW & HW	X	X	X	X
Haskell, C. M. & Sons, 400 Canal St., Bernardston	SW	X	X	X	
Johnson Lumber Co., 304 Main St., Salisbury	SW & HW	X	X	X	X
Kelleher, John C. Jr.	HW (cordwood)			X	
VERMONT					
Adams, Geo. F. Co., Inc., Moscow (Lester Adams, Buyer)	Birch			X	
Audett Mill, Walden	Spruce			X	

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

	Kind of Logs	Stump.	Road.	Del.	Cus.
Bradford Veneer & Panel Co., Bradford (B. E. Faar, Buyer)	HW (Veneer)	X	X	X	
Britton Lumber Co., Inc., Hartland	SW & HW	X	X	X	
Brown, P. K. & Sons, Corp., Claremont, N. H. (Mill in Proctorville, Vt.)	HW	X	X	X	
Carroll Snelling, E. Thetford	SW		X	X	
Cerosimo Lbr. Co., Inc., RFD No. 3, Brattleboro	SW & HW	X			
Clark, C. E. & Sons, c/o Francis Clark 29 Western Ave., Brattleboro	SW & HW	X	X	X	
Emerson & Hahn, Hardline Loggers, Bradford	SW & HW	X	X		
Green Mt. Box & Lbr. Co., White River Jct.	SW & HW	X	X	X	
Indian Head Plywood, Newport and Bethel	HW (Veneer)			X	
Malmquist-Wood Products Co., Post Mills	SW & HW			X	
Miles Pond Wood Products, Inc. Miles Pond	SW			X	
Morse, V. L. & Co., Inc., 16 Prospect Court, Brattleboro	HW	X			
Ryegate Paper Co., Ryegate	SW (Pulpwood)				
Sevigny Lbr. Co., North Thetford (Box 389, Lebanon, N. H.)	SW & HW	X	X	X	X
Smead Lumber Co., Vernon	SW & HW	X	X	X	X
True Temper Corp., Wallingford and St. Johnsbury	HW		X	X	
Weyerhaeuser Co., N. Troy & Hancock	HW (Veneer)		X	X	
Wood Brothers, Newbury	SW	X	X	X	

Portable Pulpwood Debarkers

Beauregard & Sons, Inc.	Marlboro, N. H.
Benjamin, Mariner	40 East Main St., Merrimack, Mass.
Bullis, Russell H.	Wolfeboro, N. H.
Flagg, Ira	Barre, Massachusetts
Hoyt, George, Jr.	New Boston
Jarosky, Chester	Windham, N. H.
Kimball Lumber Co.	Derry, N. H.
Lee, John E.	49 Logging Hill Rd., Concord, N. H.
Randall, Ralph T.	RFD No. 1, Newmarket, N. H.
Russell, Lee C.	Farmington, N. H.

Planning Mills (Custom)

Astles Lumber Co.	Contoocook, N. H.
Chase, Benjamin Co.	Derry, N. H.
Cheney, Roland & Son	Kingston, N. H.
Colby Bros.	Danville, N. H.
Cole, George	RFD, East Kingston, N. H.
Concord Lumber Co.	Commercial St., Concord, N. H.
Contigiani Lumber Co.	Belmont, N. H.
Currier, P. L. Lumber Co.	RFD, Milford, N. H.
Demers, Warren (Portable)	Plainfield, N. H.
Green Lumber Co.	1253 Hooksett Rd., Manchester, N. H.
Hueber Lumber Co.	Belmont, N. H.
Kimball Lumber Co.	P. O. Box 24, Derry, N. H.
Laconia Milling Co.	Laconia, N. H.
Littlefield Box Co.	Farmington, N. H.
Monroe Lumber Co.	Lee, N. H.
Rand Lumber Co.	511 Wallis Rd., Rye, N. H.
State Line Lumber Co.	Box 35, Nashua, N. H.
Transit Milling Co.	Woodsville, N. H.
Trow, W. W. & Sons	Sunapee, N. H.
William Woodward	Durham, N. H.

Shingle Mill Operators

Bailey, Howard D.	RFD 1, Bradford Rd., Newport, N. H.
Dodge, James	Sanbornton, N. H.
Johnson, Phillip	Durham Point, Durham, N. H.
Littlefield Box Shop	Farmington, N. H.

Wood Chipping Plants

Connecticut Valley Chipping Corp.	Woodsville, N. H.
Fremont Lumber Sales	Fremont, N. H.
Lakes Region Chipping Corp.	Ashland, N. H.
Ossipee Lumber Corp.	Center Ossipee, N. H.

Pulpwood Buyers

Company and Individual Buyers	Kinds of Wood Purchased
Beauregard, Charles & Sons, Inc., Marlboro, N. H.	Hardwood
Blair, Reginald E., RFD, West Street, Winchendon, Mass.	Hardwood (Peeled)
Brown Company, Berlin, N. H. Hamlin, Mark, Berlin, N. H. Mitchel, R. W., Berlin, N. H. Mountain, Claude, 15 — 2nd St., Cascade, N. H. Ellis, George, Gorham, N. H. Pitman, Harold, Conway, N. H. Monahan, Thomas, N. Stratford, N. H.	Spruce, fir, hemlock, tamarack, pine, beech, birch, maple, oak, elm, ash, vener, yellow birch, basswood, popular, and green hardwood.
Bullis, Russell H., Wolfeboro, N. H.	Hardwood
Franconia Paper Corp., Lincoln, N. H. Henry C. Waldo, Lincoln, N. H. Elwin Macomber, Mirror Lake Rd., W. Thornton, N. H. Glenn Stevens, Lincoln, N. H. Philip Comeau, Rumney, N. H.	Spruce and fir; limited amount of hem- lock, pine and peeled hardwood.
Groveton Paper Co., Groveton, N. H. Mountain, Harold, Groveton, N. H.	Spruce, fir, dry hemlock, and dry hard- wood.
International Paper Co. Ruch, Willard A., N. Stratford, N. H. Jarosky, Chester, Windham, N. H. Sawyer Rhodes, N. Stratford, N. H.	Spruce, fir (inquire direct) wood
Oxford Paper Co., Rumford, Me.; and Lawrence, Mass. Lincoln, A. F. Rumford, Me. Ashton, Richard, 158 School St., Concord, N. H.	Spruce, fir, hemlock, and northern hard- wood
Warren, S. D. Co., Westbrook, Me. True, Robert	Spruce, white pine, and hardwood
St. Regis Paper Co. Cowan, Frederick W. Stewartstown, N. H.	Spruce and fir (inquire direct)
Lapierre, Ulderic, Middleton, N. H.	Softwood and hardwood
Farwell, Thomas, Wells River, Vt.	Spruce, fir, hemlock, pine, hardwood and poplar
Flagg, Ira, Barre, Mass.	Hardwood
Hoyt, George Jr., New Boston	Hardwood

Pulpwood Buyers (Continued)

Company and Individual Buyers	Kinds of Wood Purchased
Jarosky, Chester, Windham, N. H.	Hardwood
Lee, John J., 49 Logging Hill Rd., Concord, N. H.	Hardwood
Kimball Lumber Co., Derry, N. H.	Hardwood
Benjamin Mariner, Co. 40 East Main St., Merrimack, Mass.	Hardwood
Moore, George, Lebanon, N. H.	Spruce, fir, hemlock, pine, peeled hard- wood and poplar
Poulin, Marc, 12 Sunset Drive, St. Johnsbury, Vermont	Hardwood
Randall, Ralph T., RFD 1, Newmarket, N. H.	Hardwood
Rausch, R., Fremont Lumber Sales, Fremont, N. H.	Pine
Rich, Harry J., Townsend, Mass.	Hardwood
Russell, Lee C., Farmington	Hardwood
Roberts, John D., Canaan, N. H.	Hardwood
Hoyt, George, New Boston	Hardwood

Excelsior Buyers*

American Excelsior Corp., Lebanon, N. H., Selle, N. F., Manager	Peeled poplar and basswood
Berry, O. P. Co., Wolfeboro, N. H. Berry, F., Manager	Peeled poplar and basswood
Lord, W. M. Co., Union, N. H. Fox, H. D., Manager	Peeled poplar, some willow

Poles, Piling, and Post Buyers

Koppers Co., Inc., Wood Preserving Div., Nashua, N. H.	Norway (Red) and pitch pine
New England Pole and Wood Treating Corp., Box 36, Merrimack, N. H. c/o William Footer	Norway and pitch pine, spruce, hard- wood, oak, maple, hickory
Merrill, Brewster Oak Street, North Conway, N. H.	

Railroad Tie Buyers

Koppers Co., Inc., Wood Preserving Division, Nashua, N. H. Mr. Roland Hoar, Agent.	Oak, Birch, Beech, Maple, Cherry
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* 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 & Operator	Species and Specifications
Adams, Geo. F. & Co., Moscow, Vt.	— white and yellow birch bolts del. to mill. Write for prices and specs.
Allen-Rogers Corp., Laconia, N. H., Andover Division, E. Andover, N. H.	— buying white birch bolts and logs. For prices and specifications contact mill or call Maurice Call, East Andover, N. H. or Richard Burt, Laconia.
Ames, Fred, Warren	— Bobin, wood, maple, 10 min. diam.
Bartlett, Edmund, Salisbury, Mass.	— oak boat keel stock.
Basketville, Putney, Vt.	— ash, oak and pine logs 8', 10', 22', 14', custom sawing.
Bixby, Ivan, Rumney	— red oak, 10" min., diam.
Bradford Veneer & Panel Co., Bradford, Vt.	— B. E. Farr, Buyer — Y. birch & other veneer logs. Write for specs.
Brock, Zack & Son, Inc., Bridgewater	— white ash for ladder rounds. Write for prices and specifications.
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.
Damaziak, Felix, Walpole	— 49" hardwood bolts all species, 6" - 24" in diameter.
Draper Corp., Beebe River	— yellow birch, sugar maple, hemlock, pine and spruce logs.
Forest Products, Inc., Wentworth	— white and yellow birch, sugar maple, beech and white ash logs and boltwood. Inquire Herm Ball, Wentworth.
Frye, E. B. & Son, Wilton	— birch, beech & pine logs 12', min. diameter 6" veneer quality preferable.
Herbrand, Arthur D., North Haverhill, N. H.	— yellow birch, hard maple, basswood, white ash, cherry oak, beech, soft maple on grade. Write for specs. and prices.
Hopkins, John, Jr., Milford	— pine bolts — boxes.
Kearsage Peg. Co., Bartlett	— straight grained white and yellow birch in 4' lengths, 6" top diam. Red heart not over 1/3 diam. of stick. Comparatively free from knots and burls.
Klondike Box Co., Weare	— white pine bolts 40" and 48" min. 5" diam.
LeBlanc, Gerard, 150 River St., Franklin	— softwood bolts. Contact for specs. (Mail RFD No. L, Hill).
Moosilaukee Lumber and Bobbin Co., Pike	— white and yellow birch, sugar maple, beech, white ash and red oak.
Morse, V. L., 16 Prospect Court, Brattleboro, Vt.	— white ash logs.
Northeast Hardwoods, Inc., N. Haverhill	— buys hardwoods in log and bolt form. Write for specs.
Parker, Winfield, Littleton (Bethlehem)	— white and yellow birch, maple, beech, square stock, also, buys pulpwood.
Portland, Dowell Co., Center Ossipee, George Pearson	— hardwood stumpage, birch, beech, maple, within 25 miles radius of mill, and boltwood delivered to mill.

Saunders Bros., Westbrook, Mr., S. Tamworth, N. H., Dalton, N. H.; A. C. Wentworth, Whitefield, N. H., Warren, N. H., Temple Bowen, Fryeburg, Me., Elton Perkins, Tamworth, N. H. — birch logs 39", 48", 51", lengths min., 3" whitewood around red heart, also beech, maple, and elm.

United Shank and Findings Div., 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.

White Mountain Lumber Co., Arthur Napert, Buyer, Berlin — No. 3 common hardwood lumber for pallets and skids.

Winham, Harold, Alstead — white birch logs.

White Pine Woodenware Corp. Lea Barlow; Milford, N. H. — 4' white pine bolts 5" minimum diameter.

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

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

Berti, Robert J., 20 Avery St., Plymouth — 1, 2, 3, 4, 5, 6, 7, 8, 9, 12.

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

Breckenridge, Walter F., Bible Hill, Claremont — 2, 9, 10, 13.

Brown, J. Wilcox, R.F.D. 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.

Catheron, Allison G. II, Box 197, Franconia — 1, 2, 4, 5, 6, 7, 9, 10.

Coville, Stanley, New England Forestry Foundation, Tamworth — 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13.

Dearborn, Richard, Plymouth (contact directly for services rendered)

Dundee Management Corp., P. O. Box 101, Jackson — 1, 2, 4, 5, 6, 7, 8, 9, 10, 12, 14.

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

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

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

- House, William P., R.F.D., Marlboro — 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14.
- Hyde, Gerald R., 73 South River Road, Bedford — 2, 9, 10, 11, 12, 13.
- Johnston, Richard B., R.F.D., Center Harbor — 1, 2, 3, 4, 5, 6, 7, 8, 9, 12, 14.
- Keller, John, Bethlehem — 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13.
- Knickerbocker, Gerald C., Lake Spoffard Realty, Spoffard Lake, N. H. — 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14.
- LaBree, Clifton, New Boston, N. H. — 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14.
- Lane, William, Crown Point Road, Rochester — 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14.
- Marshall, Raymond H., Mann's Hill Road, Littleton — 2, 4, 5, 6, 7, 8, 9, 10, 13.
- Merrill, Blynn, Wagner Woodlands, Lyme, N. H. — 1, 2, 4, 5, 6, 7, 8, 9, 12.
- Morse, John H., P. O. Box 65, Wilmot, N. H. — 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13.
- Plumb, Allan W., P. O. Box 206, Newport, N. H. — 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14.
- Poppema, Donald, R.F.D. No. 1, Center Barnstead, N. H. — 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13.
- Rich, Harry J., 5 Brookline Street, Townsend, Mass. — 1, 2, 3, 4, 5, 14.
- Thorne, Thaddeus, Center Conway, N. H. — 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14.
- Woodward, Howard, 234 Main Street, Berlin, N. H. — 1, 2, 3, 4, 9, 10, 12, 13, 14.
- Wight, Laurence L., 268 Mulberry Street, Claremont, N. H. — 1, 2, 4, 5, 6, 7, 8, 9, 12.

Partial List of Industrial Foresters Employed in New Hampshire

Andora Forest, Stoddard
William Dussault

Brown Company, Berlin
C. S. Kerr
K. S. Scott
M. E. Hamlin

J. D. Bates
K. S. Norcott

G. L. MacIntosh
C. W. Rand

Dartmouth College, Hanover
Robert S. Monahan

Draper Corp., Beebe River
John French Richard Dearborn

Franconia Paper Corp., Lincoln
Henry C. Waldo Elwin Macomber

Groveton Paper Company, Groveton
Harold S. Mountain Louis Ruch
Laverne Ingersoll James Bryan

International Paper Co., N. Stratford
Willard Ruch Sawyer Rhoads

Manchester Water Works, Manchester
Aldis J. Christie

Oxford Paper Co., School Street, Concord
Richard Ashton

St. Regis Paper Co., West Stewartstown
George D. Gates Allan M. Peterson
David B. Strathdee David K. Patrick

Frederick W. Cowan

Wagner Woodlands, Lyme
Blynn D. Merrill

Partial List of Timber Stand Improvement Contractors

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

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

Carlson, Walter Jr., Timberland Improvement Co., RFD, Wolfboro, N. H.

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

Page, Otto, 260 Court Street, Laconia, N. H.

Wagner Woodlands, Lyme, N. H.

The United States Situation Christmas Tree Consumption

Consumption of Christmas trees in 1964 is expected to be about 46 million trees. Annual imports from Canada in recent years have been between 10 and 12 million trees. This indicates that the demand for Christmas trees from domestic forests and plantations will be from 34 to 36 million trees.

Prices paid for Christmas trees on the stump vary widely but generally range from about \$0.25 for wild trees to \$2.50 or more for plantation-grown trees.

Growers of plantation trees have been faced with increasing competition and lower prices in recent years. This mainly reflects the effects of the harvest from large-scale plantings of the 1950's.

It is estimated that about half of the trees reaching the market in 1964 will be plantation-grown trees.

Christmas Tree Production in New Hampshire

The Christmas Tree Market for 1964 was one of the best in years. The price was excellent, the quality of trees was very good, and every producer sold his trees. Care should be taken by producers, next year, to avoid extreme over-production. This happens very often following a good marketing year such as 1964.

To prevent this from happening, each producer should be sure his trees are sold before cutting them, and should have a substantial down payment to assure the return of the buyer after the trees are cut.

Producers should be careful of the quality of the tree that they cut, as a poor quality tree on the market is not only hard to sell, but hurts the reputation of both the producer and the area that he lives in. This has happened in the past decade and as a result New Hampshire Christmas Trees do not enjoy the popularity that they did years ago. Only the production of quality trees will bring the volume of sales of the past back to this area.

Christmas Tree Dealers and Producers

(c) Christmas Trees

(b) Boughs

Adair, Elery W., RFD 2, N. Stratford (c)
Amadon, George N., Lancaster, RFD 1 (c)
Anderson, Henry A., State Line
Bacon, Calude, Beecher Falls, Vt. (c & b)
Bacon, Sam, RFD 1, Dalton, P. O. RFD No. 1, Littleton (c)
Ball, D. T., RFD, Colebrook (c & b)
Barbin, Romeo, 175 Park Street, Berlin (c)
Batchelder, Stewart, Clarksville (P. O. Pittsburg) (c & b)
Beloin, Alcide, Hall Street, Pittsburg (P. O. Beecher Falls, Vt.) (c)
Beloin, Germain, RFD, Colebrook (c)
Benoit, Hector, West Stewartstown (c)
Bradley, Walter (Mrs.), Whitefield, RFD (c)
Brockleman, Curtis, Franconia (c)
Brooks, Darwin, Stewartstown (P. O. RFD No. 1, Colebrook) (c)
Brooks, Douglas, N. Haverhill (c)
Brown, Peter, RFD 1, Bristol (c)
Bunnell, Holman, RFD 3, Colebrook (c)
Crawford, Edgar, Clarksville (P. O. Pittsburg) (c)
Cross, Holman, RFD 1, Colebrook (c)
Couture, Wilfred, P. O. RFD No. 1, Jefferson (c & b)
Currier, Frank, RFD 1, Lancaster (c & b)
Day, M. Eva, West Stewartstown (c & b)
Day, Louis, West Stewartstown (b)
Dearborn, Richard, Buckland Avenue, Plymouth (c & b)
Deline, Emerson, Stark (P. O. Groveton, RFD No. 1) (c)
Dunn, Red, Laconia (c)
Emerson, Stephen, RFD No. 1, Lancaster (c & b)
Ferguson, W. W., Colebrook (c)
Geller, Frederick F., 26 Hanover Street, Keene (c)
Goodwin, Clyde, RFD 1, Colebrook (c)
Goodrum, Hazen, Colebrook (c & b)
Gorman, Redmon, RFD, Colebrook (c)
Gray, Robert, Pittsburg (P. O. Beecher Falls, Vt.) (c)
Gray, Tabor, Pittsburg (P. O. Beecher Falls, Vt.) (c)
Grondin, Claude, Stewartstown, (P. O. RFD 3, Colebrook) (c)
Haynes, Moody, Bishop Brook (P. O. Beecher Falls, Vt.) (c)
Hayward, Robert, Sugar Hill (c & b)
Hibbard, Ellis, Stewartstown (P. O. RFD, Colebrook) (c)
Hollingsworth, Schuyler, RFD 2, Peterborough (c)
Hyde, John L., 6 Columbus Avenue, Concord (c)
Jackson, Charles, Colebrook (c)
Jackson, Frank, 59 Prospect Street, Lebanon (c&b)
Henson, Everett, N. Haverhill, N. H.
Jacques Nelson, Plymouth (c)
Johnson, Arthur, Hampton (c)
Keach, Douglas, RFD, Colebrook (c)
Kelsea, Lawrence M., Colebrook (c & b)
Lamoureaux, Peter F., Colebrook (c)
Lang, Harry, RFD No. 1, Colebrook (c)
Locke, Shelton, Champlain Street, Berlin (c)
Lord, Henry, Pittsburg (c)
Lyons, Albion J., RFD 1, Colebrook (c)
MacLean, Joseph, Colebrook (c)
Mallery, Bayard, c/o John Keller, Bethlehem (c)
Marchessault, Lorraine, RFD, Colebrook (c)
Marquis, Leon, Pittsburg (P. O. Beecher Falls, Vt.) (c)
Marshall, Raymond, Pine Street, Littleton (c & b)
Maurais, Adrien, RFD, Colebrook (c)
Mayberry, Benjamin, RFD, Colebrook (c)
McAllaster, Roger & Shirley, Stewartstown (P. O. RFD No. 3, Colebrook) (c)
McGoff, D. M., RFD No. 2, Lancaster (c)

McMann, Harlan, RFD No. 1, Stratford (c)
 Morrison, Scott, RFD, Colebrook (c & b)
 Northland Tree Co., Congdon, Percy Street, Colebrook (c)
 Noyes, Chester, Colebrook, RFD No. 1 (c & b)
 Oleson, Morris, Woodsville (c)
 Oleson, Norman, RFD No. 1, Jefferson (c)
 Parker, B. W., Colebrook (c & b)
 Parker, George, Clarksville (P. O. Pittsburg) (c)
 Paquette, Aldege, RFD, Colebrook (c)
 Paquette, Antonio, Pittsburg, (P. O. Beecher Falls, Vt.) (c)
 Paquette, Emile, Beecher Falls, Vt. (c)
 Paquette, Marcel, Twin Mountain (c)
 Placey, Burleigh R., RFD, Colebrook (c & b)
 Placey, Claude, RFD 1, Lancaster (c & b)
 Placey, Gordon, Colebrook (c & b)
 Putnam, Cortland, Winchester
 Rainville, Robert, Colebrook (c)
 Rancloes, Frank, RFD 3, Colebrook (c)
 Reynolds, William N., Stratford (c)
 Reed, Kenneth, RFD No. 1, Jefferson (c)
 Ricard, James, Canaan (c)
 Riendeau, George, Hall Stream, (P. O. Beecher Falls, Vt.) (c)
 Robertson, Phil, Prime Tree Co., Franconia (c)
 Robinson, Claude, Colebrook (c)
 Robitaille, Gerald, RFD, Colebrook (c & b)
 Russell, Lee, Farmington (c)
 Sawyer, Alfred, Jaffrey (c)
 Schander, John, Newmarket (c)
 Schwartz, Thomas, Orford (c & b)
 Struhsacker, Philip, Flintlock Lodge, Franconia (c)
 Thibeault, Joseph, Hall Stream, (P. O. Beecher Falls, Vt.) (c)
 Underhill, Oliver R., (see John C. Keller, Bethlehem, N. H.) c/o Standard Vacuum
 Oil Co., 6 Church Lane, Calcutta, India (c)
 Wagner Woodlands, Lyme (c & b)
 Warren, Richard, Barrington (c)
 Watson, Lyle, Belmont (c)
 Webber, Carl, Dublin
 Weir, Harlie, Colebrook (c)
 Wheeler, Claude, Hall Stream (P. O. Beecher Falls, Vt.) (c)
 Wheeler, Leonard, Beecher Falls, Vt. (Bishop Brook Road, N.H.) (c)
 Wheeler, Raymond, Pittsburg (P. O. Beecher Falls, Vt.) (c)
 Yale, William, Sandown, RFD 2, Chester (c)
 Yost, Carl, Gilmanton (c)

CONVERSION FACTORS AND 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 a log is determined 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. Inches	Number of 16 foot logs — to 6" top						
	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 Diameters 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

¼-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

Pulpwood

Pulpwood is generally sold by the cord or on the weight basis.

The Cord: A standard cord is generally accepted as equivalent to a pile of closely stacked wood 4 feet high, 4 feet deep and 8 feet long containing a gross volume of 128 cu. ft.

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

Bolt Diameter in Inches	Rough Wood	Peeled Wood
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.

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)

Cordwood

Wood fuel is generally sold by the standard cord or by the "short cord" also called "face cord" which is a pile of wood 8 feet long, 4 feet high and the length of the stick is less than 4 feet and is generally 12, 16, or 24 inches for stove and fireplace use.

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

White Pine Trial Log Grades and Relationship to Lumber Grade Yields

The steady rise in production costs and increased market competition over the years has brought about the need for evaluating the quality of logs coming into the sawmill. Since log quality is directly related to the quality of the lumber that may be produced, bucking logs according to prescribed techniques has become highly desirable.

The practices which were established in the past, in disregarding certain qualitative considerations of raw material, have no place in present day operations. Knowing the profit potential of a log, before it enters the mill, should be a very important consideration to sawmill operators. Good bucking practices, coupled with good supervision of the woods operation, will go a long way toward providing for a profitable operation.

The information presented hereafter is an interpretation of research conducted by the Northeastern Forest Experiment Station, U. S. Forest Service, at numerous sawmills throughout the northeast including New Hampshire and Maine.

White Pine Log Grades SPECIFICATIONS

Log Grade	Minimum Log Size		Sweep or crook allowance	Total cull allowance including sweep	Maximum weevil injury	Allowable knot size (inches) on 3 best faces or minimum clearness on 4 faces
	Diameter	Length plus trim				
	Inches	Feet	Percent	Percent	Number	Inches
No. 1	12 & 13	8-16	20	50	0	4 faces free of knots $\frac{1}{2}$ " or larger full length of log.
	14 and larger	10-16	20	50	0	2 faces free of knots $\frac{1}{2}$ " or larger full length of log or 4 faces free of knots $\frac{1}{2}$ " or larger on 50% length of log (6' minimum length) or if the sum of the diameters of sound red knots plus 2 times the sum of the diameters of dead or black knots (in inches) is no larger than $\frac{1}{2}$ the diameter of the log (in inches).

White Pine Log Grades (Continued)

SPECIFICATIONS

Log Grade	Minimum Log Size		Sweep or crook allowance	Total cull allowance including sweep	Maximum weevil injury	Allowable knot size (inches) on 3 best faces or minimum clearness on 4 faces
	Diameter	Length plus trim				
	Inches	Feet	Percent	Percent	Number	Inches
No. 2	6 and larger	8-16	30	50	0	Sound red knots no larger than D/6 or 3" Black knots: in Butt logs no larger than D/12 and no larger than 1½" Black Knots: in Upper logs no larger than D/10 and no larger than 1½" or 4 faces free of knots ½" or larger 50% length of log.
No. 3	6 and larger	8-16	40	50	8' logs 1 weevil 10' and longer logs 2 weevil	Sound red knots no larger than D/3 and no larger than 5". Black knots no larger than D/6 and no larger than 2½".
No. 4	6 and larger	8-16	50	50	No limit	No limit.

Further Instructions:

1. Consider all black knots above first whorl of red knots as red knots.
2. Butt logs having one or more whorls of red knots can be treated as upper logs.
3. Degrade any log with punk knots or conks on log surface, as follows:
 - Degrade one grade if punk knots or conks present on 1 or 2 faces.
 - Degrade two grades if punk knots or conks present on 3 or more faces.
4. Degrade any log with ring rot or shake showing at log ends outside the heart center of the log as follows:
 - Degrade one grade if found in total of 2 quarters at one or both ends.

Degrade two grades if found in total of 3 or 4 quarters at one or both ends.

Degrade three grades if found in total of 5 or more quarters at one or both ends.

In no case, degrade below a No. 4, unless log falls below merchantability standards regarding cull.

DEFINITIONS

Log	Any approximately cylindrical tree section. Common usage excludes pieces with length less than 8 feet or with average scaling inside bark at small end smaller than 5½ inches. Logs longer than 16 feet are beyond the scope of these specifications unless graded as several shorter logs.
Face	Any quarter-cylindrical log surface running full log length.
Overgrown knot	Any invisible branch or stub buried beneath the log surface but indicated by a surface bump or disturbance of bark pattern. Overgrown knots to be considered the same as black knots in grading.
Sound red knot	Any visible branch, stub, or socket which was living or had not been dead long enough to become encased in the log.
Black knot	Any visible branch, stub, or socket not conforming to definition of sound red knot.
Weevil injury	Evidence of weevil injury can be recognized by moderate to severe crook at point of injury. Knots at point of injury are usually large and elongated. Crook is more severe in small logs and less evident in large logs. Logs showing none of these characteristics will be considered free of weevil injury.
Heart center	The heart center of a log will be defined as the central core of a log having a radius equal to ¼ the diameter of the log.
D	Average diameter of log inside bark at small end to nearest whole inch.
Knot diameters	Average diameter of knots should be measured to nearest half inch at point where limb would normally be trimmed. Size to be considered that portion of knot that would drop out if it were loose; e.g., in live red knots only the red heart wood portion would be considered in determining knot size. In dead (black) knots the entire limb is considered. Disregard all knots less than ½" in diameter in all grades.
Sweep	Greatest deviation of longitudinal log axis from straight line connecting centers of each end of log. It should be measured to nearest whole inch, and is analogous to the middle ordinate of an arc. Expressed as percent it is =

$$\frac{\text{Total sweep in inches} - 2}{D} \quad \text{for 16' logs and}$$

$$\frac{\text{Total sweep in inches} - 1}{D} \quad \text{for 8' logs.}$$

PREDICTED LUMBER GRADE YIELDS

Assuming that the Log Grading System is applied properly, logs in each log grade have a distinct and predictable lumber grade yield.

Any one particular log, within the grades described above, will not necessarily yield the predicted percentages of lumber grades but *the average yield of a number of logs*, in any one grade, will approximate the predicted values within a 5 percent accuracy.

Predicted Lumber Grade Yields (in percent)
For White Pine Log Grades

Log grade	D-Sel. & Btr.	No. 1 & 2 Com.	No. 3 Com.	No. 4 Com.	No. 5 & Com.
No. 1	48	18	22	11	1
No. 2	16	20	39	24	1
No. 3	3	4	39	53	1
No. 4	2	*	12	74	12

* Less than 0.5%

The results of a limited (28 logs) log grading — lumber yield study at a New Hampshire mill are shown below to illustrate the performance of the grading system on No. 2, No. 3 and No. 4 logs basing the lumber values on the following prices:

D. Select and Better	\$230 per M
No. 1 and No. 2 Common	170 per M
No. 3 Common	125 per M
No. 4 Common	80 per M
No. 5 Common	50 per M

Lumber width averaged 6" and wider.

Log Grade No. 2 — (9 logs)

Lumber Grade	Lumber Tally				Lumber Value	
	Actual		Predicted		Actual	Predicted
	Bd. ft.	Percent	Bd. ft.	Percent	Dollars	Dollars
D — Select & Better	45	6	79	10	\$10.35	\$18.17
No. 1 & 2 Common	206	26	119	15	35.02	20.23
No. 3 Common	354	44	397	50	44.25	49.62
No. 4 Common	157	20	175	22	12.56	14.00
No. 5 Common	32	4	24	3	1.60	1.20
Total	794	100	794	100	103.78	103.22
Value per M bd. ft.					130.70	130.00

Log Grade No. 3 — (13 logs)

Lumber Grade	Lumber Tally				Lumber Value	
	Actual		Predicted		Actual	Predicted
	Bd. ft.	Percent	Bd. ft.	Percent	Dollars	Dollars
D — Select & Better	44	3	47	3	\$10.12	\$10.81
No. 1 & 2 Common	7	1	31	2	1.19	5.27
No. 3 Common	386	25	467	30	48.25	58.37
No. 4 Common	1,097	69	935	60	87.76	74.80
No. 5 Common	24	2	78	5	1.20	3.90
Total	1,558	100	1,558	100	148.52	153.15
Value per M bd. ft.					95.33	98.30

Log Grade No. 4 — (6 logs)

Lumber Grade	Lumber Tally				Lumber Value	
	Actual		Predicted		Actual	Predicted
	Bd. ft.	Percent	Bd. ft.	Percent	Dollars	Dollars
D — Select & Better	5	1	3	1/2	\$ 1.15	\$.69
No. 1 & 2 Common	—	—	3	1/2	—	.51
No. 3 Common	43	8	52	9	5.37	6.50
No. 4 Common	489	84	434	75	39.12	34.72
No. 5 Common	42	7	87	15	2.10	4.35
Total	579	100	579	100	47.74	46.77
Value per M bd. ft.					82.45	80.78

The results indicate that actual lumber values per M board feet for any log grade differed from predicted values by less than 3 percent, which is under the 5 percent accuracy expected from the system.

The value of the system really lies in the fact that mill operators can predict the yield of various grades of lumber that they will produce and in this way they can base their payments for the logs on these expected yields.