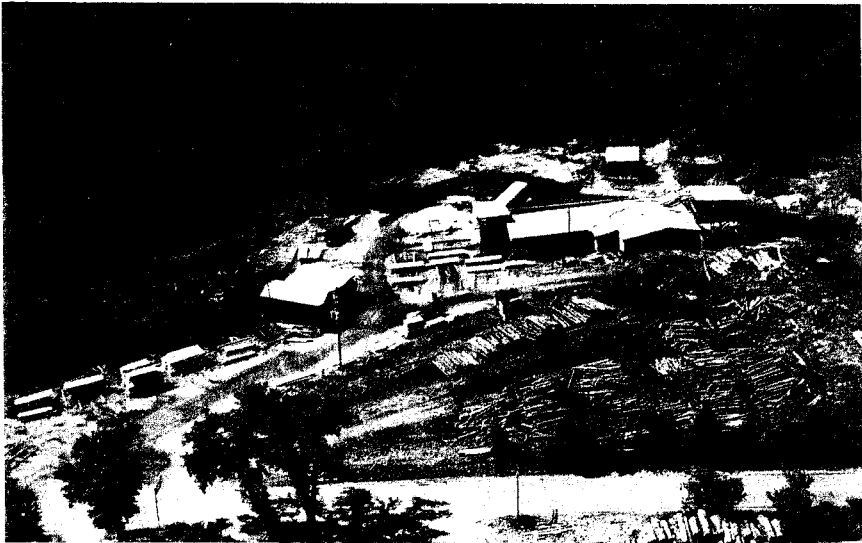


NEW HAMPSHIRE FOREST MARKET REPORT 1970

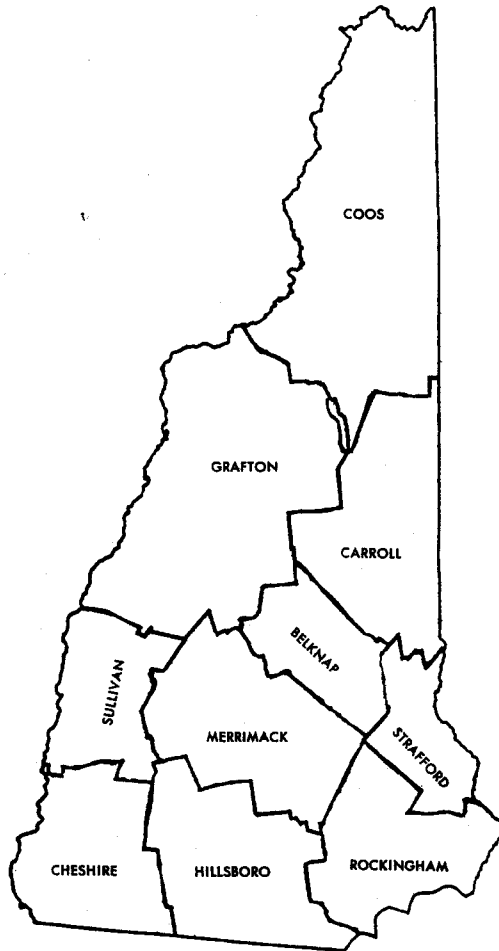


**COOPERATIVE EXTENSION SERVICE
UNIVERSITY OF NEW HAMPSHIRE**
with the
**NEW HAMPSHIRE DEPARTMENT OF RESOURCES
AND ECONOMIC DEVELOPMENT COOPERATING**



MAP OF NEW HAMPSHIRE

(Showing Counties)



by

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

County Foresters

| County | Name | Address |
|------------|---|---|
| Belknap | Scott, Donald H. | County Extension Office Laconia 524-1737 |
| Carroll | Dodge, Arthur G., Jr. Pohl, Peter W. (Assistant) | County Extension Office Conway 447-5922 |
| Cheshire | Ferguson, John R., Jr. | County Extension Office Keene 352-4550 |
| Coos | Nolet, Richard J. | County Extension Office Lancaster 788-4961 |
| Grafton | Sargent, Leslie B., Jr. Miller, Milan M. (Assistant) | County Extension Office Woodsville 747-2377 |
| Hillsboro | Breck, Robert W. | County Extension Office Milford 673-2510 |
| Merrimack | Thompson, Wilbur E. | County Extension Office Concord 225-5505 |
| Rockingham | Knowles, Stanley W. Conde, John A. (Assistant) | County Extension Office County Building Exeter 772-4711 Ext. 37 |
| Strafford | Leighton, Roger S. | County Extension Office Rochester 332-5808 |
| Sullivan | Szymujko, Joseph A. | County Extension Office Claremont 543-3181 |

FOREST MARKET REPORT FOR 1970

INDUSTRY OUTLOOK

Lumber production and consumption in 1970 will not increase as rapidly as will that of a majority of U.S. industries, according to the Department of Commerce's "U.S. Industrial Outlook". This 11th edition of the industry-by-industry forecast prepared by the Business and Defense Services Administration, sees a good chance for a 5% increase in production, a smaller gain in shipments, and a mere 1% rise in domestic consumption. For 1969, production is estimated at 36,800,000,000 board feet, a decline (of less than 1%) from 1968. The year 1969, said the report, "was characterized by uncertainty and concern within the lumber industry regarding both the current and prospective market". It noted an optimistic outlook in 1969 for housing starts early in the year, as prices for softwood soared, due to a number of factors, including severe weather in the Northwest, exports of logs, and transportation difficulties. The price peak was reached around March 1, and then prices tumbled. Imports spurted early in the year, then fell, so that for 1969 as a whole, the estimate was 6,600,000,000 board feet, or 7% above 1968. Exports were off 13% in the first half, due to the strong domestic market, then rose in the second half, to a year's total of 1 billion board feet, down 12% from 1968.

Demand for 1970 is projected on the assumption that residential construction will at least maintain the 1969 level, although it has been falling recently. (Housing starts in November were at the annual adjusted rate of 1,287,000 units, lowest in nearly two years, and total starts for all of 1969 are now expected to fall below the predicted 1,500,000.) The "Outlook" notes that both labor and raw material costs are rising, technological developments in the sawmill industry are being stepped up, and the number of sawmills continues to decline. By 1975, a moderate increase of around 10% in demand for lumber is predicted.

Production of softwood plywood, which has nearly doubled since 1960, is expected to gain 2% to 14,800,000 square feet in 1970 by the Commerce Department analysts. Value of the shipments is likely to rise 1%, to \$1,197,000,000. By 1975, the forecast is for production of 17,000,000,000 square feet, assuming that the housing industry is able to solve some difficult problems—financing, finding enough skilled labor, and developing wood raw material in sufficient quantity. Faster gains are seen for particle-board, which had a 10% production gain in 1969, to 1,575,000,000 square feet, and the gain is expected to reach more than three million square feet by 1975, including imports (to be about 5%).

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.

1970 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 5 before disposing of stumpage, logs, and other forest products.

Belknap County

| Species | Quality | Stumpage | Roadside | Delivered |
|---------------------------------|----------------|----------|----------|-----------|
| White Pine | Medium | \$20-25 | \$30-32 | \$45-55 |
| | High | 25-30 | 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 |
| | High | 16-20+ | 36+ | 55-120 |
| White Birch and Yellow Birch | Low | 10-12 | 26-32 | 38-42 |
| | Medium | 12-20 | 32-40 | 45-65 |
| Rock Maple | High | 20+ | 40+ | 75-125 |
| | Low | 10-12 | 26-32 | 38-42 |
| | Medium | 12-20 | 32-40 | 50-75 |
| Beech | High | 20+ | 36+ | 75-100 |
| | Medium to High | 8-12 | 26-32 | 40-60 |
| White Ash | Low | 10-12 | 26-32 | 40-42 |
| | Medium | 12-20 | 30-40 | 45-55 |
| | High | 20+ | 40+ | 65-75 |
| Mixed Hardwoods | High | 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 | 45-48 |
| | High | 18-25 | 35-45 | 48-53 |
| Spruce | Low | 15 | | |
| | Medium | 18 | | 55 |
| | High | 24 | | 60 |
| Ash | Medium | 15-30 | | 60 |
| | High | 40 | | 70 |
| Basswood | | 8 | | 35-70 |
| Beech | Low | 8 | | |
| | Medium | 15 | | 45 |
| | High | 20 | | 60 |
| Beech-Boltwood | | | | 25-32/cord |
| Red Maple | Low to High | 7-12 | | 50 |
| Sugar Maple | Low | 15 | | 45 |
| | Medium | 30 | 50 | 65 |
| | High | 45 | 70 | 140 |
| Sugar Maple Boltwood | | | | 20-32/cord |
| Paper Birch | Low | 15-25 | | |
| | Medium | 25-45 | 50 | 60-80 |
| | High | 45-70 | 80 | 80-140 |

Carroll County (Continued)

| Species | Quality | Stumpage | Roadside | Delivered |
|----------------------|---------|------------|------------|------------|
| Paper Birch Boltwood | | 12-14/cord | 30-35/cord | 40-46/cord |
| Yellow Birch | Medium | 45 | | 95 |
| | High | 70 | | 175 |
| Oak | Medium | 15-20 | | 45-60 |
| | High | 20-30 | | 65-70 |

Cheshire County¹

| Species | Quality | Stumpage | Roadside | Delivered |
|----------------------------|----------------|----------------|----------|-----------|
| White Pine | Low to Medium | \$10-15 | \$30-35 | \$35-45 |
| | Medium to High | 15-22 | 35-42 | 45-55 |
| 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 | 45-50 |
| 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- | | 60-130 |
| | | cept as logs) | | |

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

Coos County

| Species | Quality | Stumpage | Roadside | Delivered |
|----------------|---------|----------|----------|-----------|
| SAWLOGS | | | | |
| White Pine | Low | \$15 | | \$40-50 |
| | Medium | 18 | \$40 | 45 |
| | High | 25 | | 60-70 |
| White Spruce | Low | 15 | 55 | 50-55 |
| | Medium | 15 | 55 | 60 |
| | High | 15-25 | 55 | 65-70 |
| Red Spruce | Low | 15 | 55 | 50-55 |
| | Medium | 18 | 55 | 60 |
| | High | 18-20 | 55 | 65-70 |
| Hemlock | Low | 8 | | |
| | Medium | 8 | | |
| | High | 8 | | 43 |
| Balsam Fir | Low | 15 | 55 | 50-65 |
| | Medium | 15 | 55 | 60-66 |
| | High | 18 | 55 | 67-70 |

Coos County (Continued)

| Species | Quality | Stumpage | Roadside | Delivered |
|---------------------------|---------------------|----------|----------|-----------|
| Hard Maple | Low | | | 40 |
| | Medium | 25 | | 70-75 |
| | High | | | 80-105 |
| Soft Maple | Low | | | |
| | Medium | 10 | | 60 |
| | High | | | 80 |
| White Birch | Low | | | 60 |
| | Medium | 20 | | |
| | High | | | 100 |
| Yellow Birch | Low | | | 60-80 |
| | Medium | 25 | 109 | 110 |
| | High | 50 | | 120-160 |
| White Ash | Low | | | 45-90 |
| | Medium | 20 | | 115 |
| | High | | | 105-160 |
| White Cedar (over 6" DBH) | | | | |
| | 6' to 10' lengths | 10 | 32 | 40 |
| | 12' to 16' lengths | 10 | 35 | 42-47 |
| | 6' logs by the cord | | 21 | 33 |
| VENEER | | | | |
| Yellow Birch | Low | | | \$120-135 |
| | Medium | 50-65 | | 50-200 |
| | High | | | 225-250 |
| Red Oak | Low | 10 | | 70 |
| | Medium | | | 100 |
| | High | 30 | | 140 |
| Core Logs | Low | 8 | | 70 |
| | High | 12-15 | | 80 |
| | | 20-25 | | 55-110 |
| Elm | | | | |

Grafton County

| Species | Quality | Stumpage | Roadside | Delivered |
|---------------------|---------|----------|----------|-----------|
| White Pine | Low | \$10-12 | | |
| | Medium | 12-16 | \$34-40 | \$40-50 |
| | High | 15-25 | 38-45 | 45-60 |
| Hemlock | Average | 5-18 | 26-35 | 36-45 |
| Spruce | Average | 12-20 | 35-45 | 45-60 |
| Yellow Birch | Sawlog | 15-25 | 35 | 50-125 |
| | Veneer | 25+ | 45+ | 125-350 |
| Sugar or Hard Maple | Sawlog | 10-25 | 35-45 | 50-100 |
| | Veneer | 20+ | 45+ | 100-140 |
| | | | | |
| White Birch | Sawlog | 12-30 | 35-45 | 50-125 |
| | Veneer | 20+ | 45+ | 100-235 |
| Soft (Red) Maple | Sawlog | 5-12 | 30+ | 32-60 |
| Red Oak | Sawlog | 10-16 | 30-40 | 40-90 |
| | Veneer | 20+ | | 60-120 |
| Beech | Sawlog | 5-15 | 30-40 | 38-60 |
| | Veneer | 15+ | | 60-85 |
| White Ash | Sawlog | 12+ | | 65-160 |
| Basswood | Sawlog | 10-15 | 30-40 | 40-50 |
| | Veneer | 20+ | | 60-120 |

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 Birch, Maple, Ash Mixed Hardwood (Pallet Stock) | Low | 8 | 25 | 36-45 |
| | Medium | 12 | 30 | 42-70 |
| | High | 18 | 35 | 47-100 |
| | Logs | | | 35-45 |

Merrimack County

| Species | Quality | Stumpage | Roadside | Delivered |
|----------------------------------|---------|----------|----------|-----------|
| White Pine | Low | \$10-15 | \$30-40 | \$35-45 |
| | Medium | 15-18 | 40-45 | 45-50 |
| | High | 20+ | 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 | | \$ 8-22 | \$23-40 | \$30-53 |
| Hemlock | Medium | 17-15 | 29-33 | 37-41 |
| Other Hardwoods | | 8-25 | | 35-50 |

¹ High 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 | 20-28 | 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 | \$10-12 | \$30-32 | \$40-42 |
| | Medium | 12-18 | 32-38 | 42-50 |
| | High | 18-25 | 38-45 | 50-55 |
| Hemlock | Medium | 8-15 | 30-32 | 38-45 |
| | High | 15-20 | 32-36 | 45-50 |
| Spruce | Medium | 12-18 | 32-38 | 42-55 |
| | High | 18-25 | 38-45 | 55-60 |
| Yellow Birch | Medium | 12-20 | 32-40 | 42-60 |
| | High | 20-30 | 40-50 | 60-80 |
| White Birch | Medium | 12-20 | 32-38 | 42-60 |
| | High | 20-35 | 38-55 | 60-80 |
| Sugar Maple | Medium | 18-20 | 38-40 | 50-60 |
| | High | 20-30 | 40-55 | 60-85 |
| Red Oak | Medium | 12-20 | 32-38 | 42-50 |
| | High | 20-30 | 38-45 | 50-80 |
| White Ash | Medium | 15-20 | 35-40 | 45-50 |
| | High | 20-35 | 40-50 | 50-75 |
| Mixed Hardwoods | Medium | 10-12 | 30-32 | 40-42 |
| | High | 12-20 | 32-40 | 42-55 |

Table II. Prices Pulpwood Per Cord — Northern New Hampshire¹

| Species | Stumpage | Roadside | Mileage Zone | Mill Yard |
|--------------------|-------------|---------------|--------------|--------------------------------------|
| Spruce and Fir | | | | |
| Rough | \$3.00-6.00 | \$14.50-18.50 | 0-20 | \$21.75 |
| | | | 21-40 | 22.00-23.00 |
| | | | 41+ | 26.00 |
| Peeled | | | | |
| White Pine | 1.00-2.00 | | | 17.00-18.00 |
| | | | | Approx. \$7.00/cord. more for peeled |
| Hemlock | | | | |
| Tamarack | 1.00-3.00 | | 0-20 | 19.00 |
| Red, Pitch, | | | 21-40 | 20.00 |
| Scotch Pine | | | 41+ | 21.50 |
| All Hardwood | 1.50-2.00 | | | 18.00-22.00 |
| 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 | \$24.00-28.00 | 22.00-26.00 |
| Hardwood (mixed) | 24.00-26.00 | 20.00-25.00 |

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 Cord¹ | | |
| White Birch | \$8.00-15.00 | \$20.00-30.00 | 29.00- 43.00 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 | 8.00-12.00 | | 28.00- 38.00 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 | Top Diameter | Stumpage | Roadside Price (per post) |
|-------------------------------------|--------------|----------|------------------------------|
| Red (Norway Pine) and Pitch Pine | 8" | \$.40 | \$1.00 |
| | 6" | .10 | .50 |
| | 3-6" | .01 | .35 |

Railroad Cross Ties

| Grade | Size | Rail Bearing Face | Prices Paid for Green Mixed Oak and Hardwood ¹ Ties at Rail Siding (MAINE CENTRAL) | | Delivered at Mill |
|-------------|--------------|-------------------------|---|---------------------------------------|-------------------------------------|
| | | | | | |
| No. 1 | (6"x7"x8'6") | 6" | \$1.45 | MBF 48.36 48.86 | MBF 1.55 1.55 |
| No. 2 | (6"x7"x8'6") | 7" | 2.00 | 67.40 67.40 | 2.10 2.10 |
| No. 3 | (6"x8"x8'6") | 8" | 2.55 2.70 | 74.97 74.97 | 2.65 2.65 |
| No. 4 | (7"x8"x8'6") | 8" | 3.50 | 88.34 88.34 | 3.60 3.60 |
| No. 5 | (7"x9"x8'6") | 9" | 3.75 | 80 84.05 | 3.85 3.85 |
| Industrials | | | 1.00 | | 1.10 1.10 |

¹ Beech, Birch, Maple, Cherry.

Table V. Price Range of Fuelwood Per Cord

| Species | Stumpage | Roadside | Delivered Buyers Premises |
|------------------------|-------------|---------------|---------------------------|
| Hardwood ¹ | | | |
| 4' Wood | \$1.00-3.00 | \$12.00-20.00 | \$20.00-34.00 |
| 12", 14", 16", Lengths | | 18.00-22.00 | 20.00-32.00 |
| Slabs | | 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 | \$1.00-5.00 | |
| | or \$.02 to .04 per cubic foot | |
| Shavings | 2.00-5.00 | \$.65-1.00 |
| | or \$.02 to .04 per cubic foot | |
| Bark | \$.02 per cubic foot (loaded) | |
| | 3.00-6.00 per yard (loaded) | |

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 | 3.00-10.00 | 6.00-11.00 | 8.00-15.00 |
| Hardwood ¹ | 6.50-13.00 | 7.00-18.00 | 6.00-25.00 |
| Hardwood ² | 3.00-12.00 | 3.00-14.00 | 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 | 6.00- 9.00 | 4.00- 6.00 | |
| 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. | | |

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

| | Felling and Bucking per Mbf | Yarding per Mbf | Trucking ^{3/4} per Mbf |
|--------------------|--------------------------------|---|------------------------------------|
| Man with Chain Saw | 4.00- 5.00 | per hour | |
| Stump to Stick | 45.00-70.00 | square edge softwood lumber per Mbf. | |
| | 30.00-50.00 | round edge softwood lumber per Mbf. | |
| | 52.00-82.00 | 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 | 20.00-35.00 | per Mbf for softwoods or \$15-20 per hour. | |
| | 2.00- 5.00 | per Mbf \$6.00-16.00 per hour. | |
| | 10.00-15.00 | more per Mbf for hardwoods. | |
| Planing | 10.00 | per Mbf one face or \$6.00-10.00 per hour. | |
| | 15.00 | per Mbf two faces or \$6.00-10.00 per hour. | |

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 |
| | 30- 50 miles | 8.00-12.00 per Mbf |
| | 50- 85 miles | 12.00-19.00 per Mbf |
| | 85-100 miles | 19.00-22.00 per Mbf |
| 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 | \$215 | \$170 | \$125 |
| 1x4 | 215 | 170 | 125 |
| 1x5 | 215 | 170 | 125 |
| 1x6 | 250 | 175 | 125 |
| 1x7 | 220 | 175 | 125 |
| 1x8 | 250 | 175 | 125 |
| 1x9 | 230 | 175 | 125 |
| | | | \$65 |
| | | | 70 |
| | | | 75 |
| | | | 75 |
| | | | 80 |
| | | | 90 |
| | | | 90 |

**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 | | | | |
|---------------------------------------|------|---------------------------|---------------|--------------|-----|-----|-----|-----|
| 1x10 | 265 | 175 | 125 | 90 | | | | |
| 1x11 | 265 | 175 | 125 | 90 | | | | |
| 1x12 | 305 | 195 | 135 | 90 | | | | |
| 1x13 | 305 | 195 | 135 | 90 | | | | |
| ¼ to ¾ — No. 2 and No. 3 and D select | | | Add \$5 per M | | | | | |
| Rough Air Dried Native Hemlock | | | | | | | | |
| Boards | | | Dimensions | | | | | |
| | | | 6' | 8' | 10' | 12' | 14' | 16' |
| 1x3 | \$75 | | | | | | | |
| 1x4 & 1x5 | 75 | 2x3 & 2x4 | \$55 | 80 | 80 | 80 | 80 | 80 |
| 1x6 & 1x7 | 80 | 2x6 & 2x8 | 55 | 80 | 80 | 80 | 80 | 80 |
| 1x8 & up | 85 | 2x10 | 55 | 80 | 80 | 80 | 80 | 80 |

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

**Table IX. Wholesale Price List for White Pine Lumber 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 | | | | |
|--|-----------------------------------|---------------------------|--------------|--------------|-----|-----|-----|-----|
| 1-4 | \$235 | \$190 | \$145 | \$ 90 | | | | |
| 1x6 | 270 | 195 | 145 | 95 | | | | |
| 1x10 | 285 | 195 | 145 | 110 | | | | |
| 1x12 | 325 | 215 | 145 | 110 | | | | |
| Single Clapboard Siding — 1x5 only — add \$5 per M | | | | | | | | |
| Double Clapboard Siding — 1x8 — No. 3c — add \$5 per M | | | | | | | | |
| V Joint, Knotty Pine, No. 2 and No. 3 — add \$5 per M | | | | | | | | |
| Pickwick Pattern — No. 3 Knotty Pine — \$150 | | | | | | | | |
| Eastern Hemlock | | | | | | | | |
| Boards | | | Dimensions | | | | | |
| | | | 6' | 8' | 10' | 12' | 14' | 16' |
| 1x3 | \$ 90 | 2x3 | \$70 | 95 | 95 | 95 | 95 | 95 |
| 1x4 | 90 | 2x4 | 70 | 95 | 95 | 95 | 95 | 95 |
| 1x5 | 90 | 2x6 | 70 | 95 | 95 | 95 | 95 | 95 |
| 1x6 & 1x7 | 95 | 2x8 | 70 | 95 | 95 | 95 | 95 | 95 |
| | | 2x10 | 70 | 95 | 95 | 95 | 95 | 95 |
| 1x8 & up | 100 | | | | | | | |

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

Table X. Price Range of Christmas Trees and Boughs¹

| | Stumpage | | Roadside | |
|---------------------------------|-------------|-------------|-------------|---------------|
| | Single | Bundle | Single | Bundle |
| Pasture Run (unimproved) | | | | |
| Balsam Fir | \$.35- .75 | \$1.75-3.50 | \$.75-1.25 | \$2.25-4.75 |
| Spruce | .25- .60 | 1.25-2.50 | .50- .75 | 1.50-3.00 |
| Plantation (unimproved) | | | | |
| Balsam Fir | | | 1.00-1.75 | 2.25-4.75 |
| Spruce | | | .60- .90 | 1.75-3.00 |
| Improved Trees | | | | |
| Balsam Fir | | | 1.40-4.50 | 2.75-5.75 |
| Spruce | | | 1.15-1.65 | 2.25-3.25 |
| Boughs | | | | |
| | | Per Bundle | Roadside | Per Ton |
| Balsam Fir (tied) | | \$1.00-1.80 | | \$40.00-72.00 |
| Balsam Fir (baled) | | 1.50-2.00 | | 60.00-90.00 |
| 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.

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, 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 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 |
| N. H. Lbr. Prod., Inc. Dickerson, Gene RFD 1, Laconia | S | SW & HW | X | X | X | X |
| <u>Gilmanton</u> | | | | | | |
| Clairmont, Jos. Gilmanton Corner | S | 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>Laconia</u> | | | | | | |
| Allen-Rogers Corp. Water St., Laconia | B | HW- -Boltwood | X | | X | |

Belknap County (Continued)

| Town & Operator | Type of Sawmill | Kind of Logs | Stump. | Road. | Del. | Cus. |
|---|-----------------|------------------------|--------|-------|------|------|
| Banfill, Ernest 500 Union Avenue Laconia | B & L | SW & HW -Oak Piling | X | | | |
| Dow, Harry RFD 3 Laconia | S | SW & HW | X | | | |
| Tilton Daniels, Thomas | S | SW & HW | X | X | X | |

Carroll County

| | | | | | | |
|--|-------|----------------|---|---|---|---|
| <u>Bartlett</u> | | | | | | |
| Kearsarge Peg Co., W. F. Hodgins and S. E. Davidson, Jr. | S | Birch Bolts | 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 |
| Heath Brothers Center Conway Geo. W. and Noyes K. Heath | B & L | SW & HW | 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 | |
| <u>Jackson</u> | | | | | | |
| Dundee Mgmt. Corp. Mack Beal Box 101, Jackson | 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 | |

Carroll County (Continued)

| Town & Operator | Type of Sawmill | Kind of Logs | Stump. | Road. | Del. | Cus. |
|--|-----------------|---------------------|--------|-------|------|------|
| 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> | | | | | | |
| Chocorua 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 | | | |
| Hammon, 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 | |
| Thomas, Bruce Tamworth | B & L | SW & HW | X | X | X | |
| <b align="center">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. Route L, Keene | S | SW & HW | X | X | X | X |
| <u>Fitzwilliam</u> | | | | | | |
| Damon, Clayton | S | SW & HW | X | X | X | X |
| Tommila Bros. | S | SW & HW | X | | X | |
| <u>Gilsum</u> | | | | | | |
| Lackey, Frank RFD, Keene | B & L | SW & HW | X | | | |

Cheshire County (Continued)

| Town & Operator | Type of Sawmill | Kind of Logs | Stump. | Road. | Del. | Cus. |
|--|-----------------|--------------|--------|-------|------|------|
| Duffy, Arthur Gilsum | B & L | SW & HW | X | | | |
| Prevost, David, Jr. Box 183, Gilsum | B & L | SW & HW | X | | | |
| <u>Keene</u> | | | | | | |
| Rivers, Paul E. 334 Elm St., Keene | B & L | SW & HW | X | | | |
| <u>Marlborough</u> | | | | | | |
| Beauregard, Chas & Sons, Inc. P.O. Box 395 | S | SW & HW | X | X | X | X |
| Cummings, F. T., Inc. Box 185, Troy | S | SW & HW | X | | X | X |
| Miner, Theodore Roxbury Road Marlborough | B & L | SW & HW | X | | | |
| <u>Swanzy</u> | | | | | | |
| Lane, C. L. Company East Swanzy | S | SW & HW | X | X | X | |
| Frazier Furniture Co. West Swanzy | S | HW | | | X | X |
| <u>Troy</u> | | | | | | |
| Starkey, Eugene | P | SW & HW | X | | | |
| <u>Walpole</u> | | | | | | |
| Damaziak, K. Felix | S | HW | X | X | X | X |
| <u>Winchester</u> | | | | | | |
| New England Lbr., Co. Box 124 | S | SW & HW | X | | X | |
| Prouty, Leonard Old Chesterfield Road | B & L | SW & HW | X | | | |
| Hildreth, C. H. & Son | S | SW & HW | X | X | X | X |

Coos County

Berlin

White Mt. Lbr. Co., Inc.
East Milan Road

S SW X

White Mountain Woodcraft
Boucher, George, Buyer
E. Milan Road

S SW & HW X

Colebrook

Weir, Harlie

B HW & SW X

Coos County (Continued)

| Town & Operator | Type of Sawmill | Kind of Logs | Stump. | Road | Del. | Cus. |
|--|------------------------|---------------------|---------------|-------------|-------------|-------------|
| <u>Dalton</u> | | | | | | |
| Saunders Bros. Clifford Wentworth, Buyer RFD, Whitefield | S | HW | X | X | X | |
| <u>Groveton</u> | | | | | | |
| Crawford, Wilson | S | HW | 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> | | | | | | |
| Audet Bros. | S | SW | | | X | X |
| <u>North Stratford</u> | | | | | | |
| Building Materials Div. of Brown Company | S | HW | X | | X | |
| 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. | S | HW | X | X | X | |
| Crafton County | | | | | | |
| <u>Ashland</u> | | | | | | |
| Gallup Lumber Co. c/o E. Jones, Mgr. Ashland | S | SW & HW | X | X | X | 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 | |

Grafton County (Continued)

| Town & Operator | Type of Sawmill | Kind of Logs | Stump. | Road. | Del. | Cus. |
|--|------------------------|---------------------|---------------|--------------|-------------|-------------|
| Mardin, Robert RFD, Plymouth | S | SW & HW | X | X | X | X |
| <u>Canaan</u> | | | | | | |
| Roberts Lbr. Co. | S | SW & HW | X | X | X | X |
| <u>Grafton</u> | | | | | | |
| Braley, Maurice F. | S | SW & HW | X | X | X | |
| <u>Hanover</u> | | | | | | |
| Lacoss, Niles | S | SW | X | X | X | X |
| <u>Haverhill</u> | | | | | | |
| Grafton Tree Farm Service Pike | L | SW & HW | X | | | |
| Heberbrand, Arthur D. (N. Haverhill) | S | SW & HW | | X | X | X |
| H. L. Joslyn RFD 2, Woodsville | B | SW & HW | X | | | |
| Newman Lbr. Co. & Transit Milling Co. Woodsville | S | SW | X | X | X | |
| Northeast Hardwoods, Inc. N. Haverhill | S | HW | X | X | X | |
| <u>Landaff</u> | | | | | | |
| Davis, Jack RFD, Lisbon | S | SW & HW | | | | X |
| <u>Lincoln</u> | | | | | | |
| Franconia Paper Corp. | B & L | SW & HW | X | | | |
| <u>Lisbon</u> | | | | | | |
| Profile Lumber Co. | S | SW & HW | X | X | X | |
| <u>Littleton</u> | | | | | | |
| Poulsen Lumber Co. | S | SW & HW | X | X | X | |
| Schoff, Arthur | S | SW & HW | X | X | X | |
| Timber Products Laurence Bean | S | HW | | | | X |
| Little, Raymond | B | SW & HW | X | | | |
| <u>Lyme</u> | | | | | | |
| Wagner Woodlands & Co. | B & L | SW & HW | X | | | |
| <u>Orange</u> | | | | | | |
| Hammond, F. C. & Sons | S | SW & HW | X | X | X | |
| <u>Orford</u> | | | | | | |
| Jetham, Donald A. | B & L | SW & HW | X | | | |

Grafton County (Continued)

| Town & Operator | Type of Sawmill | Kind of Logs | Stump. | Road. | Del. | Cus. |
|--|-----------------|--------------|--------|-------|------|------|
| <u>Plymouth</u> | | | | | | |
| Ireland Lumber Co. | S | SW & HW | X | X | X | X |
| Whitman Division USM Corporation | S | HW | | | X | |
| Roy, Tom | B | SW & HW | X | | | |
| <u>Rumney</u> | | | | | | |
| Forest Lands, Inc. c/o Roger A. Sanborn, Buyer RFD, Rumney | B & L | SW & HW | X | | | |
| Keniston, Raymond | S | SW & 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> | | | | | | |
| 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 |
| <u>Bennington</u> | | | | | | |
| Berwick & Ford Lbr. Co., Inc. 6 Grover Street Concord | S | SW & HW | X | | | |
| Durgin, John D. RFD, Newport | 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> | | | | | | |
| Goffstown Building Supply Co. | S | SW & HW | X | | | |
| Hebert, Lucien Route 4, Box 208 Manchester | P | SW & HW | X | | | |

Hillsboro County (Continued)

| Town & Operator | Type of Sawmill | Kind of Logs | Stump. | Road. | Del. | Cus. |
|---|-----------------|--------------|--------|-------|------|------|
| Hollis | | | | | | |
| Glover, Milton RFD 2, Milford | S | SW | | | | X |
| Stataline Lbr. Co. Box 35, Nashua | S | SW & HW | X | X | X | |
| Hudson | | | | | | |
| Esty, Ralph Upstock Road Georgetown, Mass. | P | SW & HW | X | | | |
| Lyndeboro | | | | | | |
| Prescott Lbr. Co. RFD No. 1 Amherst | S | SW & HW | X | X | X | |
| Milford | | | | | | |
| 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 |
| New Ipswich | | | | | | |
| Dudar, John Box 56, RFD No. 1 | S | SW & HW | X | X | X | X |
| Weare | | | | | | |
| Colburn, Robert | S | SW | | | | X |
| Merrimack County | | | | | | |
| Andover | | | | | | |
| Dalphond Bros., Inc. RFD No. 1 | S | SW & HW | X | | X | X |
| Boscawen | | | | | | |
| 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 |
| Bailey, Wm. G., Jr. R. 5, Penacook | B | SW & HW | X | | | |
| Steenbek & Sons, Inc. RFD No. 5, Penacook | S | SW | X | | X | |

Merrimack County (Continued)

| Town & Operator | Type of Sawmill | Kind of Logs | Stump. | Road. | Del. | Cus. |
|---|-----------------|--------------|--------|-------|------|------|
| <u>Chichester</u> | | | | | | |
| Reed, Edgar | P | SW | X | | | |
| <u>Concord</u> | | | | | | |
| Concord Lumber Co. Box 469 | S | SW | X | X | X | X |
| <u>Henniker</u> | | | | | | |
| Buxton, F. H. | B | SW & HW | X | X | | |
| Goss Lumber Co. | S | SW | X | X | | |
| Henniker Lumber Co., Inc. | S | SW & HW | X | X | X | |
| Patenaude, Barry Rush Road | S | SW & HW | X | X | X | |
| Thelvicki Corp. Henniker, N. H. Thomas Johnson, Buyer | B | HW | X | X | X | |
| Henniker Hardwood Pallet Co., Inc. Richard French, Mgr. | S | HW | X | X | X | |
| <u>Hill</u> | | | | | | |
| Robie, Robert | S | SW & HW | X | X | X | |
| <u>Loudon</u> | | | | | | |
| Berwick & Ford Lumber Co., Inc. 6 Grove St., Concord | S | SW & HW | X | | | |
| Maxfield, Ralph H. Box 30 | S | | | | | X |
| Page Lumber Co. RFD No. 8, Concord | S | SW & HW | X | X | X | X |
| <u>Pittsfield</u> | | | | | | |
| Barton Bros. | P | SW | X | | | |
| Pittsfield Box & Lumber Co. | P | SW | X | | | |
| <u>Sutton</u> | | | | | | |
| Meding, Stephen Y. Enterprises RFD, New London | S | SW & HW | X | X | X | X |
| <u>Warner</u> | | | | | | |
| Nichols, L. Earl | S | SW | | | X | |
| <u>Webster</u> | | | | | | |
| Jones, Paul S. RFD, Contoocook | B | SW & HW | X | | | |

Rockingham County

| Town & Operator | Type of Sawmill | Kind of Logs | Stump. | Road. | Del. | Cus. |
|---|------------------------|---------------------|---------------|--------------|-------------|-------------|
| <u>Atkinson</u> | | | | | | |
| Fener, Martin M. Main Street | S | SW & HW | X | X | X | X |
| <u>Brentwood</u> | | | | | | |
| Lyford, Lawrence E. RFD No. 2, Exeter | L & B | 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 | SW | X | | | |
| <u>Derry</u> | | | | | | |
| Lumbertown Stanley Yanis New Derry Road, Hudson | | SW | X | | X | |
| True & Noyes East Derry Contact: Richard M. True | S | SW & HW | X | X | X | |
| <u>East Kingston</u> | | | | | | |
| Sargent Lumber Co. Bear Hill Road Merrimac, Mass. | S | SW & HW | X | | X | |
| <u>Epping</u> | | | | | | |
| Johnson Lumber Co., Inc. 875 Elm Street Manchester, N.H. | P & S | SW | X | | X | |
| <u>Fremont</u> | | | | | | |
| Spaulding & Frost Co. Edward Jewett Vice President and General Manager | S | SW | X | X | X | |
| <u>Hampstead</u> | | | | | | |
| Collette Lumber Co. | S | SW | X | | | |
| <u>Kensington</u> | | | | | | |
| Brown, Everett W. RFD, East Kingston | L & B | SW | X | | | |
| Cole, George RFD, East Kingston | S | SW | | | | X |

Rockingham County (Continued)

| Town & Operator | Type of Sawmill | Kind of Logs | Stump. | Road. | Dél. | Cus. |
|--|------------------------|---------------------|---------------|--------------|-------------|-------------|
| <u>Kingston</u> | | | | | | |
| Cheney, R. W. & Son RFD, East Kingston | S | SW | X | | X | |
| <u>Newfields</u> | | | | | | |
| H. E. Blanchard & Sons Newington, N. H. | S | SW & HW | X | | | |
| <u>Nottingham</u> | | | | | | |
| Fernald, Frederick | B | SW & HW | X | | | |
| Fernald, James | L | SW & HW | X | | | |
| <u>Raymond</u> | | | | | | |
| Campbell, Avery | S | SW & HW | X | | | X |
| <u>Rye</u> | | | | | | |
| Rand Lbr. Co., Inc. 511 Wallis Road | S | SW & HW | X | X | X | X |
| Strafford County | | | | | | |
| <u>Barrington</u> | | | | | | |
| Clark, Melvin East Barrington | B | SW | X | | | |
| 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 | SW & HW | X | X | X | |
| <u>Middleton</u> | | | | | | |
| Diprizio, Charles & Sons, Inc. (Middletown) RFD No. 1, Union | S | SW & HW | X | X | X | X |
| <u>Milton</u> | | | | | | |
| Tibbetts Lbr. Co. Farmington | S | SW | X | X | X | X |
| <u>New Durham</u> | | | | | | |
| Bickford Bros. | S | SW | | | | X |

Strafford County (Continued)

| Town & Operator | Type of Sawmill | Kind of Logs | Stump. | Road. | Del. | Cus. |
|---|-----------------|--------------|--------|-------|------|------|
| <u>Rochester</u> | | | | | | |
| Leroy E. Allen Co. 153 Wakefield Street | P | SW | X | | | |
| Tremblay Bros. RFD No. 1, Pickering Road Gonic, N. H. | S | SW & HW | X | X | X | X |
| Hussey, Robert Flagg Road RFD, Gonic | S | SW | X | | | X |
| Sullivan County | | | | | | |
| <u>Claremont</u> | | | | | | |
| 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 |
| Red Water Lbr. Co. RFD No. 1 | S | SW & HW | X | X | X | X |
| <u>East Lempster</u> | | | | | | |
| Onnela Lbr. Co. 24 Pinnacle Rd. Newport | S | SW & HW | X | X | X | X |
| <u>Grantham</u> | | | | | | |
| Cote & Roney Lbr. Co. | S | SW & HW | X | | X | X |
| <u>Langdon</u> | | | | | | |
| Porter, George RFD, Alstead | S | SW & HW | | | X | |
| <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 | |
| <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. |
|--|---------------------|--------|-------|------|-----------------------------------|
| Maine | | | | | |
| Andover Wood Products, Inc. Andover, Tel. 34 | Y. Birch H Maple | | | X | |
| Crouse, Harry G. N. Fryeburg | SW & HW | X | X | 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 | |
| Gray, Norman Fish Street Fryeburg | SW & HW | X | | | |
| Hall & Smith Stanley Fitts Fryeburg | HW & SW | X | X | X | |
| Hammond & Son, Thomas E. Hiram | SW | X | X | X | Logs by grades |
| Hanover Dowell Mill Bethel | HW | | | X | |
| Hurd Lbr. Co. E. Lebanon | SW & HW | X | X | X | X |
| Kendall Dowell Mill W. Bethel | HW | | | X | |
| LaValley, Albert Sanford | SW | X | X | X | (Softwood roundwood for chipping) |
| Mann, Lewis & Son West Paris | SW & HW | X | X | X | |
| Maine Woods Products Corporation Gunter, Steward W., Buyer Steep Falls | HW | | | X | |
| Newton Tebetts, Inc. W. Bethel | HW | | | X | |
| Paris Mfg. Co. Henry W. Morton Box 259 South Paris | HW | X | | X | |
| Saunders Bros. Westbrook | HW | X | | X | |

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

| | Kind of Logs | Stump. | Road. | Del. | Cus. |
|--|------------------------|-----------------------------|-------------------|------|------|
| S. D. Warren Co. Westbrook Wayne Jackson David Clement | SW & HW | X (pulpwood) | | | |
| Sprang, Phillip RFD, Kennebunk | SW & HW | X | | | |
| Smith, Wilmer Fryeburg | B & L | X | | | |
| Stowel, Silk Spool Co. Bryant Pond | HW | X (boltwood and squares) | | | |
| Westonis John F. Weston Fryeburg | SW & HW | X | X (pulp and logs) | | |
| Massachusetts | | | | | |
| Bartlett, Edmund W. 240 Main Street Salisbury | SW & HW tree length | | X | X | X |
| Blair Logging 385 West Street Winchendon, Mass. | Pine | | X | 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 | | | |
| Haskell, C. M. & Sons 400 Canal St. Bernardston | SW | X | X | X | X |
| Kelleher, John C., Jr. | HW (cordwood) | | | X | |
| Vermont | | | | | |
| Adams, Geo. F. Co., Inc. Lester Adams, Buyer Moscow | Birch | | | X | |
| Batchelder, Earl Windham, Vt. | HW | | X | X | X |
| Bates, Elmer Westminster | SW | 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. | HW (Veneer) | X | X | X | |
| Brown, P. K. & Sons, Corp. Claremont, N. H. (Mill in Proctorville, Vt.) | HW | ✓ | 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 | SW & HW | | X | X | X |
| Eaton Lbr. Co. Rochester | HW | X | X | X | |
| Fournier, Arthur Chester (for Newport, N. H. mill) | SW | X | X | X | X |
| Green Mt. Box & Lbr. Corp. White River Junction | SW & HW | | | X | |
| Hanifin, Thomas E. Bellows Falls | SW & HW | X | X | X | |
| Indian Head Plywood Newport Ivan Elger (Buyer) Berlin | HW (Veneer) | X | X | X | |
| Malmquist-Wood Products Co. Post Mills | HW | | | X | |
| National Lbr. Co. Chester | SW & HW | X | X | 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 | |
| Seigny Lbr. Co. North Thetford (Box 389, Lebanon, N. H.) | SW & HW | X | X | X | X |

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

| | Kind of Logs | Stump. | Road. | Del. | Cus. |
|---|-------------------------|--------|-------|------|------|
| Smead Lumber Co. Vernon | SW & HW | X | X | X | X |
| Tri-State Timberland Corp. Hartland, Vermont | SW & HW | 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 Bldg., 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 | |
| <u>Quebec — Canada</u> | | | | | |
| Atlantic Lbr. Co. Sawyer ville 889-2644 | HW | | | X | |
| LaBranche & Son St. Isadore 658-3666 | SW & HW | X | X | X | X |
| LaLiberte Coaticook 849-4111 | HW | | | X | |
| Louzon & Son East Hereford 844-2393 | SW | X | X | X | |
| Vallee, Paul Sawyer ville 889-2777 | HW & SW | X | | X | |
| Sherbrooke Wood Products Paul Blais, Buyer Sherbrooke 567-7768 | Ash Logs | | | X | |

Portable Pulpwood Debarkers

| | |
|-------------------|-----------------------------------|
| Benjamin, Mariner | 40 East Main St., Merrimac, Mass. |
| Randall, Ralph T. | RFD No. 1, Newmarket |
| Thelvicki, Inc. | Henniker |

Planing Mills

| C — Custom | W — Wholesale only |
|-------------------------------------|-------------------------------------|
| Alden, Harold B. | C Lancaster |
| Audet Bros. | W Milan |
| Beauregard, Chas. & Sons, Inc. | W Marlborough |
| Chase, Benjamin Co. | C Derry |
| Cheney, Roland & Son | C Kingston |
| 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 |
| Davis, Jack | C RFD Lisbon |
| Davis & Symonds Lumber Co. | W Claremont |
| Demers, Warren (Portable) | C Plainfield |
| 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 |
| New Hampshire Lumber Products, Inc. | W Belmont |
| 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 |
| Red Water Lumber Co. | W Claremont |
| Rowe Lumber Co. | W Newport |
| State Line Lumber Co. | C & W Box 35, Nashua |

Planing Mills (Continued)

| | | |
|----------------------------|-------|-----------------------|
| Tibbetts Lumber Co., Inc. | W | Farmington |
| Trow, W. W. & Son | C & W | Sunapee |
| White Mt. Lumber Co., Inc. | W | E. Milan Road, Berlin |
| Williams, R. P. & Son | C | Bristol |
| 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. Wood Preserving Division | Nashua |
| New England Pole & Wood Treating Corp | Merrimack |

Wood Chipping Plants in New Hampshire

| Company | Location | Type |
|---|--------------------|-----------|
| Allen-Rogers Corp. Wentworth Division | Wentworth | 2 |
| Audet Bros. | Milan | 2 |
| Beauregard, Charles & Son, Inc. | Marlborough | 2 |
| Blanchflower Lbr. Co. | Alstead | 2 |
| Brown Co. Bldg. Materials Division | N. Stratford | 2 |
| Chocorua Valley Lumber Co. | No. Sandwich | 2 |
| Cloutier Lumber Co. | Northumberland | 3 |
| Connecticut Valley Chipping Co., Inc. | Woodsville | 1, 1a & 3 |
| Connecticut Valley Chipping Co., Inc. (Littleton Division) | Littleton | 1, 1a & 3 |
| Dalphond 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 | Ashland | 1, 1a & 3 |
| Lorden Lumber Co. | Milford | 2 |
| Miles Pond, Inc. | Whitefield | 2 |
| New England Lbr. Co., Inc. | West Ossipee | 2 |
| New England Lbr. Co., Inc. | Winchester | 2 |

Wood Chipping Plants in New Hampshire (Continued)

| Company | Location | Type |
|---------------------------------|-----------------------|--------|
| Ossipee Lumber Co. | Center Ossipee | 1 |
| Roberts Lumber Co. | Canaan | 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 | 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)

Pulpwood Buyers

| Company and Individual Buyers | Kinds of Wood Purchased |
|--|--|
| Benjamin, Mariner 40 East Main St., Merrimac, Mass. | Hardwood |
| Brown Company, Berlin Dyer, Donald, Colebrook Grella, Douglas, Bethlehem Hamlin, Mark, Berlin Monahan, Thomas, Conway Pike, William, Jr. 446 Grafton St., Berlin Renoux, John, Gorham | Spruce, fir, hemlock, tamarack, pine, beech, birch, maple, oak, elm, ash, veneer, yellow birch, basswood, poplar, and green hardwood |
| Farwell, Thomas, Wells River, Vt. | Spruce, fir, hemlock, pine, hardwood and poplar |
| Connecticut Valley Chipping Co. Littleton N. H. | Spruce, fir, hardwood |
| Beraudo, Robert RFD 2, Plymouth | |
| Franconia Paper Corp., Lincoln Comeau, Philip Star Route, Rumney Macomber, Elwin RFD 1, Plymouth Stevens, Glen, Lincoln Waldo, Henry C., Lincoln | Spruce and fir; limited amount of hemlock, pine and peeled or rossed hardwood and old rough hardwood |
| Groveton Paper Co., Groveton Subsidiary of Diamond International Haynes, Eldwood, N. Stratford Ingersoll, Laverne, Groveton Mountain, Harold, Groveton | Spruce, fir, hemlock, and hardwood |

Pulpwood Buyers (Continued)

| Company and Individual Buyers | Kinds of Wood Purchased |
|---|---|
| International Paper Co. Sawyer, Rhoades, N. Stratford | Spruce, fir (inquire direct) wood |
| Moore, George, Lebanon | Spruce, fir, hemlock, pine, peeled hardwood and peeled poplar |
| 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 hardwood, 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 |
| Lakes Region Chipping Corp., Ashland Berando, Robert RFD No. 2, Plymouth | Spruce, fir, hardwood |

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 | |
| Koppers, Co., Inc., Wood Preserving Div., Nashua | Norway (Red) pine posts |
| Merrill, Brewster Oak Street, North Conway | |
| Miner, Theodore Roxbury Road, Marlboro | Norway (Red) Pine |

Railroad Tie Buyers

| | |
|--|----------------------------------|
| Koppers Co., Inc. Wood Preserving Division, Nashua | Oak, Birch, Beech, Maple, Cherry |
|--|----------------------------------|

* 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 |
|--|---|
| Adams, Geo. F. & Co., Moscow, Vt. | — white and yellow birch bolts delivered to mill. Write for prices 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. |
| Birch, Joseph, Lyndeboro, N. H. | — birch bolts and sawlogs |
| Bixby, Ivan, Rumney | — high quality red oak, 10" min., diam. for ladder rungs. |
| Bradford Veneer & Panel Co., Bradford, Vt. | — B. E. Farr, Buyer — yellow birch and other veneer logs. Write for specifications. |
| Brock, Zack & Son, Inc., Bridgewater | — white ash and oak, 4' lumber 1¼" thick, 90% clear. 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. |
| 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 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. |
| Heberbrand, Athur D., North Haverhill, N. H. | — yellow birch, hard maple, basswood, white ash, cherry, oak, beech, soft maple on grade. Write for specifications and prices. |
| Kearsage Peg Co., Bartlett | — straight grained white and yellow birch in 4' lengths, 6" top diam. Red heart not over ⅓ 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, 6" min. diam.
- Plywood Products, Brown Company, North Stratford, N. H. — Veneer logs; write for specifications.
- 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. — Concentration Yards at S. Tamworth, N. H., Dalton, N. H., Warren, N. H.; contact Mr. Elton Perkins, Box 34, S. Tamworth, N. H., or Mr. Hugh Hastings, Fryeburg Me. — birch logs 39", 48", 59", lengths; min. 3" white wood around red heart, also beech, maple and elm.
- 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 Bldg. Inc., Hartland, Vt. — white and red pine, 8"-10" 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.

THE UNITED STATES SITUATION CHRISTMAS TREE TRENDS

The Christmas tree industry has experienced a sizeable growth and many changes in twenty years, according to the American Forest Institute of Washington, D. C., the information and education arm of the forest industry.

About 45 million trees will be displayed in American homes, businesses, schools and churches during this year's Yule celebration—15 million more than in the late 1940's. The trees' retail value is estimated at more than \$160,000,000. By 1975, with the predicted growth in population, the market for Christmas trees will have increased by seven million.

More trees are coming from planned, planted and well-managed Tree Farms than from nature's own wild lands. The American Forest Institute is the national sponsor of the American Tree Farm System.

A survey is presently under way by the U.S. Department of Agriculture's Forest Service to determine the tree-buying habits of America's

50 million families to help growers and distributors meet the nation's demand. The research will help eliminate an annual waste in excess of \$10,000,000 which results from shortages and surpluses of trees in various areas of the nation.

The research has already revealed that the tree's appearance is the most important criterion for a consumer choosing a tree. Recently, buyers have shown a marked preference for sheared, well-shaped trees, even though the wild, unkempt kind may be traditional in their area.

Buyers also select trees on the basis of size, fullness, straightness of stem, needle retention capacity, color and freshness. Most buyers choose trees that are symmetrical and uniformly full all around. They require straight-trunked trees to facilitate placing in a stand.

Housewives like trees whose needles stay on the tree throughout the holiday season. Freshly cut, fragrant, healthy green trees appeal on this basis. Needle length, stiffness and sharpness also play a role at selection time. Buyers prefer medium-length needles.

CHRISTMAS TREE PRODUCTION IN NEW HAMPSHIRE 1969

In general, Christmas tree production and sales in New Hampshire during 1969 were considered good. Sales were up and prices remained about the same as last year except for heavily sheared balsam which were priced higher.

The Christmas tree season in northern New Hampshire began hurriedly in early November because of an unusual snow fall in late October which meant for most growers the beginning of another early, heavy snow year. However, the weather remained mild for several weeks after the first snow and Christmas tree cutting proceeded at above normal pace. This accounted for the increase in production as well as the fact that many trees cut this year were those that were ripe for last year's harvest but because of heavy snow were not cut.

Southern New Hampshire also enjoyed a good season. The choose and cut method of selling trees worked well again for plantation owners who live near metropolitan areas. This method of selling should be considered by anyone whose plantation is within an hour's drive of a city or town or along well traveled routes leading to ski areas and recreational home sites. The profits derived through this method of selling are higher since the plantation owner sells at retail prices and the season never ends with a bunch of cut unsold trees.

The sale of Christmas wreaths, sprays and other season decorations also remained about the same. Most of these products are being produced in northern New Hampshire where it often becomes a family project but should be encouraged anywhere in the state. The demand for such products have been increasing steadily. However, markets for these products should be secured before production begins.

Christmas Tree Dealers and Producers

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

- Anderson, Henry A., State Line (c)
Arsenault, Oliver, RFD 1, N. Stratford (c)
Bachelder, Stewart, Clarksville (P.O. Pittsburgh) (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, Pittsburgh (P.O. Beecher Falls, Vt.) (c)
Beloin, Germain, RFD, Colebrook (c)
Bessett, Alex, RFD 2, N. Stratford (c & b)
Blood, Edward, Durham, N. H. (c)
Boothman, John, Randolph (c)
Bradley, Walter (Mrs.), RFD, Whitefield (c)
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)
Chappell, Colon, Pittsburgh (c)
Chappell, Fay, Pittsburgh (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., Colebrook (c)
Couture, Wilfred, P.O. RFD No. 1, Jefferson (c & b)
Cree, Leighton, Colebrook (c)
Danforth, Benjamin, Colebrook (c)
Day, M. Eva, West Stewartstown (c, b & w)
Day, Louis, West Stewartstown (b & c)
Dearborn, Richard, RFD No. 3, Plymouth (c)
Deblois, Paul, 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, Groveton (c)
Fitts, Perley, Durham, N. H. (c)
Ferguson, 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)
Goodwin, Clyde, RFD 1, Colebrook (c)
Goodrum, Hazen, RFD 1, Colebrook (c & b)
Goodrum, Monty, Colebrook
Gorman, Redmon, RFD, Colebrook (c, b & w)
Gray, Tabor, Pittsburg (P.O. Beecher Falls, Vt.) (c)
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)
Gustavson, Sten C., Pike (b)

Haynes, Orville, RFD No. 1, Colebrook (s)
 Hayward, Robert, Sugar Hill (c & b)
 Henson, Everett, N. Haverhill, N. H. (c)
 Hollingsworth, Schuyler, RFD 2, Peterborough (c)
 Hughes, Thomas and Wendall, RFD, North Stratford (c & b)
 Huggins, Harry, Pittsburgh (c & b)
 Hyde, John L., 6 Columbus Avenue, Concord (c)
 Jackson, Charles, Colebrook (c)
 Jackson, Frank, 59 Prospect St., Lebanon (c)
 Jacques, Nelson, Plymouth (c)
 Johnson, Arthur, 404 Winnicunnett Rd., Hampton (c & r)
 Keach, Douglas, 747 Beech Street, Manchester (c)
 Keller, John, Bethlehem (c)
 Ladd, Robert, Lancaster (c, s & 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)
 Marchessault, Lorrainy, RFD, Colebrook (c & b)
 Marquis, Leon, Pittsburg (P.O. Beecher Falls, Vt.) (c)
 Maurais, Raymond, RFD, Colebrook (c)
 McAllaster, Roger & Shirley, Stewartstown (P.O. RFD No. 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)
 Nimms, Everett, Keene (c & f)
 Nottingham, Evelynene, RFD, East Rindge (c & r)
 Northrup, Sydney, N. Rd., Brentwood, P.O. RFD, Exeter (c & r)
 Noyes, Chester, RFD 1, Colebrook (c)
 Noyes, David R., RFD, Gossville (c)
 Olsen, Morris, N. Haverhill (c)
 Oleson, Norman, RFD 1, Jefferson (c)
 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)
 Placey, Claude, RFD No. 1, Lancaster (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)
 Reynolds, William N., Stratford (c)
 Ricard, James, Canaan (c)
 Riley, Gilbert, Milford (r)
 Roberts, George, Gilmanton (c & r)

Robertson, Phil, Prime Tree Co., Franconia (c)
 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)
 Schwarz, George, Orford (c & b)
 Sibulkin, Jason, Colebrook (c)
 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)
 Struhacker, Philip, Flintlock Lodge, Franconia (c)
 Tatham, Donald A., Orford (c & b)
 Taylor, Sidney J., Contootook (c & r)
 Thibeault, Joseph, Hall Stream (P.O. Beecher Falls, Vt.) (c)
 Tyler, George, Monroe (c)
 Vail, 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, Harlie, Colebrook (c)
 Wheeler, Claude, Hall Stream (P.O. Beecher Falls, Vt.) (c, b, & w)
 Wheeler, Leonard, Beecher Falls, Vt. (Bishop Brook Road, N. H.) (c)
 Wheeler, Raymond, Pittsburgh (P.O. Beecher Falls, Vt.) (c)
 Weyant, 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)
 Zalbielski, Joseph, Winchester (c)

Christmas Tree Truckers (Partial List)

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

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:

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. Forest Management plan 2. Timber & timber land appraisal 3. Income tax assistance (timber depletion) 4. Timber sales & supervision 5. Timber marking 6. Timber stand improvement work (weeding, thinning, pruning) 7. Tree planting | <ol style="list-style-type: none"> 8. Approved vendor for ACP Forestry practices 9. Forest land survey 10. Title and boundary search 11. Recreational development 12. Laying out and supervision of woods road construction 13. Owners or operators representative in trespass cases 14. Licensed real estate brokers |
|--|--|

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

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

Berti, Robert J., RFD 1, Rumney — 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13.

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

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.

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

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

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.

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

Hall, Samuel, West Plymouth — 1, 2, 4, 9, 10, 11, 12, 13.

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

Herr, C. S., 15 Cedar Street, Berlin — 1, 2, 4.

House, William P., RFD, 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., RFD, Center Harbor (Sandwich) — 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14.

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

Kinder, Richard G., RFD, Pike — 4, 5, 6, 8, 9.

Knickerbocker, Gerald C., Lake Spofford Realty, Spofford 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, 12, 13, 14.

Marshall, Raymond H., Mann's Hill Road, Littleton — 2, 4, 5, 6, 7, 8, 9, 10, 13.

Morse, John H., P.O. Box 65, Wilmot, N. H. — 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13.

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.
 Plumb, Allan W., Box 12, Marlow, N. H. — 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14.
 Poppema, Donald, RFD No. 1, Center Barnstead, N. H. — 1, 2, 3, 4, 5, 6, 7, 8, 9,
 10, 11, 12, 13.
 Rastallis, Stanley J., RFD No. 1, Box 227, Newport — 1, 2, 3, 4, 5, 6, 7, 8, 9, 10,
 11, 12, 13.
 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.

Partial List of Industrial and Municipal Foresters Employed in New Hampshire

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

D. Grella
 G. L. MacIntosh
 C. W. Rand
 D. Dyer

Dartmouth College, Hanover
 Robert S. Monahan

Draper Division, North American Rockwell Corp., Beebe River
 John French Richard Dearborn David Ash

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

Groveton Paper Company, Subsidiary of Diamond International Corp., Groveton
 Harold S. Mountain Louis Ruch Collin Sutherland
 Laverne Ingersoll James Bryan Eldwood Haynes

International Paper Co., North Stratford
 Rhoades F. Sawyer

Manchester Water Works, Manchester
 Aldis J. Christie

David & Symonds Lumber Co., Claremont
 Blynn Merrill

Oxford Paper Co., School Street, Concord
 Richard Ashton

St. Regis Paper Co., West Stewartstown
 George D. Gates Frederick W. Cowan Peter Ludwig
 David B. Strathdee Philip Nowell

Wagner Woodland & Co., Lyme
 Robert Berti

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.
- Bean, William, RFD No. 2, Box 205B, Dover, N. H.
- Bean, Wm. Jr., Amherst, N. H.
- Bennett Harry J., RFD No. 3, Winchester, N. H.
- Carlson, Walter Jr., Timberland Improvement Co., Wolfeboro, N. H.
- Day, Lewis C., High Street, West Stewartstown, N. H.
- Dundee Management Corp., Box 101, Jackson, N. H.
- Garneau, Leo, Box 148, Lowell, Mass.
- Grafton Tree Farm Service, Pike, N. H.
- Klear-Wood Inc., Wilmot, N. H.
- Loiselle, Bob, RFD No. 2, Box 205B, Dover, N. H.
- Meador, Bernard S., RFD No. 5, Penacook
- Neff, Thomas, RFD No. 2, Box 205B Dover, N. H.
- Olson, Kurt, RFD, Nashua, N. H.
- Philbrick, Walter, 99 Fair Street, Laconia, 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.

HARDWOOD LUMBER STANDARD GRADES

Hardwood lumber grades are a means of measuring quality of lumber. They provide the buyer and seller with a "yardstick" for measuring quality and enable the purchaser to buy the grade or grades which best suit his needs.

With some exceptions hardwood lumber is graded on the basis of the size and number of cuttings (pieces) which can be obtained from a board when it is cut up and used in the manufacture of a hardwood product such a furniture, flooring, or interior house trim. Usually we are interested only in the clear material in a board so the best grade would have the largest area of usable material. When cut up for re-manufacture nearly all of this best grade could be used in a small number of large-sized cuttings, while lower grade boards would produce smaller-sized cuttings.

Standard Grades

F.A.S.—Firsts and Seconds are usually combined as one grade.

No. 1. Common and Better—The full run of the logs with all grades below No. 1 Common excluded.

No. 2 Common and Better—(Log Run)—The full run of the logs, excluding all grades below No. 2 Common as defined for the various species under "Standard Inspection".

No. 3B Common and Better (Mill Run)—The full run of the logs; below grade lumber excluded.

No. 3A Common and 3B Common may be combined as No. 3 Common and when so combined and specified shall be understood to include all the No. 3A Common that the logs produce.

Hardwood Grading Terms

Definition of Terms—Lumber grading cannot be understood or practiced until the individual knows and understands the terminology. The following are some basic definitions.

Board Foot—Bd.Ft. A board foot is the unit of measurement of lumber. A board foot is one foot long, one foot wide and one inch thick, or its equivalent. The formula for determining board feet in a board is:

1. Thickness in inches X width in inches X length in feet \div 12

$$1'' \times 12'' \times 12' \div 12 = 12 \text{ bd. ft.}$$

$$1'' \times 6'' \times 16' \div 12 = 8 \text{ bd. ft.}$$

$$2'' \times 8'' \times 12' \div 12 = 16 \text{ bd. ft.}$$

Surface Measure—S.M. The surface area of a board in square feet. To determine surface measure multiply the width of the board in inches and fractions by the length in feet, and divide the product by 12.

1. Width in inches X length in feet \div 12

$$6'' \times 8' \div 12 = 4 \text{ ft. surface measure}$$

$$6'' \times 12' \div 12 = 6 \text{ ft. surface measure}$$

Cutting: A portion of a board or plank that would be obtained by cross-cutting, ripping, or both. Diagonal cuttings are not permitted. Cuttings in the Common grades shall be flat enough to surface two sides to standard surface thickness after they have been removed from the board. In the grades of Firsts, Seconds and Selects, the board as a whole shall be sufficiently flat to permit surfacing to standard surface thickness.

Clear Face Cutting: A cutting having one clear face (ordinary season checks are admitted), and the reverse side sound as defined in Sound Cutting. The clear face of the cutting shall be on the poor side of the board, except when otherwise specified.

Sound Cutting: A cutting free from rot, pith, shake and wane. Texture is not considered. It will admit sound knots, bird pecks, stain, streaks, or their equivalent, season checks not materially impairing the strength of a cutting, pin, shot, and spot wormholes. Other holes $\frac{1}{4}$ " or larger are admitted, but shall be limited as follows: One $\frac{1}{4}$ " hole in average diameter in each cutting less than 12 units (144 square inches); two $\frac{1}{4}$ " holes or one $\frac{1}{2}$ " hole to each 22 units (144 square inches) and on one side only of a cutting.

Cutting Unit Method: A cutting unit is 1' wide and 1' long. A square foot (144 square inches) of surface area would contain 12 cutting units. Cutting units are used in determining the grade of a board and are obtained by multiplying the width in inches and fractions thereof by the length in feet and fractions thereof. First and Seconds (FAS) require the greatest number of cutting units and 3B Common the least number of cutting units.

Lumber Thickness: Lumber 1" and thicker may be expressed in quarter inches such as 1" — $\frac{4}{4}$; $1\frac{1}{4}$ " — $\frac{5}{4}$; — $1\frac{1}{2}$ " — $\frac{6}{4}$, etc.

In addition to the preceding terms, there are three tree structure terms frequently referred to:

Sapwood: The light colored living wood near the outside of the tree.

Heartwood: The central part of the tree from the center to the sapwood.

Pith: The small, soft core occurring in the structural center of the tree. There are also certain physical conditions which at times may be defects and will result in a lower grade of lumber than that indicated by the clear area of the board. The following is a list of these conditions which the grader must take into account:

Season Checks: Ordinary season checks are admitted in clear-face cuttings. Season checks that do not impair the strength are admitted in Sound Cuttings and Construction Grades.

Sapwood—Heartwood: Unlimited sapwood or heartwood is admitted except as otherwise specified. Contracts for special grades under a heartwood or sapwood specification shall state the maximum or minimum percentage desired and how it shall be calculated.

Stain: Stain shall not be admitted unless it will dress out in surfacing to standard thickness for surfaced lumber, except in grades of

wood where the rules specifically state that stain is admitted. Stain, including spots in which the disintegration has not proceeded far enough to soften or otherwise change the hardness of the wood perceptibly, will be admitted in grades of species where the rules specifically state stain is admitted or in grades of species specifying Sound Cuttings.

Streaks and Spots: Mineral streaks and spots, and streaks and spots of similar nature, will be admitted in the cuttings unless otherwise specified in the grading rules for the respective species. Mineral streaks are a discoloration of undetermined cause—particularly in hard maple. These streaks usually contain accumulations of mineral matter. Piling sticker marks showing a variation in color but not containing stain will be admitted.

Burls: A burl is a swirl or twist in the grain of the wood which usually occurs near a knot but does not contain a knot. Those containing sound centers are admitted in the cuttings, except when otherwise specified.

Warp: Any variation from a true plane surface. Warp includes bow, crook, cup, twist or any combination thereof.

Wane: Bark or lack of wood.

Shake: A lengthwise separation of the wood which occurs usually between and parallel to the rings of annual growth.

Splits: A lengthwise separation of the wood due to tearing apart of the wood cells.

Decay: A disintegration of the wood due to the action of wood destroying fungi. The words "dote" and "rot" mean the same as decay.

1. Incipient decay is the early stage of decay in which the disintegration has not proceeded far enough to soften or otherwise change the hardness of the wood perceptibly. It is usually accompanied by a slight discoloration or bleaching of the wood.
2. Advanced (or typical) decay is the older stage of decay in which the disintegration is readily recognized because the wood has become soft and spongy, stringy, pitted or crumbly. Decided discoloration or bleaching of the rotted wood is often apparent.
3. A rot pocket is typical decay which appears in the form of a hole, pocket, or area of soft rot surrounded by apparently sound wood.

Lumber Manufacture

Lumber should be properly manufactured of good average widths and lengths. It should be edged and trimmed carefully to produce the best possible appearance while conserving the usable product of the log. Lumber shall be of standard thickness with the exception that the percentage not included in the required cuttings may be scant in thickness, provided the cuttings are of standard thickness and there is no greater variation in the thickness of the board than is allowed in the rule describing miscut lumber.

Miscut Lumber

Miscut lumber is rough lumber having greater variation in thickness, except as to wane, between the thinnest and thickest points than shown in the following table. The lumber shall be measured for thickness at the thinnest cutting used in establishing the grade and classed miscut.

$\frac{1}{8}$ " in thicknesses of $\frac{1}{2}$ " or less
 $\frac{3}{16}$ " in thicknesses of $\frac{5}{8}$ " and $\frac{3}{4}$ "
 $\frac{1}{4}$ " in thicknesses of $\frac{4}{4}$ " to $\frac{7}{4}$ "
 $\frac{3}{8}$ " in thicknesses of 2" to $3\frac{1}{2}$ "
 $\frac{5}{8}$ " in thicknesses of 4" to 6"

Lumber Measurement and Tally

Random width lumber of standard grades and thicknesses shall be tallied surface measure and this tally shall be the number of feet, board measure of 1" lumber. In lumber thicker than 1" the tally is multiplied by the thickness as expressed in inches and fractions of an inch. Lumber less than 1" thick shall be counted surface measure.

In lumber measured with a board rule, random width pieces measuring to the even half foot shall be alternately counted as of the next higher and lower foot counts; fractions below the half foot shall be dropped and fractions above the half foot shall be counted as of the next higher foot. On pieces measuring to the even half foot, the grade requirements shall be based on the lower foot count. Fractional lengths in standard grades shall be measured as of the next lower standard length.

Tapering lumber in standard lengths shall be measured one-third the length of the piece from the narrow end.

Grading Lumber

Lumber is inspected and graded as the inspector finds it, of full length, width and thickness. No allowance is made for the purpose of raising the grade, except that in rough stock defects which can be removed by surfacing to standard rough thickness shall not be considered.

The grade shall be determined from the poor side of the piece, except when otherwise specified.

The grading rules define the poorest piece acceptable in any given Standard or Special grade, and all pieces up to the next higher grade will be included in the grade.

The basic or standard hardwood lumber grades are based on the number and size of cutting (pieces) which can be taken from a board. The minimum size of cuttings permitted vary with each grade. A specific minimum percent of the board must be obtained in the number of clear-face or sound cuttings permitted. The number of cuttings permitted will vary according to the grade and surface measure of the board. The grading rules also specify the minimum size board which will be permitted in each grade.

Each of the items mentioned above will be considered separately. They are basic to inspecting lumber and are incorporated in the mechanics of grading every board.

Minimum size board permitted in each grade

Firsts and Seconds (FAS)—6" wide and 8' long

Selects—4" wide and 6' long

No. 1, 2, 3A, 3B Common and Sound Wormy—3" wide and 4' long

Number of Units of Clear-Face Cuttings Required for Each Grade of Lumber

The total number of cutting units in a board can be obtained by multiplying the surface measure (S.M.) by 12. The number of clear-face cutting units needed for a given grade is obtained by multiplying the surface measure by the fractional part of $\frac{12}{12}$ which equals the desired percentage.

Determination of cutting units needed for each grade when grading a given board is as follows:

FAS (First and Seconds)

Firsts, $91\frac{2}{3}\%$ or $\frac{11}{12}$ —S.M. x 11.

Seconds, $83\frac{1}{3}\%$ or $\frac{10}{12}$ —S.M. x 10.

Selects—2' and 3' surface measure that will yield $91\frac{2}{3}\%$ ($\frac{11}{12}$) clear-face in one cutting with the reverse side sound as defined in sound cutting; 4' and over surface measure—one face must grade $83\frac{1}{3}\%$ clear as required for Firsts and Seconds, the reverse side of the FAS cuttings sound as defined in sound cutting or the other face grading not below No. 1 Common. The reverse side of the cuttings in FAS and No. 1 Common are not required to be sound.

No. 1 Common— $66\frac{2}{3}\%$ or $\frac{8}{12}$ —S.M. x 8.

No. 2 Common—50% or $\frac{6}{12}$ —S.M. x 6.

Sound wormy—See #1 Common for number of sound wormy cutting units.

No. 3A Common— $33\frac{1}{3}\%$ or $\frac{4}{12}$ —S.M. x 4.

No. 3B Common—25% or $\frac{3}{12}$ —S.M. x 3.

Number of Clear-Face Cuttings Permitted in Each Grade

The number of clear-face cuttings allowed for each grade in any given board can be determined as follows: In each case all fractions are dropped and the lowest whole number of cuttings permitted.

1. FAS—For $83\frac{1}{3}\%$ or $\frac{10}{12}$ —S.M. \div 4. Maximum number allowed—4. Boards of 6' to 15' S.M. will admit 1 additional cutting if yield can be raised to $91\frac{2}{3}\%$ ($\frac{11}{12}$) in clear-face cuttings. Admits also pieces 6" to 7" wide of 6' to 10' surface measure and pieces 8" to 9" wide of 7' to 12' surface measure that will yield 97% in two clear-face cuttings of any length, full width of the board.
2. Selects—Boards of 2' and 3' S.M.— $91\frac{2}{3}\%$ ($\frac{11}{12}$) in one cutting. Boards 4' S.M. and over $83\frac{1}{3}\%$; S.M. \div 4 on the good face, maxi-

imum number allowed—4. The reverse side No. 1 Common (S.M.+1) \div 3, maximum number allowed—5.

3. No. 1 Common, 66 $\frac{2}{3}$ % or $\frac{8}{12}$ —(S.M. + 1) \div 3. Maximum number allowed—5. Boards of 3' to 7' S.M. will admit 1 additional cutting if yield can be raised to 75%—($\frac{9}{12}$) in clear-face cuttings.
4. No. 2 Common 50%—($\frac{9}{12}$) S.M. \div 2. Maximum number allowed—7. Boards of 2'-7' S.M. will admit 1 additional cutting if yield can be raised to 66 $\frac{2}{3}$ % ($\frac{8}{12}$) in clear-face cuttings.
5. Sound Wormy—Shall grade not below No. 1 Common except that the natural characteristics of worm holes, bird pecks, stain, sound knots not exceeding $\frac{3}{4}$ " in diameter, and other sound defects which do not exceed in extent or damage the defects described are admitted in the cuttings. Unless otherwise specified, Sound Wormy shall include the full product of the log in No. 1 Common and Better Sound Wormy.
6. No. 3A Common—No limit to number of clear-face cuttings. Also admits pieces which grade not below No. 2 Common on the better face, the reverse side of the cuttings sound.
7. No. 3B Common—No limit to number of sound cuttings.

Minimum Size Clear-Face Cuttings Permitted

1. FAS—4"x5' or 3"x7'.
2. Selects—4"x5' or 3"x7' on FAS face.
3. No. 1 Common—4"x2' or 3"x3'.
4. No. 2 Common—3' or 2'.
5. Sound Wormy—Same as in No. 1 Common.
6. No. 3A Common—3"x2'.
7. No. 3B Common—sound cuttings 1 $\frac{1}{2}$ " and wider containing at least 36 sq. in. of surface area.

The following are the successive steps in grading lumber:

1. Determine species.
2. Determine Surface Measure using lumber scale stick.
3. Determine poor side of board. The grade shall be determined from the poor side of the board, except when otherwise specified.
4. Assume grade of board.
5. Determine number of cuttings permitted in assumed grade.
6. (Remember minimum size of cuttings required for each grade.)
7. Determine clear-face cutting units needed.
8. Determine area of permitted clear-face cuttings in units.

9. If board does not yield sufficient clear-face cutting units of the right size and number of cuttings, try next lower grade.
10. Tally S.M. by grade and thickness on basis of 1" lumber as follows: Random width of standard grades and thicknesses shall be tallied surface measure and this tally shall be the number of feet, board measure, of 1" lumber. In lumber thicker than 1" the tally so obtained is multiplied by the thickness as expressed in inches and fractions of an inch.

Example: For $\frac{5}{4}$ lumber, add $\frac{1}{4}$; for $\frac{6}{4}$ lumber add $\frac{1}{2}$; for $\frac{8}{4}$ lumber multiply by 2. Lumber less than 1" thick shall be measured and tallied as 1" lumber.

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 | Yd. | = | 1,609.34 m. |
| | | | Mile | = | 1.6093 km. |
| | | | Mile | = | |

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. | = | 2.3877 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. | 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 |