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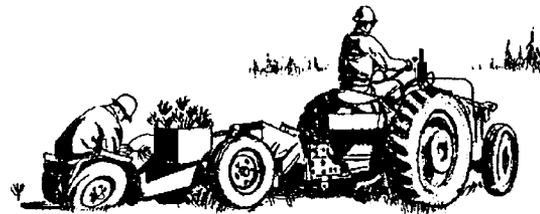
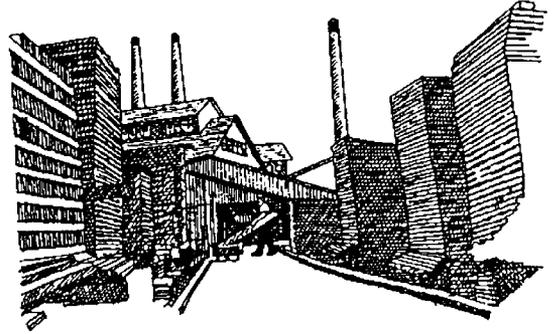
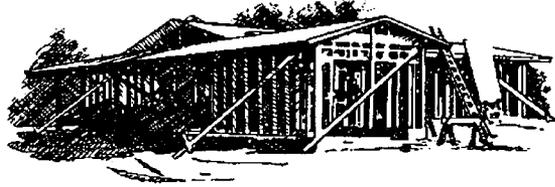
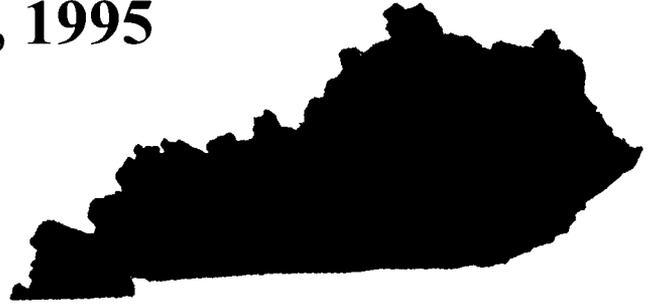
Forest Service

Kentucky's Timber Industry—An Assessment of Timber Product Output and Use, 1995

Southern
Research Station

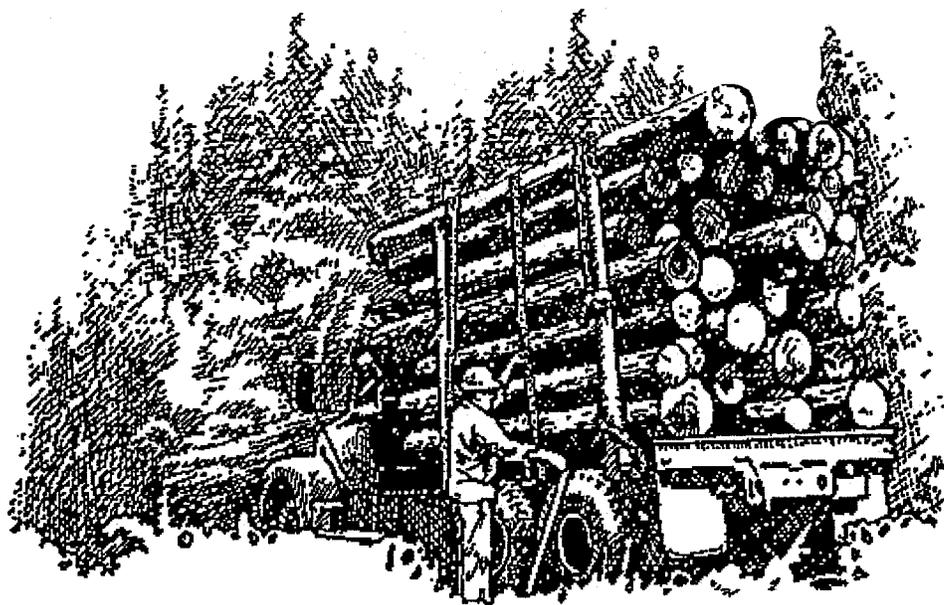
Resource Bulletin
SRS-20

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Foreword

This report contains the findings of a 1995 canvass of all primary wood-using plants in Kentucky and presents changes in product output and residue use since 1986. It complements the Forest Inventory and Analysis (FIA) periodic inventory of volume and removals from the State's timberland. The canvass was conducted to determine the amount and source of wood receipts and annual timber product drain by county in 1995 and to determine interstate and cross-regional movement of industrial roundwood. Only primary wood-using mills were canvassed. Primary mills are those that process roundwood in log or bolt form or as chipped roundwood. Examples of industrial roundwood products are saw logs, pulpwood, veneer logs, poles, and logs used for composite board products. Mills producing products from residues generated at primary and secondary processors were not canvassed. Trees chipped in the woods were included in the estimate of timber drain only if they were delivered to a primary domestic manufacturer.

A 100-percent canvass of all wood processors in Kentucky was conducted in 1996 to obtain information for 1995. In addition, roundwood from out-of-State mills known to be using logs or bolts harvested from Kentucky

timberland was incorporated into Kentucky production estimates. Each mill was canvassed by mail or through personal contact at plant locations. Telephone contacts followed mailed questionnaire responses when additional information or clarification of response was necessary. Surveys for all timber products other than pulpwood began in 1948 and beginning in 1996 will be conducted every year.

Pulpwood production data were taken from an annual canvass of all southeastern pulpmills, conducted in cooperation with the American Pulpwood Association. Medium density fiberboard, insulating board, and hardboard plants were included in this survey.

The Southern Research Station gratefully acknowledges the cooperation and assistance provided by the Kentucky Department of Forestry in collecting mill data. Appreciation is also extended to forest industry and mill managers for providing timber products information. The information in this report is based on responses from all mills operating in 1995: 2 pulpmills, 3 veneer mills, 1 composite panel mill, 19 mills manufacturing other industrial products, and 376 sawmills. These mills accounted for 100 percent of the 1995 mill receipts.

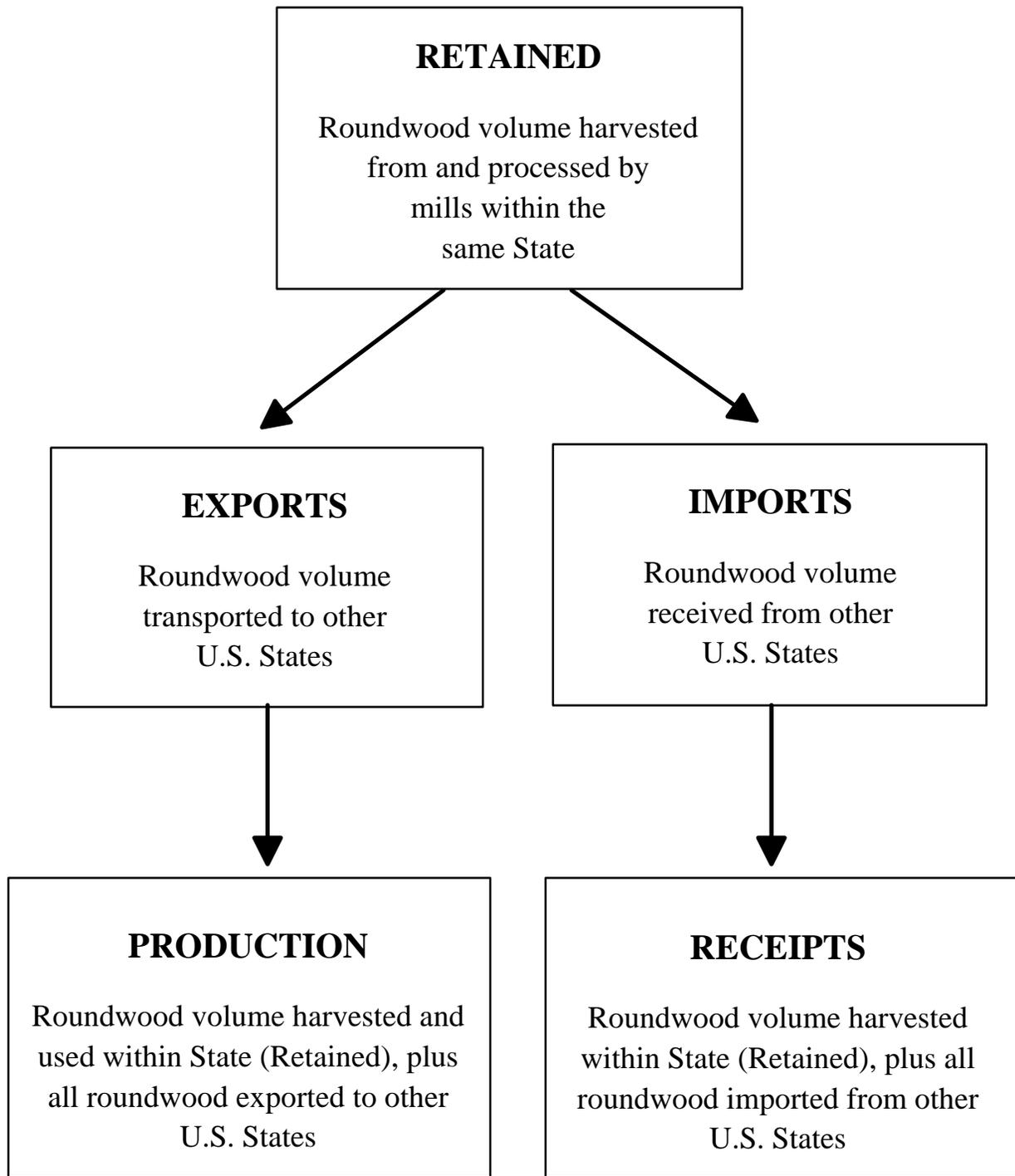


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^a All tables in this report are available in Microsoft® Excel workbook files. Upon request, these files will be supplied on 3½-inch diskettes.

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Production = Retained + Exports

Receipts = Retained + Imports

Figure 1—Movement of roundwood exports and imports within the United States.

Kentucky's Timber Industry— An Assessment of Timber Product Output and Use, 1995

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Output of Industrial Timber Products

Note: The reader must understand that certain terms, namely—retained, export, import, production, and receipts—have specialized meanings and relationships unique to the Forest Inventory and Analysis Units across the country that deal with timber products output (fig. 1).

- Between 1986 and 1995, the combined industrial timber products output (TPO) from roundwood and plant byproducts increased 50 percent from 197 to 296 million cubic feet.
- Timber products output from roundwood was up 49 million cubic feet, or 35 percent, to 186 million cubic feet, while output of plant byproducts increased 50 million cubic feet to 110 million cubic feet.
- Output of hardwood roundwood products increased 39 percent to 175 million cubic feet, while output of softwood roundwood products declined 7 percent to 11 million cubic feet (fig. 2).
- Saw logs and pulpwood were the principal roundwood products in 1995. Combined output of these two products totaled 182 million cubic feet and accounted for 98 percent of the State's total roundwood output (fig. 3).
- Total receipts at Kentucky mills, which included roundwood harvested and retained in the State and roundwood imported from other States, increased 43 percent to 212 million cubic feet. At the same time, the number of primary roundwood-using plants in Kentucky declined from 435 in 1986 to 401 in 1995.

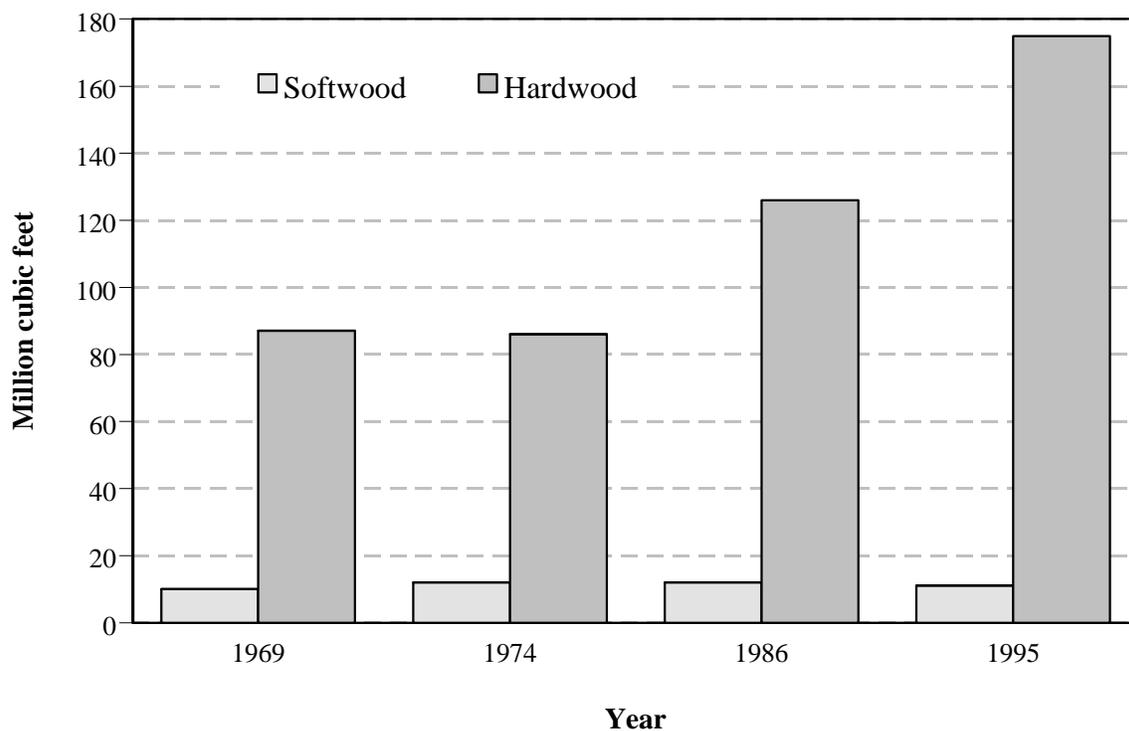
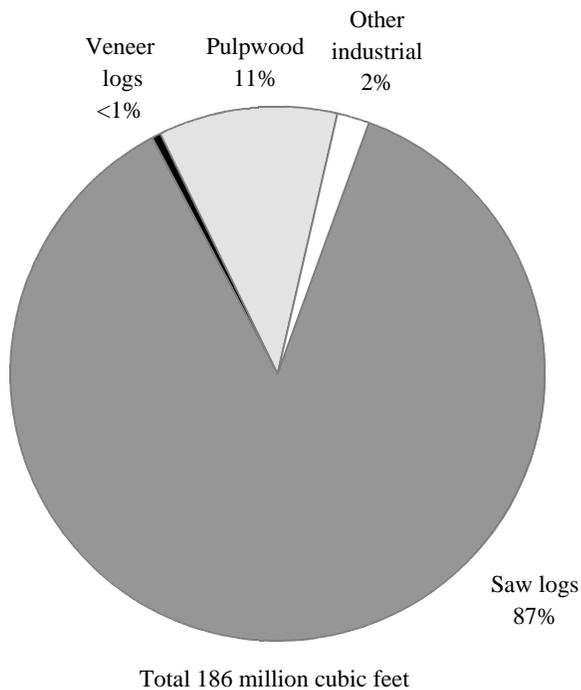


Figure 2—Roundwood production for all products by species group and year.



Saw Logs

- Saw logs accounted for 87 percent of the State's total roundwood products. Output of hardwood saw logs increased 42 percent to 155 million cubic feet (947 million board feet), while that of softwood saw logs declined 17 percent to 6 million cubic feet (33 million board feet) (fig. 4).
- Kentucky currently has 376 sawmills, a net loss of 32 mills since 1986. Despite this decline in sawmills, total saw-log receipts increased 58 million cubic feet to 172 million cubic feet. Softwood saw-log receipts remained stable at 7 million cubic feet, while those of hardwoods increased 54 percent to 165 million cubic feet. Of the operating mills, 45 percent had receipts less than 1 million board feet, 38 percent had receipts between 1 and 4.99 million board feet, while 17 percent had receipts of 5 million board feet or greater.
- Kentucky retained 99 percent of its saw-log production for domestic manufacture, with saw-log imports exceeding exports by 11 million cubic feet in 1995.

Figure 3—Roundwood production by type of product, 1995.

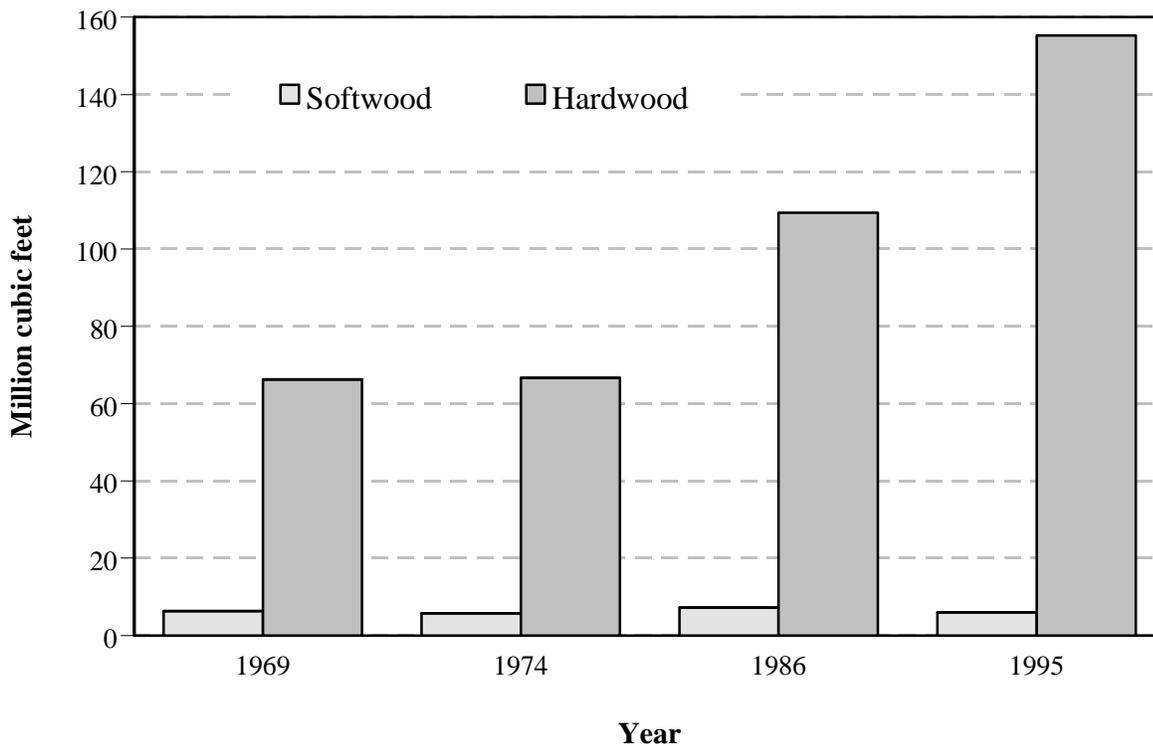


Figure 4—Roundwood saw-log production by species group and year.

Pulpwood

- Pulpwood production increased 6 million cubic feet to 20 million cubic feet and accounted for 11 percent of the State's total roundwood TPO. Hardwood output increased 40 percent to more than 17 million cubic feet (224 thousand cords), while softwood output increased 53 percent to more than 3 million cubic feet (47 thousand cords) (fig. 5).
- Two pulpmill facilities were operating and receiving roundwood in Kentucky in 1995, the same as in 1986. Total pulpwood receipts for these mills increased 5 million cubic feet to 34 million cubic feet, accounting for 16 percent of total receipts for all mills.
- More than 55 percent of roundwood cut for pulpwood was retained for processing at Kentucky pulpmills. Roundwood pulpwood accounted for 80 percent of total known exports and 62 percent of total imports. Roundwood pulpwood imports amounted to 23 million cubic feet, 14 million cubic feet more than was exported.

Veneer Logs

- Output of veneer logs in 1995 was down by 48 percent and totaled 1 million cubic feet (6 million board feet), all of which was hardwood (fig. 6). Veneer-log production accounted for less than 1 percent of the State's total roundwood TPO volume.
- Three veneer mills operated in Kentucky in 1995, the same as in 1986. Total receipts of veneer logs increased almost fivefold from 0.3 to 1.5 million cubic feet.
- Kentucky retained 48 percent of its veneer-log production for processing at domestic veneer mills. Imports amounted to 1 million cubic feet, while exports totaled 0.5 million cubic feet, making the State a net importer of roundwood veneer logs.

Other Industrial Products

- Roundwood harvested for other industrial uses such as composite panels, poles, posts, mulch, firewood, and all other industrial products totaled 4 million cubic feet and accounted for about 2 percent of the State's total timber products output. Softwood made up 51 percent of the other industrial product volume (fig. 7).

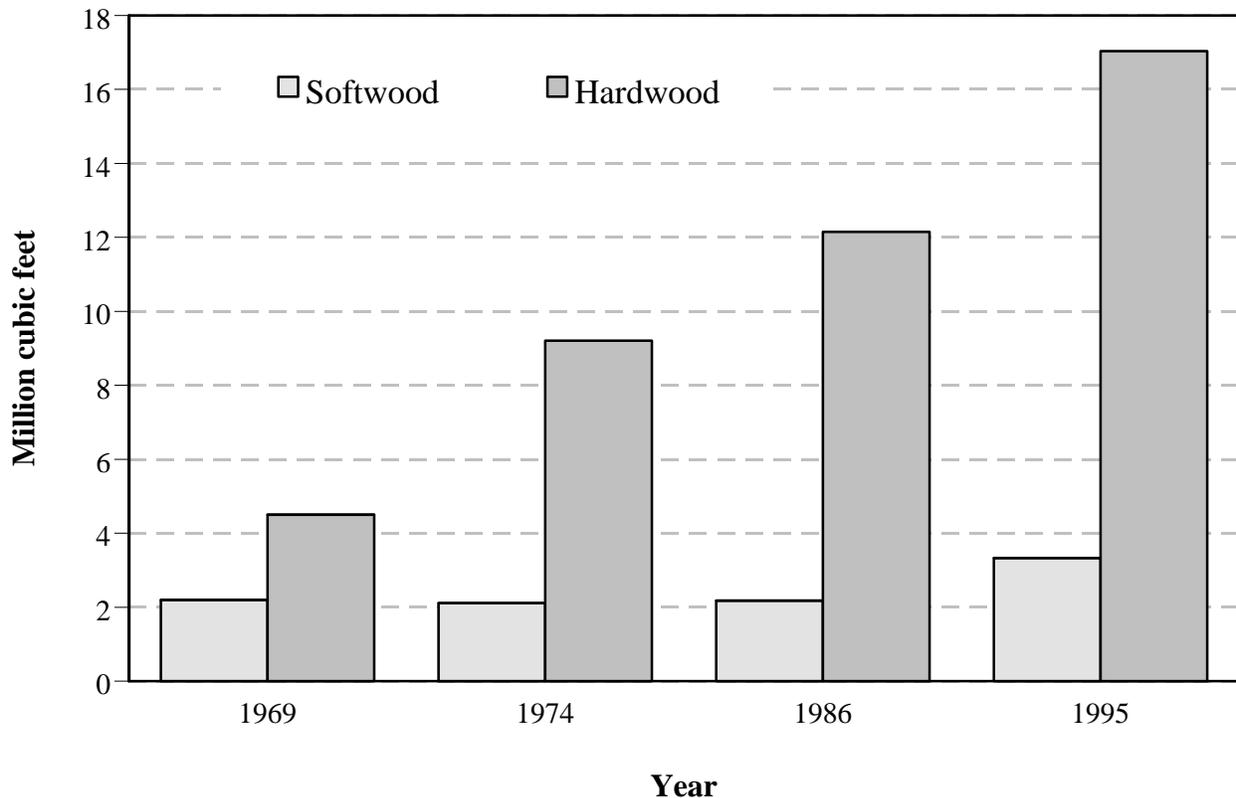


Figure 5—Roundwood pulpwood production by species group and year.

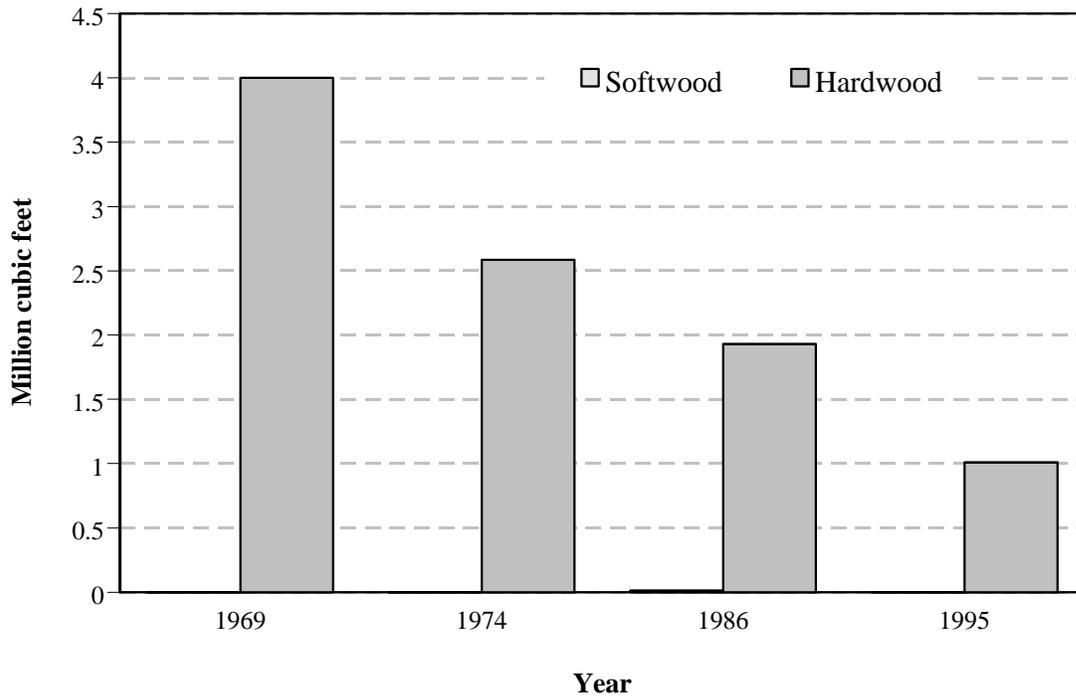


Figure 6—Roundwood veneer-log production by species group and year.

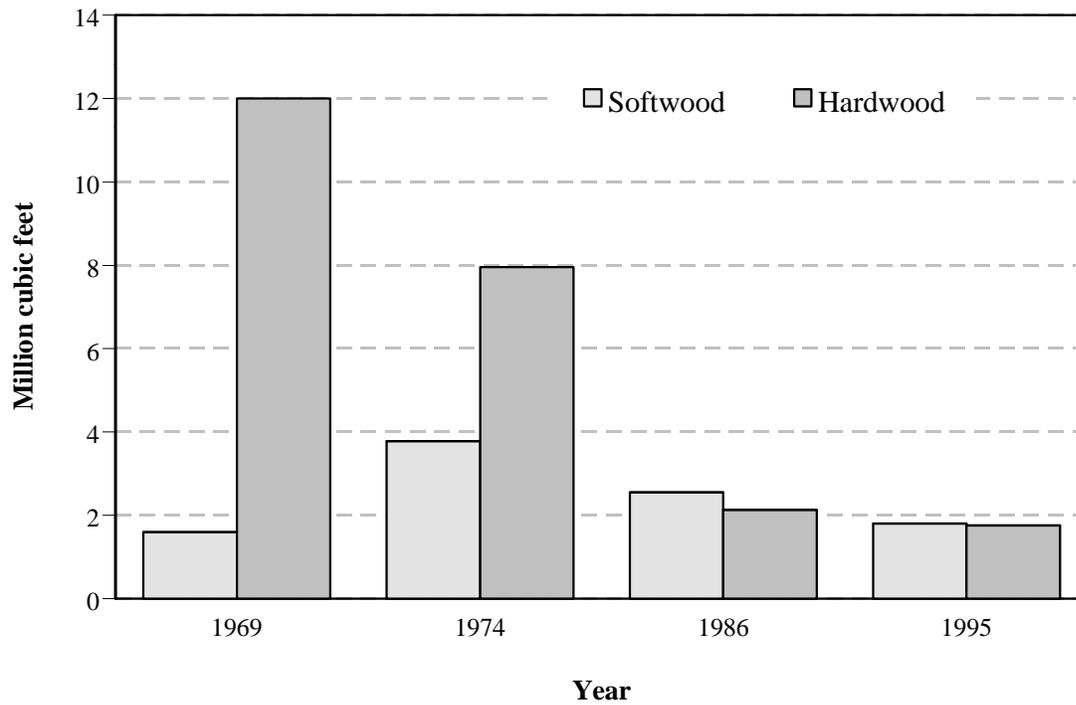


Figure 7—Roundwood production for other industrial by species group and year.

- The number of plants producing other industrial products declined from 22 to 20 since 1986. Combined receipts of other industrial products from softwood and hardwood totaled 4 million cubic feet.
- Kentucky was a net importer of roundwood used for other industrial products; of the 336 thousand cubic feet imported, 85 percent was softwood.

Plant Byproducts

- In 1995, processing of primary products in Kentucky mills generated more than 116 million cubic feet of wood and bark residues. Coarse residues from all primary products amounted to 57 million cubic feet, while bark volume totaled more than 22 million cubic feet. Collectively, sawdust and shavings make up 32 percent of total residues, or 37 million cubic feet (fig. 8).

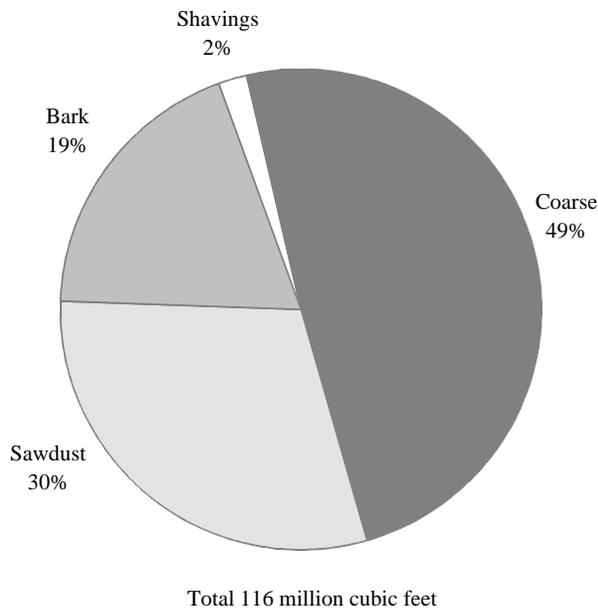


Figure 8—Primary mill residue by residue type, 1995.

- More than 94 percent of the wood and bark residues were used for a product, with 39 percent of the residues used for fiber products (fig. 9). Almost 44 million cubic feet, or 77 percent, of the coarse residues were used for fiber products. Most of the bark was used for other miscellaneous products or industrial fuel, while 55 percent of the sawdust and shavings were used for other miscellaneous products.
- The processing of saw logs generated 110 million cubic feet of mill residues, accounting for 95 percent of the total residues produced (fig. 10).

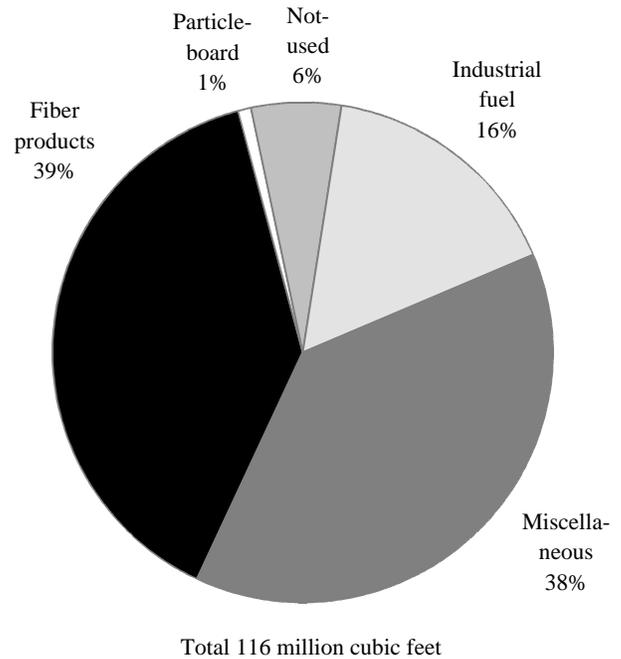


Figure 9—Disposal of residue by product, 1995.

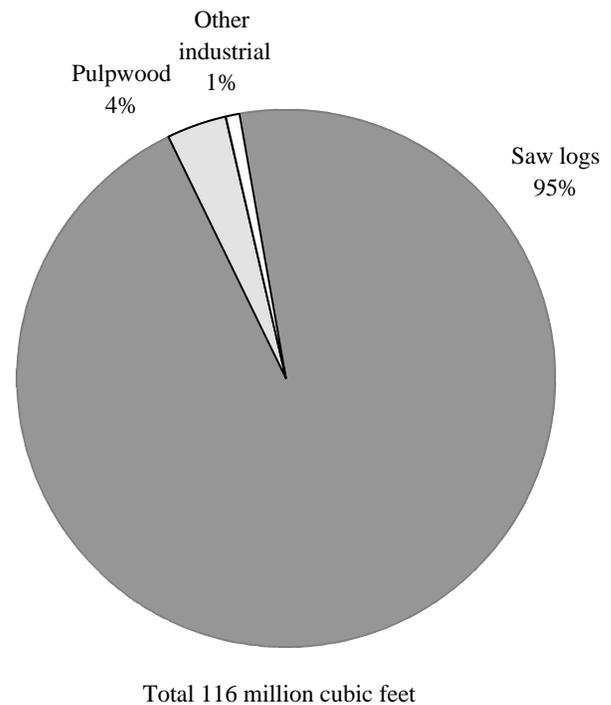


Figure 10—Primary mill residue produced by mill type, 1995.

Regional Trends

Eastern Region

- Roundwood output from the Eastern region totaled 14 million cubic feet.
- Saw logs accounted for 86 percent of the region's TPO and 7 percent of the State's roundwood saw-log output. Pulpwood and other industrial products accounted for the remainder of the volume for the region.
- In the Eastern region, 18 primary wood-using plants were operating during 1995: 17 sawmills and 1 composite panel mill (fig. 11). These mills processed 7 percent of the State's total roundwood output.

Northern Cumberland Region

- More than 23 million cubic feet of roundwood were produced in the Northern Cumberland region.
- Saw-log production of 18 million cubic feet accounted for 77 percent of the region's total roundwood output. Production of pulpwood at 4.5 million cubic feet accounted for 19 percent of the region's total roundwood output.
- The 58 mills operating in the Northern Cumberland region in 1995 included 52 sawmills and 6 other miscellaneous mills. These mills accounted for 13 percent of the State's total roundwood output.

Southern Cumberland Region

- Roundwood output from the Southern Cumberland region totaled more than 32 million cubic feet. Roundwood production from this region accounted for 18 percent of the total roundwood TPO for the State.
- Saw-log production of 28 million cubic feet accounted for 86 percent of the region's total TPO. Pulpwood production of 3.7 million cubic feet accounted for another 11 percent of the region's total roundwood output.
- The 47 primary wood-using plants operating in the Southern Cumberland region included 39 sawmills, 1 veneer mill, and 7 other miscellaneous mills.

Bluegrass Region

- Roundwood output from the Bluegrass region totaled 10 million cubic feet. Roundwood production from this region accounted for 5 percent of the total roundwood TPO for the State.

- Saw-log production of 9 million cubic feet accounted for 89 percent of the region's total roundwood output. Production of veneer and other industrial products accounted for the remainder of the region's total roundwood output.
- In the Bluegrass region, 42 primary wood-using plants were operating during 1995: 39 sawmills, 2 veneer mills, and 1 other miscellaneous mill.

Pennyroyal Region

- Roundwood output from the Pennyroyal region totaled 48 million cubic feet, and accounted for 26 percent of the State's total roundwood output.
- Saw-log production of 46 million cubic feet accounted for 96 percent of the region's total roundwood output and 29 percent of the State's roundwood saw-log output.
- Pulpwood production of 1.2 million cubic feet accounted for almost 3 percent of the region's total TPO.
- In the Pennyroyal region, 142 primary wood-using plants were operating during 1995: 137 sawmills, 1 pulpmill, and 4 other miscellaneous mills.

Western Coalfield Region

- Roundwood output from the Western Coalfield region totaled 45 million cubic feet.
- Saw-log production of 39 million cubic feet accounted for 86 percent of the region's total roundwood output, and 24 percent of the State's total saw-log output. At 6 million cubic feet, production of pulpwood accounted for 13 percent of the region's total roundwood output.
- In the Western Coalfield region, 70 primary wood-using plants were operating during 1995: 69 sawmills and 1 other miscellaneous mill. These mills processed 24 percent of the State's total roundwood output.

Western Region

- Roundwood output from the Western region totaled 14 million cubic feet, and accounted for 7 percent of the State's total roundwood output.
- Saw-log production of almost 10 million cubic feet accounted for 70 percent of the region's total roundwood output. At 4 million cubic feet, pulpwood production accounted for the remainder of the region's total TPO.
- In the Western region, 24 primary wood-using plants were operating during 1995: 23 sawmills and 1 pulpmill.

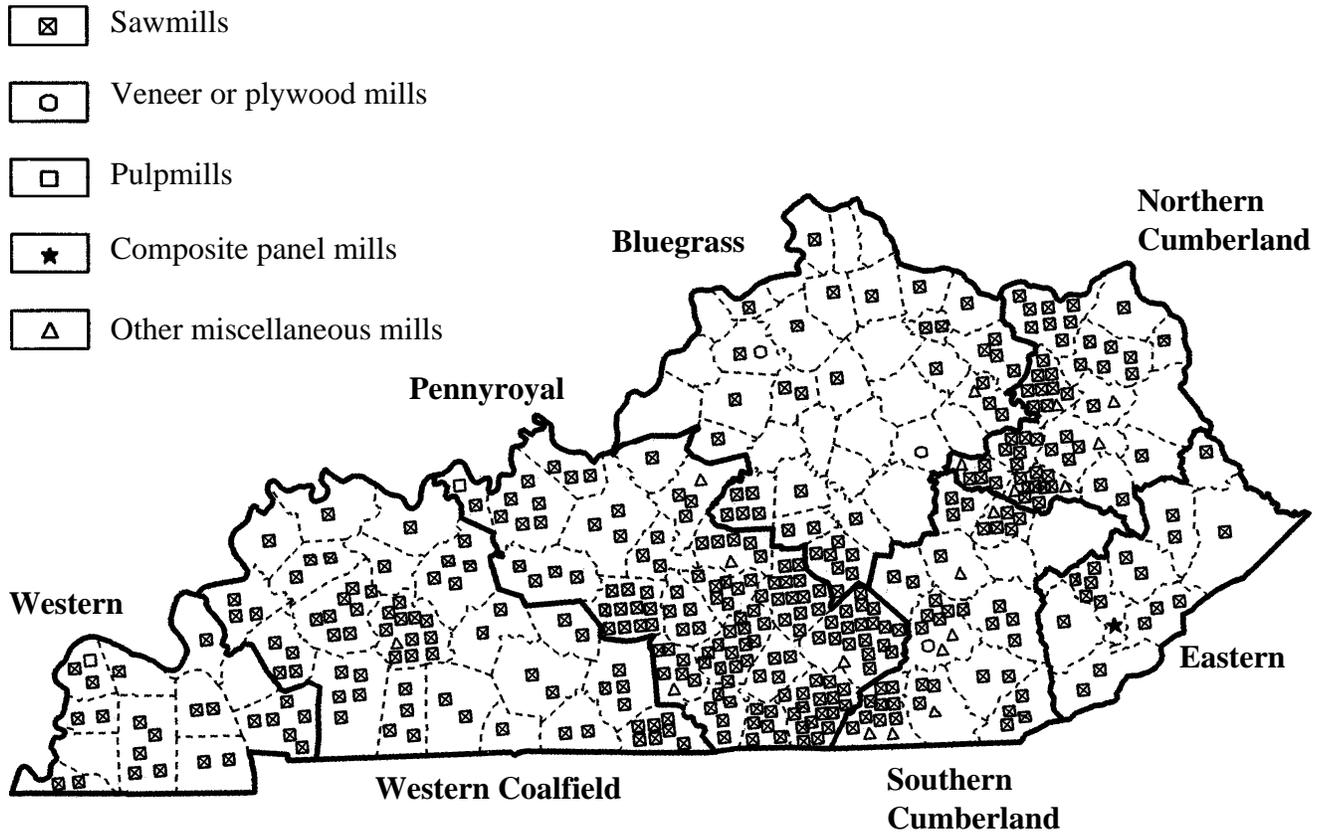


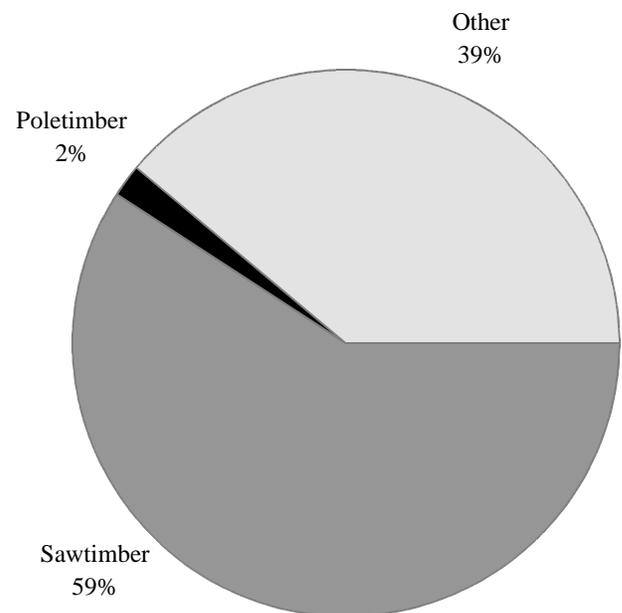
Figure 11—Primary wood-using mills by region, 1995.

Total Roundwood Output

- Using the most recent inventory data for Kentucky, product output by source, ownership, and detailed species group was estimated.

Source

- In addition to the more than 186 million cubic feet of roundwood output for industrial roundwood, an estimated 25 million cubic feet was harvested for domestic fuelwood bringing Kentucky's total roundwood output to 211 million cubic feet.
- More than 61 percent of total roundwood output was considered growing-stock volume from timberland sources, with other sources contributing an estimated 82 million cubic feet, or 39 percent of total roundwood output (fig. 12).



Total 211 million cubic feet

Figure 12—Roundwood output by source, 1995.

Ownership

- An estimated 188 million cubic feet, or 89 percent, of the total roundwood output came from nonindustrial private forest lands (NIPF). Public lands contributed 21 million cubic feet, or 10 percent of the output. Forest industry lands made up the remaining 1 percent, or 2 million cubic feet (fig. 13).

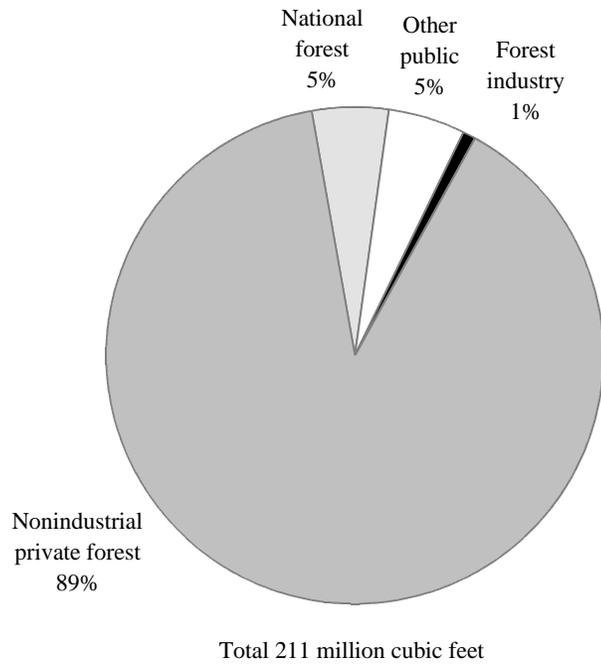


Figure 13—Roundwood output by ownership, 1995.

Species

- The red oak and white oak groups combined accounted for 100 million cubic feet, or 50 percent of total hardwood output (fig. 14). Yellow-poplar and hickory accounted for almost 12 and 11 percent, respectively, of total hardwood output. For softwoods, other yellow pines provided the most volume of any softwood species group, accounting for 76 percent of the total softwood output (fig. 15). The loblolly and shortleaf pine types accounted for 16 percent of the softwood output.

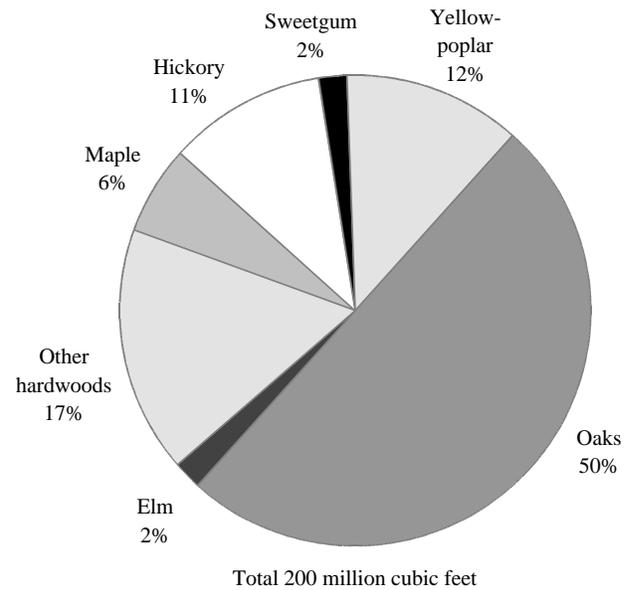


Figure 14—Roundwood output by softwood species group, 1995.

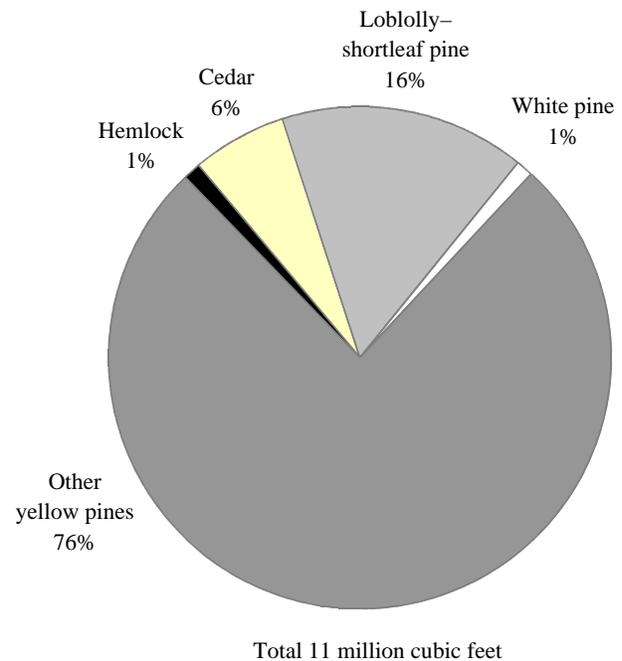


Figure 15—Roundwood output by hardwood species group, 1995.

Definitions

Board feet. Unit of measure applied to roundwood. It relates to lumber that is 1-foot long, 1-foot wide, and 1-inch thick (or its equivalent).

Composite panels. Consists of structural panels (oriented strand board or waferboard) or particleboard (industrial underlayment, thin panelboard).

Consumption. The quantity of a commodity, such as pulpwood, utilized.

Drain. The volume of roundwood removed from any geographic area where timber is grown.

Exports. The volume of roundwood utilized by mills outside the State where timber was cut.

Imports. The volume of roundwood delivered to a mill or group of mills in a specific State but harvested outside that State.

Industrial fuelwood. A roundwood product, with or without bark, used to generate energy at a manufacturing facility such as a wood-using mill.

Industrial roundwood products. Any primary use of the main stem of a tree, such as saw logs, poles, pilings, veneer logs, pulpwood, posts, or cooperage logs.

Log. A primary forest product harvested in long, primarily 8-, 10-, 12-, 14-, and 16-foot, lengths.

Plant residues. Wood material generated in the production of timber products at primary manufacturing plants.

Coarse residues. Suitable for chipping such as slabs, edgings, trim, veneer cores, and ends.

Fine residues. Not suitable for chipping such as sawdust, shavings, and veneer clippings.

Primary wood-using plants. Industries that receive roundwood or chips from roundwood for the manufacture of products such as veneer, pulp, and lumber.

Production. The total volume of roundwood harvested from land within the specified State, regardless of where consumed. Production is the sum of timber harvested and used within the State, plus all roundwood exported to other U.S. States.

Pulpwood. A roundwood product that will be reduced to individual wood fibers by chemical or mechanical means. The fibers are used to make a broad generic group of pulp products that includes paper products as well as chipboard, fiberboard, insulating board, and paperboard.

Receipts. The quantity or volume of industrial roundwood received at a mill or by a group of mills in a State, regardless of the geographic source. Volume of roundwood receipts is equal to the volume of roundwood retained in a State plus roundwood imported from other States in the United States.

Retained. Roundwood volume harvested from and processed by mills within the same State.

Roundwood. Logs, bolts, or other round sections cut from trees for industrial manufacture or consumer use.

Roundwood chipped. Any timber cut primarily for industrial manufacture, delivered to nonpulpmills, chipped, and then sold to pulpmills for use as fiber. Includes tops, jump sections, and whole trees.

Roundwood product drain. That portion of total drain used for a product.

Saw log. A log meeting minimum standards of diameter, length, and defect, including logs at least 8 feet long, sound and straight, and with minimum diameter inside bark of 6 inches for softwoods and 8 inches for hardwoods.

Standard cord. A unit measure applied to roundwood, usually bolts or split wood. It relates to a stack of wood 4 feet high, 4 feet wide, and 8 feet long encompassing 128 cubic feet of wood, bark, and air space. In the South, this usually translates to approximately 75.0 cubic feet of solid wood, excluding bark and air space.

Timber products output. Roundwood production in an area's forests (equals roundwood product drain).

Timber removals. The merchantable volume of trees removed from the timberland inventory by harvesting, cultural operations such as stand improvement, land clearing, or changes in land use.

Veneer log. A log used in the production of plywood, finished panels, or veneer sheets, both rotary cut and sliced.

Conversion Factors^a

Saw logs

| | |
|----------|---|
| Softwood | 0.18282 cubic foot = 1 board foot 5.47 board feet = 1 cubic foot |
| Hardwood | 0.16393 cubic foot = 1 board foot 6.10 board feet = 1 cubic foot |

Veneer logs

| | |
|----------|---|
| Softwood | 0.16129 cubic foot = 1 board foot 6.20 board feet = 1 cubic foot |
| Hardwood | 0.16000 cubic foot = 1 board foot 6.25 board feet = 1 cubic foot |

Pulpwood^b

| | |
|----------|--------------------------|
| Softwood | 73.3 cubic feet per cord |
| Hardwood | 76.1 cubic feet per cord |

^a Conversion factors vary with stem size (d.b.h.) and species.
The factors shown are for trees of average diameters removed in Kentucky during the most recent survey period.

^b Cubic feet of solid wood per cord.

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Table 1—Output of industrial products by product and species group, Kentucky, 1986 and 1995

| Product and species group | Year | | Change | Percent change |
|----------------------------|---------|---------|---------|----------------|
| | 1986 | 1995 | | |
| <i>Thousand cubic feet</i> | | | | |
| Saw logs | | | | |
| Softwood | 7,258 | 6,015 | -1,243 | -17.1 |
| Hardwood | 109,380 | 155,225 | 45,845 | 41.9 |
| Total | 116,638 | 161,240 | 44,602 | 38.2 |
| Veneer logs | | | | |
| Softwood | 14 | 0 | -14 | -100.0 |
| Hardwood | 1,930 | 1,009 | -921 | -47.7 |
| Total | 1,944 | 1,009 | -935 | -48.1 |
| Pulpwood | | | | |
| Softwood | 2,181 | 3,336 | 1,155 | 53.0 |
| Hardwood | 12,148 | 17,034 | 4,886 | 40.2 |
| Total | 14,329 | 20,370 | 6,041 | 42.2 |
| Other industrial | | | | |
| Softwood | 2,554 | 1,805 | -749 | -29.3 |
| Hardwood | 2,130 | 1,762 | -368 | -17.3 |
| Total | 4,684 | 3,567 | -1,117 | -23.8 |
| All industrial | | | | |
| Softwood | 12,007 | 11,156 | -851 | -7.1 |
| Hardwood | 125,588 | 175,030 | 49,442 | 39.4 |
| Total | 137,595 | 186,186 | 48,591 | 35.3 |
| Byproduct output | | | | |
| Softwood | 5,211 | 4,124 | -1,087 | -20.9 |
| Hardwood | 54,508 | 105,624 | 51,116 | 93.8 |
| Total | 59,719 | 109,748 | 50,029 | 83.8 |
| Total output | | | | |
| Softwood | 17,218 | 15,280 | -1,938 | -11.3 |
| Hardwood | 180,096 | 280,654 | 100,558 | 55.8 |
| Total | 197,314 | 295,934 | 98,620 | 50.0 |

**Table 2—Roundwood receipts by product and species group,
Kentucky, 1986 and 1995**

| Product and species group | Year | | Change | Percent change |
|------------------------------|---------|---------|--------|-------------------|
| | 1986 | 1995 | | |
| <i>Thousand cubic feet</i> | | | | |
| Saw logs | | | | |
| Softwood | 6,642 | 6,667 | 25 | 0.4 |
| Hardwood | 107,765 | 165,647 | 57,882 | 53.7 |
| Total | 114,407 | 172,314 | 57,907 | 50.6 |
| Veneer logs | | | | |
| Softwood | 0 | 0 | 0 | 0 |
| Hardwood | 340 | 1,456 | 1,116 | 328.2 |
| Total | 340 | 1,456 | 1,116 | 328.2 |
| Pulpwood | | | | |
| Softwood | 6,334 | 5,335 | -999 | -15.8 |
| Hardwood | 23,002 | 28,832 | 5,830 | 25.3 |
| Total | 29,336 | 34,167 | 4,831 | 16.5 |
| Other industrial | | | | |
| Softwood | 2,561 | 2,090 | -471 | -18.4 |
| Hardwood | 1,718 | 1,812 | 94 | 5.5 |
| Total | 4,279 | 3,902 | -377 | -8.8 |
| Total output | | | | |
| Softwood | 15,537 | 14,092 | -1,445 | -9.3 |
| Hardwood | 132,825 | 197,747 | 64,922 | 48.9 |
| Total | 148,362 | 211,839 | 63,477 | 42.8 |

Table 3—Number of primary wood-using plants by industry, Kentucky, 1948-1995

| Industry | Year | | | | | |
|-------------------------|-------|------|------|------|------|------|
| | 1948 | 1964 | 1969 | 1974 | 1986 | 1995 |
| Sawmills | 2,168 | 620 | 538 | 388 | 408 | 376 |
| Veneer or plywood mills | 6 | 3 | 4 | 4 | 3 | 3 |
| Pulpmills | 0 | 0 | 2 | 2 | 2 | 2 |
| Composite panel mills | 0 | 0 | 0 | 0 | 0 | 1 |
| Other mills | 90 | 30 | 45 | 26 | 22 | 19 |
| All plants | 2,264 | 653 | 589 | 420 | 435 | 401 |

Table 4—Roundwood receipts by sawmill size, Kentucky, 1995

| Sawmill size class ^a | Number of mills | Thousand board feet | Percent of volume |
|---------------------------------|-----------------|---------------------|-------------------|
| <i>Million board feet</i> | | | |
| < 1.0 | 170 | 43,719 | 4 |
| 1.0 - 4.99 | 142 | 351,092 | 34 |
| 5.0 - 9.99 | 42 | 283,583 | 27 |
| > 10 | 22 | 368,115 | 35 |
| Total | 376 | 1,046,509 | 100 |

^a Based on volume received as opposed to actual capacity.

Table 5—Roundwood receipts by species and type of mill, Kentucky, 1995

| Species | Type of mill | | | | | | |
|----------------------------|--------------|--------------|---------|--------------|--------|-----------|-------------|
| | All mills | Veneer mills | | | | Pulpmills | Other mills |
| | | Sawmills | Plywood | Other veneer | | | |
| <i>Thousand cubic feet</i> | | | | | | | |
| Softwood | | | | | | | |
| Yellow pine | 4,725 | 3,464 | 0 | 0 | NA | 1,261 | |
| White pine | 370 | 370 | 0 | 0 | NA | 0 | |
| Cedar | 3,013 | 2,184 | 0 | 0 | NA | 829 | |
| Cypress | 7 | 7 | 0 | 0 | NA | 0 | |
| Other softwood | 642 | 642 | 0 | 0 | NA | 0 | |
| Unclassified | 5,335 | 0 | 0 | 0 | 5,335 | 0 | |
| Total softwoods | 14,092 | 6,667 | 0 | 0 | 5,335 | 2,090 | |
| Hardwood | | | | | | | |
| Blackgum and tupelo | 916 | 916 | 0 | 0 | NA | 0 | |
| Soft maple | 1,239 | 1,239 | 0 | 0 | NA | 0 | |
| Sweetgum | 488 | 488 | 0 | 0 | NA | 0 | |
| Yellow-poplar | 34,341 | 32,678 | 0 | 24 | NA | 1,639 | |
| Other soft hardwood | 8,417 | 8,398 | 0 | 3 | NA | 16 | |
| Hickory | 4,896 | 4,896 | 0 | 0 | NA | 0 | |
| Red oak | 54,833 | 54,348 | 0 | 485 | NA | 0 | |
| White oak | 38,699 | 38,074 | 0 | 625 | NA | 0 | |
| Other hard hardwood | 25,086 | 24,610 | 0 | 319 | NA | 157 | |
| Unclassified | 28,832 | 0 | 0 | 0 | 28,832 | 0 | |
| Total hardwoods | 197,747 | 165,647 | 0 | 1,456 | 28,832 | 1,812 | |
| All species | 211,839 | 172,314 | 0 | 1,456 | 34,167 | 3,902 | |

NA = not applicable.

Table 6—Industrial roundwood movement by product and species group, Kentucky, 1995

| Product and species group | Production | Exported to other States | Retained | Imported from other States | Receipts |
|----------------------------|------------|--------------------------|----------|----------------------------|----------|
| <i>Thousand cubic feet</i> | | | | | |
| Saw logs | | | | | |
| Softwood | 6,015 | 0 | 6,015 | 652 | 6,667 |
| Hardwood | 155,225 | 1,769 | 153,456 | 12,191 | 165,647 |
| Total | 161,240 | 1,769 | 159,471 | 12,843 | 172,314 |
| Veneer logs | | | | | |
| Softwood | 0 | 0 | 0 | 0 | 0 |
| Hardwood | 1,009 | 520 | 489 | 967 | 1,456 |
| Total | 1,009 | 520 | 489 | 967 | 1,456 |
| Pulpwood | | | | | |
| Softwood | 3,336 | 1,965 | 1,371 | 3,964 | 5,335 |
| Hardwood | 17,034 | 7,144 | 9,890 | 18,942 | 28,832 |
| Total | 20,370 | 9,109 | 11,261 | 22,906 | 34,167 |
| Other industrial | | | | | |
| Softwood | 1,805 | 1 | 1,804 | 286 | 2,090 |
| Hardwood | 1,762 | 0 | 1,762 | 50 | 1,812 |
| Total | 3,567 | 1 | 3,566 | 336 | 3,902 |
| All products | | | | | |
| Softwood | 11,156 | 1,966 | 9,190 | 4,902 | 14,092 |
| Hardwood | 175,030 | 9,433 | 165,597 | 32,150 | 197,747 |
| Total | 186,186 | 11,399 | 174,787 | 37,052 | 211,839 |

Table 7—Saw-log volume by destination, source, and species group, Kentucky, 1995

| Destination and source | All species | Species group | |
|----------------------------|-------------|---------------|----------|
| | | Softwood | Hardwood |
| <i>Thousand cubic feet</i> | | | |
| Kentucky (retained) | 159,471 | 6,015 | 153,456 |
| Exports to: | | | |
| Ohio | 199 | 0 | 199 |
| Tennessee | 965 | 0 | 965 |
| Foreign | 605 | 0 | 605 |
| Total | 1,769 | 0 | 1,769 |
| Imports from: | | | |
| Illinois | 1,427 | 0 | 1,427 |
| Indiana | 1,228 | 42 | 1,186 |
| New Jersey | 42 | 0 | 42 |
| Ohio | 40 | 5 | 35 |
| Tennessee | 9,093 | 602 | 8,491 |
| Virginia | 742 | 3 | 739 |
| West Virginia | 271 | 0 | 271 |
| Total | 12,843 | 652 | 12,191 |

Table 8—Veneer volume by destination, source, and species group, Kentucky, 1995

| Destination and source | All species | Species group | |
|----------------------------|----------------|---------------|----------|
| | | Softwood | Hardwood |
| <i>Thousand cubic feet</i> | | | |
| Kentucky (retained) | 489 | 0 | 489 |
| Exports to: | | | |
| Ohio | 52 | 0 | 52 |
| Tennessee | 91 | 0 | 91 |
| Foreign | 377 | 0 | 377 |
| Total | 520 | 0 | 520 |
| Imports from: | | | |
| Illinois | 15 | 0 | 15 |
| Indiana | 212 | 0 | 212 |
| Maryland | 83 | 0 | 83 |
| Massachusetts | 68 | 0 | 68 |
| Michigan | 31 | 0 | 31 |
| New Hampshire | 68 | 0 | 68 |
| Ohio | 68 | 0 | 68 |
| Pennsylvania | 176 | 0 | 176 |
| Tennessee | 30 | 0 | 30 |
| Virginia | 15 | 0 | 15 |
| Foreign | 201 | 0 | 201 |
| Total | 967 | 0 | 967 |

Table 9—Pulpwood volume by destination, source, and species group, Kentucky, 1995

| Destination and source | All species | Species group | |
|----------------------------|-------------|---------------|----------|
| | | Softwood | Hardwood |
| <i>Thousand cubic feet</i> | | | |
| Kentucky (retained) | 11,261 | 1,371 | 9,890 |
| Exports to: | | | |
| Alabama | 280 | 247 | 33 |
| Florida | 1,629 | 0 | 1,629 |
| Ohio | 5,120 | 613 | 4,507 |
| Tennessee | 2,080 | 1,105 | 975 |
| Total | 9,109 | 1,965 | 7,144 |
| Imports from: | | | |
| Alabama | 32 | 7 | 25 |
| Illinois | 2,235 | 341 | 1,894 |
| Indiana | 833 | 0 | 833 |
| Mississippi | 3,660 | 1,085 | 2,575 |
| Missouri | 636 | 80 | 556 |
| Tennessee | 14,121 | 2,451 | 11,670 |
| Virginia | 1,389 | 0 | 1,389 |
| Total | 22,906 | 3,964 | 18,942 |

Table 10—Other industrial volume by destination, source, and species group, Kentucky, 1995^a

| Destination and source | All species | Species group | |
|----------------------------|-------------|---------------|----------|
| | | Softwood | Hardwood |
| <i>Thousand cubic feet</i> | | | |
| Kentucky (retained) | 3,566 | 1,804 | 1,762 |
| Exports to: | | | |
| Tennessee | 1 | 1 | 0 |
| Total | 1 | 1 | 0 |
| Imports from: | | | |
| Indiana | 15 | 15 | 0 |
| Ohio | 23 | 23 | 0 |
| Tennessee | 208 | 208 | 0 |
| Virginia | 90 | 40 | 50 |
| Total | 336 | 286 | 50 |

^a Includes poles, posts, mulch, firewood, log homes, charcoal, and all other industrial mills.

Table 11—Primary mill residue volume by roundwood type, species group, and residue type, Kentucky, 1995

| Roundwood type and species group | All types | Residue type | | | |
|-------------------------------------|--------------|--------------|--------|---------|----------|
| | | Bark | Coarse | Sawdust | Shavings |
| <i>Thousand cubic feet</i> | | | | | |
| Saw logs | | | | | |
| Softwood | 3,470 | 445 | 1,802 | 1,181 | 42 |
| Hardwood | 106,974 | 17,261 | 54,433 | 33,390 | 1,890 |
| Total | 110,444 | 17,706 | 56,235 | 34,571 | 1,932 |
| Veneer logs | | | | | |
| Softwood | 0 | 0 | 0 | 0 | 0 |
| Hardwood | 535 | 156 | 251 | 128 | 0 |
| Total | 535 | 156 | 251 | 128 | 0 |
| Pulpwood | | | | | |
| Softwood | 549 | 549 | 0 | 0 | 0 |
| Hardwood | 3,636 | 3,636 | 0 | 0 | 0 |
| Total | 4,185 | 4,185 | 0 | 0 | 0 |
| Other industrial^a | | | | | |
| Softwood | 577 | 233 | 246 | 98 | 0 |
| Hardwood | 478 | 387 | 65 | 26 | 0 |
| Total | 1,055 | 620 | 311 | 124 | 0 |
| Total | | | | | |
| Softwood | 4,596 | 1,227 | 2,048 | 1,279 | 42 |
| Hardwood | 111,623 | 21,440 | 54,749 | 33,544 | 1,890 |
| Total | 116,219 | 22,667 | 56,797 | 34,823 | 1,932 |

^a Includes poles, pilings, posts, and other industrial products.

Table 12—Disposal of residue at primary wood-using plants by product, species group, and type of residue, Kentucky, 1995

| Product and species group | All types | Residue type | | | |
|---------------------------|-----------|--------------|--------|---------|----------|
| | | Bark | Coarse | Sawdust | Shavings |
| Fiber products | | | | | |
| Softwood | 444 | 0 | 444 | 0 | 0 |
| Hardwood | 44,605 | 296 | 43,104 | 1,205 | 0 |
| Total | 45,049 | 296 | 43,548 | 1,205 | 0 |
| Particleboard | | | | | |
| Softwood | 1 | 0 | 1 | 0 | 0 |
| Hardwood | 1,270 | 103 | 699 | 468 | 0 |
| Total | 1,271 | 103 | 700 | 468 | 0 |
| Composite panels | | | | | |
| Softwood | 0 | 0 | 0 | 0 | 0 |
| Hardwood | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 |
| Sawn products | | | | | |
| Softwood | 0 | 0 | 0 | 0 | 0 |
| Hardwood | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 |
| Fuel | | | | | |
| Softwood | 608 | 559 | 9 | 40 | 0 |
| Hardwood | 18,118 | 5,618 | 649 | 11,605 | 246 |
| Total | 18,726 | 6,177 | 658 | 11,645 | 246 |
| Miscellaneous | | | | | |
| Softwood | 3,071 | 592 | 1,387 | 1,074 | 18 |
| Hardwood | 41,631 | 14,325 | 8,193 | 17,483 | 1,630 |
| Total | 44,702 | 14,917 | 9,580 | 18,557 | 1,648 |
| Not used | | | | | |
| Softwood | 472 | 76 | 207 | 165 | 24 |
| Hardwood | 5,999 | 1,098 | 2,104 | 2,783 | 14 |
| Total | 6,471 | 1,174 | 2,311 | 2,948 | 38 |
| All products | | | | | |
| Softwood | 4,596 | 1,227 | 2,048 | 1,279 | 42 |
| Hardwood | 111,623 | 21,440 | 54,749 | 33,544 | 1,890 |
| Total | 116,219 | 22,667 | 56,797 | 34,823 | 1,932 |

Table 13—Roundwood timber products output by county, product, and species group, Eastern Region of Kentucky, 1995

| County | All products | | Saw logs | | Veneer logs | | Pulpwood | | Other industrial | |
|----------------------------|--------------|-----------|-----------|-----------|-------------|-----------|-----------|-----------|------------------|-----------|
| | Soft-wood | Hard-wood | Soft-wood | Hard-wood | Soft-wood | Hard-wood | Soft-wood | Hard-wood | Soft-wood | Hard-wood |
| <i>Thousand cubic feet</i> | | | | | | | | | | |
| Floyd | 0 | 599 | 0 | 482 | 0 | 53 | 0 | 0 | 0 | 64 |
| Harlan | 46 | 2,412 | 24 | 1,616 | 0 | 7 | 22 | 468 | 0 | 321 |
| Knott | 294 | 1,063 | 0 | 881 | 0 | 0 | 294 | 118 | 0 | 64 |
| Leslie | 4 | 2,561 | 4 | 2,313 | 0 | 8 | 0 | 0 | 0 | 240 |
| Letcher | 7 | 1,683 | 7 | 1,681 | 0 | 0 | 0 | 2 | 0 | 0 |
| Martin | 0 | 2,630 | 0 | 2,630 | 0 | 0 | 0 | 0 | 0 | 0 |
| Perry | 0 | 1,457 | 0 | 1,297 | 0 | 0 | 0 | 0 | 0 | 160 |
| Pike | 2 | 980 | 2 | 914 | 0 | 0 | 0 | 2 | 0 | 64 |
| All counties | 353 | 13,385 | 37 | 11,814 | 0 | 68 | 316 | 590 | 0 | 913 |

Table 14—Roundwood timber products output by county, product, and species group, Northern Cumberland Region of Kentucky, 1995

| County | All products | | Saw logs | | Veneer logs | | Pulpwood | | Other industrial | |
|----------------------------|--------------|-----------|-----------|-----------|-------------|-----------|-----------|-----------|------------------|-----------|
| | Soft-wood | Hard-wood | Soft-wood | Hard-wood | Soft-wood | Hard-wood | Soft-wood | Hard-wood | Soft-wood | Hard-wood |
| <i>Thousand cubic feet</i> | | | | | | | | | | |
| Boyd | 57 | 1,523 | 0 | 690 | 0 | 9 | 57 | 824 | 0 | 0 |
| Carter | 25 | 2,543 | 11 | 2,204 | 0 | 9 | 6 | 330 | 8 | 0 |
| Elliott | 143 | 1,769 | 4 | 1,059 | 0 | 9 | 134 | 701 | 5 | 0 |
| Greenup | 68 | 1,922 | 9 | 412 | 0 | 9 | 59 | 1,501 | 0 | 0 |
| Johnson | 4 | 757 | 0 | 757 | 0 | 0 | 0 | 0 | 4 | 0 |
| Lawrence | 37 | 795 | 32 | 691 | 0 | 0 | 5 | 104 | 0 | 0 |
| Lewis | 139 | 3,382 | 110 | 2,596 | 0 | 9 | 29 | 762 | 0 | 15 |
| Magoffin | 33 | 659 | 15 | 659 | 0 | 0 | 0 | 0 | 18 | 0 |
| Menifee | 152 | 1,029 | 89 | 1,020 | 0 | 9 | 0 | 0 | 63 | 0 |
| Morgan | 304 | 2,516 | 163 | 2,497 | 0 | 9 | 0 | 0 | 141 | 10 |
| Powell | 294 | 1,621 | 77 | 1,557 | 0 | 54 | 0 | 0 | 217 | 10 |
| Rowan | 50 | 1,893 | 31 | 1,858 | 0 | 9 | 0 | 0 | 19 | 26 |
| Wolfe | 255 | 1,243 | 168 | 1,243 | 0 | 0 | 0 | 0 | 87 | 0 |
| All counties | 1,561 | 21,652 | 709 | 17,243 | 0 | 126 | 290 | 4,222 | 562 | 61 |

Table 15—Roundwood timber products output by county, product, and species group, Southern Cumberland Region of Kentucky, 1995

| County | All products | | Saw logs | | Veneer logs | | Pulpwood | | Other industrial | |
|----------------------------|--------------|---------------|--------------|---------------|-------------|------------|--------------|--------------|------------------|------------|
| | Soft-wood | Hard-wood | Soft-wood | Hard-wood | Soft-wood | Hard-wood | Soft-wood | Hard-wood | Soft-wood | Hard-wood |
| <i>Thousand cubic feet</i> | | | | | | | | | | |
| Bell | 25 | 1,592 | 25 | 1,570 | 0 | 15 | 0 | 7 | 0 | 0 |
| Breathitt | 34 | 2,161 | 34 | 1,921 | 0 | 0 | 0 | 0 | 0 | 240 |
| Clay | 33 | 2,935 | 31 | 2,926 | 0 | 9 | 0 | 0 | 2 | 0 |
| Estill | 80 | 1,930 | 80 | 1,876 | 0 | 54 | 0 | 0 | 0 | 0 |
| Jackson | 130 | 1,598 | 101 | 1,592 | 0 | 6 | 0 | 0 | 29 | 0 |
| Knox | 264 | 2,528 | 12 | 2,528 | 0 | 0 | 238 | 0 | 14 | 0 |
| Laurel | 476 | 3,819 | 237 | 2,790 | 0 | 15 | 117 | 677 | 122 | 337 |
| Lee | 21 | 1,192 | 7 | 1,140 | 0 | 0 | 0 | 0 | 14 | 52 |
| McCreary | 1,094 | 3,948 | 744 | 3,718 | 0 | 4 | 319 | 226 | 31 | 0 |
| Owsley | 7 | 1,193 | 0 | 1,191 | 0 | 0 | 0 | 0 | 7 | 2 |
| Rockcastle | 18 | 3,090 | 14 | 3,090 | 0 | 0 | 0 | 0 | 4 | 0 |
| Whitley | 753 | 3,696 | 245 | 2,045 | 0 | 20 | 438 | 1,631 | 70 | 0 |
| All counties | 2,935 | 29,682 | 1,530 | 26,387 | 0 | 123 | 1,112 | 2,541 | 293 | 631 |

Table 16—Roundwood timber products output by county, product, and species group, Bluegrass Region of Kentucky, 1995

| County | All products | | Saw logs | | Veneer logs | | Pulpwood | | Other industrial | |
|---------------------|----------------------------|--------------|--------------|--------------|-------------|------------|-----------|-----------|------------------|-----------|
| | Soft-wood | Hard-wood | Soft-wood | Hard-wood | Soft-wood | Hard-wood | Soft-wood | Hard-wood | Soft-wood | Hard-wood |
| | <i>Thousand cubic feet</i> | | | | | | | | | |
| Anderson | 27 | 37 | 27 | 37 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bath | 170 | 907 | 44 | 882 | 0 | 25 | 0 | 0 | 126 | 0 |
| Boone | 0 | 88 | 0 | 88 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bourbon | 0 | 57 | 0 | 3 | 0 | 54 | 0 | 0 | 0 | 0 |
| Boyle | 100 | 960 | 22 | 960 | 0 | 0 | 0 | 0 | 78 | 0 |
| Bracken | 14 | 44 | 14 | 44 | 0 | 0 | 0 | 0 | 0 | 0 |
| Campbell | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Carroll | 0 | 45 | 0 | 12 | 0 | 33 | 0 | 0 | 0 | 0 |
| Clark | 0 | 54 | 0 | 0 | 0 | 54 | 0 | 0 | 0 | 0 |
| Fayette | 0 | 54 | 0 | 0 | 0 | 54 | 0 | 0 | 0 | 0 |
| Fleming | 61 | 1,253 | 58 | 1,244 | 0 | 9 | 0 | 0 | 3 | 0 |
| Franklin | 75 | 40 | 75 | 40 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gallatin | 0 | 38 | 0 | 5 | 0 | 33 | 0 | 0 | 0 | 0 |
| Garrard | 20 | 1,017 | 20 | 1,017 | 0 | 0 | 0 | 0 | 0 | 0 |
| Grant | 106 | 27 | 106 | 27 | 0 | 0 | 0 | 0 | 0 | 0 |
| Harrison | 75 | 38 | 75 | 38 | 0 | 0 | 0 | 0 | 0 | 0 |
| Henry | 138 | 36 | 138 | 3 | 0 | 33 | 0 | 0 | 0 | 0 |
| Jessamine | 8 | 54 | 8 | 0 | 0 | 54 | 0 | 0 | 0 | 0 |
| Kenton | 0 | 9 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lincoln | 38 | 1,650 | 38 | 1,650 | 0 | 0 | 0 | 0 | 0 | 0 |
| Madison | 6 | 302 | 6 | 248 | 0 | 54 | 0 | 0 | 0 | 0 |
| Mason | 48 | 115 | 48 | 110 | 0 | 0 | 0 | 0 | 0 | 5 |
| Mercer | 102 | 21 | 24 | 21 | 0 | 0 | 0 | 0 | 78 | 0 |
| Montgomery | 180 | 324 | 26 | 270 | 0 | 54 | 0 | 0 | 154 | 0 |
| Nicholas | 14 | 15 | 14 | 15 | 0 | 0 | 0 | 0 | 0 | 0 |
| Owen | 318 | 97 | 318 | 64 | 0 | 33 | 0 | 0 | 0 | 0 |
| Pendleton | 122 | 73 | 122 | 73 | 0 | 0 | 0 | 0 | 0 | 0 |
| Robertson | 53 | 9 | 53 | 9 | 0 | 0 | 0 | 0 | 0 | 0 |
| Scott | 37 | 57 | 37 | 3 | 0 | 54 | 0 | 0 | 0 | 0 |
| Shelby | 0 | 34 | 0 | 34 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spencer | 39 | 68 | 39 | 68 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington | 138 | 253 | 56 | 253 | 0 | 0 | 0 | 0 | 82 | 0 |
| Woodford | 8 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| All counties | 1,899 | 7,778 | 1,378 | 7,229 | 0 | 544 | 0 | 0 | 521 | 5 |

**Table 17—Roundwood timber products output by county, product, and species group,
Pennyroyal Region of Kentucky, 1995**

| County | All products | | Saw logs | | Veneer logs | | Pulpwood | | Other industrial | |
|----------------------------|--------------|-----------|-----------|-----------|-------------|-----------|-----------|-----------|------------------|-----------|
| | Soft-wood | Hard-wood | Soft-wood | Hard-wood | Soft-wood | Hard-wood | Soft-wood | Hard-wood | Soft-wood | Hard-wood |
| <i>Thousand cubic feet</i> | | | | | | | | | | |
| Adair | 68 | 2,544 | 62 | 2,527 | 0 | 17 | 0 | 0 | 6 | 0 |
| Breckinridge | 50 | 3,129 | 50 | 2,591 | 0 | 0 | 0 | 538 | 0 | 0 |
| Bullitt | 14 | 174 | 14 | 174 | 0 | 0 | 0 | 0 | 0 | 0 |
| Casey | 176 | 3,511 | 98 | 3,375 | 0 | 11 | 0 | 125 | 78 | 0 |
| Clinton | 73 | 1,042 | 73 | 1,027 | 0 | 15 | 0 | 0 | 0 | 0 |
| Cumberland | 44 | 2,002 | 38 | 1,991 | 0 | 11 | 0 | 0 | 6 | 0 |
| Grayson | 93 | 2,795 | 26 | 2,309 | 0 | 8 | 67 | 478 | 0 | 0 |
| Green | 35 | 1,877 | 29 | 1,872 | 0 | 5 | 0 | 0 | 6 | 0 |
| Hancock | 13 | 654 | 13 | 654 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hardin | 78 | 2,039 | 78 | 2,038 | 0 | 1 | 0 | 0 | 0 | 0 |
| Hart | 181 | 3,797 | 175 | 3,797 | 0 | 0 | 0 | 0 | 6 | 0 |
| Larue | 34 | 687 | 34 | 682 | 0 | 5 | 0 | 0 | 0 | 0 |
| Marion | 110 | 1,442 | 32 | 1,431 | 0 | 11 | 0 | 0 | 78 | 0 |
| Meade | 0 | 1,063 | 0 | 1,062 | 0 | 1 | 0 | 0 | 0 | 0 |
| Metcalf | 50 | 2,034 | 44 | 2,034 | 0 | 0 | 0 | 0 | 6 | 0 |
| Nelson | 169 | 392 | 82 | 392 | 0 | 0 | 0 | 0 | 87 | 0 |
| Pulaski | 477 | 7,417 | 429 | 7,413 | 0 | 4 | 0 | 0 | 48 | 0 |
| Russell | 99 | 2,832 | 93 | 2,817 | 0 | 15 | 0 | 0 | 6 | 0 |
| Taylor | 102 | 2,569 | 18 | 2,552 | 0 | 17 | 0 | 0 | 84 | 0 |
| Wayne | 235 | 3,980 | 235 | 3,976 | 0 | 4 | 0 | 0 | 0 | 0 |
| All counties | 2,101 | 45,980 | 1,623 | 44,714 | 0 | 125 | 67 | 1,141 | 411 | 0 |

**Table 18—Roundwood timber products output by county, product, and species group,
Western Coalfield Region of Kentucky, 1995**

| County | All products | | Saw logs | | Veneer logs | | Pulpwood | | Other industrial | |
|----------------------------|--------------|-----------|-----------|-----------|-------------|-----------|-----------|-----------|------------------|-----------|
| | Soft-wood | Hard-wood | Soft-wood | Hard-wood | Soft-wood | Hard-wood | Soft-wood | Hard-wood | Soft-wood | Hard-wood |
| <i>Thousand cubic feet</i> | | | | | | | | | | |
| Allen | 42 | 2,352 | 36 | 2,348 | 0 | 4 | 0 | 0 | 6 | 0 |
| Barren | 46 | 3,551 | 40 | 3,549 | 0 | 2 | 0 | 0 | 6 | 0 |
| Butler | 79 | 4,094 | 53 | 3,155 | 0 | 4 | 26 | 935 | 0 | 0 |
| Caldwell | 68 | 1,823 | 35 | 1,430 | 0 | 0 | 33 | 393 | 0 | 0 |
| Christian | 89 | 2,959 | 89 | 2,921 | 0 | 0 | 0 | 0 | 0 | 38 |
| Crittenden | 90 | 1,943 | 0 | 1,569 | 0 | 0 | 90 | 374 | 0 | 0 |
| Daviess | 25 | 1,054 | 25 | 979 | 0 | 0 | 0 | 75 | 0 | 0 |
| Edmonson | 0 | 1,485 | 0 | 1,473 | 0 | 0 | 0 | 12 | 0 | 0 |
| Henderson | 0 | 853 | 0 | 853 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hopkins | 130 | 1,633 | 107 | 1,525 | 0 | 0 | 23 | 70 | 0 | 38 |
| Logan | 33 | 2,387 | 33 | 2,387 | 0 | 0 | 0 | 0 | 0 | 0 |
| McLean | 39 | 2,153 | 39 | 2,153 | 0 | 0 | 0 | 0 | 0 | 0 |
| Monroe | 41 | 2,010 | 35 | 2,006 | 0 | 4 | 0 | 0 | 6 | 0 |
| Muhlenberg | 211 | 4,096 | 139 | 3,995 | 0 | 0 | 72 | 63 | 0 | 38 |
| Ohio | 257 | 6,501 | 56 | 3,193 | 0 | 1 | 201 | 3,307 | 0 | 0 |
| Simpson | 18 | 623 | 18 | 619 | 0 | 4 | 0 | 0 | 0 | 0 |
| Todd | 26 | 1,345 | 26 | 1,307 | 0 | 0 | 0 | 0 | 0 | 38 |
| Union | 0 | 328 | 0 | 92 | 0 | 0 | 0 | 236 | 0 | 0 |
| Warren | 0 | 1,779 | 0 | 1,775 | 0 | 4 | 0 | 0 | 0 | 0 |
| Webster | 0 | 960 | 0 | 960 | 0 | 0 | 0 | 0 | 0 | 0 |
| All counties | 1,194 | 43,929 | 731 | 38,289 | 0 | 23 | 445 | 5,465 | 18 | 152 |

**Table 19—Roundwood timber products output by county, product, and species group,
Western Region of Kentucky, 1995**

| County | All products | | Saw logs | | Veneer logs | | Pulpwood | | Other industrial | |
|--------------|----------------------------|-----------|-----------|-----------|-------------|-----------|-----------|-----------|------------------|-----------|
| | Soft-wood | Hard-wood | Soft-wood | Hard-wood | Soft-wood | Hard-wood | Soft-wood | Hard-wood | Soft-wood | Hard-wood |
| | <i>Thousand cubic feet</i> | | | | | | | | | |
| Ballard | 0 | 842 | 0 | 426 | 0 | 0 | 0 | 416 | 0 | 0 |
| Calloway | 47 | 1,285 | 0 | 1,077 | 0 | 0 | 47 | 208 | 0 | 0 |
| Carlisle | 47 | 1,163 | 0 | 747 | 0 | 0 | 47 | 416 | 0 | 0 |
| Fulton | 7 | 338 | 7 | 234 | 0 | 0 | 0 | 104 | 0 | 0 |
| Graves | 357 | 1,351 | 0 | 935 | 0 | 0 | 357 | 416 | 0 | 0 |
| Hickman | 0 | 374 | 0 | 374 | 0 | 0 | 0 | 0 | 0 | 0 |
| Livingston | 379 | 1,070 | 0 | 662 | 0 | 0 | 379 | 408 | 0 | 0 |
| Lyon | 252 | 1,601 | 0 | 1,400 | 0 | 0 | 252 | 201 | 0 | 0 |
| McCracken | 0 | 723 | 0 | 515 | 0 | 0 | 0 | 208 | 0 | 0 |
| Marshall | 23 | 1,613 | 0 | 1,301 | 0 | 0 | 23 | 312 | 0 | 0 |
| Trigg | 1 | 2,264 | 0 | 1,878 | 0 | 0 | 1 | 386 | 0 | 0 |
| All counties | 1,113 | 12,624 | 7 | 9,549 | 0 | 0 | 1,106 | 3,075 | 0 | 0 |

Table 20—Total roundwood output by product, species group, and source of material, Kentucky, 1995

| Product and species group | All sources | Total | Growing-stock trees | | Other sources |
|----------------------------------|-------------|---------|---------------------|------------|---------------|
| | | | Sawtimber | Poletimber | |
| <i>Thousand cubic feet</i> | | | | | |
| Saw logs | | | | | |
| Softwood | 6,015 | 4,558 | 4,558 | 0 | 1,457 |
| Hardwood | 155,225 | 106,950 | 105,398 | 1,552 | 48,275 |
| Total | 161,240 | 111,508 | 109,956 | 1,552 | 49,732 |
| Veneer logs and bolts | | | | | |
| Softwood | 0 | 0 | 0 | 0 | 0 |
| Hardwood | 1,009 | 724 | 704 | 20 | 285 |
| Total | 1,009 | 724 | 704 | 20 | 285 |
| Pulpwood | | | | | |
| Softwood | 3,336 | 1,814 | 1,773 | 41 | 1,522 |
| Hardwood | 17,034 | 10,758 | 9,054 | 1,704 | 6,276 |
| Total | 20,370 | 12,572 | 10,827 | 1,745 | 7,798 |
| Poles and posts | | | | | |
| Softwood | 1,199 | 985 | 899 | 85 | 214 |
| Hardwood | 6 | 0 | 0 | 0 | 6 |
| Total | 1,205 | 985 | 900 | 85 | 220 |
| Other miscellaneous | | | | | |
| Softwood | 606 | 322 | 233 | 89 | 284 |
| Hardwood | 1,756 | 849 | 674 | 176 | 907 |
| Total | 2,362 | 1,171 | 906 | 265 | 1,191 |
| Total industrial products | | | | | |
| Softwood | 11,156 | 7,678 | 7,463 | 215 | 3,478 |
| Hardwood | 175,030 | 119,281 | 115,829 | 3,451 | 55,749 |
| Total | 186,186 | 126,959 | 123,292 | 3,667 | 59,227 |
| Fuelwood | | | | | |
| Softwood | 150 | 88 | 88 | 0 | 62 |
| Hardwood | 25,000 | 2,102 | 1,815 | 287 | 22,898 |
| Total | 25,150 | 2,190 | 1,903 | 287 | 22,960 |
| All products | | | | | |
| Softwood | 11,306 | 7,766 | 7,551 | 215 | 3,540 |
| Hardwood | 200,030 | 121,383 | 117,644 | 3,739 | 78,647 |
| Total | 211,336 | 129,149 | 125,195 | 3,954 | 82,187 |

Table 21—Total roundwood output by species group, survey region, and ownership, Kentucky, 1995

| Species group and survey region | Total | National forest | Other public | Forest industry | Nonindustrial private |
|------------------------------------|---------|--------------------|-----------------|--------------------|--------------------------|
| <i>Thousand cubic feet</i> | | | | | |
| Softwoods | | | | | |
| Eastern | 358 | 0 | 0 | 0 | 358 |
| Northern Cumberland | 1,583 | 221 | 0 | 0 | 1,362 |
| Southern Cumberland | 2,974 | 721 | 7 | 0 | 2,246 |
| Bluegrass | 1,924 | 0 | 140 | 0 | 1,784 |
| Pennyroyal | 2,128 | 0 | 79 | 0 | 2,049 |
| Western Coalfield | 1,211 | 0 | 0 | 0 | 1,211 |
| Western | 1,128 | 0 | 0 | 0 | 1,128 |
| Total softwoods | 11,306 | 942 | 226 | 0 | 10,138 |
| Hardwoods | | | | | |
| Eastern | 15,298 | 223 | 0 | 313 | 14,762 |
| Northern Cumberland | 24,746 | 2,924 | 380 | 0 | 21,442 |
| Southern Cumberland | 33,921 | 5,407 | 742 | 0 | 27,772 |
| Bluegrass | 8,887 | 659 | 289 | 0 | 7,939 |
| Pennyroyal | 52,547 | 297 | 4,955 | 999 | 46,296 |
| Western Coalfield | 50,205 | 0 | 1,522 | 0 | 48,683 |
| Western | 14,426 | 0 | 2,605 | 676 | 11,145 |
| Total hardwoods | 200,030 | 9,510 | 10,493 | 1,988 | 178,039 |
| All species | 211,336 | 10,452 | 10,719 | 1,988 | 188,177 |

Table 22—Total roundwood output by species group, detailed species group, and product, Kentucky, 1995

| Species group and detailed species group | Product | | | | | | Other miscellaneous |
|---|---------|---------|--------|----------|----------|--------------------|------------------------|
| | Total | Saw log | Veneer | Pulpwood | Fuelwood | Poles and posts | |
| <i>Thousand cubic feet</i> | | | | | | | |
| Softwood | | | | | | | |
| Cedar | 661 | 540 | 0 | 0 | 8 | 34 | 79 |
| White pine | 75 | 49 | 0 | 0 | 1 | 25 | 0 |
| Loblolly-shortleaf pine | 1,818 | 510 | 0 | 1,114 | 25 | 169 | 0 |
| Other yellow pines | 8,624 | 4,831 | 0 | 2,185 | 114 | 967 | 527 |
| Hemlock | 128 | 85 | 0 | 37 | 2 | 4 | 0 |
| Total softwoods | 11,306 | 6,015 | 0 | 3,336 | 150 | 1,199 | 606 |
| Hardwood | | | | | | | |
| Soft maple | 7,530 | 5,896 | 11 | 659 | 941 | 0 | 23 |
| Hard maple | 5,395 | 3,885 | 47 | 728 | 674 | 0 | 61 |
| Other birch | 870 | 584 | 1 | 154 | 109 | 0 | 22 |
| Hickory | 21,196 | 17,140 | 77 | 1,135 | 2,649 | 1 | 194 |
| Beech | 7,070 | 5,736 | 14 | 356 | 884 | 0 | 80 |
| Ash | 4,605 | 3,480 | 7 | 531 | 575 | 0 | 12 |
| Black walnut | 2,375 | 1,872 | 62 | 137 | 297 | 0 | 7 |
| Sweetgum | 5,012 | 3,474 | 30 | 865 | 626 | 0 | 17 |
| Yellow-poplar | 23,027 | 17,713 | 82 | 1,898 | 2,879 | 1 | 454 |
| Blackgum–tupelo | 2,022 | 1,611 | 3 | 140 | 252 | 0 | 16 |
| Sycamore | 1,155 | 909 | 8 | 84 | 144 | 0 | 10 |
| Cottonwood | 753 | 553 | 0 | 105 | 94 | 0 | 1 |
| Black cherry | 1,469 | 1,111 | 1 | 173 | 184 | 0 | 0 |
| Select white oaks | 29,606 | 22,878 | 109 | 2,732 | 3,699 | 3 | 185 |
| Other white oaks | 15,640 | 11,813 | 45 | 1,732 | 1,956 | 0 | 94 |
| Select red oaks | 13,672 | 10,354 | 35 | 1,466 | 1,709 | 0 | 108 |
| Other red oaks | 41,227 | 32,663 | 105 | 2,942 | 5,153 | 1 | 363 |
| Basswood | 1,353 | 1,019 | 1 | 112 | 169 | 0 | 52 |
| Elm | 3,947 | 2,991 | 2 | 455 | 493 | 0 | 6 |
| Other Eastern hardwoods | 12,105 | 9,543 | 369 | 630 | 1,512 | 0 | 51 |
| Total hardwoods | 200,030 | 155,225 | 1,009 | 17,034 | 24,999 | 7 | 1,756 |
| All species | 211,336 | 161,240 | 1,009 | 20,370 | 25,149 | 1,206 | 2,362 |

Table 23—Total roundwood output by species group, detailed species group, and ownership, Kentucky, 1995

| Species group and detailed species group | Total | National forest | Other public | Forest industry | Nonindustrial private |
|--|---------|-----------------|--------------|-----------------|-----------------------|
| <i>Thousand cubic feet</i> | | | | | |
| Softwood | | | | | |
| Cedar | 661 | 0 | 219 | 0 | 442 |
| White pine | 75 | 64 | 0 | 0 | 11 |
| Loblolly–shortleaf pine | 1,818 | 374 | 2 | 0 | 1,442 |
| Other yellow pines | 8,624 | 472 | 5 | 0 | 8,147 |
| Hemlock | 128 | 32 | 0 | 0 | 96 |
| Total softwoods | 11,306 | 942 | 226 | 0 | 10,138 |
| Hardwood | | | | | |
| Soft maple | 7,530 | 208 | 160 | 69 | 7,093 |
| Hard maple | 5,395 | 333 | 282 | 195 | 4,585 |
| Other birch | 870 | 154 | 0 | 0 | 716 |
| Hickory | 21,196 | 1,003 | 2,070 | 143 | 17,980 |
| Beech | 7,070 | 679 | 130 | 112 | 6,149 |
| Ash | 4,605 | 222 | 225 | 0 | 4,158 |
| Black walnut | 2,375 | 3 | 136 | 1 | 2,235 |
| Sweetgum | 5,012 | 0 | 383 | 0 | 4,629 |
| Yellow-poplar | 23,027 | 1,213 | 398 | 128 | 21,288 |
| Blackgum–tupelo | 2,022 | 8 | 162 | 33 | 1,819 |
| Sycamore | 1,156 | 22 | 58 | 0 | 1,076 |
| Cottonwood | 753 | 0 | 0 | 0 | 753 |
| Black cherry | 1,469 | 51 | 84 | 15 | 1,319 |
| Select white oaks | 29,606 | 1,161 | 2,177 | 423 | 25,845 |
| Other white oaks | 15,640 | 1,202 | 490 | 234 | 13,714 |
| Select red oaks | 13,672 | 690 | 990 | 121 | 11,871 |
| Other red oaks | 41,227 | 2,424 | 2,018 | 445 | 36,340 |
| Basswood | 1,353 | 95 | 0 | 33 | 1,225 |
| Elm | 3,947 | 5 | 288 | 10 | 3,644 |
| Other Eastern hardwoods | 12,105 | 38 | 442 | 25 | 11,600 |
| Total hardwoods | 200,030 | 9,511 | 10,493 | 1,987 | 178,039 |
| All species | 211,336 | 10,453 | 10,719 | 1,987 | 188,177 |

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Johnson, Tony G.; Jenkins, Anne; Lowe, Larry. 1997. Kentucky's timber industry—an assessment of timber product output and use, 1995. Resour. Bull. SRS-20. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station. 33 p.

In 1995, roundwood output from Kentucky's forests totaled more than 186 million cubic feet, 35 percent more than in 1986. Mill byproducts generated from primary manufacturers increased 84 percent to 110 million cubic feet. More than 94 percent of the plant residues were used primarily for fuel and fiber products. Saw logs were the leading roundwood product at 161 million cubic feet; pulpwood ranked second at 20 million cubic feet. The number of primary processing plants declined from 435 in 1986 to 401 in 1995. Total receipts increased 43 percent to almost 212 million cubic feet.

Keywords: Pulpwood, residues, roundwood, saw logs, veneer logs, wood movement.

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Forest Service

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