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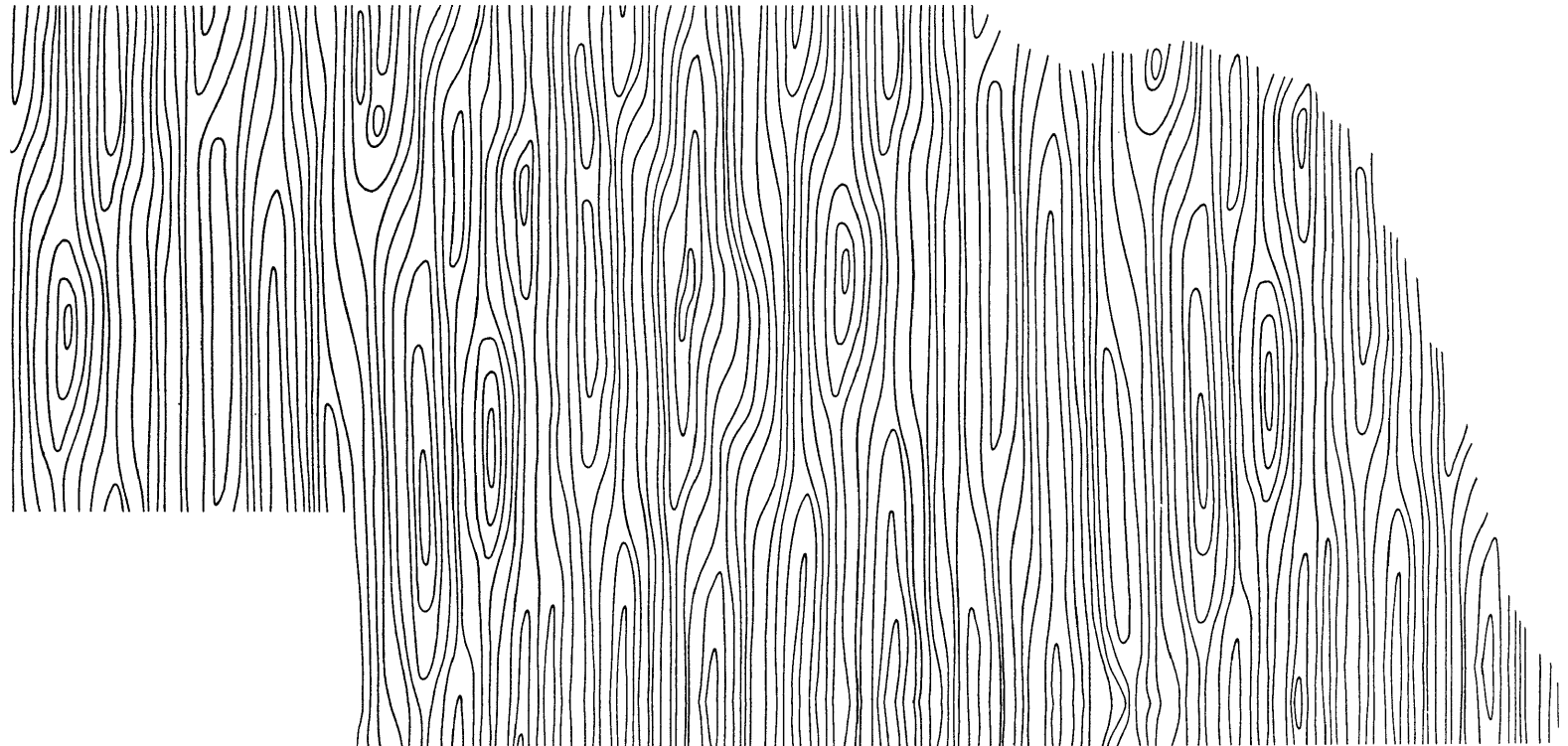
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# **Primary Forest Products Industry and Timber Use, Nebraska, 1980**

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## **FOREWORD**

This Bulletin contains the results of a detailed study of forest industry, timber products output from roundwood, and associated primary mill wood and bark residue in Nebraska in 1980. Such detailed information is necessary for intelligent planning and decisionmaking in wood procurement, forest resource management, and forest industry development. Likewise, researchers need current forest industry and timber products output information to plan projects.

Special thanks are given to the primary wood-using firms that supplied information for this study. Their cooperation is greatly appreciated.

Quantities shown may vary slightly from one table to another because of rounding differences, but these differences are insignificant.

## CONTENTS

|                                                               | <i>Page</i> |
|---------------------------------------------------------------|-------------|
| Highlights .....                                              | 1           |
| Appendix .....                                                | 2           |
| Study methods .....                                           | 2           |
| Sampling error .....                                          | 2           |
| Definition of terms .....                                     | 2           |
| Common and scientific names of tree species in Nebraska ..... | 3           |
| Tables 1-9 .....                                              | 4           |

# PRIMARY FOREST PRODUCTS INDUSTRY AND TIMBER USE, NEBRASKA, 1980

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## HIGHLIGHTS

- The number of active primary wood-using mills fell sharply from approximately 198 in 1953 to 46 in 1980. Forty-two of the 46 mills in 1980 were sawmills; nearly two-thirds of the sawmills were in the Eastern Forest Survey Unit (fig. 1).
- Timber products output (TPO) from roundwood climbed 161 percent between 1953 and 1980 to 15.3 million cubic feet. Harvest gains were chiefly in

oak, cottonwood, green ash, and hackberry. These were also the principal species harvested in 1980, supplying 72 percent of the roundwood.

- Average annual lumber production at sawmills increased from 43,000 board feet in 1953 to 498,000 board feet in 1980. In 1953, the largest sawmill produced about 700,000 board feet. In 1980, 7 mills each sawed 1 million or more board feet of lumber.
- About four-fifths (79 percent) of the TPO came from the Eastern Unit.

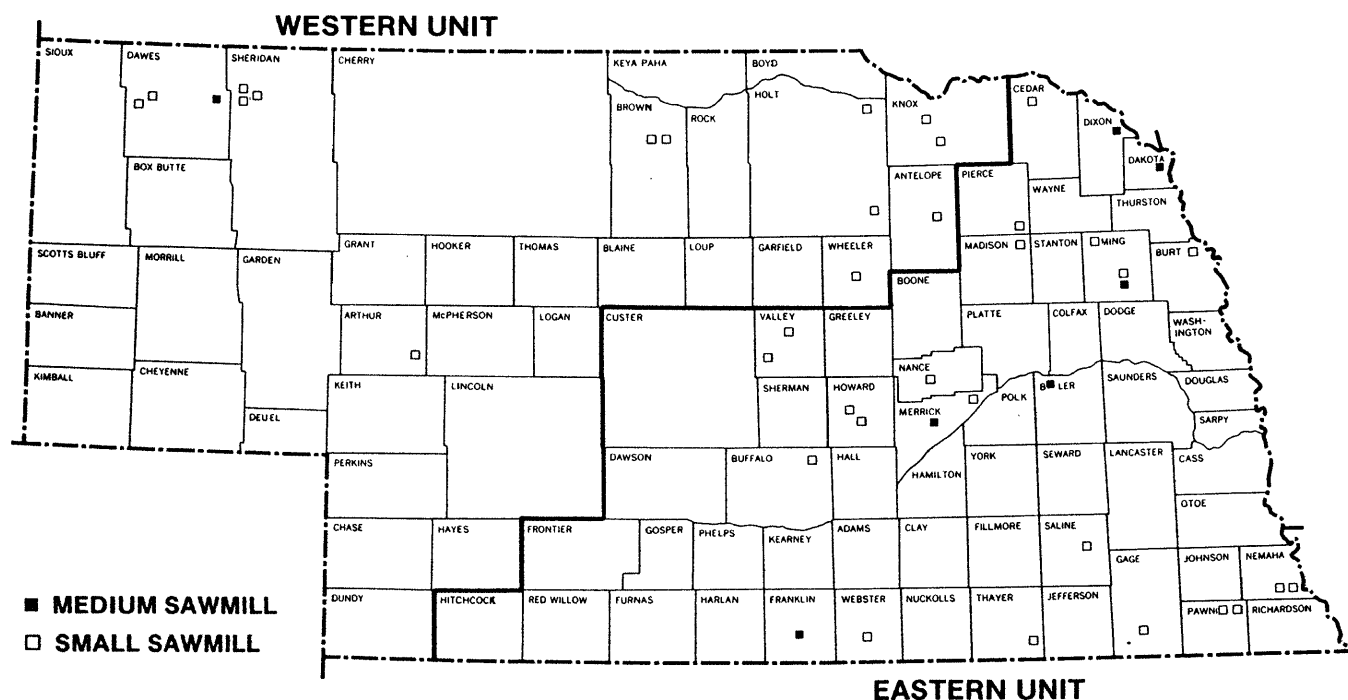


Figure 1.—Active sawmills and Forest Survey Units in Nebraska, 1980. Sawmills are classed by volume of lumber produced in 1980: medium = 1 to 5 million board feet; small = less than 1 million board feet. Forest Survey Units are the geographic areas used by the Forest Inventory and Analysis Project to report periodic inventories and use of the Nations' forest resources.

- Estimated fuelwood production from roundwood was 169,000 cords, accounting for 78 percent of the State's roundwood harvest. Fuelwood production from roundwood in 1980 was 1.9 times greater than that produced in 1953.
- Saw log production was 19.0 million board feet, up 132 percent from 1953. Cottonwood accounted for most of the increase, as well as 81 percent of the harvest in 1980. Other important species cut for saw logs were ponderosa pine and black walnut.
- Most of the saw log production was processed in Nebraska. Only 900,000 board feet were exported, primarily to Kansas. The Eastern Unit led in production (16.1 million board feet). Ponderosa pine was the major saw log species cut in the Western Unit.
- Counties each producing more than 1 million board feet of saw logs were (in order of importance) Sioux, Madison, Cuming, and Pierce. These counties furnished 24 percent of the Nebraska saw log harvest.
- Nebraska sawmills received 20.9 million board feet of logs in 1980. South Dakota supplied 2.2 million board feet; small amounts were supplied by Iowa, Kansas, and Missouri. Ninety-five percent of the imported volume was cottonwood.
- Sawmills in the Eastern Unit received 90 percent of all saw log receipts in Nebraska. Western Unit sawmills sawed all but a nominal amount of the ponderosa pine receipts.
- All of the imported saw logs were shipped to Eastern Unit sawmills.
- An estimated 331,000 posts were cut in Nebraska, down 37 percent from 1953. Osage-orange and ponderosa pine were the preferred species.
- During 1980, on a green weight basis, Nebraska primary wood-using mills generated 28,600 tons of coarse (chippable) wood residue, 17,300 tons of fine wood residue, and 12,600 tons of bark. Fuel was the dominant use for coarse wood and bark residue. Forty-two percent of the bark, 36 percent of the coarse wood residue, and 21 percent of the fine wood residue was not used for any purpose.

## APPENDIX

### STUDY METHODS

Except for fuelwood and posts, data for this publication came from canvassing all of the known primary wood-using mills that use Nebraska logs and

bolts. All canvassing in Nebraska was done with a formal questionnaire by mail, telephone, or personal contact by the Nebraska Forest Service (NFS). For a few Nebraska mills that did not furnish complete data, NFS utilization and marketing specialists provided estimates based on prior knowledge and contacts. Similar cooperative studies in other North Central States by the North Central Forest Experiment Station and State forest agencies provided data from out-of-State mills that used Nebraska logs and bolts.

General offices of railroads serving Nebraska were solicited by the Station to determine the volume of veneer logs shipped from Nebraska to seaports for export overseas.

Fuelwood and post production for 1980 in Nebraska were estimated by the NFS based on recent production studies, records, and discussions with others knowledgeable about these products.

The Station edited and compiled the data.

### SAMPLING ERROR

Because all primary wood-using mills were canvassed, there is no sampling error for the roundwood products they use.

### DEFINITION OF TERMS

**Roundwood.**—Logs, bolts, or other round sections cut from trees (including chips from roundwood).

**Timber products output from roundwood.**—Logs and bolts (including chips from roundwood) harvested for saw logs, veneer logs, cooperage logs, pulpwood, posts, fuelwood, and other products.

**Forest Survey Unit.**—A geographical area (group of counties) used by the Forest Inventory and Analysis Project to report periodic inventories and use of the Nation's forest resources.

**Primary wood-using mills.**—Mills using roundwood products (including chips from roundwood).

**Primary wood-using mill residue.**—Wood materials (coarse and fine) and bark not utilized for principal products at mills using roundwood. These residues include wood products (byproducts) obtained incidental to production of principal products and wood materials not utilized for some product.

**Coarse mill residue.**—Wood residue suitable for chipping such as slabs, edgings, and veneer cores.

**Fine mill residue.**—Wood residue not suitable for chipping such as sawdust and veneer clippings.

# COMMON AND SCIENTIFIC NAMES OF TREE SPECIES IN NEBRASKA

## SOFTWOODS

Ponderosa pine ..... *Pinus ponderosa*  
Redcedar (eastern)..... *Juniperus virginiana*

## HARDWOODS

Ash  
  Green ash ..... *Fraxinus pennsylvanica*  
  White ash ..... *Fraxinus americana*  
Aspen (quaking) ..... *Populus tremuloides*  
Balsam poplar ..... *Populus balsamifera*  
Basswood (American) ..... *Tilia americana*  
Boxelder ..... *Acer negundo*  
Cherry (black) ..... *Prunus serotina*  
Catalpa (northern) ..... *Catalpa speciosa*  
Cottonwood  
  Eastern cottonwood ..... *Populus deltoides*  
  Plains cottonwood ..... *Populus sargentii*  
Elm  
  American elm ..... *Ulmus americana*  
  Rock elm ..... *Ulmus thomasi*  
  Siberian elm ..... *Ulmus pumila*  
  Slippery elm ..... *Ulmus rubra*

Hackberry ..... *Celtis occidentalis*  
Hickory  
  Bitternut hickory ..... *Carya cordiformis*  
  Mockernut hickory ..... *Carya tomentosa*  
  Pecan ..... *Carya illinoensis*  
  Pignut hickory ..... *Carya glabra*  
  Shagbark hickory ..... *Carya ovata*  
  Shellbark hickory ..... *Carya laciniata*  
Honeylocust ..... *Gleditsia triacanthos*  
Maple (silver) ..... *Acer saccharinum*  
Red mulberry ..... *Morus rubra*  
Oak  
  Select red oaks  
    Northern red oak ..... *Quercus rubra*  
  Other red oaks  
    Black oak ..... *Quercus velutina*  
    Blackjack oak ..... *Quercus marilandica*  
  Select white oaks  
    Bur oak ..... *Quercus macrocarpa*  
    Chinkapin oak ..... *Quercus muehlenbergii*  
  Other white oaks  
    Swamp white oak ..... *Quercus bicolor*  
Osage-orange ..... *Maclura pomifera*  
Sycamore (American) ..... *Platanus occidentalis*  
Walnut (black) ..... *Juglans nigra*  
Willow (black) ..... *Salix nigra*

Table 1.--Timber products output from roundwood by species group and product, Nebraska, 1980

| Species          | All products       |                    | Saw logs           |                      | Fuelwood           |                         | Posts              |                    | Veneer logs        |                    | Other products |  |
|------------------|--------------------|--------------------|--------------------|----------------------|--------------------|-------------------------|--------------------|--------------------|--------------------|--------------------|----------------|--|
|                  | MCF <sup>1</sup> / | MBF <sup>2</sup> / | MCF <sup>1</sup> / | Cords <sup>3</sup> / | MCF <sup>1</sup> / | M pieces <sup>4</sup> / | MCF <sup>1</sup> / | MBF <sup>2</sup> / | MCF <sup>1</sup> / | MCF <sup>1</sup> / |                |  |
| Softwoods        |                    |                    |                    |                      |                    |                         |                    |                    |                    |                    |                |  |
| Ponderosa pine   | 472                | 1,621              | 282                | 316                  | 21                 | 83                      | 63                 | --                 | --                 | --                 | 106            |  |
| Eastern redcedar | 56                 | 152                | 31                 | --                   | --                 | 33                      | 25                 | --                 | --                 | --                 | --             |  |
| Total            | 528                | 1,773              | 313                | 316                  | 21                 | 116                     | 88                 | --                 | --                 | --                 | 106            |  |
| Hardwoods        |                    |                    |                    |                      |                    |                         |                    |                    |                    |                    |                |  |
| Green ash        | 1,702              | 56                 | 8                  | 24,192               | 1,694              | --                      | --                 | --                 | --                 | --                 | --             |  |
| Basswood         | 54                 | 35                 | 6                  | 665                  | 48                 | --                      | --                 | --                 | --                 | --                 | --             |  |
| Boxelder         | 222                | --                 | --                 | 3,190                | 222                | --                      | --                 | --                 | --                 | --                 | --             |  |
| Cottonwood       | 3,034              | 15,420             | 2,377              | 7,934                | 557                | 3                       | 1                  | 433                | 99                 | --                 | --             |  |
| Elm              | 593                | 24                 | 2                  | 8,434                | 591                | --                      | --                 | --                 | --                 | --                 | --             |  |
| Hackberry        | 948                | 23                 | 3                  | 13,495               | 944                | 3                       | 1                  | --                 | --                 | --                 | --             |  |
| Hickory          | 354                | --                 | --                 | 5,061                | 354                | --                      | --                 | --                 | --                 | --                 | --             |  |
| Soft maple       | 46                 | 59                 | 9                  | 506                  | 37                 | --                      | --                 | --                 | --                 | --                 | --             |  |
| Red oak          | 527                | 56                 | 9                  | 7,280                | 510                | 13                      | 8                  | --                 | --                 | --                 | --             |  |
| White Oak        | 4,813              | 430                | 73                 | 67,324               | 4,713              | 13                      | 7                  | --                 | --                 | --                 | 20             |  |
| Sycamore         | 121                | 15                 | 3                  | 1,687                | 118                | --                      | --                 | --                 | --                 | --                 | --             |  |
| Black walnut     | 195                | 1,097              | 164                | 255                  | 18                 | --                      | --                 | 98                 | 13                 | --                 | --             |  |
| Willow           | 881                | --                 | --                 | 12,560               | 881                | --                      | --                 | --                 | --                 | --                 | --             |  |
| Osage-orange     | 316                | --                 | --                 | 3,142                | 220                | 166                     | 96                 | --                 | --                 | --                 | --             |  |
| Other hardwoods  | 914                | 3                  | 5/                 | 12,959               | 906                | 17                      | 8                  | --                 | --                 | --                 | --             |  |
| Total            | 14,720             | 17,218             | 2,654              | 168,684              | 11,813             | 215                     | 121                | 531                | 112                | --                 | 20             |  |
| All species      | 15,248             | 18,991             | 2,967              | 169,000              | 11,834             | 331                     | 209                | 531                | 112                | --                 | 126            |  |

<sup>1</sup>/Thousand cubic feet.<sup>2</sup>/Thousand board feet, International 1/4-inch rule.<sup>3</sup>/Standard cords.<sup>4</sup>/Thousand pieces.<sup>5</sup>/Less than 500 cubic feet.

Table 2.--Timber products output from roundwood by species group, Nebraska, 1953 and 1980

(In thousand cubic feet)

| Species group    | 1953  | 1980   | Change |
|------------------|-------|--------|--------|
| Softwoods        |       |        |        |
| Ponderosa pine   | 53    | 472    | 419    |
| Eastern redcedar | 2     | 56     | 54     |
| Total            | 55    | 528    | 473    |
| Hardwoods        |       |        |        |
| Green ash        | 275   | 1,702  | 1,427  |
| Boxelder         | 328   | 222    | -106   |
| Cottonwood       | 1,109 | 3,034  | 1,925  |
| Elm              | 748   | 593    | -155   |
| Hackberry        | 4     | 948    | 944    |
| Soft maple       | 379   | 46     | -333   |
| Oak              | 1,497 | 5,340  | 3,843  |
| Osage-orange     | 343   | 316    | -27    |
| Black walnut     | 358   | 195    | -163   |
| Other hardwoods  | 736   | 2,324  | 1,588  |
| Total            | 5,777 | 14,720 | 8,943  |
| All species      | 5,832 | 15,248 | 9,416  |

Table 3.--Number of active primary wood-using mills by Unit, Nebraska, 1980

| Kind of mill                       | All Units | Eastern Unit | Western Unit |
|------------------------------------|-----------|--------------|--------------|
| Sawmills                           |           |              |              |
| Small <sup>1/</sup>                | 35        | 21           | 14           |
| Medium <sup>2/</sup>               | 7         | 6            | 1            |
| Cooperage mills                    | 1         | 1            | --           |
| Charcoal plants                    | 1         | 1            | --           |
| Miscellaneous plants <sup>3/</sup> | 2         | 1            | 1            |
| Total                              | 46        | 30           | 16           |

<sup>1/</sup>Annual lumber output less than 1 million board feet.

<sup>2/</sup>Annual lumber output from 1 to 5 million board feet.

<sup>3/</sup>Fence post concentration yards and treating plants.

Table 4.--Timber products output from roundwood by species group and Unit, Nebraska, 1980

(In thousand cubic feet)

| Species group    | All Units | Eastern Unit | Western Unit |
|------------------|-----------|--------------|--------------|
| Softwoods        |           |              |              |
| Ponderosa pine   | 472       | --           | 472          |
| Eastern redcedar | 56        | 34           | 22           |
| Total            | 528       | 34           | 494          |
| Hardwoods        |           |              |              |
| Green ash        | 1,702     | 1,232        | 470          |
| Basswood         | 54        | 50           | 4            |
| Boxelder         | 222       | 181          | 41           |
| Cottonwood       | 3,034     | 2,709        | 325          |
| Elm              | 593       | 552          | 41           |
| Hackberry        | 948       | 891          | 57           |
| Hickory          | 354       | 354          | --           |
| Soft maple       | 46        | 46           | --           |
| Red oak          | 527       | 527          | --           |
| White oak        | 4,813     | 3,551        | 1,262        |
| Sycamore         | 121       | 121          | --           |
| Black walnut     | 195       | 190          | 5            |
| Willow           | 881       | 672          | 209          |
| Osage-orange     | 316       | 284          | 32           |
| Other hardwoods  | 914       | 661          | 253          |
| Total            | 14,720    | 12,021       | 2,699        |
| All species      | 15,248    | 12,055       | 3,193        |

Table 5.--Saw log production by species group, Nebraska, 1953 and 1980

(In thousand board feet)<sup>1/</sup>

| Species group    | 1953 <sup>2/</sup> | 1980   | Change |
|------------------|--------------------|--------|--------|
| Softwoods        |                    |        |        |
| Ponderosa pine   | 372                | 1,621  | 1,249  |
| Eastern redcedar | 10                 | 152    | 142    |
| Total            | 382                | 1,773  | 1,391  |
| Hardwoods        |                    |        |        |
| Green ash        | 41                 | 56     | 15     |
| Basswood         | 6                  | 35     | 29     |
| Cottonwood       | 6,464              | 15,420 | 8,956  |
| Elm              | 162                | 24     | -138   |
| Hackberry        | 28                 | 23     | -5     |
| Soft maple       | 288                | 59     | -229   |
| Oak              | 358                | 486    | 128    |
| Sycamore         | 4                  | 15     | 11     |
| Black walnut     | 462                | 1,097  | 635    |
| Other hardwoods  | 2                  | 3      | 1      |
| Total            | 7,815              | 17,218 | 9,403  |
| All species      | 8,197              | 18,991 | 10,794 |

<sup>1/</sup>International 1/4-inch rule.

<sup>2/</sup>Estimated based on lumber production.

Table 6.--Saw log production by Unit, species group and  
State of destination, Nebraska, 1980

(In thousand board feet)<sup>1/</sup>

| ALL UNITS        |        |          |        |          |
|------------------|--------|----------|--------|----------|
| Species group    | All    | State    |        |          |
|                  | States | Nebraska | Kansas | Missouri |
| Softwoods        |        |          |        |          |
| Ponderosa pine   | 1,621  | 1,621    | --     | --       |
| Eastern redcedar | 152    | 152      | --     | --       |
| Total            | 1,773  | 1,773    | --     | --       |
| Hardwoods        |        |          |        |          |
| Green ash        | 56     | 56       | --     | --       |
| Basswood         | 35     | 35       | --     | --       |
| Cottonwood       | 15,420 | 15,340   | 80     | --       |
| Elm              | 24     | 24       | --     | --       |
| Hackberry        | 23     | 20       | 3      | --       |
| Soft maple       | 59     | 59       | --     | --       |
| Red oak          | 56     | 56       | --     | --       |
| White oak        | 430    | 430      | --     | --       |
| Sycamore         | 15     | 15       | --     | --       |
| Black walnut     | 1,097  | 264      | 585    | 248      |
| Other hardwoods  | 3      | 3        | --     | --       |
| Total            | 17,218 | 16,302   | 668    | 248      |
| All species      | 18,991 | 18,075   | 668    | 248      |
| EASTERN UNIT     |        |          |        |          |
| Softwoods        |        |          |        |          |
| Ponderosa pine   | --     | --       | --     | --       |
| Eastern redcedar | 139    | 139      | --     | --       |
| Total            | 139    | 139      | --     | --       |
| Hardwoods        |        |          |        |          |
| Green ash        | 55     | 55       | --     | --       |
| Basswood         | 35     | 35       | --     | --       |
| Cottonwood       | 14,259 | 14,179   | 80     | --       |
| Elm              | 15     | 15       | --     | --       |
| Hackberry        | 22     | 19       | 3      | --       |
| Soft maple       | 59     | 59       | --     | --       |
| Red oak          | 56     | 56       | --     | --       |
| White oak        | 420    | 420      | --     | --       |
| Sycamore         | 15     | 15       | --     | --       |
| Black walnut     | 1,065  | 232      | 585    | 248      |
| Other hardwoods  | 2      | 2        | --     | --       |
| Total            | 16,003 | 15,087   | 668    | 248      |
| All species      | 16,142 | 15,226   | 668    | 248      |
| WESTERN UNIT     |        |          |        |          |
| Softwoods        |        |          |        |          |
| Ponderosa pine   | 1,621  | 1,621    | --     | --       |
| Eastern redcedar | 13     | 13       | --     | --       |
| Total            | 1,634  | 1,634    | --     | --       |
| Hardwoods        |        |          |        |          |
| Green ash        | 1      | 1        | --     | --       |
| Basswood         | --     | --       | --     | --       |
| Cottonwood       | 1,161  | 1,161    | --     | --       |
| Elm              | 9      | 9        | --     | --       |
| Hackberry        | 1      | 1        | --     | --       |
| Soft maple       | --     | --       | --     | --       |
| Red oak          | --     | --       | --     | --       |
| White oak        | 10     | 10       | --     | --       |
| Sycamore         | --     | --       | --     | --       |
| Black walnut     | 32     | 32       | --     | --       |
| Other hardwoods  | 1      | 1        | --     | --       |
| Total            | 1,215  | 1,215    | --     | --       |
| All species      | 2,849  | 2,849    | --     | --       |

<sup>1/</sup>International 1/4-inch rule.

Table 7.--Saw log production by unit, county, and species group, Nebraska, 1980  
(In thousand board feet)<sup>1/</sup>

| EASTERN UNIT |             |                |           |           |           |             |     |            |            |         |           |          |              |                 |
|--------------|-------------|----------------|-----------|-----------|-----------|-------------|-----|------------|------------|---------|-----------|----------|--------------|-----------------|
| County       | All species | Species group  |           |           |           |             |     |            |            |         |           |          |              |                 |
|              |             | Ponderosa pine | Red-cedar | Green ash | Bass-wood | Cotton-wood | Elm | Hack-berry | Soft maple | Red oak | White oak | Sycamore | Black walnut | Other hardwoods |
| Boone        | 223         | --             | --        | --        | --        | 223         | --  | --         | --         | --      | --        | --       | --           | --              |
| Buffalo      | 80          | --             | 14        | 8         | --        | 41          | 1   | --         | --         | --      | --        | 1        | 14           | 1               |
| Burt         | 127         | --             | --        | 10        | --        | 62          | --  | --         | --         | --      | --        | --       | 48           | --              |
| Butler       | 459         | --             | --        | --        | --        | 413         | --  | --         | 7          | --      | 46        | --       | --           | --              |
| Cass         | 280         | --             | --        | --        | --        | 174         | --  | --         | --         | --      | --        | --       | 106          | --              |
| Cedar        | 525         | --             | --        | --        | --        | 525         | --  | --         | --         | --      | --        | --       | --           | --              |
| Colfax       | 206         | --             | --        | --        | --        | 206         | --  | --         | --         | --      | --        | --       | --           | --              |
| Cuming       | 1,075       | --             | --        | 1         | --        | 1,066       | --  | --         | 1          | --      | --        | --       | 7            | --              |
| Dakota       | 104         | --             | --        | --        | --        | 104         | --  | --         | --         | --      | --        | --       | --           | --              |
| Dixon        | 125         | --             | --        | 7         | --        | 104         | --  | --         | 7          | --      | --        | --       | 7            | --              |
| Dodge        | 189         | --             | --        | --        | --        | 189         | --  | --         | --         | --      | --        | --       | --           | --              |
| Douglas      | 32          | --             | --        | --        | --        | 32          | --  | --         | --         | --      | --        | --       | --           | --              |
| Franklin     | 697         | --             | --        | --        | --        | 697         | --  | --         | --         | --      | --        | --       | --           | --              |
| Furnas       | 8           | --             | --        | --        | --        | 8           | --  | --         | --         | --      | --        | --       | --           | --              |
| Gage         | 135         | --             | --        | --        | --        | --          | --  | --         | --         | 21      | 41        | --       | 73           | --              |
| Greeley      | 207         | --             | --        | --        | --        | 207         | --  | --         | --         | --      | --        | --       | --           | --              |
| Hall         | 97          | --             | --        | --        | --        | 97          | --  | --         | --         | --      | --        | --       | --           | --              |
| Hamilton     | 97          | --             | --        | --        | --        | 97          | --  | --         | --         | --      | --        | --       | --           | --              |
| Harlan       | 414         | --             | --        | --        | --        | 414         | --  | --         | --         | --      | --        | --       | --           | --              |
| Hitchcock    | 25          | --             | --        | --        | --        | 22          | --  | 3          | --         | --      | --        | --       | --           | --              |
| Howard       | 117         | --             | 2         | --        | --        | 105         | --  | --         | --         | --      | 7         | --       | 3            | --              |
| Jefferson    | 1           | --             | --        | --        | --        | --          | --  | --         | --         | --      | --        | --       | --           | --              |
| Johnson      | 114         | --             | --        | 1         | --        | 3           | --  | 1          | 4          | --      | 1         | --       | 98           | --              |
| Lancaster    | 286         | --             | --        | --        | --        | 268         | --  | --         | --         | --      | 18        | --       | --           | --              |
| Madison      | 1,188       | --             | --        | --        | --        | 1,188       | --  | --         | --         | --      | --        | --       | --           | --              |
| Merrick      | 666         | --             | 110       | --        | --        | 556         | --  | --         | --         | --      | --        | --       | --           | --              |
| Nance        | 599         | --             | --        | --        | --        | 599         | --  | --         | --         | --      | --        | --       | --           | --              |
| Nemaha       | 814         | --             | --        | --        | --        | 683         | --  | --         | --         | --      | --        | 4        | 127          | --              |
| Otoe         | 633         | --             | --        | --        | --        | 475         | --  | --         | --         | --      | --        | 4        | 154          | --              |
| Pawnee       | 575         | --             | 1         | 7         | --        | 224         | --  | 11         | 23         | 21      | 115       | --       | 173          | --              |
| Pierce       | 1,001       | --             | --        | --        | --        | 1,001       | --  | --         | --         | --      | --        | --       | --           | --              |
| Platte       | 335         | --             | 1         | --        | --        | 331         | --  | --         | --         | --      | --        | --       | 3            | --              |
| Polk         | 650         | --             | --        | --        | --        | 650         | --  | --         | --         | --      | --        | --       | --           | --              |
| Red Willow   | 36          | --             | --        | --        | --        | 36          | --  | --         | --         | --      | --        | --       | --           | --              |
| Richardson   | 835         | --             | --        | 4         | --        | 574         | --  | 6          | 11         | --      | 54        | 6        | 180          | --              |
| Saline       | 288         | --             | --        | --        | --        | 233         | --  | --         | --         | --      | 55        | --       | --           | --              |
| Sarpy        | 63          | --             | --        | --        | --        | 15          | --  | --         | --         | --      | --        | --       | 48           | --              |
| Saunders     | 336         | --             | --        | --        | --        | 299         | --  | --         | --         | --      | 37        | --       | --           | --              |
| Seward       | 409         | --             | --        | --        | --        | 381         | --  | --         | --         | --      | 28        | --       | --           | --              |
| Sherman      | 111         | --             | --        | --        | --        | 111         | --  | --         | --         | --      | --        | --       | --           | --              |
| Stanton      | 174         | --             | --        | 1         | --        | 165         | --  | --         | 1          | --      | --        | --       | 7            | --              |
| Thayer       | 11          | --             | --        | --        | --        | 10          | --  | --         | --         | --      | 1         | --       | --           | --              |
| Thurston     | 229         | --             | --        | --        | 35        | 166         | 14  | --         | --         | 14      | --        | --       | --           | --              |
| Valley       | 138         | --             | 11        | 15        | --        | 100         | --  | 1          | 1          | --      | --        | --       | 9            | 1               |
| Washington   | 59          | --             | --        | 1         | --        | 47          | --  | --         | 4          | --      | --        | --       | 7            | --              |
| Wayne        | 380         | --             | --        | --        | --        | 380         | --  | --         | --         | --      | --        | --       | --           | --              |
| Webster      | 628         | --             | --        | --        | --        | 628         | --  | --         | --         | --      | --        | --       | --           | --              |
| York         | 361         | --             | --        | --        | --        | 350         | --  | --         | --         | --      | 10        | --       | 1            | --              |
| Total        | 16,142      | --             | 139       | 55        | 35        | 14,259      | 15  | 22         | 59         | 56      | 420       | 15       | 1,065        | 2               |

(Table 7 continued on next page)

(Table 7 continued)

Table 7. Continued.

| County      | WESTERN UNIT |                |           |           |           |             |     |            |            |         |           |          |              |                 |
|-------------|--------------|----------------|-----------|-----------|-----------|-------------|-----|------------|------------|---------|-----------|----------|--------------|-----------------|
|             | All species  | Ponderosa pine | Red-cedar | Green ash | Bass-wood | Cotton-wood | Elm | Hack-berry | Soft maple | Red oak | White oak | Sycamore | Black walnut | Other hardwoods |
| Antelope    | 60           | 3              | 1         | --        | --        | 28          | --  | --         | --         | --      | --        | --       | 28           | --              |
| Arthur      | 14           | --             | 3         | --        | --        | 6           | 3   | 1          | --         | --      | --        | --       | 1            | --              |
| Brown       | 34           | 27             | 3         | 1         | --        | 1           | --  | --         | --         | 1       | --        | --       | 1            | --              |
| Dawes       | 171          | 171            | --        | --        | --        | --          | --  | --         | --         | --      | --        | --       | --           | --              |
| Garfield    | 277          | --             | --        | --        | --        | 276         | --  | --         | --         | --      | --        | --       | --           | 1               |
| Holt        | 363          | --             | 4         | --        | --        | 349         | 3   | --         | --         | 6       | --        | --       | 1            | --              |
| Keya Paha   | 18           | 13             | 2         | --        | --        | 2           | --  | --         | --         | --      | --        | --       | 1            | --              |
| Knox        | 404          | --             | --        | --        | --        | 398         | 3   | --         | --         | 3       | --        | --       | --           | --              |
| Sheridan    | 110          | 110            | --        | --        | --        | --          | --  | --         | --         | --      | --        | --       | --           | --              |
| Sioux       | 1,296        | 1,296          | --        | --        | --        | --          | --  | --         | --         | --      | --        | --       | --           | --              |
| Thomas      | 1            | 1              | --        | --        | --        | --          | --  | --         | --         | --      | --        | --       | --           | --              |
| Wheeler     | 101          | --             | --        | --        | --        | 101         | --  | --         | --         | --      | --        | --       | --           | --              |
| Total       | 2,849        | 1,621          | 13        | 1         | --        | 1,161       | 9   | 1          | --         | --      | 10        | --       | 32           | 1               |
| State total | 18,991       | 1,621          | 152       | 56        | 35        | 15,420      | 24  | 23         | 59         | 56      | 430       | 15       | 1,097        | 3               |

1/ International 1/4-inch rule.

Table 8.--Saw log receipts by Unit, species group, and State of origin,  
Nebraska, 1980

(In thousand board feet)<sup>1/</sup>

| Species group    | ALL UNITS  |          |              |      |        |          |
|------------------|------------|----------|--------------|------|--------|----------|
|                  | All States | Nebraska | South Dakota | Iowa | Kansas | Missouri |
| Softwoods        |            |          |              |      |        |          |
| Ponderosa pine   | 1,621      | 1,621    | --           | --   | --     | --       |
| Eastern redcedar | 152        | 152      | --           | --   | --     | --       |
| Total            | 1,773      | 1,773    | --           | --   | --     | --       |
| Hardwoods        |            |          |              |      |        |          |
| Green ash        | 56         | 56       | --           | --   | --     | --       |
| Basswood         | 35         | 35       | --           | --   | --     | --       |
| Cottonwood       | 18,016     | 15,340   | 2,209        | 380  | 4      | 83       |
| Elm              | 24         | 24       | --           | --   | --     | --       |
| Hackberry        | 20         | 20       | --           | --   | --     | --       |
| Soft maple       | 59         | 59       | --           | --   | --     | --       |
| Red oak          | 56         | 56       | --           | --   | --     | --       |
| White oak        | 555        | 430      | --           | --   | 125    | --       |
| Sycamore         | 15         | 15       | --           | --   | --     | --       |
| Black walnut     | 285        | 264      | --           | 3    | 18     | --       |
| Other hardwoods  | 3          | 3        | --           | --   | --     | --       |
| Total            | 19,124     | 16,302   | 2,209        | 383  | 147    | 83       |
| All species      | 20,897     | 18,075   | 2,209        | 383  | 147    | 83       |
| EASTERN UNIT     |            |          |              |      |        |          |
| Softwoods        |            |          |              |      |        |          |
| Ponderosa pine   | 1          | 1        | --           | --   | --     | --       |
| Eastern redcedar | 139        | 139      | --           | --   | --     | --       |
| Total            | 140        | 140      | --           | --   | --     | --       |
| Hardwoods        |            |          |              |      |        |          |
| Green ash        | 55         | 55       | --           | --   | --     | --       |
| Basswood         | 35         | 35       | --           | --   | --     | --       |
| Cottonwood       | 17,608     | 14,932   | 2,209        | 380  | 4      | 83       |
| Elm              | 15         | 15       | --           | --   | --     | --       |
| Hackberry        | 19         | 19       | --           | --   | --     | --       |
| Soft maple       | 59         | 59       | --           | --   | --     | --       |
| Red oak          | 56         | 56       | --           | --   | --     | --       |
| White oak        | 545        | 420      | --           | --   | 125    | --       |
| Sycamore         | 15         | 15       | --           | --   | --     | --       |
| Black walnut     | 253        | 232      | --           | 3    | 18     | --       |
| Other hardwoods  | 3          | 3        | --           | --   | --     | --       |
| Total            | 18,663     | 15,841   | 2,209        | 383  | 147    | 83       |
| All species      | 18,803     | 15,981   | 2,209        | 383  | 147    | 83       |
| WESTERN UNIT     |            |          |              |      |        |          |
| Softwoods        |            |          |              |      |        |          |
| Ponderosa pine   | 1,620      | 1,620    | --           | --   | --     | --       |
| Eastern redcedar | 13         | 13       | --           | --   | --     | --       |
| Total            | 1,633      | 1,633    | --           | --   | --     | --       |
| Hardwoods        |            |          |              |      |        |          |
| Green ash        | 1          | 1        | --           | --   | --     | --       |
| Cottonwood       | 408        | 408      | --           | --   | --     | --       |
| Elm              | 9          | 9        | --           | --   | --     | --       |
| Hackberry        | 1          | 1        | --           | --   | --     | --       |
| White oak        | 10         | 10       | --           | --   | --     | --       |
| Black walnut     | 32         | 32       | --           | --   | --     | --       |
| Total            | 461        | 461      | --           | --   | --     | --       |
| All species      | 2,094      | 2,094    | --           | --   | --     | --       |

<sup>1/</sup>International 1/4-inch rule.

Table 9.--Residue produced at primary wood-using mills by type of material, type of use, and Unit, Nebraska, 1980

(In thousand tons green weight)

| Unit and<br>type of use     | Wood residue |          |                      |          |                    |          |          |          |
|-----------------------------|--------------|----------|----------------------|----------|--------------------|----------|----------|----------|
|                             | Total        |          | Coarse <sup>1/</sup> |          | Fine <sup>2/</sup> |          | Bark     |          |
|                             | Softwood     | Hardwood | Softwood             | Hardwood | Softwood           | Hardwood | Softwood | Hardwood |
| Eastern Unit                |              |          |                      |          |                    |          |          |          |
| Domestic fuel <sup>3/</sup> | 0.04         | 10.95    | 0.04                 | 10.90    | --                 | 0.05     | --       | 5.47     |
| Miscellaneous <sup>3/</sup> | .25          | 16.75    | .15                  | 4.48     | .10                | 12.27    | .04      | .62      |
| Not used                    | --           | 13.48    | --                   | 10.23    | --                 | 3.25     | --       | 4.96     |
| Total                       | .29          | 41.18    | .19                  | 25.61    | .10                | 15.57    | .04      | 11.05    |
| Western Unit                |              |          |                      |          |                    |          |          |          |
| Domestic fuel <sup>3/</sup> | 1.53         | .60      | 1.53                 | .60      | --                 | --       | .64      | .27      |
| Miscellaneous <sup>3/</sup> | 1.55         | .19      | .49                  | --       | 1.06               | .19      | .28      | --       |
| Not used                    | .38          | .16      | .18                  | .01      | .20                | .15      | .35      | --       |
| Total                       | 3.46         | .95      | 2.20                 | .61      | 1.26               | .34      | 1.27     | .27      |
| All Units                   |              |          |                      |          |                    |          |          |          |
| Domestic fuel <sup>3/</sup> | 1.57         | 11.55    | 1.57                 | 11.50    | --                 | .05      | .64      | 5.74     |
| Miscellaneous <sup>3/</sup> | 1.80         | 16.94    | .64                  | 4.48     | 1.16               | 12.46    | .32      | .62      |
| Not used                    | .38          | 13.64    | .18                  | 10.24    | .20                | 3.40     | .35      | 4.96     |
| Total                       | 3.75         | 42.13    | 2.39                 | 26.22    | 1.36               | 15.91    | 1.31     | 11.32    |

<sup>1/</sup>Suitable for chipping such as slabs, edgings, veneer cores, etc.

<sup>2/</sup>Not suitable for chipping such as sawdust, veneer clippings, etc.

<sup>3/</sup>Livestock bedding, poultry litter, mulch, small dimension, specialty items, etc.

Blyth, James E.; Wardle, Tom D.; Smith, W. Brad.

Primary forest products industry and timber use, Nebraska, 1980. Resour. Bull. NC-80. St. Paul, MN: U.S. Department of Agriculture, Forest Services, North Central Forest Experiment Station; 1984. 11 p.

Highlights recent Nebraska forest industry trends, production and receipts of saw logs in 1980, and production of other timber products in 1980. Reports on wood and bark residue generated at primary mills and the disposition of this residue.

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**KEY WORDS:** Saw logs, sawmills, fuelwood, posts, mill residue.