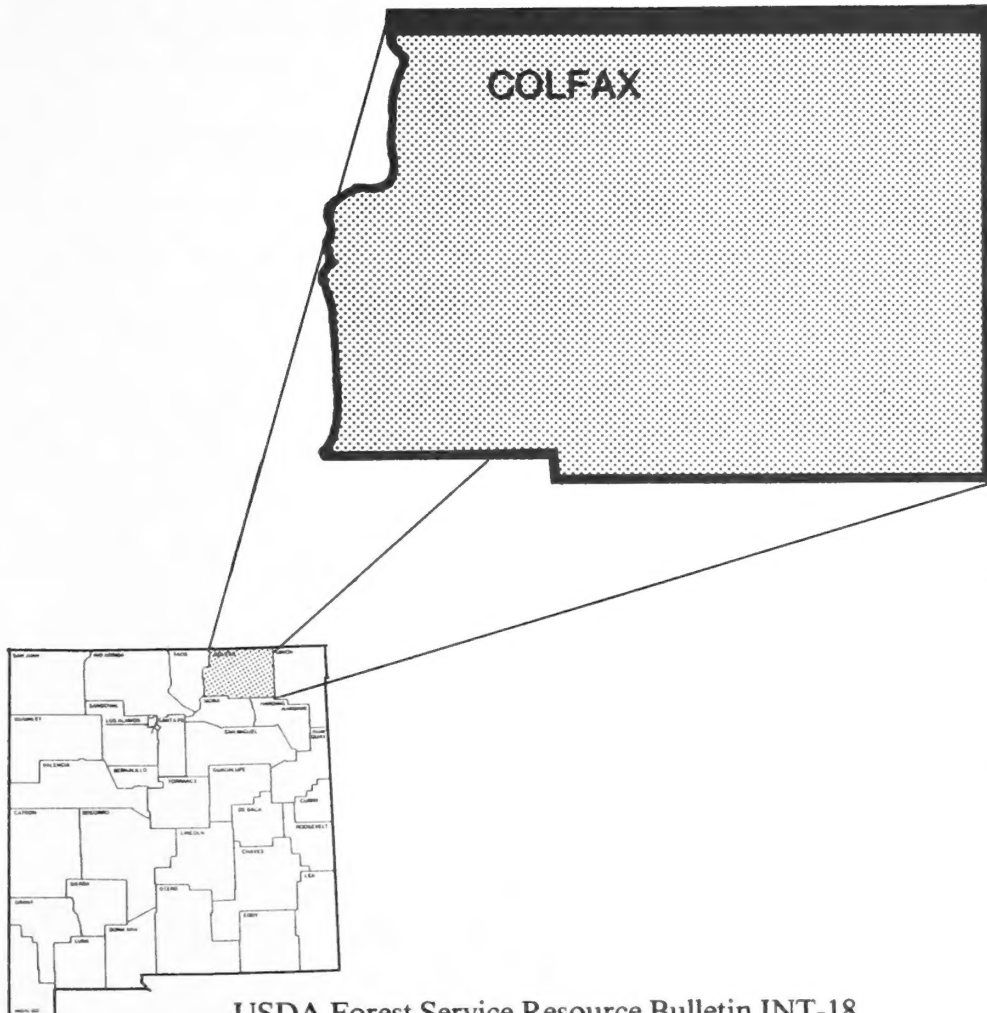


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FOREST AREA AND TIMBER RESOURCE STATISTICS FOR COLFAX COUNTY, NEW MEXICO, 1976

MICHAEL K. BARRETT
and
DOROTHY G. SHUPE



USDA Forest Service Resource Bulletin INT-18
INTERMOUNTAIN FOREST AND RANGE EXPERIMENT STATION
FOREST SERVICE, U.S. DEPARTMENT OF AGRICULTURE

USDA Forest Service
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April 1980

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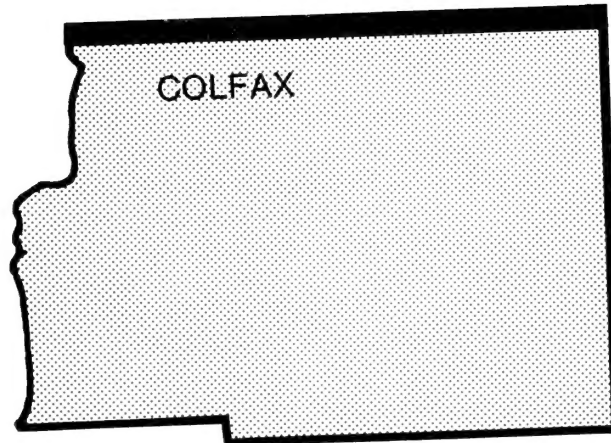
RESEARCH SUMMARY

Presents land area, commercial timberland area, timber inventory, and growth and mortality data based on Resources Evaluation standards.

CONTENTS

| | Page |
|---------------------------------------|------|
| INTRODUCTION | 1 |
| HIGHLIGHTS | 3 |
| Area. | 3 |
| Inventory | 3 |
| Growth and Mortality. | 4 |
| DATA RELIABILITY | 4 |
| TERMINOLOGY AND DATA TABLES. | 5 |
| TERMINOLOGY. | 5 |
| Land. | 5 |
| Water | 5 |
| Land Use Classes. | 5 |
| Public Ownership Classes. | 5 |
| Private Ownership Classes | 6 |
| Forest Type and Tree Species. | 6 |
| Area Condition Classes. | 6 |
| Class of Timber | 7 |
| Tree Size Classes | 8 |
| Volume. | 8 |
| Growth and Mortality. | 8 |
| Site. | 8 |
| Stand-Size Classes. | 8 |
| FOREST SURVEY TABLES | 9 |

Colfax County



INTRODUCTION

A comprehensive timber resource study was conducted on State and private lands in Colfax County, New Mexico (fig. 1) from 1975 to 1976 by the New Mexico Department of State Forestry in cooperation with the Division of State and Private Forestry, Forest Service, Region 3, and the Intermountain Forest and Range Experiment Station.

The total land area in Colfax County is 2,408,960 acres (974,876 hectares). The Forest Service and the Bureau of Land Management together manage 12,039 acres (4,872 hectares), only about one-half of one percent of this land. The remaining 2,396,921 acres (970,004 hectares) are in State, private, and other ownerships. The data presented here are for State, private, and County and municipal lands only.

Highlights show the area of commercial timberland in comparison to total forest land area, and the distribution of this area by forest type, stand-size class, and site class. Discussions of the data reliability and terminology are included. These two items should be reviewed carefully when using this information.

NEW MEXICO

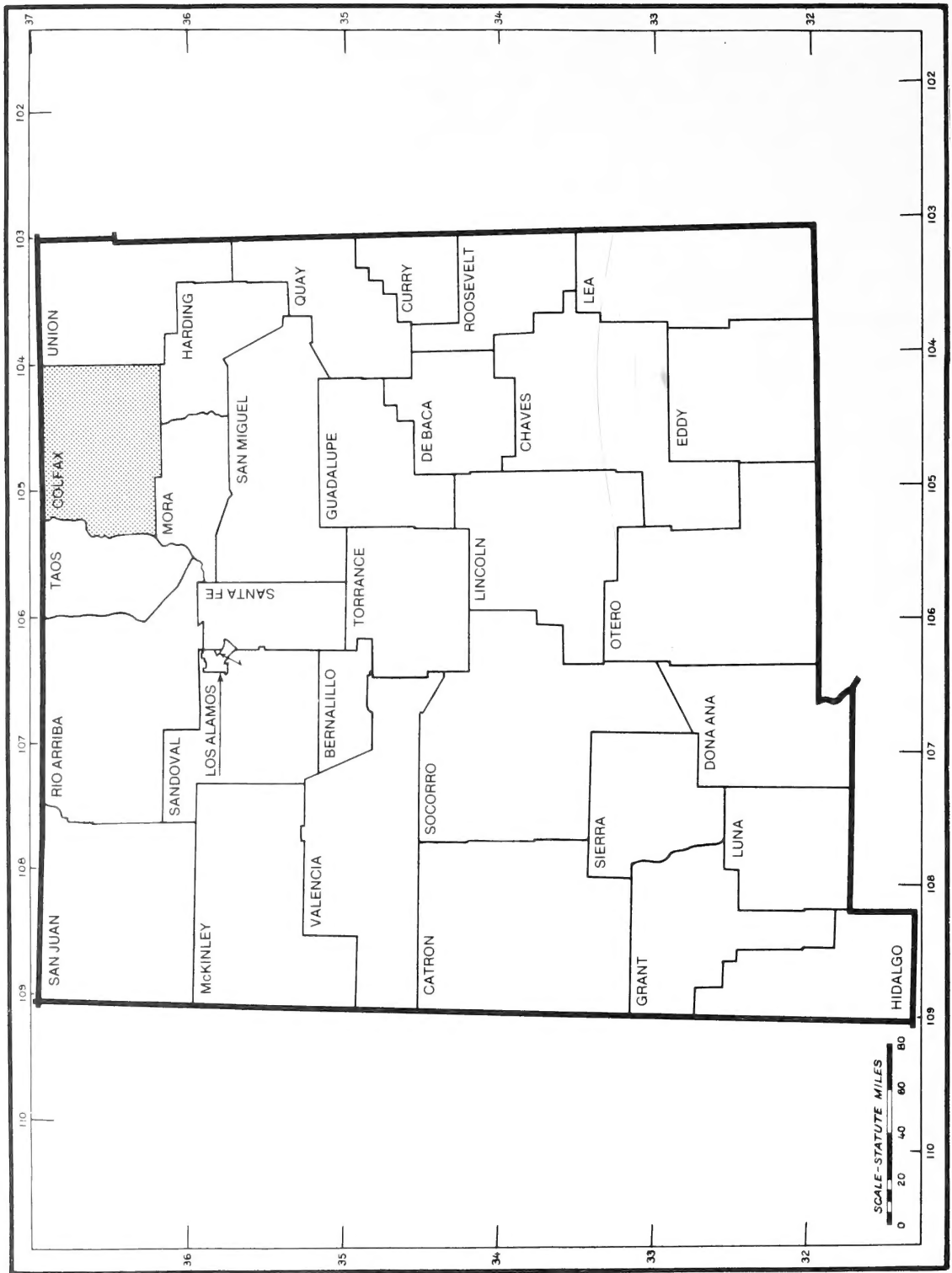


Figure 1.--Location of Colfax County in New Mexico.

HIGHLIGHTS

Area

- The forest land area is 883,803 acres (357,664 hectares), or 37 percent of the total State and private land area in the County.
- Of the forest land, 532,433 acres (215,469 hectares), or 60 percent are classified as commercial timberland.
- Private ownership accounts for 474,063 acres (191,847 hectares), or 89 percent of the commercial timberland.
- The predominant forest types are ponderosa pine, Douglas-fir, and Engelmann spruce which together occupy 81 percent of the commercial timberland. The remaining area consists of pinyon-juniper,¹ aspen, spruce-subalpine fir, and white fir forest types.
- Sixty percent of the commercial timberland is sawtimber stands; poletimber stands occupy 21 percent; the remaining 19 percent is in sapling and seedling stands and nonstocked.
- Nearly 90 percent of the commercial timberland is in the 20 to 49 cubic-foot productivity class.

Inventory

- Growing stock volume amounts to 311,917 thousand cubic feet (8,833 thousand cubic meters) with the major portion, about 70 percent, in softwood sawtimber trees.
- Rough, rotten, and salvable dead trees comprised 30,279 thousand cubic feet (857 thousand cubic meters), or 8.8 percent, of the total sound wood volume.
- About 90 percent of the 1,068,065 thousand board feet² of sawtimber volume is in sawtimber trees less than 21 inches d.b.h.
- Ponderosa pine and Engelmann spruce together make up 65 percent of the growing stock volume and 74 percent of the sawtimber volume. Species sharing the remaining percentage are Douglas-fir, white fir, subalpine fir, aspen, pinyon pine, juniper, and limber pine. Pinyon and juniper account for less than 2 percent of the total growing stock volume.
- About 87 percent of the softwood growing stock volume and 88 percent of the softwood sawtimber volume is privately owned.

¹The area occupied by pinyon-juniper forest type classified as commercial is so classified because the site index for other associated species on these stands (usually ponderosa pine or Douglas-fir) was high enough to indicate a site potential productivity level exceeding 20 cubic feet per acre per year average annual growth, and nonstockable indicators were not present in sufficient quantities to lower the yield capability below 20 cubic feet per acre per year. Although pinyon/juniper usually occurs on unproductive forest land, when it occurs in mixtures with other species on productive sites, it is reported in the commercial timberland statistics.

²International 1/4-inch rule.

Growth and Mortality

- Net annual growth of growing stock totaled 8,144,792 cubic feet (230,635 cubic meters) with 89 percent occurring in softwood species; mainly ponderosa pine, Engelmann spruce, and Douglas-fir. Growth and mortality were not measured for pinyon and juniper trees.

- About 87 percent of the total net growth is on private land.

- The annual mortality of 556,007 cubic feet (15,744 cubic meters) offsets 6.4 percent of the gross annual growth.

- Fire and logging activity accounted for 37 percent of the mortality.

- Over 70 percent of the mortality occurs in ponderosa pine.

DATA RELIABILITY

Individual cells within tables should be used with caution. Some are based on very small sample sizes, and so result in high sampling errors. The standard error percents shown in tables 1 and 2 were calculated at the 67 percent confidence level.

Table 1.--Area of forest land and percent standard error for Colfax County, 1976

| Item | Softwood types | | Hardwood types | | All types | |
|-----------------------|----------------|-----------|----------------|-----------|-----------|----------|
| | | Percent: | | Percent: | | Percent |
| | Acres | standard: | Acres | standard: | Acres | standard |
| | | error : | | error : | | error |
| Commercial timberland | 496,538 | 5.8 | 35,895 | 41.4 | 532,433 | 4.9 |
| Other forest land | 193,480 | 11.7 | 157,890 | 12.7 | 351,370 | 8.3 |

Table 2.--Net volume and net annual growth and annual mortality of growing stock and sawtimber on commercial timberland, with percent standard error for Colfax County, 1976

| Item | Softwoods | | Hardwoods | | All species | |
|--|------------|-----------|-----------|-----------|-------------|----------|
| | | Percent: | | Percent: | | Percent |
| | Volume | standard: | Volume | standard: | Volume | standard |
| | | error : | | error : | | error |
| Net volume: | | | | | | |
| Growing stock (M cubic feet) | 284,166 | 9.6 | 27,751 | 45.1 | 311,917 | 9.6 |
| Sawtimber (M board feet ¹) | 1,040,069 | 11.7 | 27,996 | 56.0 | 1,068,065 | 11.5 |
| Net annual growth: | | | | | | |
| Growing stock (cubic feet) | 7,257,000 | 10.3 | 887,792 | 34.8 | 8,144,792 | 10.4 |
| Sawtimber (board feet ¹) | 31,198,284 | 14.0 | 650,232 | 53.2 | 31,848,516 | 13.7 |
| Annual mortality: | | | | | | |
| Growing stock (cubic feet) | 556,007 | 42.8 | -- | 0 | 556,007 | 42.8 |
| Sawtimber (board feet ¹) | 1,994,652 | 48.6 | -- | 0 | 1,994,652 | 48.6 |

¹International 1/4-inch rule.

TERMINOLOGY AND DATA TABLES

The following terminology section contains definitions that are relevant to the timber resource data presented in this resource bulletin. Forest area and timber resource data for Colfax County, New Mexico, are displayed in tables 3 through 23.

TERMINOLOGY

Land

Bureau of the Census.--The area of dry land and land temporarily or partly covered by water, such as marshes, swamps, and river flood plains; streams, sloughs, estuaries, and canals less than 1/8 of a statute mile in width; and lakes, reservoirs, and ponds less than 40 acres in area.

Water

Census water.--As defined by the Bureau of the Census: streams, sloughs, estuaries, and canals more than 1/8 of a statute mile in width; and lakes, reservoirs, and ponds more than 40 acres in area.

Noncensus water.--The same as defined by the Bureau of the Census, except minimum width of streams, etc., is 120 feet and minimum size of lakes, etc., is 1 acre.

Land Use Classes

Forest land.--Land at least 16.7 percent stocked by forest trees of any size, or formerly having had such tree cover, and not currently developed for nonforest use.

Commercial timberland.--Forest land producing or capable of producing crops of industrial wood and not withdrawn from timber utilization. (Note: Areas qualifying have the capability of producing in excess of 20 cubic feet per acre per year of industrial wood under management. Currently inaccessible and inoperable areas are included, except when the areas involved are small and unlikely to become suitable for production of industrial wood in the foreseeable future.)

Productive-reserved forest land.--Forest land sufficiently productive to qualify as commercial timberland, but withdrawn from timber utilization through statute, administrative designation, or exclusive use for Christmas tree production.

Other forest land.--(1) Forest land incapable of producing 20 cubic feet per acre of industrial wood under management, because of adverse site conditions; (2) unproductive-reserved forest land.

Nonforest land.--Land that has never supported forests and lands formerly forested where use for timber management is precluded by development for other uses.

Public Ownership Classes

National Forest land.--Federal lands legally designated as National Forest or purchase units, and other lands under the administration of the Forest Service, including experimental areas and Bankhead-Jones Title III lands.

Bureau of Land Management lands.--Federal lands administered by the Bureau of Land Management.

Indian lands.--Tribal lands held in fee by the Federal Government, but administered for Indian tribal groups and Indian trust allotments.

State lands.--Lands owned by States, or lands leased to these governmental units for 50 years or more.

Private Ownership Classes

County and municipal lands.--Lands owned by counties and local public agencies or municipalities, or lands leased to these governmental units for 50 years or more.

Forest industry lands.--Lands owned by companies or individuals operating wood-using plants.

Farmer-owned lands.--Lands owned by farm operators. (Note: These exclude lands leased by farm operators from nonfarm owners, such as railroad companies and States.)

Miscellaneous Federal lands.--Federal lands other than the following: (1) National Forest lands; (2) lands administered by the Bureau of Land Management; and (3) Indian lands.

Miscellaneous private lands.--Privately owned lands other than forest industry and farmer-owned lands.

Forest Type and Tree Species

Forest types.--A classification of forest land based upon the species forming a plurality of live-tree stocking.

Forest trees.--Woody plants having a well-developed stem and usually more than 12 feet in height at maturity.

Commercial species.--Tree species presently or prospectively suitable for industrial wood products.

Softwoods.--Coniferous trees, usually evergreen, having needles or scalelike leaves.

Hardwoods.--Dicotyledonous trees, usually broad-leaved and deciduous.

Area Condition Classes

Stocking.--Stocking is an effort to express the extent to which growing space is effectively utilized by present or potential growing stock trees of commercial species. "Percent of stocking" is synonymous with "percentage of growing space occupied" and means the ratio of actual stocking to full stocking for comparable sites and stands. Basal area is used as a basis for measuring stocking.

"Stocking percentages" express current area occupancy in relation to specified standards for full stocking based on number, size, and spacing of trees considered necessary to fully utilize the forest land.

Full utilization of the site is assumed to occur over a range of basal area. As an interim guide 60 percent of the normal yield table values has been used to establish the lower limit of the range, which represents full-site occupancy. This is called 100-percent stocking. The upper limit of full stocking has been set at 132 percent. Sites with less than 100-percent stocking represent understocking with less than full-site occupancy. Overstocking is characterized by sites with over 133-percent stocking.

Class 10.--Area fully stocked (100-132 percent) with desirable trees and not overstocked (133 percent or more).

Class 20.--Area fully stocked with desirable trees, but overstocked with all live trees.

Class 30.--Areas medium to fully stocked (60-99 percent) with desirable trees and with less than 30 percent of the area controlled by other trees and (or) inhibiting vegetation or surface conditions that will prevent occupancy by desirable trees.

Class 40.--Areas medium to fully stocked with desirable trees and with 30 percent or more of the area controlled by other trees and (or) conditions that ordinarily prevent occupancy by desirable trees.

Class 50.--Areas poorly stocked (16.7-59 percent) with desirable trees, but fully stocked with growing stock trees.

Class 60.--Areas poorly stocked with desirable trees, but with medium to full stocking of growing stock trees.

Class 70.--Areas nonstocked (less than 16.7 percent) or poorly stocked with desirable trees, and poorly stocked with growing stock trees.

Class 80.--Low-risk old-growth stands.

Class 90.--High-risk old-growth stands.

Nonstocked.--Areas less than 16.7 percent stocked with growing stock trees.

Class of Timber

Growing stock trees.--Live trees of commercial species qualifying as desirable or acceptable trees. (Note: Excludes rough, rotten, and dead trees.)

Desirable trees.--Growing stock trees (a) having no serious defect in quality limiting present or prospective use for timber products; (b) of relatively high vigor; and (c) containing no pathogens that may result in death or serious deterioration before rotation age.

Acceptable trees.--Growing stock trees that meet specified standards of size and quality, but not qualifying as desirable trees.

Rough trees.--(1) Live trees of commercial species that do not contain at least one 12-foot saw log or two noncontiguous saw logs, each 8 feet long or longer, now or prospectively, and (or) do not meet Rocky Mountain Regional specifications for freedom from defect primarily because of roughness or poor form; (2) all live trees of non-commercial species.

Rotten trees.--Live trees that do not contain at least one 12-foot saw log or two noncontiguous saw logs, each 8 feet long or longer, now or prospectively, and (or) do not meet Rocky Mountain Regional specifications for freedom from defect primarily because of rot; that is, when more than 50 percent of the cull volume (cubic-foot basis) in a tree is rotten.

Cull.--Portions of a tree that are unusable for industrial wood products because of rot, form, or other defect.

Salvable dead trees.--Standing or down dead trees that are considered merchantable by Rocky Mountain Regional standards.

Mortality trees.--Trees, formerly growing stock, dying from natural causes during a specified period, usually 1 year.

Saw-log portion.--That part of the bole of sawtimber trees between the stump and the saw-log top. A 1-foot stump is used.

Upper-stem portion.--That part of the bole of sawtimber trees above the saw log top to a minimum top diameter of 4.0 inches outside bark or to the point where the central stem breaks into limbs, whichever occurs first.

Tree Size Classes

Seedlings.--Live trees less than 1.0 inch in diameter at breast height.

Saplings.--Trees 1.0-4.9 inches in diameter at breast height.

Poletimber trees.--Trees at least 5.0 inches in d.b.h., but smaller than sawtimber size.

Sawtimber trees.--Trees exceeding poletimber size. In the Intermountain States, the minimum d.b.h. for softwood sawtimber is 9.0 inches, and 11.0 inches for hardwoods.

Volume

Net volume.--Gross volume less deductions for rot, sweep, or other defect affecting use for timber products.

Growing stock volume.--Net volume in cubic feet of live sawtimber trees and live poletimber trees from stump to a minimum 4.0-inch top (of central stem) outside bark. Net volume equals gross volume less deduction for rot and missing bole sections.

Sawtimber volume.--Net volume in board feet of sawtimber trees of commercial species. Net volume equals gross volume less deduction for rot, sweep, crook, and other defects that affect use for lumber.

Growth and Mortality

Net annual growth.--The increase in net growing stock volume of a specified size class for a specific year. (Note: Components of net annual growth include the increment in net volume of trees at the beginning of the specific year surviving to its end, plus net volume of trees reaching the size class during the year, minus the net volume of trees that died during the year, minus the net volume of trees that became rough or rotten trees during the year.)

Mortality.--Number or sound-wood volume of growing stock trees dying from natural causes during a specified period.

Site

Site class.--A classification of forest land in terms of inherent capacity to grow crops of industrial wood.

Site classifications are based upon the mean net annual growth of growing stock (not including thinnings or mortality loss) attainable at culmination of mean net annual growth over age. Height-age relationships are usually used as indicators of the specified volume-site class.

Stand-Size Classes

Sawtimber stands.--Stands at least 16.7 percent stocked with growing stock trees, with half or more of total stocking in sawtimber or poletimber trees, and with sawtimber stocking at least equal to poletimber stocking.

Poletimber stands.--Stands at least 16.7 percent stocked with growing stock trees in which half or more of this stocking is in poletimber and (or) sawtimber trees, and with poletimber stocking exceeding that of sawtimber.

Sapling-seedling stands.--Stands at least 16.7 percent stocked with growing stock trees in which more than half of the stocking is saplings and (or) seedlings.

Nonstocked land.--Commercial timberland less than 16.7 percent stocked with growing stock trees.

FOREST SURVEY TABLES

Table 3.--Total area in Colfax County by ownership class, 1976

| Ownership class | Acres | Hectares |
|-------------------------------|------------------|----------------|
| National Forest ¹ | 11,778 | 4,766 |
| Bureau of Land Management | 261 | 106 |
| Indian | -- | -- |
| State | 282,600 | 114,365 |
| Private and other | 2,114,321 | 855,639 |
| Total land area | 2,408,960 | 974,876 |
| Census water | 4,544 | 1,839 |
| Gross area² | 2,413,504 | 976,715 |

¹Includes National Grasslands administered by National Forest Systems.

²U.S. Bureau of the Census, land and water area of the United States, 1970.

Table 4.--Land area in Colfax County by major land class and ownership class, 1976

| Land class | Ownership class | | | |
|--------------------------|-----------------|----------------|----------------------|----------------|
| | State | | Private ¹ | |
| | Acres | Hectares | Acres | Hectares |
| Commercial timberland | 58,370 | 23,622 | 474,063 | 191,847 |
| Productive reserved | -- | -- | -- | -- |
| Other forest land: | | | | |
| Unproductive reserved | -- | -- | -- | -- |
| Unproductive nonreserved | 35,444 | 14,344 | 315,926 | 127,851 |
| Total forest land | 93,814 | 37,966 | 789,989 | 319,698 |
| Nonforest land | 188,786 | 76,399 | 1,324,332 | 535,941 |
| Total land area | 282,600 | 114,365 | 2,114,321 | 855,639 |

¹On this and all later tables, the private ownership category includes a negligible portion of county and municipal ownership.

Table 5.--Area of commercial timberland in Colfax County by forest type, stand-size class, and site class, State owned, 1976

| Forest type and stand-size class | Site class | | | | Total | |
|----------------------------------|------------|---------|--------|---------------|--------|--------|
| | 165+ | 120-164 | 85-119 | 50-84 : 20-49 | | acres |
| ----- Acres ----- | | | | | | |
| Douglas-fir: | | | | | | |
| Sawtimber | -- | -- | -- | -- | 2,544 | 2,544 |
| Poletimber | -- | -- | -- | 1,330 | 3,991 | 5,321 |
| Sapling and seedling | -- | -- | -- | -- | 2,826 | 2,826 |
| Nonstocked | -- | -- | -- | -- | -- | -- |
| Total | -- | -- | -- | 1,330 | 9,361 | 10,691 |
| Ponderosa pine: | | | | | | |
| Sawtimber | -- | -- | -- | -- | 18,254 | 18,254 |
| Poletimber | -- | -- | -- | -- | 4,658 | 4,658 |
| Sapling and seedling | -- | -- | -- | -- | 654 | 654 |
| Nonstocked | -- | -- | -- | -- | 2,268 | 2,268 |
| Total | -- | -- | -- | -- | 25,834 | 25,834 |
| Spruce-subalpine fir: | | | | | | |
| Sawtimber | -- | -- | -- | 1,330 | -- | 1,330 |
| Poletimber | -- | -- | -- | -- | 1,331 | 1,331 |
| Sapling and seedling | -- | -- | -- | -- | -- | -- |
| Nonstocked | -- | -- | -- | -- | -- | -- |
| Total | -- | -- | -- | 1,330 | 1,331 | 2,661 |
| White fir: | | | | | | |
| Sawtimber | -- | -- | -- | 654 | 1,330 | 1,984 |
| Poletimber | -- | -- | -- | -- | -- | -- |
| Sapling and seedling | -- | -- | -- | -- | 654 | 654 |
| Nonstocked | -- | -- | -- | -- | -- | -- |
| Total | -- | -- | -- | 654 | 1,984 | 2,638 |
| Engelmann spruce: | | | | | | |
| Sawtimber | -- | -- | 1,295 | 1,295 | 2,259 | 4,849 |
| Poletimber | -- | -- | -- | -- | 2,661 | 2,661 |
| Sapling and seedling | -- | -- | -- | 1,295 | -- | 1,295 |
| Nonstocked | -- | -- | -- | -- | -- | -- |
| Total | -- | -- | 1,295 | 2,590 | 4,920 | 8,805 |
| Pinyon-juniper: | | | | | | |
| Sawtimber | -- | -- | -- | -- | 568 | 568 |
| Poletimber | -- | -- | -- | -- | 198 | 198 |
| Sapling and seedling | -- | -- | -- | -- | 761 | 761 |
| Nonstocked | -- | -- | -- | -- | 199 | 199 |
| Total | -- | -- | -- | -- | 1,726 | 1,726 |
| Total softwoods: | | | | | | |
| Sawtimber | -- | -- | 1,295 | 3,279 | 24,955 | 29,529 |
| Poletimber | -- | -- | -- | 1,330 | 12,839 | 14,169 |
| Sapling and seedling | -- | -- | -- | 1,295 | 4,895 | 6,190 |
| Nonstocked | -- | -- | -- | -- | 2,467 | 2,467 |
| Total | -- | -- | 1,295 | 5,904 | 45,156 | 52,355 |
| Aspen: | | | | | | |
| Sawtimber | -- | -- | -- | 1,330 | -- | 1,330 |
| Poletimber | -- | -- | -- | 1,071 | -- | 1,071 |
| Sapling and seedling | -- | -- | -- | 654 | 2,960 | 3,614 |
| Nonstocked | -- | -- | -- | -- | -- | -- |
| Total | -- | -- | -- | 3,055 | 2,960 | 6,015 |
| All types: | | | | | | |
| Sawtimber | -- | -- | 1,295 | 4,609 | 24,955 | 30,859 |
| Poletimber | -- | -- | -- | 2,401 | 12,839 | 15,240 |
| Sapling and seedling | -- | -- | -- | 1,949 | 7,855 | 9,804 |
| Nonstocked | -- | -- | -- | -- | 2,467 | 2,467 |
| Total | -- | -- | 1,295 | 8,959 | 48,116 | 58,370 |

Table 6.--Area of commercial timberland in Colfax County by forest type, stand-size class, and site class, private owned, 1976

| Forest type and stand-size class | Site class | | | | | Total acres |
|----------------------------------|------------|---------|--------|--------|---------|-------------|
| | 165+ | 120-164 | 85-119 | 50-84 | 20-49 | |
| ----- Acres ----- | | | | | | |
| Douglas-fir: | | | | | | |
| Sawtimber | -- | -- | -- | -- | 32,104 | 32,104 |
| Poletimber | -- | -- | -- | 6,411 | 19,231 | 25,642 |
| Sapling and seedling | -- | -- | -- | -- | 15,050 | 15,050 |
| Nonstocked | -- | -- | -- | -- | -- | -- |
| Total | -- | -- | -- | 6,411 | 66,385 | 72,796 |
| Ponderosa pine: | | | | | | |
| Sawtimber | -- | -- | -- | -- | 201,458 | 201,458 |
| Poletimber | -- | -- | -- | -- | 42,377 | 42,377 |
| Sapling and seedling | -- | -- | -- | -- | 2,856 | 2,856 |
| Nonstocked | -- | -- | -- | -- | 28,953 | 28,953 |
| Total | -- | -- | -- | -- | 275,644 | 275,644 |
| Spruce-subalpine fir: | | | | | | |
| Sawtimber | -- | -- | -- | 6,410 | -- | 6,410 |
| Poletimber | -- | -- | -- | -- | 6,410 | 6,410 |
| Sapling and seedling | -- | -- | -- | -- | -- | -- |
| Nonstocked | -- | -- | -- | -- | -- | -- |
| Total | -- | -- | -- | 6,410 | 6,410 | 12,820 |
| White fir: | | | | | | |
| Sawtimber | -- | -- | -- | 2,856 | 6,410 | 9,266 |
| Poletimber | -- | -- | -- | -- | -- | -- |
| Sapling and seedling | -- | -- | -- | -- | 2,856 | 2,856 |
| Nonstocked | -- | -- | -- | -- | -- | -- |
| Total | -- | -- | -- | 2,856 | 9,266 | 12,122 |
| Engelmann spruce: | | | | | | |
| Sawtimber | -- | -- | 5,261 | 5,261 | 7,772 | 18,294 |
| Poletimber | -- | -- | -- | -- | 12,821 | 12,821 |
| Sapling and seedling | -- | -- | -- | 5,261 | -- | 5,261 |
| Nonstocked | -- | -- | -- | -- | -- | -- |
| Total | -- | -- | 5,261 | 10,522 | 20,593 | 36,376 |
| Pinyon-juniper: | | | | | | |
| Sawtimber | -- | -- | -- | -- | 15,269 | 15,269 |
| Poletimber | -- | -- | -- | -- | 7,996 | 7,996 |
| Sapling and seedling | -- | -- | -- | -- | 3,164 | 3,164 |
| Nonstocked | -- | -- | -- | -- | 7,996 | 7,996 |
| Total | -- | -- | -- | -- | 34,425 | 34,425 |
| Total softwoods: | | | | | | |
| Sawtimber | -- | -- | 5,261 | 14,527 | 263,013 | 282,801 |
| Poletimber | -- | -- | -- | 6,411 | 88,835 | 95,246 |
| Sapling and seedling | -- | -- | -- | 5,261 | 23,926 | 29,187 |
| Nonstocked | -- | -- | -- | -- | 36,949 | 36,949 |
| Total | -- | -- | 5,261 | 26,199 | 412,723 | 444,183 |
| Aspen: | | | | | | |
| Sawtimber | -- | -- | -- | 6,410 | -- | 6,410 |
| Poletimber | -- | -- | -- | 2,819 | -- | 2,819 |
| Sapling and seedling | -- | -- | -- | 2,856 | 17,795 | 20,651 |
| Nonstocked | -- | -- | -- | -- | -- | -- |
| Total | -- | -- | -- | 12,085 | 17,795 | 29,880 |
| All types: | | | | | | |
| Sawtimber | -- | -- | 5,261 | 20,937 | 263,013 | 289,211 |
| Poletimber | -- | -- | -- | 9,230 | 88,835 | 98,065 |
| Sapling and seedling | -- | -- | -- | 8,117 | 41,721 | 49,838 |
| Nonstocked | -- | -- | -- | -- | 36,949 | 36,949 |
| Total | -- | -- | 5,261 | 38,284 | 430,518 | 474,063 |

Table 7.--Area of commercial timberland in Colfax County by forest type, stand-size class, and site class, summary--State and private, 1976

| Forest type and stand-size class | Site class | | | | | Total acres |
|----------------------------------|------------|---------|--------|--------|---------|-------------|
| | 165+ | 120-164 | 85-119 | 50-84 | 20-49 | |
| ----- Acres ----- | | | | | | |
| Douglas-fir: | | | | | | |
| Sawtimber | -- | -- | -- | -- | 34,648 | 34,648 |
| Poletimber | -- | -- | -- | 7,741 | 23,222 | 30,963 |
| Sapling and seedling | -- | -- | -- | -- | 17,876 | 17,876 |
| Nonstocked | -- | -- | -- | -- | -- | -- |
| Total | -- | -- | -- | 7,741 | 75,746 | 83,487 |
| Ponderosa pine: | | | | | | |
| Sawtimber | -- | -- | -- | -- | 219,712 | 219,712 |
| Poletimber | -- | -- | -- | -- | 47,035 | 47,035 |
| Sapling and seedling | -- | -- | -- | -- | 3,510 | 3,510 |
| Nonstocked | -- | -- | -- | -- | 31,221 | 31,221 |
| Total | -- | -- | -- | -- | 301,478 | 301,478 |
| Spruce-subalpine fir: | | | | | | |
| Sawtimber | -- | -- | -- | 7,740 | -- | 7,740 |
| Poletimber | -- | -- | -- | -- | 7,741 | 7,741 |
| Sapling and seedling | -- | -- | -- | -- | -- | -- |
| Nonstocked | -- | -- | -- | -- | -- | -- |
| Total | -- | -- | -- | 7,740 | 7,741 | 15,481 |
| White fir: | | | | | | |
| Sawtimber | -- | -- | -- | 3,510 | 7,740 | 11,250 |
| Poletimber | -- | -- | -- | -- | -- | -- |
| Sapling and seedling | -- | -- | -- | -- | 3,510 | 3,510 |
| Nonstocked | -- | -- | -- | -- | -- | -- |
| Total | -- | -- | -- | 3,510 | 11,250 | 14,760 |
| Engelmann spruce: | | | | | | |
| Sawtimber | -- | -- | 6,556 | 6,556 | 10,031 | 23,143 |
| Poletimber | -- | -- | -- | -- | 15,482 | 15,482 |
| Sapling and seedling | -- | -- | -- | 6,556 | -- | 6,556 |
| Nonstocked | -- | -- | -- | -- | -- | -- |
| Total | -- | -- | 6,556 | 13,112 | 25,513 | 45,181 |
| Pinyon-juniper: | | | | | | |
| Sawtimber | -- | -- | -- | -- | 15,837 | 15,837 |
| Poletimber | -- | -- | -- | -- | 8,194 | 8,194 |
| Sapling and seedling | -- | -- | -- | -- | 3,925 | 3,925 |
| Nonstocked | -- | -- | -- | -- | 8,195 | 8,195 |
| Total | -- | -- | -- | -- | 36,151 | 36,151 |
| Total softwoods: | | | | | | |
| Sawtimber | -- | -- | 6,556 | 17,806 | 287,968 | 312,330 |
| Poletimber | -- | -- | -- | 7,741 | 101,674 | 109,415 |
| Sapling and seedling | -- | -- | -- | 6,556 | 28,821 | 35,377 |
| Nonstocked | -- | -- | -- | -- | 39,416 | 39,416 |
| Total | -- | -- | 6,556 | 32,103 | 457,879 | 496,538 |
| Aspen: | | | | | | |
| Sawtimber | -- | -- | -- | 7,740 | -- | 7,740 |
| Poletimber | -- | -- | -- | 3,890 | -- | 3,890 |
| Sapling and seedling | -- | -- | -- | 3,510 | 20,755 | 24,265 |
| Nonstocked | -- | -- | -- | -- | -- | -- |
| Total | -- | -- | -- | 15,140 | 20,755 | 35,895 |
| All types: | | | | | | |
| Sawtimber | -- | -- | 6,556 | 25,546 | 287,968 | 320,070 |
| Poletimber | -- | -- | -- | 11,631 | 101,674 | 113,305 |
| Sapling and seedling | -- | -- | -- | 10,066 | 49,576 | 59,642 |
| Nonstocked | -- | -- | -- | -- | 39,416 | 39,416 |
| Total | -- | -- | 6,556 | 47,243 | 478,634 | 532,433 |

Table 8.--Area of commercial timberland in Colfax County by stand volume and ownership classes, 1976

| Stand volume per acre ¹ | Ownership class | |
|------------------------------------|-----------------|---------|
| | State | Private |
| | 54,781 | 459,880 |
| Less than 1,500 board feet | | 514,661 |
| 1,500 to 4,999 board feet | 3,589 | 14,183 |
| 5,000 to 9,999 board feet | -- | -- |
| 10,000 board feet or more | -- | -- |
| All classes | 58,370 | 474,063 |
| | | 532,433 |

¹International 1/4-inch rule.

Table 9.--Area of commercial timberland in Colfax County by forest type and area condition class; State and private, 1976

| Forest type | Area condition class | | | | | | | | | Nonstocked | All classes | |
|----------------------|----------------------|-------|--------|----|--------|---------|---------|--------|--------|------------|-------------|---------|
| | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | | | |
| | -- | -- | 29,778 | -- | -- | 10,135 | 40,064 | 3,510 | -- | -- | 83,487 | 33,786 |
| Douglas-fir | -- | -- | -- | -- | 8,194 | 68,572 | 134,795 | 24,432 | 34,264 | 31,221 | 301,478 | 122,005 |
| Ponderosa pine | -- | -- | 15,481 | -- | -- | -- | -- | -- | -- | -- | 15,481 | 6,266 |
| Spruce-subalpine fir | -- | -- | 3,510 | -- | 7,741 | -- | 3,509 | -- | -- | -- | 14,760 | 5,973 |
| White fir | -- | -- | 17,773 | -- | -- | 20,852 | -- | -- | 6,556 | -- | 45,181 | 18,284 |
| Engelmann spruce | -- | -- | -- | -- | -- | 7,643 | 12,118 | -- | 8,195 | 8,195 | 36,151 | 14,629 |
| Pinyon-juniper | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total softwoods | -- | -- | 66,542 | -- | 15,935 | 107,202 | 190,486 | 27,942 | 49,015 | 39,416 | 496,538 | 200,943 |
| Aspen | -- | 7,643 | 10,065 | -- | 3,890 | 6,556 | 7,741 | -- | -- | -- | -- | 35,895 |
| All types | -- | 7,643 | 76,607 | -- | 19,825 | 113,758 | 198,227 | 27,942 | 49,015 | 39,416 | 532,433 | 215,469 |

Table 10.--Area of unproductive nonreserved forest land in Colfax County
by forest type and ownership class, 1976

| Forest type | Ownership class | | | | | |
|-----------------|-----------------|----------|---------|----------|-------------------|----------|
| | State | | Private | | State and private | |
| | Acres | Hectares | Acres | Hectares | Acres | Hectares |
| Pinyon-juniper | 4,796 | 1,941 | 70,962 | 28,717 | 75,758 | 30,658 |
| Mixed softwoods | 7,297 | 2,953 | 110,425 | 44,688 | 117,722 | 47,641 |
| Aspen | 3,259 | 1,319 | 11,433 | 4,627 | 14,692 | 5,946 |
| Mixed hardwoods | 20,092 | 8,131 | 123,106 | 49,819 | 143,198 | 57,950 |
| All types | 35,444 | 14,344 | 315,926 | 127,851 | 351,370 | 142,195 |

Table 11.--Number of growing stock trees on commercial timberland in Colfax County
by species and diameter class; State and private, 1976

| Species | Diameter class (inches at breast height) | | | | | | | | | | | | | | | | | | | All classes |
|------------------|--|-------------|-------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------|---------|--|--|--|-------------|
| | Thousand trees | | | | | | | | | | | | | | | | | | | |
| | 1.0- 2.9 | 3.0- 4.9 | 5.0- 6.9 | 7.0- 8.9 | 9.0- 10.9 | 11.0- 12.9 | 13.0- 14.9 | 15.0- 16.9 | 17.0- 18.9 | 19.0- 20.9 | 21.0- 22.9 | 23.0- 24.9 | 25.0- 26.9 | 27.0- 28.9 | 29.0+ | | | | | |
| Douglas-fir | 6,788 | 2,641 | 2,706 | 2,241 | 1,213 | 483 | 446 | 134 | 134 | 23 | 34 | 19 | 9 | -- | -- | 16,871 | | | | |
| Ponderosa pine | 5,835 | 10,015 | 8,274 | 6,685 | 3,482 | 2,769 | 1,677 | 784 | 387 | 167 | 95 | 86 | -- | 7 | 5 | 40,268 | | | | |
| Lumber pine | 315 | 798 | 61 | 141 | 111 | 21 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1,447 | | | | |
| Subalpine fir | 1,393 | 1,858 | 1,912 | 206 | 283 | 137 | 81 | 10 | 25 | 14 | 5 | -- | -- | -- | -- | 5,924 | | | | |
| White fir | 12,752 | 2,418 | 1,403 | 782 | 387 | 369 | 123 | 65 | 97 | 6 | 15 | 5 | -- | -- | -- | 18,422 | | | | |
| Engelmann spruce | 7,574 | 9,700 | 2,895 | 1,769 | 1,955 | 705 | 259 | 162 | 30 | 14 | 20 | -- | -- | -- | -- | 25,083 | | | | |
| Pinyon/juniper | 1,209 | 3,856 | 1,430 | 843 | 169 | 102 | 57 | 46 | -- | -- | -- | -- | -- | -- | -- | 7,712 | | | | |
| Total softwoods | 35,866 | 31,286 | 18,681 | 12,667 | 7,600 | 4,586 | 2,643 | 1,201 | 673 | 224 | 169 | 110 | 9 | 7 | 5 | 115,727 | | | | |
| Aspen | 6,959 | 5,567 | 1,886 | 1,578 | 905 | 150 | 95 | 23 | 8 | -- | -- | -- | -- | -- | -- | 17,151 | | | | |
| All species | 42,805 | 36,853 | 20,567 | 14,245 | 8,505 | 4,736 | 2,738 | 1,224 | 681 | 224 | 169 | 110 | 9 | 7 | 5 | 132,878 | | | | |

Table 12.--Number of cull and salvable dead trees on commercial timberland in Colfax County by ownership class, and softwoods and hardwoods, 1976

| Ownership class and species group | Cull trees | | Total | Salvable dead trees |
|-----------------------------------|---------------|------------|---------------|---------------------|
| | Sound | Rotten | | |
| ----- Thousand trees ----- | | | | |
| State: | | | | |
| Softwoods | 5,147 | 50 | 5,197 | 274 |
| Hardwoods | 632 | 89 | 721 | 113 |
| Total | 5,779 | 139 | 5,918 | 387 |
| Private: | | | | |
| Softwoods | 30,736 | 263 | 30,999 | 1,345 |
| Hardwoods | 3,168 | 435 | 3,603 | 408 |
| Total | 33,904 | 698 | 34,602 | 1,753 |
| State and private: | | | | |
| Softwoods | 35,883 | 313 | 36,196 | 1,619 |
| Hardwoods | 3,800 | 524 | 4,324 | 521 |
| Total | 39,683 | 837 | 40,520 | 2,140 |

Table 13.--Net volume of growing stock on commercial timberland in Colfax County by ownership class, forest type, and stand-size class, 1976

| Ownership class: | Forest type | Stand-size class | | | | All classes | Thousand cubic meters |
|--------------------|----------------------|------------------|------------|------------------|------------|-------------|-----------------------|
| | | Sawtimber | Poletimber | Sapling/seedling | Nonstocked | | |
| State: | | | | | | | |
| | Douglas-fir | 1,900 | 2,524 | 733 | -- | 5,157 | 146 |
| | Ponderosa pine | 11,527 | 1,737 | 20 | 428 | 13,712 | 388 |
| | Spruce-subalpine fir | 2,966 | 1,268 | -- | -- | 4,234 | 120 |
| | White fir | 2,073 | -- | 174 | -- | 2,247 | 64 |
| | Engelmann spruce | 5,862 | 3,037 | 859 | -- | 9,758 | 277 |
| | Pinyon-juniper | 102 | 47 | 33 | 9 | 191 | 5 |
| | Aspen | 1,086 | 3,370 | 706 | -- | 5,162 | 146 |
| | All types | 25,516 | 11,983 | 2,525 | 437 | 40,461 | 1,146 |
| Private: | | | | | | | |
| | Douglas-fir | 17,790 | 12,162 | 4,049 | -- | 34,001 | 963 |
| | Ponderosa pine | 121,055 | 16,762 | 89 | 4,817 | 142,723 | 4,042 |
| | Spruce-subalpine fir | 14,292 | 6,108 | -- | -- | 20,400 | 578 |
| | White fir | 9,803 | -- | 759 | -- | 10,562 | 299 |
| | Engelmann spruce | 21,910 | 14,635 | 3,489 | -- | 40,034 | 1,133 |
| | Pinyon-juniper | 3,498 | 1,902 | 139 | 350 | 5,889 | 167 |
| | Aspen | 5,234 | 8,815 | 3,798 | -- | 17,847 | 505 |
| | All types | 193,582 | 60,384 | 12,323 | 5,167 | 271,456 | 7,687 |
| State and private: | | | | | | | |
| | Douglas-fir | 19,690 | 14,686 | 4,782 | -- | 39,158 | 1,109 |
| | Ponderosa pine | 132,582 | 18,499 | 109 | 5,245 | 156,435 | 4,430 |
| | Spruce-subalpine fir | 17,258 | 7,376 | -- | -- | 24,634 | 698 |
| | White fir | 11,876 | -- | 933 | -- | 12,809 | 363 |
| | Engelmann spruce | 27,772 | 17,672 | 4,348 | -- | 49,792 | 1,410 |
| | Pinyon-juniper | 3,600 | 1,949 | 172 | 359 | 6,080 | 172 |
| | Aspen | 6,320 | 12,185 | 4,504 | -- | 23,009 | 651 |
| | All types | 219,098 | 72,367 | 14,848 | 5,604 | 311,917 | 8,833 |

Table 14.--Net volume of sawtimber on commercial timberland in Colfax County by ownership class, forest type, and stand-size class, 1976

| Ownership class: | Forest type | Stand-size class | | | All classes |
|--------------------|----------------------|----------------------------------|------------|-------------------------------|-------------|
| | | Sawtimber | Poletimber | Sapling/seedling: Nonstocked: | |
| | | Thousand board feet ¹ | | | |
| State: | | | | | |
| | Douglas-fir | 6,097 | 4,371 | 1,792 | -- |
| | Ponderosa pine | 47,556 | 4,068 | 63 | 2,165 |
| | Spruce-subalpine fir | 12,570 | 1,231 | -- | -- |
| | White fir | 8,128 | -- | 471 | -- |
| | Engelmann spruce | 21,937 | 6,440 | 2,986 | -- |
| | Pinyon-juniper | 276 | 203 | 49 | 44 |
| | Aspen | 3,191 | 3,244 | 1,070 | -- |
| | All types | 99,755 | 19,557 | 6,431 | 2,209 |
| Private: | | | | | |
| | Douglas-fir | 64,106 | 21,060 | 10,520 | -- |
| | Ponderosa pine | 499,516 | 36,382 | 274 | 24,951 |
| | Spruce-subalpine fir | 60,570 | 5,932 | -- | -- |
| | White fir | 38,585 | -- | 2,058 | -- |
| | Engelmann spruce | 82,775 | 31,036 | 12,129 | -- |
| | Pinyon-juniper | 9,615 | 8,174 | 204 | 1,777 |
| | Aspen | 15,377 | 8,459 | 6,613 | -- |
| | All types | 770,544 | 111,043 | 31,798 | 26,728 |
| State and private: | | | | | |
| | Douglas-fir | 70,203 | 25,431 | 12,312 | -- |
| | Ponderosa pine | 547,072 | 40,450 | 337 | 27,116 |
| | Spruce-subalpine fir | 73,140 | 7,163 | -- | -- |
| | White fir | 46,713 | -- | 2,529 | -- |
| | Engelmann spruce | 104,712 | 37,476 | 15,115 | -- |
| | Pinyon-juniper | 9,891 | 8,577 | 253 | 1,821 |
| | Aspen | 18,568 | 11,703 | 7,683 | -- |
| | All types | 870,299 | 130,600 | 38,229 | 28,937 |
| | | | | | 1,068,065 |

¹International 1/4-inch rule.

Table 15.--Net volume of growing stock on commercial timberland in Colfax County by species and diameter class; State and private, 1976

| Species | Diameter class (inches at breast height) | | | | | | | | | | | | | | All classes |
|------------------|--|-------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|------------|---------|-------------|
| | 5.0- 6.9 | 7.0- 8.9 | 9.0- 10.9 | 11.0- 12.9 | 13.0- 14.9 | 15.0- 16.9 | 17.0- 18.9 | 19.0- 20.9 | 21.0- 22.9 | 23.0- 24.9 | 25.0- 26.9 | 27.0- 28.9 | 29.0+ : | | |
| | Thousand cubic feet | | | | | | | | | | | | | | |
| Douglas-fir | 4,205 | 8,082 | 8,123 | 5,535 | 6,856 | 2,885 | 3,649 | 1,025 | 1,930 | 1,193 | 655 | -- | -- | 44,138 | |
| Ponderosa pine | 8,371 | 20,588 | 21,241 | 27,157 | 25,226 | 16,847 | 11,492 | 7,310 | 4,647 | 5,502 | -- | 568 | 796 | 149,745 | |
| Limber pine | 145 | 530 | 700 | 213 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1,588 | |
| Subalpine fir | 3,234 | 973 | 2,480 | 1,758 | 1,796 | 165 | 773 | 804 | 249 | -- | -- | -- | -- | 12,232 | |
| White fir | 1,678 | 3,541 | 2,891 | 4,279 | 1,734 | 1,501 | 2,371 | 232 | 588 | 254 | -- | -- | -- | 19,069 | |
| Engelmann spruce | 5,186 | 7,784 | 16,992 | 10,228 | 5,367 | 4,873 | 789 | 405 | 1,350 | -- | -- | -- | -- | 52,974 | |
| Pinyon/juniper | 741 | 1,204 | 655 | 493 | 749 | 578 | -- | -- | -- | -- | -- | -- | -- | 4,420 | |
| Total softwoods | 23,560 | 42,702 | 53,082 | 49,663 | 41,728 | 26,849 | 19,074 | 9,776 | 8,764 | 6,949 | 655 | 568 | 796 | 284,166 | |
| Aspen | 3,672 | 9,554 | 9,353 | 2,611 | 1,835 | 537 | 189 | -- | -- | -- | -- | -- | -- | 27,751 | |
| All species | 27,232 | 52,256 | 62,435 | 52,274 | 43,563 | 27,386 | 19,263 | 9,776 | 8,764 | 6,949 | 655 | 568 | 796 | 311,917 | |

Table 16.--Net volume of sawtimber on commercial timberland in Colfax County by species and diameter class; State and private, 1976

| Species | Diameter class (inches at breast height) | | | | | | | | | | | | | | All classes |
|------------------|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|------------|----|----|-----------|-------------|
| | 9.0- 10.9 | 11.0- 12.9 | 13.0- 14.9 | 15.0- 16.9 | 17.0- 18.9 | 19.0- 20.9 | 21.0- 22.9 | 23.0- 24.9 | 25.0- 26.9 | 27.0- 28.9 | 29.0+ : | | | | |
| | Thousand board feet, International 1/4-inch rule | | | | | | | | | | | | | | |
| Douglas-fir | 25,409 | 23,030 | 52,794 | 14,700 | 19,681 | 5,697 | 10,953 | 6,871 | 3,790 | -- | -- | -- | -- | 142,925 | |
| Ponderosa pine | 75,289 | 124,211 | 130,623 | 93,847 | 65,776 | 42,696 | 27,546 | 32,987 | -- | 3,474 | 4,921 | -- | -- | 601,370 | |
| Limber pine | 2,395 | 828 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3,223 | |
| Subalpine fir | 10,616 | 8,496 | 9,212 | 851 | 3,971 | 4,126 | 1,285 | -- | -- | -- | -- | -- | -- | 38,557 | |
| White fir | 11,560 | 18,961 | 7,924 | 6,799 | 10,421 | 969 | 2,383 | 1,006 | -- | -- | -- | -- | -- | 60,023 | |
| Engelmann spruce | 70,679 | 50,008 | 27,581 | 25,287 | 4,083 | 2,093 | 6,983 | -- | -- | -- | -- | -- | -- | 186,714 | |
| Pinyon/juniper | 1,965 | 1,466 | 2,183 | 1,643 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7,257 | |
| Total softwoods | 197,913 | 227,000 | 210,317 | 143,127 | 103,932 | 55,581 | 49,150 | 40,864 | 3,790 | 3,474 | 4,921 | -- | -- | 1,040,069 | |
| Aspen | 0 | 13,750 | 10,177 | 3,024 | 1,045 | -- | -- | -- | -- | -- | -- | -- | -- | 27,996 | |
| All species | 197,913 | 240,750 | 220,494 | 146,151 | 104,977 | 55,581 | 49,150 | 40,864 | 3,790 | 3,474 | 4,921 | -- | -- | 1,068,065 | |

Table 17.--Net volume of growing stock and sawtimber on commercial timberland in Colfax County by ownership class and species, 1976

| Ownership class: | Species | | | | | | | | | |
|------------------|---|------------|---------|------------|------------|------------|----------|--------|-------------|--|
| | Douglas-fir: | Ponderosa: | Limber: | Subalpine: | White fir: | Engelmann: | Pinyon/: | Aspen: | All species | |
| | pine: | pine: | pine: | fir: | fir: | spruce: | juniper: | | | |
| | GROWING STOCK | | | | | | | | | |
| | <i>Thousand cubic feet</i> | | | | | | | | | |
| State | 4,974 | 13,421 | 311 | 2,245 | 3,235 | 9,894 | 305 | 6,076 | 40,461 | |
| Private | 39,164 | 136,324 | 1,277 | 9,987 | 15,834 | 43,080 | 4,115 | 21,675 | 271,456 | |
| Total | 44,138 | 149,745 | 1,588 | 12,232 | 19,069 | 52,974 | 4,420 | 27,751 | 311,917 | |
| | GROWING STOCK | | | | | | | | | |
| | <i>Thousand cubic meters</i> | | | | | | | | | |
| State | 141 | 380 | 9 | 64 | 92 | 280 | 8 | 172 | 1,146 | |
| Private | 1,109 | 3,860 | 36 | 283 | 448 | 1,220 | 117 | 614 | 7,687 | |
| Total | 1,250 | 4,240 | 45 | 347 | 540 | 1,500 | 125 | 786 | 8,833 | |
| | SAWTIMBER | | | | | | | | | |
| | <i>Thousand board feet, International 1/4-inch rule</i> | | | | | | | | | |
| State | 14,252 | 53,864 | 641 | 7,228 | 10,288 | 35,486 | 521 | 5,672 | 127,952 | |
| Private | 128,673 | 547,506 | 2,582 | 31,329 | 49,735 | 151,228 | 6,736 | 22,324 | 940,113 | |
| Total | 142,925 | 601,370 | 3,223 | 38,557 | 60,023 | 186,714 | 7,257 | 27,996 | 1,068,065 | |

Table 18.--Net volume of timber on commercial timberland in Colfax County by class of timber, and softwoods and hardwoods; State and private, 1976

| Class of timber | Softwoods | Hardwoods | All classes |
|---------------------------------|-----------|-----------|-------------|
| ----- Thousand cubic feet ----- | | | |
| Sawtimber trees: | | | |
| Saw-log portion | 202,082 | 4,878 | 206,960 |
| Upper-stem portion | 15,822 | 294 | 16,116 |
| Total | 217,904 | 5,172 | 223,076 |
| ----- | | | |
| Poletimber trees | 66,262 | 22,579 | 88,841 |
| All growing stock trees | 284,166 | 27,751 | 311,917 |
| ----- | | | |
| Sound cull trees | 18,985 | 2,267 | 21,252 |
| Rotten cull trees | 1,177 | 1,143 | 2,320 |
| Salvable dead trees | 6,065 | 642 | 6,707 |
| All timber | 310,393 | 31,803 | 342,196 |

Table 19.--Net volume of growing stock on commercial timberland in Colfax County by forest type and species; State and private, 1976

| Forest type | Species | | | | | | | | | | All species | |
|-----------------------------------|--------------|------------|---------|------------|------------|------------|----------|------------|--------|---------|---------------------|-----------------------|
| | Douglas-fir: | Ponderosa: | Limber: | Subalpine: | White fir: | Engelmann: | Pinyon/: | Total: | Aspen: | | | |
| | pine | pine | fir | fir | fir | spruce | juniper: | softwoods: | | | Thousand cubic feet | Thousand cubic meters |
| ----- Thousand cubic feet ----- | | | | | | | | | | | | |
| Douglas-fir | 22,573 | 5,719 | 700 | -- | 6,731 | -- | 423 | 36,146 | 3,012 | 39,158 | 1,109 | |
| Ponderosa pine | 15,594 | 137,922 | -- | -- | 1,205 | -- | 1,598 | 156,319 | 116 | 156,435 | 4,430 | |
| Spruce-subalpine fir | 182 | -- | -- | 8,702 | -- | 15,338 | -- | 24,222 | 412 | 24,634 | 698 | |
| White fir | 1,035 | 2,214 | 145 | 963 | 7,884 | -- | -- | 12,241 | 568 | 12,809 | 363 | |
| Engelmann spruce | 2,928 | -- | 213 | 2,567 | 2,995 | 34,195 | -- | 42,898 | 6,894 | 49,792 | 1,410 | |
| Pinyon-juniper | 707 | 2,974 | -- | -- | -- | -- | 2,399 | 6,080 | -- | 6,080 | 172 | |
| Aspen | 1,119 | 916 | 530 | -- | 254 | 3,441 | -- | 6,260 | 16,749 | 23,009 | 651 | |
| All types | 44,138 | 149,745 | 1,588 | 12,232 | 19,069 | 52,974 | 4,420 | 284,166 | 27,751 | 311,917 | 8,833 | |
| ----- Thousand cubic meters ----- | | | | | | | | | | | | |
| All types | 1,250 | 4,240 | 45 | 347 | 540 | 1,500 | 125 | 8,047 | 786 | -- | 8,833 | |

Table 20.--Net volume of sawtimber on commercial timberland in Colfax County by forest type and species; State and private, 1976

| Forest type | Species | | | | | | | | | | All species |
|----------------------|---|-----------------|--------------|----------------|------------|-------------------|-----------------|------------------|--------|-----------|-------------|
| | Douglas-fir: | Ponderosa pine: | Limber pine: | Subalpine fir: | White fir: | Engelmann spruce: | Pinyon-juniper: | Total softwoods: | Aspen: | Total | |
| | <i>Thousand board feet, International 1/4-inch rule</i> | | | | | | | | | | |
| Douglas-fir | 64,130 | 25,512 | 2,395 | -- | 14,830 | -- | 1,079 | 107,946 | -- | 107,946 | |
| Ponderosa pine | 59,454 | 549,344 | -- | -- | 3,164 | -- | 3,013 | 614,975 | -- | 614,975 | |
| Spruce-subalpine fir | -- | -- | -- | 28,206 | -- | 52,097 | -- | 80,303 | -- | 80,303 | |
| White fir | 3,834 | 10,486 | -- | 4,032 | 29,845 | -- | -- | 48,197 | 1,045 | 49,242 | |
| Engelmann spruce | 10,119 | -- | 828 | 6,319 | 11,178 | 122,454 | -- | 150,898 | 6,405 | 157,303 | |
| Pinyon-juniper | 2,256 | 14,921 | -- | -- | -- | -- | 3,165 | 20,342 | -- | 20,342 | |
| Aspen | 3,132 | 1,107 | -- | -- | 1,006 | 12,163 | -- | 17,408 | 20,546 | 37,954 | |
| All types | 142,925 | 601,570 | 3,223 | 38,557 | 60,023 | 186,714 | 7,257 | 1,040,069 | 27,996 | 1,068,065 | |

Table 21.--Net annual growth of growing stock and sawtimber on commercial timberland in Colfax County by ownership class and species, 1976

| Ownership class | Species | | | | | | | | | | All species |
|-----------------|--|-----------------|--------------|----------------|------------|-------------------|-----------------|------------------|--------|------------|-------------|
| | Douglas-fir: | Ponderosa pine: | Limber pine: | Subalpine fir: | White fir: | Engelmann spruce: | Pinyon-juniper: | Total softwoods: | Aspen: | Total | |
| | <i>Cubic feet</i> | | | | | | | | | | |
| | GROWING STOCK | | | | | | | | | | |
| State | 144,128 | 287,748 | 11,066 | 65,472 | 79,342 | 290,632 | 878,388 | 176,780 | | 1,055,168 | |
| Private | 1,042,846 | 3,176,791 | 48,407 | 295,017 | 392,496 | 1,423,055 | 6,378,612 | 711,012 | | 7,089,624 | |
| Total | 1,186,974 | 3,464,539 | 59,473 | 360,489 | 471,838 | 1,713,687 | 7,257,000 | 887,792 | | 8,144,792 | |
| | GROWING STOCK | | | | | | | | | | |
| State | 4,081 | 8,148 | 313 | 1,854 | 2,247 | 8,230 | 24,873 | 5,006 | | 29,879 | |
| Private | 29,530 | 89,957 | 1,371 | 8,354 | 11,114 | 40,296 | 180,622 | 20,134 | | 200,756 | |
| Total | 33,611 | 98,105 | 1,684 | 10,208 | 13,361 | 48,526 | 205,495 | 25,140 | | 230,635 | |
| | SAWTIMBER | | | | | | | | | | |
| | <i>Board feet, International 1/4-inch rule</i> | | | | | | | | | | |
| State | 444,868 | 1,177,012 | 34,260 | 400,372 | 180,883 | 1,716,165 | 3,953,560 | 136,002 | | 4,089,562 | |
| Private | 3,357,022 | 13,552,331 | 153,958 | 1,856,707 | 910,709 | 7,413,997 | 27,244,724 | 514,230 | | 27,758,954 | |
| Total | 3,801,890 | 14,729,343 | 188,218 | 2,257,079 | 1,091,592 | 9,130,162 | 31,198,284 | 650,232 | | 31,848,516 | |

Table 22.--Annual mortality of growing stock and sawtimber on commercial timberland in Colfax County by ownership class, and softwoods and hardwoods, 1976

| Species group and ownership class | Growing stock | | Sawtimber |
|--------------------------------------|----------------|------------------|------------------|
| | - Cubic feet- | - Cubic meters - | |
| Softwoods: | | | |
| State | 94,940 | 2,688 | 337,535 |
| Private | 461,067 | 13,056 | 1,657,117 |
| Total | 556,007 | 15,744 | 1,994,652 |
| Hardwoods: | | | |
| State | -- | -- | -- |
| Private | -- | -- | -- |
| Total | -- | -- | -- |

¹ International 1/4-inch rule.

Table 23.--Annual mortality of growing stock and sawtimber on commercial timberland in Colfax County by cause of death and species; State and private, 1976

| Cause of death | Species | | | | | | | All species |
|--|-------------|----------------|-------------|---------------|-----------|------------------|-------|-------------|
| | Douglas-fir | Ponderosa pine | Limber pine | Subalpine fir | White fir | Engelmann spruce | Aspen | |
| Insects | -- | -- | -- | -- | -- | -- | -- | -- |
| Disease | -- | -- | -- | -- | -- | -- | -- | -- |
| Fire | 32,202 | -- | -- | 66,083 | -- | -- | -- | 98,285 |
| Animal | -- | -- | -- | -- | -- | -- | -- | -- |
| Weather | -- | -- | -- | -- | -- | -- | -- | -- |
| Suppression | -- | -- | -- | -- | -- | -- | -- | -- |
| Unknown | -- | 288,968 | -- | 60,584 | -- | -- | -- | 349,552 |
| Logging | -- | 108,170 | -- | -- | -- | -- | -- | 108,170 |
| Total | 32,202 | 397,138 | -- | 126,667 | -- | -- | -- | 556,007 |
| GROWING STOCK | | | | | | | | |
| <i>Cubic feet</i> | | | | | | | | |
| Insects | -- | -- | -- | -- | -- | -- | -- | -- |
| Disease | -- | -- | -- | -- | -- | -- | -- | -- |
| Fire | 912 | -- | -- | 1,871 | -- | -- | -- | 2,783 |
| Animal | -- | -- | -- | -- | -- | -- | -- | -- |
| Weather | -- | -- | -- | -- | -- | -- | -- | -- |
| Suppression | -- | -- | -- | -- | -- | -- | -- | -- |
| Unknown | -- | 8,182 | -- | 1,716 | -- | -- | -- | 9,898 |
| Logging | -- | 3,063 | -- | -- | -- | -- | -- | 3,063 |
| Total | 912 | 11,245 | -- | 3,587 | -- | -- | -- | 15,744 |
| GROWING STOCK | | | | | | | | |
| <i>Cubic meters</i> | | | | | | | | |
| Insects | -- | -- | -- | -- | -- | -- | -- | -- |
| Disease | -- | -- | -- | -- | -- | -- | -- | -- |
| Fire | 912 | -- | -- | 1,871 | -- | -- | -- | 2,783 |
| Animal | -- | -- | -- | -- | -- | -- | -- | -- |
| Weather | -- | -- | -- | -- | -- | -- | -- | -- |
| Suppression | -- | -- | -- | -- | -- | -- | -- | -- |
| Unknown | -- | 8,182 | -- | 1,716 | -- | -- | -- | 9,898 |
| Logging | -- | 3,063 | -- | -- | -- | -- | -- | 3,063 |
| Total | 912 | 11,245 | -- | 3,587 | -- | -- | -- | 15,744 |
| SAWTIMBER | | | | | | | | |
| <i>Board feet, International 1/4-inch rule</i> | | | | | | | | |
| Insects | -- | -- | -- | -- | -- | -- | -- | -- |
| Disease | -- | -- | -- | -- | -- | -- | -- | -- |
| Fire | -- | -- | -- | 290,620 | -- | -- | -- | 290,620 |
| Animal | -- | -- | -- | -- | -- | -- | -- | -- |
| Weather | -- | -- | -- | -- | -- | -- | -- | -- |
| Suppression | -- | -- | -- | -- | -- | -- | -- | -- |
| Unknown | -- | 1,430,770 | -- | 273,262 | -- | -- | -- | 1,704,032 |
| Logging | -- | -- | -- | -- | -- | -- | -- | -- |
| Total | -- | 1,430,770 | -- | 563,882 | -- | -- | -- | 1,994,652 |

Barrett, Michael K., and Dorothy G. Shupe

1980. Forest area and timber resource statistics for Colfax County, New Mexico, 1976. USDA For. Serv. Resour. Bull. INT-18, 23 p. Intermt. For. and Range Exp. Stn. Ogden, Utah 84401.

Presents land area, commercial timberland area, timber inventory, and growth and mortality data based on Resources Evaluation standards.

KEYWORDS: forest surveys (regional), forest area classification, stand volume.

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KEYWORDS: forest surveys (regional), forest area classification, stand volume.

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