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Colorado's State and Private Timber Resources, 1983

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PREFACE

The primary objective of Forest Survey—a continuing, nationwide undertaking of the Forest Service, U.S. Department of Agriculture—is to provide an assessment of the renewable resources for forest and rangelands of the Nation. Fundamental to the accomplishment of the objective are the periodic State-by-State resource inventories. Originally, Forest Survey was authorized by the McSweeney-McNary Act of 1928. The current authorization is through the Renewable Resources Research Act of 1978.

The Intermountain Research Station with headquarters in Ogden, UT, conducts the forest resource inventories for the Rocky Mountain States of Arizona, Colorado, Idaho, Montana, New Mexico, Nevada, western South Dakota, Utah, Wyoming, western Texas, and Oklahoma's Panhandle. These inventories provide information on the extent and condition of State and privately owned forest lands and most other lands not in the National Forest System, volume of timber, and rates of timber growth, removals, and mortality.

These data, when combined with similar information on National Forest lands, provide a basis for forming forest policies and programs and for the orderly development and use of the resources.

ACKNOWLEDGMENTS

This report is the result of the combined efforts of numerous people on the Forest Survey staff. In addition to the photo interpretation and field crews, several individuals played key roles in the reduction of basic data into information describing the extent, nature, and condition of the forest resources in Colorado: Dennis Collins supervised the data collection; Sharon Woudenberg and Shirley Waters compiled the data and made summaries; and Susan Brown and Velma Inama transformed the data summaries into tables of information. Also, we acknowledge the Colorado State Forest Service for their cooperation and assistance in collecting the inventory data. And we extend a special note of gratitude to the private land owners who allowed the field crews access to the sample locations on their properties.

RESEARCH SUMMARY

The State and private forest land base in Colorado amounts to 6.4 million acres, of which 3.6 million are classified as timberland. These acres support over 4.5 billion cubic feet of growing stock including 13.5 billion board feet of sawtimber. Net annual growth was nearly 89 million cubic feet in 1982. This report highlights additional information on total land area, timberland area, timber inventory, annual growth, mortality, and removals.

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Colorado's State and Private Timber Resources, 1983

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INTRODUCTION

This bulletin presents some of the findings from the most recent Forest Survey of Colorado's State and privately owned resources. The two-phase survey began with prefield work in June 1981. The field phase involved, in whole or in part, the summers of 1981, 1982, and 1984 with the bulk of the data collected in 1982.

The data in this report pertain only to the State and private timberland resources within the four survey units

covering the western two-thirds of the State shown in figure 1. The eastern unit was administratively designated nonforest and was not sampled. Information on the State and privately owned woodland resources will be presented in a separate report. In addition, data for lands administered by various public agencies such as National Forest System and Bureau of Land Management, U.S. Department of the Interior, will be included in a subsequent, comprehensive Statewide report.

Figure 1—Colorado counties and survey units.

Colorado encompasses just over 66.3 million acres of land. Nearly three-fifths of this area is privately owned and an additional 5 percent is administered and managed by the State (fig. 2).

Only 15 percent of the State and privately owned land is forest land. Timberland accounts for just over 56 percent

of this area with the remaining 44 percent classified as woodland (fig. 3). Most of the timberland area is concentrated in the central portion of the State along the Rockies (fig. 4).

Data for this report are found in the Forest Survey Tables and the County Tables at the end of this publication.

Figure 2—Distribution of land area in Colorado by ownership class.

Figure 3—Distribution of State and private land area by land type.

Figure 4—Geographical distribution of timberland in Colorado.

HIGHLIGHTS

Area

Approximately 3.4 million acres of the private forest land and 254,000 acres of State forest land are timberland (see table 4). None of the private timberland is reserved, and just over 7 percent of the State timberland is reserved.

Ponderosa pine is the major timber forest type in Colorado and occupies over 1.3 million acres or 37 percent of the timberland area, followed by aspen covering about 846,000 acres (fig. 5).

Most of the State and privately owned timberland is low in productivity. Over two-thirds of the area cannot produce 50 cubic feet of wood per acre per year (fig. 6). Nearly 83 percent, or 1.1 million acres, of the ponderosa pine type is in this category. Only a small portion of Colorado's timberlands, about 139,000 acres, is considered highly productive.

About half the timberlands are in such a condition that they contribute little to net growth. Roughly 31 percent is either nonstocked or poorly stocked, and 17 percent is occupied by old-growth stands that are usually slow growing (fig. 7).

Of the estimated 1.1 billion growing-stock trees, 82 percent are less than 9 inches diameter at breast height (d.b.h.). Approximately 491 million growing-stock trees are classified as saplings, and another 424 million are pole-timber (fig. 8). Ponderosa pine (*Pinus ponderosa*) accounts for over a third of the 160 million sawtimber trees.

Figure 5—Area of State and private timberland by forest type.

Figure 6—Distribution of State and private timberland by productivity class.

Figure 7—Distribution of State and private timberland by area condition class.

Figure 8—Number of growing-stock trees on State and private timberland by tree-size class.

Volume

Timberlands contain over 4.5 billion cubic feet of net volume, of which 74 percent is in softwood species. Sawtimber volume totals nearly 13.5 billion board feet (International 1/4-inch rule) with ponderosa pine species accounting for 31 percent. Engelmann spruce (*Picea engelmannii*) contributes over a fifth of the sawtimber volume.

Aspen (*Populus tremuloides*) makes up nearly a quarter of the cubic foot volume but only 12 percent of the sawtimber volume (fig. 9).

About 71 percent of the softwood growing-stock volume is in trees less than 15 inches d.b.h., and nearly three-fourths of the sawtimber volume is in trees less than 17 inches d.b.h. (fig. 10).

Figure 9—Distribution of growing-stock and sawtimber volume on State and private timberland by species.

Figure 10—Distribution of growing-stock and sawtimber volume on State and private timberland by diameter class.

Components of Change

Growth—In 1982 the growing-stock volume on a typical acre of State and private timberland was, on the average, increasing by just under 29.4 cubic feet per year. This same acre, however, averaged a loss of around 5 cubic feet annually to mortality, giving a net gain of 24.4 cubic feet. The result was a total net annual growth of about 89

million cubic feet from a gross of 106 million. That represents a loss of about 16 percent (fig. 11).

Ponderosa pine and aspen account for nearly 41 million cubic feet or 46 percent of the net annual growth and in nearly equal amounts. Douglas-fir (*Pseudotsuga menziesii*), lodgepole pine (*Pinus contorta*), and Engelmann spruce combine for an additional 45 percent (fig. 12).

Figure 11—Net annual growth and annual mortality on State and private timberland, 1982.

Figure 12—Distribution of net annual growth on State and private timberland by species.

Mortality—Aspen alone accounted for 55 percent of the 16.8 million cubic feet of total annual mortality. The remainder was distributed nearly evenly among the softwood species (table 35). Over half the mortality from known causes is due to disease (27 percent), weather (13 percent), and insects (12 percent). Mortality from “unknown” causes accounts for over two-fifths of the total volume (fig. 13). (Because many destructive agents attack trees in concert or in succession, it is often difficult to identify the actual causal agent. When the primary cause of death cannot be precisely determined, it is listed as “unknown.”)

Removals—Nearly 3.3 million cubic feet (17.7 million board feet, International ¼-inch rule) of industrial roundwood was harvested from private lands in 1982. Another 1 million cubic feet was harvested from State lands (fig. 14). Sawlogs accounted for almost 88 percent of the industrial roundwood harvested from private lands (McLain 1985).

Fuelwood harvest of timber species from State and private land totaled nearly 259,000 cords or 20.7 million cubic feet. Less than 1 percent of this was from State land. Ponderosa pine accounted for 121,000 cords (9.7 million cubic feet), and cottonwood contributed over

Figure 13—Distribution of annual mortality from growing stock on State and private timberland by cause.

Figure 14—Volume of industrial roundwood harvested from State and private land, 1982.

¹ (INCLUDES 125 CORDS OF TRUE FIRS AND 281 CORDS OF SPRUCE)

Figure 15—Fuelwood harvested from timber species on State and private land, 1982.

64,000 cords (5.1 million cubic feet) to the total harvest (fig. 15). Nearly 84 percent of the total fuelwood harvest was from dead trees (McLain and Booth 1985).

HOW THE INVENTORY WAS CONDUCTED

The inventory was designed to provide reliable statistics primarily at the State and sample area levels.

Prefield

Primary area estimates were based on the classification of 187,765 sample points systematically placed on the latest aerial photographs available. The photo points, adjusted to meet known land areas, were used to stratify and compute area expansion factors for the field sample data.

Field

Land classification and estimates for timber characteristics and volume were based on observations and measurements recorded at 3,340 ground sample locations, of which 1,216 were forested. Of the forested locations, 973 were classified as timberland. Sample trees were selected using a 5-point cluster, which included 1/300-acre fixed radius plots for trees less than 5 inches d.b.h., and 40 basal area factor variable radius plots for trees 5 inches d.b.h. or larger.

Compilation

All photo and field data were loaded onto tape and stored for computer editing, computation, and tabulation. Final estimates from these data were based on statistical summaries, a portion of which is included in this bulletin.

Volume and defect were computed using equations developed by Edminster and others (1980, 1981), Kemp (1958), Chojnacky (1985), Meyers (1964), and Meyers and others (1972).

DATA RELIABILITY

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

TERMINOLOGY

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

Area condition class—A classification of timberland reflecting the degree to which the site is being utilized by growing-stock trees and other conditions affecting current and prospective timber growth (see Stocking):

Class 10—Areas fully stocked with desirable trees and not overstocked.

Class 20—Areas fully stocked with desirable trees but overstocked with all live trees.

Class 30—Areas medium to fully stocked with desirable trees and with less than 30 percent of the area controlled by other trees, or inhibiting vegetation or surface conditions that will prevent occupancy by desirable trees, or both.

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

Class 50—Areas poorly stocked 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 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 10 percent stocked with growing-stock trees.

Basal area—The cross-sectional area of a tree expressed in square feet. For timber species the calculation is based on diameter at breast height (d.b.h.); for woodland species it is based on diameter at root collar (d.r.c.).

Cord—A pile of stacked wood equivalent to 128 cubic feet of wood and air space having standard dimensions of 4 by 4 by 8 feet.

Cull trees—Live trees that are unmerchantable now or prospectively (see Rough trees and Rotten trees).

Cull volume—Portions of a tree's volume that are not usable for wood products because of rot, form, missing material, or other cubic-foot defect. Form and sound defects include severe sweep and crook, forks, extreme form reduction, large deformities, and dead material.

- Deferred forest land**—Forest lands within the National Forest System that are under study for possible inclusion in the Wilderness System.
- Desirable trees**—Growing-stock trees (1) having no serious defect in quality to limit present or prospective use for timber products, (2) of relatively high vigor, and (3) containing no pathogens that may result in death or serious deterioration within the next decade.
- Diameter at breast height (d.b.h.)**—Diameter of the stem measured at 4.5 feet above the ground.
- Diameter at root collar (d.r.c.)**—Diameter equivalent at the point nearest the ground line that represents the basal area of the tree stem or stems.
- Diameter classes**—Tree diameters, either d.b.h. or d.r.c., grouped into 2-inch classes labeled by the midpoint of the class.
- Farmer-owned lands**—Lands owned by a person who operates a farm and who either does the work or directly supervises the work.
- Forest industry lands**—Lands owned by companies or individuals operating a primary wood-processing plant.
- Forest lands**—Lands at least 10 percent stocked by forest trees of any size, including lands that formerly had such tree cover and that will be naturally or artificially regenerated. The minimum area for classification of forest land is 1 acre. Roadside, streamside, and shelter-belt strips of timber must have a crown width at least 120 feet wide to qualify as forest land. Unimproved roads and trails, streams, and clearings in forest areas are classified as forest if less than 120 feet wide.
- Forest trees**—Woody plants having a well-developed stem or stems, usually more than 12 feet in height at maturity, with a generally well-defined crown.
- Forest type**—A classification of forest land based upon and named for the tree species presently forming a plurality of live-tree stocking.
- Growing-stock trees**—Live sawtimber trees, poletimber trees, saplings, and seedlings of timber species meeting specified standards of quality and vigor; excludes cull trees.
- Growing-stock volume**—Net cubic-foot volume in live growing-stock trees from a 1-foot stump to a minimum 4.0-inch top (of central stem) outside bark or to the point where the central stem breaks into limbs.
- Growth**—See definition for Net annual growth.
- Hardwood trees**—Dicotyledonous trees, usually broad-leaved and deciduous.
- High-risk old-growth stands**—Timber stands over 100 years old in which the majority of the trees are not expected to survive more than 10 years.
- Indian lands**—Indian lands held in trust by the Federal Government.
- Industrial wood**—All commercial roundwood products except fuelwood.
- Land area**—The area of dry land and land temporarily or partially covered by water such as marshes, swamps, and river flood plains, streams, sloughs, estuaries, and canals less than 120 feet wide; and lakes, reservoirs, and ponds less than 1 acre in size.
- Logging residues**—The unused portions of growing-stock trees cut or killed by logging.
- Low-risk old-growth stands**—Timber stands over 100 years old in which the majority of the trees are expected to survive more than 10 years.
- Miscellaneous Federal lands**—Lands administered by Federal agencies other than the Forest Service, U.S. Department of Agriculture, or Bureau of Land Management, U.S. Department of the Interior.
- Mortality**—The net volume of growing-stock trees that have died from natural causes during a specified period.
- National Forest lands**—Public lands administered by the Forest Service, U.S. Department of Agriculture.
- National Resource lands**—Public lands administered by the Bureau of Land Management, U.S. Department of the Interior.
- Net annual growth**—The net average annual increase in the volume of trees during a specified period.
- Net volume in board feet**—The gross board-foot volume in the sawlog portion of growing-stock trees, less deductions for cull volume.
- Net volume in cubic feet**—Gross cubic-foot volume in the merchantable portion of trees less deductions for cull volume. For timber species, volume is computed for the merchantable stem from a 1-foot stump to a minimum 4.0-inch top diameter outside bark, or to the point where the central stem breaks into limbs. For woodland species, volume is computed outside bark (o.b.) for all woody material above d.r.c. that is larger than 1.5 inches in diameter (o.b.).
- Nonforest lands**—Lands that do not currently qualify as forest land.
- Nonindustrial private**—All private ownerships except forest industry.
- Nonstocked areas**—Forest land less than 10 percent stocked with live trees.
- Old-growth stands**—Stands of timber species over 100 years old.
- Other private land**—Privately owned land other than forest industry or farmer-owned.
- Other public land**—Public land administered by agencies other than the Forest Service, U.S. Department of Agriculture.
- Other removals**—The net volume of growing-stock trees removed from the inventory by cultural operations such as timber-stand improvement, by land clearing, and by changes in land use, such as a shift to wilderness.
- Poletimber stands**—Stands at least 10 percent stocked with growing-stock trees, in which half or more of the stocking is sawtimber or poletimber trees or both, with poletimber stocking exceeding that of sawtimber (see definition for Stocking).
- Poletimber trees**—Live trees of timber species at least 5.0 inches d.b.h. but smaller than sawtimber size.
- Potential growth**—The average net annual cubic-foot growth per acre at culmination of mean annual growth attainable in fully stocked natural stands.
- Primary wood-processing plants**—Plants using roundwood products such as sawlogs, pulpwood bolts, veneer logs, and so forth.
- Productivity class**—A classification of forest land in terms of potential growth.

Removals—The net volume of growing-stock trees removed from the inventory by harvesting, cultural operations, land clearings, or changes in land use.

Reserved forest lands—Forest lands withdrawn from tree utilization through statute or administrative designation.

Residues:

- Coarse residues—Plant residues suitable for chipping, such as slabs, edgings, and ends.
- Fine residues—Plant residues not suitable for chipping, such as sawdust, shavings, and veneer clippings.
- Plant residues—Wood materials from primary manufacturing plants that are not used for any product.

Rotten trees—Live poletimber or sawtimber trees with more than 67 percent of their total volume cull (cubic-foot) and with more than half of the cull volume attributable to rotten or missing material.

Rough trees—Live poletimber or sawtimber trees with more than 67 percent of their total volume cull (cubic-foot) and with less than half of the cull volume attributable to rotten or missing material.

Roundwood—Logs, bolts, or other round sections cut from trees.

Salvable dead trees—Standing or down dead trees that are currently merchantable by regional standards.

Saplings—Live trees of timber species 1.0 to 4.9 inches d.b.h. or woodland species 1.0 to 2.9 inches d.r.c.

Sapling and seedling stands—Timberland stands at least 10 percent stocked on which more than half of the stocking is saplings or seedlings or both.

Sawlog portion—That part of the bole of sawtimber trees between a 1-foot stump and the sawlog top.

Sawlog top—The point on the bole of sawtimber trees above which a sawlog cannot be produced. The minimum sawlog top is 7.0 inches diameter o.b. for softwoods and 9.0 inches diameter o.b. for hardwoods.

Sawtimber stands—Stands at least 10 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.

Sawtimber trees—Live trees of timber species meeting regional size and defect specifications. Softwood trees must be at least 9.0 inches d.b.h. and hardwood trees 11.0 inches d.b.h.

Sawtimber volume—Net volume in board feet of the sawlog portion of live sawtimber trees.

Seedlings—Established live trees of timber species less than 1.0 inch d.b.h. or woodland species less than 1.0 inch d.r.c.

Softwood trees—Monocotyledonous trees, usually evergreen, having needle or scalelike leaves.

Standard error—An expression of the degree of confidence that can be placed on an estimated total or average obtained by statistical sampling methods. Standard errors do not include technique errors that could occur in photo classification of areas, field measurements, or compilation of data.

Stand-size classes—A classification of forest land based on the predominant size of trees present (see Sawtimber stands, Poletimber stands, and Sapling and seedling stands).

State, county, and municipal lands—Lands administered by States, counties, and local public agencies, or lands

leased by these governmental units for more than 50 years.

Stocking—An expression of the extent to which growing space is effectively utilized by present or potential growing-stock trees of timber species. Percentage stocking is the ratio of actual stocking to full stocking for comparable sites and stands, using basal area as the basis for comparison.

Timberlands—Forest lands where timber species make up at least 10 percent stocking.

Timber species—Tree species traditionally used for industrial wood products. In the Rocky Mountain States, these include aspen and cottonwood hardwood species and all softwood species except pinyon and juniper.

Timber stand improvement—Treatments such as thinning, pruning, release cutting, girdling, weeding, or poisoning of unwanted trees aimed at improving growing conditions for the remaining trees.

Upper-stem portion—That part of the main stem or fork of sawtimber trees above the sawlog top to a minimum top diameter of 4.0 inches o.b. or to the point where the main stem or fork breaks into limbs.

Water—Streams, sloughs, estuaries, and canals more than 120 feet wide, and lakes, reservoirs, and ponds more than 1 acre in size at mean high water level.

Wilderness—An area of undeveloped land currently included in the Wilderness System, managed so as to preserve its natural conditions and retain its primeval character and influence.

Woodlands—Forest lands where timber species make up less than 10 percent stocking.

Woodland species dead volume—Net volume of dead woodland trees and dead net volume portion of live woodland tree species.

Woodland species live volume—Net cubic-foot volume in live woodland tree species.

Woodland species—Tree species not usually converted into industrial wood products. Common uses are fuelwood, fenceposts, and Christmas trees.

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FOREST SURVEY TABLES

Table 1--Area of State and privately owned forest land with percent standard error, Colorado, 1983

Item	Softwoods		Hardwoods		All types	
	Thousand acres	Percent standard error	Thousand acres	Percent standard error	Thousand acres	Percent standard error
Timberland	2,655.2	± 3.1	945.2	± 5.9	3,600.4	± 2.4
Woodland	2,103.4	± 4.2	683.2	±10.7	2,786.6	± 3.8
Reserved forest land: ¹						
Timberland	15.3		3.6		18.9	
Woodland	4.5		2.4		6.9	
Total forest land	4,778.4		1,634.4		6,412.8	

¹Reserved land areas are estimated from aerial photos without field verification; therefore, standard errors are not calculated.

Table 2--Net volume, net annual growth, and annual mortality of growing stock and sawtimber on State and privately owned timberland with percent standard error, Colorado

Item	Softwoods		Hardwoods		All species	
	Volume	Percent standard error	Volume	Percent standard error	Volume	Percent standard error
Net volume, 1983:						
Growing stock (Million cubic feet)	3,340.8	± 4.8	1,159.3	± 8.2	4,500.1	± 4.1
Sawtimber ¹ (Million board feet)	11,589.5	± 5.8	1,867.7	±15.0	13,457.2	± 5.4
Sawtimber ² (Million board feet)	9,838.7	± 5.8	1,588.7	±15.0	11,427.4	± 5.4
Net annual growth, 1982:						
Growing stock (Thousand cubic feet)	66,165	± 6.6	22,807	±12.7	88,972	± 5.9
Sawtimber ¹ (Thousand board feet)	273,505	± 8.0	110,320	±25.7	383,825	± 9.4
Sawtimber ² (Thousand board feet)	231,144	± 8.0	94,598	±25.6	325,742	± 9.5
Annual mortality, 1982:						
Growing stock (Thousand cubic feet)	7,346	±19.3	9,414	±20.1	16,760	±14.5
Sawtimber ¹ (Thousand board feet)	28,392	±22.1	11,082	±39.6	39,474	±20.3
Sawtimber ² (Thousand board feet)	24,043	±21.9	9,408	±39.3	33,451	±20.2

¹International 4-inch rule.

²Scribner rule.

Table 3--Total land and water area by ownership class, Colorado, 1983

Ownership class	Area
- - Thousand acres - -	
Land:	
Public:	
National Forest	14,430.8
National Parks ¹	610.3
Other:	
Bureau of Land Management	8,333.0
Miscellaneous Federal	271.6
State	3,022.9
County and municipal	316.2
Total other public	11,943.7
Total public	26,984.8
Private	39,315.9
Total land area	66,300.7
Census water	317.5
Total land and water ²	66,618.2

¹Not included with miscellaneous Federal, a component of other public, for purpose of clarity.

²U.S. Bureau of the Census, land and water area of the United States, 1980.

Table 4--Total land area on State and privately owned land by major land class and ownership class, Colorado, 1983

Land class	Ownership class		Total
	State	Nonindustrial private	
- - - - - Thousand acres - - - - -			
Timberland:			
Reserved	18.9	--	18.9
Nonreserved	235.2	3,365.2	3,600.4
Total	254.1	3,365.2	3,619.3
Woodland:			
Reserved	6.9	--	6.9
Nonreserved	161.2	2,625.4	2,786.6
Total	168.1	2,625.4	2,793.5
Total forest land:			
Reserved	25.8	--	25.8
Nonreserved	396.4	5,990.6	6,387.0
Total	422.2	5,990.6	6,412.8
Nonforest land ¹	2,600.7	33,325.3	35,926.0
Total land area	3,022.9	39,315.9	42,338.8

¹Includes all of Eastern Colorado which was administratively determined to be nonforest land.

Table 5--Area of forest land on State and privately owned land by forest type, ownership class, and land class, Colorado, 1983

Forest type	Ownership class and land class						
	State		Nonindustrial private		All owners		
	Reserved	Nonreserved	Reserved	Nonreserved	Reserved	Nonreserved	Total
	----- Thousand acres -----						
Douglas-fir	4.9	23.7	--	430.9	4.9	454.6	459.5
Ponderosa pine	6.3	63.6	--	1,273.4	6.3	1,337.0	1,343.3
Lodgepole pine	3.9	45.4	--	284.9	3.9	330.3	334.2
Limber pine	--	2.6	--	31.3	--	33.9	33.9
Spruce subalpine-fir	--	16.7	--	137.1	--	153.8	153.8
White fir	--	5.9	--	92.7	--	98.6	98.6
Spruce	0.2	16.3	--	230.7	0.2	247.0	247.2
Aspen	1.5	58.8	--	785.4	1.5	844.2	845.7
Cottonwood	2.1	2.2	--	98.8	2.1	101.0	103.1
Total timberland	18.9	235.2	--	3,365.2	18.9	3,600.4	3,619.3
Pinyon-juniper	4.5	98.3	--	1,567.6	4.5	1,665.9	1,670.4
Juniper	--	31.1	--	406.4	--	437.5	437.5
Oak	2.4	31.4	--	638.5	2.4	669.9	672.3
Riparian	--	0.2	--	3.4	--	3.6	3.6
Other west hardwoods	--	0.2	--	9.5	--	9.7	9.7
Total woodland	6.9	161.2	--	2,625.4	6.9	2,786.6	2,793.5
Total all types	25.8	396.4	--	5,990.6	25.8	6,387.0	6,412.8

Table 6--Cubic feet of net volume in trees on State and privately owned forest land by species and ownership class, Colorado, 1983

Species	Ownership class		Total
	State	Nonindustrial private	
----- Million cubic feet -----			
Douglas-fir	28.6	548.7	577.3
Ponderosa pine	46.1	1,026.7	1,072.8
Lodgepole pine	93.7	535.7	629.4
Whitebark pine	1.0	25.9	26.9
Limber pine	2.4	38.1	40.5
Subalpine fir	19.7	181.3	201.0
White fir	6.3	93.2	99.5
Engelmann spruce	53.1	640.9	694.0
Aspen	74.1	1,000.5	1,074.6
Cottonwood	2.0	87.2	89.2
Total timberland species	327.0	4,178.2	4,505.2
Pinyon/juniper	57.1	977.2	1,034.3
Woodland hardwoods	8.5	147.2	155.7
Total woodland species	65.6	1,124.4	1,190.0
Total all species	392.6	5,302.6	5,695.2

Table 7--Cubic feet of net annual growth in trees on State and privately owned forest land by species and ownership class, Colorado, 1982

Species	Ownership class		Total
	State	Nonindustrial private	
- - - - - Thousand cubic feet - - - - -			
Douglas-fir	598	10,634	11,232
Ponderosa pine	902	19,682	20,584
Lodgepole pine	1,937	14,858	16,795
Whitebark pine	13	330	343
Limber pine	37	588	625
Subalpine fir	338	2,818	3,156
White fir	40	1,074	1,114
Engelmann spruce	883	11,562	12,445
Aspen	1,601	18,730	20,331
Cottonwood	50	2,552	2,602
Total timberland species	6,399	82,828	89,227
Pinyon/juniper	581	9,672	10,253
Woodland hardwoods	263	5,519	5,782
Total woodland species	844	15,191	16,035
Total all species	7,243	98,019	105,262

Table 8--Cubic feet of annual mortality in trees on State and privately owned forest land by species and ownership class, Colorado, 1982

Species	Ownership class		Total
	State	Nonindustrial private	
- - - - - Thousand cubic feet - - - - -			
Douglas-fir	48	1,144	1,192
Ponderosa pine	37	929	966
Lodgepole pine	205	1,402	1,607
Whitebark pine	--	--	--
Limber pine	--	--	--
Subalpine fir	129	1,173	1,302
White fir	119	1,037	1,156
Engelmann spruce	23	1,100	1,123
Aspen	429	8,730	9,159
Cottonwood	--	263	263
Total timberland species	990	15,778	16,768
Pinyon/juniper	133	1,950	2,083
Woodland hardwoods	45	717	762
Total woodland species	178	2,667	2,845
Total all species	1,168	18,445	19,613

Table 9--Area of State and privately owned timberland by forest type, stand-size class, and productivity class, Colorado, 1983

Forest type and stand-size class	Productivity class				Total acres
	85-119	50-84	20-49	0-19	
- - - - - Thousand acres - - - - -					
Douglas-fir:					
Sawtimber	--	106.4	213.1	7.3	326.8
Poletimber	--	8.1	98.0	--	106.1
Sapling and seedling	--	--	3.9	--	3.9
Nonstocked	--	3.9	13.9	--	17.8
Total	--	118.4	328.9	7.3	454.6
Ponderosa pine:					
Sawtimber	18.6	181.3	779.2	4.0	983.1
Poletimber	--	12.1	152.1	--	164.2
Sapling and seedling	--	--	13.7	--	13.7
Nonstocked	--	19.3	156.7	--	176.0
Total	18.6	212.7	1,101.7	4.0	1,337.0
Lodgepole pine:					
Sawtimber	7.2	71.7	68.3	--	147.2
Poletimber	8.2	7.1	139.2	12.7	167.2
Sapling and seedling	--	--	15.9	--	15.9
Nonstocked	--	--	--	--	--
Total	15.4	78.8	223.4	12.7	330.3
Limber pine:					
Sawtimber	--	--	17.0	16.9	33.9
Poletimber	--	--	--	--	--
Sapling and seedling	--	--	--	--	--
Nonstocked	--	--	--	--	--
Total	--	--	17.0	16.9	33.9
Spruce-subalpine fir:					
Sawtimber	--	37.8	62.8	--	100.6
Poletimber	--	12.0	7.2	--	19.2
Sapling and seedling	--	14.8	11.9	--	26.7
Nonstocked	--	--	--	7.3	7.3
Total	--	64.6	81.9	7.3	153.8

(con.)

Table 9 (con.)

Forest type and stand-size class	Productivity class				Total acres
	85-119	50-84	20-49	0-19	
- - - - - Thousand acres - - - - -					
White fir:					
Sawtimber	8.8	25.6	28.6	--	63.0
Poletimber	--	8.6	--	--	8.6
Sapling and seedling	10.2	9.2	3.8	--	23.2
Nonstocked	3.8	--	--	--	3.8
Total	22.8	43.4	32.4	--	98.6
Spruce:					
Sawtimber	18.7	147.0	55.5	7.1	228.3
Poletimber	4.7	--	9.2	--	13.9
Sapling and seedling	--	--	4.8	--	4.8
Nonstocked	--	--	--	--	--
Total	23.4	147.0	69.5	7.1	247.0
Aspen:					
Sawtimber	46.6	54.0	64.4	--	165.0
Poletimber	12.6	204.1	297.5	16.7	530.9
Sapling and seedling	--	35.6	78.6	27.8	142.0
Nonstocked	--	6.3	--	--	6.3
Total	59.2	300.0	440.5	44.5	844.2
Cottonwood:					
Sawtimber	--	68.7	10.1	--	78.8
Poletimber	--	22.2	--	--	22.2
Sapling and seedling	--	--	--	--	--
Nonstocked	--	--	--	--	--
Total	--	90.9	10.1	--	101.0
All types:					
Sawtimber	99.9	692.5	1,299.0	35.3	2,126.7
Poletimber	25.5	274.2	703.2	29.4	1,032.3
Sapling and seedling	10.2	59.6	132.6	27.8	230.2
Nonstocked	3.8	29.5	170.6	7.3	211.2
Total	139.4	1,055.8	2,305.4	99.8	3,600.4

Table 10--Area of State owned timberland by forest type, stand-size class, and productivity class, Colorado, 1983

Forest type and stand-size class	Productivity class				Total acres
	85-119	50-84	20-49	0-19	
- - - - - Thousand acres - - - - -					
Douglas-fir:					
Sawtimber	--	3.9	13.5	0.5	17.9
Poletimber	--	1.0	3.6	--	4.6
Sapling and seedling	--	--	0.1	--	0.1
Nonstocked	--	--	1.1	--	1.1
Total	--	4.9	18.3	0.5	23.7
Ponderosa pine:					
Sawtimber	0.6	6.5	36.9	0.2	44.2
Poletimber	--	0.7	6.4	--	7.1
Sapling and seedling	--	--	0.7	--	0.7
Nonstocked	--	0.5	11.1	--	11.6
Total	0.6	7.7	55.1	0.2	63.6
Lodgepole pine:					
Sawtimber	2.2	12.0	9.0	--	23.2
Poletimber	0.7	1.7	14.7	0.8	17.9
Sapling and seedling	--	--	4.3	--	4.3
Nonstocked	--	--	--	--	--
Total	2.9	13.7	28.0	0.8	45.4
Limber pine:					
Sawtimber	--	--	0.6	2.0	2.6
Poletimber	--	--	--	--	--
Sapling and seedling	--	--	--	--	--
Nonstocked	--	--	--	--	--
Total	--	--	0.6	2.0	2.6
Spruce-subalpine fir:					
Sawtimber	--	4.2	4.3	--	8.5
Poletimber	--	1.0	2.2	--	3.2
Sapling and seedling	--	2.4	2.2	--	4.6
Nonstocked	--	--	--	0.4	0.4
Total	--	7.6	8.7	0.4	16.7

(con.)

Table 10 (con.)

Forest type and stand-size class	Productivity class				Total acres
	85-119	50-84	20-49	0-19	
- - - - - Thousand acres - - - - -					
White fir:					
Sawtimber	2.2	0.9	1.5	--	4.6
Poletimber	--	--	--	--	--
Sapling and seedling	0.3	0.4	0.3	--	1.0
Nonstocked	0.3	--	--	--	0.3
Total	2.8	1.3	1.8	--	5.9
Spruce:					
Sawtimber	0.6	8.3	4.3	2.1	15.3
Poletimber	--	--	1.0	--	1.0
Sapling and seedling	--	--	--	--	--
Nonstocked	--	--	--	--	--
Total	0.6	8.3	5.3	2.1	16.3
Aspen:					
Sawtimber	4.8	3.0	2.5	--	10.3
Poletimber	2.3	14.5	21.1	1.8	39.7
Sapling and seedling	--	1.7	5.4	1.2	8.3
Nonstocked	--	0.5	--	--	0.5
Total	7.1	19.7	29.0	3.0	58.8
Cottonwood:					
Sawtimber	--	1.2	0.8	--	2.0
Poletimber	--	0.2	--	--	0.2
Sapling and seedling	--	--	--	--	--
Nonstocked	--	--	--	--	--
Total	--	1.4	0.8	--	2.2
All types:					
Sawtimber	10.4	40.0	73.4	4.8	128.6
Poletimber	3.0	19.1	49.0	2.6	73.7
Sapling and seedling	0.3	4.5	13.0	1.2	19.0
Nonstocked	0.3	1.0	12.2	0.4	13.9
Total	14.0	64.6	147.6	9.0	235.2

Table 11--Area of nonindustrial privately owned timberland by forest type, stand-size class, and productivity class, Colorado, 1983

Forest type and stand-size class	Productivity class				Total acres
	85-119	50-84	20-49	0-19	
- - - - - Thousand acres - - - - -					
Douglas-fir:					
Sawtimber	--	102.5	199.6	6.8	308.9
Poletimber	--	7.1	94.4	--	101.5
Sapling and seedling	--	--	3.8	--	3.8
Nonstocked	--	3.9	12.8	--	16.7
Total	--	113.5	310.6	6.8	430.9
Ponderosa pine:					
Sawtimber	18.0	174.8	742.3	3.8	938.9
Poletimber	--	11.4	145.7	--	157.1
Sapling and seedling	--	--	13.0	--	13.0
Nonstocked	--	18.8	145.6	--	164.4
Total	18.0	205.0	1,046.6	3.8	1,273.4
Lodgepole pine:					
Sawtimber	5.0	59.7	59.3	--	124.0
Poletimber	7.5	5.4	124.5	11.9	149.3
Sapling and seedling	--	--	11.6	--	11.6
Nonstocked	--	--	--	--	--
Total	12.5	65.1	195.4	11.9	284.9
Limber pine:					
Sawtimber	--	--	16.4	14.9	31.3
Poletimber	--	--	--	--	--
Sapling and seedling	--	--	--	--	--
Nonstocked	--	--	--	--	--
Total	--	--	16.4	14.9	31.3
Spruce-subalpine fir:					
Sawtimber	--	33.6	58.5	--	92.1
Poletimber	--	11.0	5.0	--	16.0
Sapling and seedling	--	12.4	9.7	--	22.1
Nonstocked	--	--	--	6.9	6.9
Total	--	57.0	73.2	6.9	137.1

(con.)

Table 11 (con.)

Forest type and stand-size class	Productivity class				Total acres
	85-119	50-84	20-49	0-19	
- - - - - Thousand acres - - - - -					
White fir:					
Sawtimber	6.6	24.7	27.1	--	58.4
Poletimber	--	8.6	--	--	8.6
Sapling and seedling	9.9	8.8	3.5	--	22.2
Nonstocked	3.5	--	--	--	3.5
Total	20.0	42.1	30.6	--	92.7
Spruce:					
Sawtimber	18.1	138.7	51.2	5.0	213.0
Poletimber	4.7	--	8.2	--	12.9
Sapling and seedling	--	--	4.8	--	4.8
Nonstocked	--	--	--	--	--
Total	22.8	138.7	64.2	5.0	230.7
Aspen:					
Sawtimber	41.8	51.0	61.9	--	154.7
Poletimber	10.3	189.6	276.4	14.9	491.2
Sapling and seedling	--	33.9	73.2	26.6	133.7
Nonstocked	--	5.8	--	--	5.8
Total	52.1	280.3	411.5	41.5	785.4
Cottonwood:					
Sawtimber	--	67.5	9.3	--	76.8
Poletimber	--	22.0	--	--	22.0
Sapling and seedling	--	--	--	--	--
Nonstocked	--	--	--	--	--
Total	--	89.5	9.3	--	98.8
All types:					
Sawtimber	89.5	652.5	1,225.6	30.5	1,998.1
Poletimber	22.5	255.1	654.2	26.8	958.6
Sapling and seedling	9.9	55.1	119.6	26.6	211.2
Nonstocked	3.5	28.5	158.4	6.9	197.3
Total	125.4	991.2	2,157.8	90.8	3,365.2

Table 12--Area of State and privately owned timberland by stand volume and ownership class, Colorado, 1983

Stand volume per acre ¹	Ownership class		
	State	Nonindustrial private	Total
- - - - - Thousand acres - - - - -			
Less than 1,500 board feet	81.8	1,181.9	1,263.7
1,500 to 4,999 board feet	82.3	1,248.8	1,331.1
5,000 to 9,999 board feet	47.9	683.5	731.4
10,000 board feet or more	23.2	251.0	274.2
All classes	235.2	3,365.2	3,600.4

¹International 4-inch rule.

Table 13--Area of State and privately owned timberland by forest type and area condition class, Colorado, 1983

Forest type	Area condition class									
	10	20	30	40	50	60	70	80	90	All classes
- - - - - Thousand acres - - - - -										
Douglas-fir	--	--	--	7.7	70.3	153.7	68.7	7.7	128.7	454.6
Ponderosa pine	--	--	--	--	96.0	371.7	493.1	3.9	196.3	1,337.0
Lodgepole pine	--	8.2	3.9	47.2	119.6	74.1	31.3	5.4	40.6	330.3
Limber pine	--	--	--	--	--	--	9.7	--	24.2	33.9
Spruce-subalpine fir	--	--	7.1	3.8	61.4	12.1	8.8	27.2	26.1	153.8
White fir	--	--	--	--	--	27.9	54.8	--	12.1	98.6
Spruce	--	27.2	--	--	26.7	40.4	72.5	7.1	73.1	247.0
Aspen	--	--	8.2	9.9	371.9	269.0	137.3	--	41.6	844.2
Cottonwood	--	--	--	--	--	36.4	24.5	--	40.1	101.0
All types	--	35.4	19.2	68.6	745.9	985.3	900.7	51.3	582.8	3,600.4

Table 14--Number of growing stock trees on State and privately owned timberland by species and diameter class, Colorado, 1983

Species	Diameter class (inches at breast height)														All classes
	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+
----- Thousand trees -----															
Douglas-fir	10,774	25,962	26,889	17,770	9,111	5,745	3,416	2,559	1,267	713	407	139	118	25	44
Ponderosa pine	17,858	29,910	32,591	29,949	19,840	15,293	10,843	5,909	2,763	926	287	307	102	140	164
Lodgepole pine	11,985	30,751	40,345	23,870	10,669	5,518	2,505	449	235	--	--	--	--	--	--
Whitebark pine	1,053	727	1,142	913	800	434	227	235	46	17	--	--	--	--	--
Limber pine	1,100	3,467	2,121	1,531	376	656	176	171	187	87	12	--	10	18	8
Subalpine fir	18,485	21,949	15,215	8,437	5,081	1,552	363	402	111	75	90	--	--	--	--
White fir	16,054	3,460	6,905	3,235	1,864	1,083	620	361	59	139	76	51	--	75	6
Engelmann spruce	50,377	25,780	13,307	14,856	9,490	7,392	3,874	2,040	1,455	808	276	316	260	74	65
Total softwoods	127,686	142,006	138,515	100,561	57,231	37,673	22,024	12,126	6,123	2,765	1,148	813	490	332	287
Aspen	113,860	98,097	98,335	48,208	29,128	10,179	4,790	1,697	527	46	86	--	--	--	--
Cottonwood	9,593	--	4,352	2,562	2,334	840	116	480	244	161	113	--	--	--	167
Total hardwoods	123,453	98,097	102,687	50,770	31,462	11,019	4,906	2,177	771	207	199	--	--	--	167
All species	251,139	240,103	241,202	151,331	88,693	48,692	26,930	14,303	6,894	2,972	1,347	813	490	332	454
															1,075,695

Table 15--Number of cull and salvable dead trees on State and privately owned timberland by ownership class, and softwoods and hardwoods, Colorado, 1983

Ownership class and species group	Cull trees			Salvable dead trees	All dead trees
	Sound	Rotten	Total		
- - - - - Thousand trees - - - - -					
State:					
Softwoods	78	97	175	2,650	2,825
Hardwoods	--	511	511	2,116	2,627
Total	78	608	686	4,766	5,452
Nonindustrial private:					
Softwoods	1,452	1,771	3,223	25,764	28,987
Hardwoods	--	5,723	5,723	32,799	38,522
Total	1,452	7,494	8,946	58,563	67,509
Total:					
Softwoods	1,530	1,868	3,398	28,414	31,812
Hardwoods	--	6,234	6,234	34,915	41,149
Total	1,530	8,102	9,632	63,329	72,961

Table 16--Net volume of growing stock on State and privately owned timberland by ownership class, forest type, and stand-size class, Colorado, 1983

Ownership class	Forest type	Stand-size class				All classes
		Sawtimber	Poletimber	Sapling/ seedling	Nonstocked	
- - - - - Million cubic feet - - - - -						
State:	Douglas-fir	23.9	5.5	(¹)	0.1	29.5
	Ponderosa pine	39.2	5.7	0.3	0.8	46.0
	Lodgepole pine	62.7	26.8	--	--	89.5
	Limber pine	1.4	--	--	--	1.4
	Spruce-subalpine fir	20.9	8.0	3.2	0.1	32.2
	White fir	5.5	--	0.3	--	5.8
	Spruce	38.6	1.4	--	--	40.0
	Aspen	25.5	52.6	2.6	--	80.7
	Cottonwood	1.4	0.3	--	--	1.7
	All types	219.1	100.3	6.4	1.0	326.8
Nonindustrial private:	Douglas-fir	430.9	116.4	1.2	0.9	549.4
	Ponderosa pine	888.7	125.0	4.8	14.5	1,033.0
	Lodgepole pine	298.0	223.2	--	--	521.2
	Limber pine	22.8	--	--	--	22.8
	Spruce-subalpine fir	230.5	63.7	16.2	1.5	311.9
	White fir	76.9	13.1	7.8	--	97.8
	Spruce	505.2	17.8	0.7	--	523.7
	Aspen	323.0	651.9	57.3	--	1,032.2
	Cottonwood	52.2	29.1	--	--	81.3
	All types	2,828.2	1,240.2	88.0	16.9	4,173.3
Total:	Douglas-fir	454.8	121.9	1.2	1.0	578.9
	Ponderosa pine	927.9	130.7	5.1	15.3	1,079.0
	Lodgepole pine	360.7	250.0	--	--	610.7
	Limber pine	24.2	--	--	--	24.2
	Spruce-subalpine fir	251.4	71.7	19.4	1.6	344.1
	White fir	82.4	13.1	8.1	--	103.6
	Spruce	543.8	19.2	0.7	--	563.7
	Aspen	348.5	704.5	59.9	--	1,112.9
	Cottonwood	53.6	29.4	--	--	83.0
	All types	3,047.3	1,340.5	94.4	17.9	4,500.1

¹Less than 0.05 million cubic feet.

Table 17--Net volume of sawtimber (International 4-inch rule) on State and privately owned timberland by ownership class, forest type, and stand-size class, Colorado, 1983

Ownership class	Forest type	Stand-size class				
		Sawtimber	Poletimber	Sapling/ seedling	Nonstocked	All classes
- - - - Million board feet, International 4-inch rule - - - -						
State:	Douglas-fir	87.7	13.4	0.1	0.2	101.4
	Ponderosa pine	157.2	10.3	0.9	3.6	172.0
	Lodgepole pine	197.1	31.6	--	--	228.7
	Limber pine	5.3	--	--	--	5.3
	Spruce-subalpine fir	76.3	14.9	9.3	0.4	100.9
	White fir	18.1	--	0.9	--	19.0
	Spruce	148.6	1.6	--	--	150.2
	Aspen	77.2	62.4	3.6	--	143.2
	Cottonwood	5.6	0.2	--	--	5.8
	All types	773.1	134.4	14.8	4.2	926.5
Nonindustrial private:	Douglas-fir	1,598.6	276.5	2.2	3.4	1,880.7
	Ponderosa pine	3,600.2	217.1	17.2	66.3	3,900.8
	Lodgepole pine	965.1	196.3	--	--	1,161.4
	Limber pine	74.4	--	--	--	74.4
	Spruce-subalpine fir	824.9	112.2	43.5	5.8	986.4
	White fir	236.1	17.7	19.0	--	272.8
	Spruce	2,072.8	25.8	2.1	--	2,100.7
	Aspen	1,076.7	785.2	62.3	--	1,924.2
	Cottonwood	214.2	15.1	--	--	229.3
	All types	10,663.0	1,645.9	146.3	75.5	12,530.7
Total:	Douglas-fir	1,686.3	289.9	2.3	3.6	1,982.1
	Ponderosa pine	3,757.4	227.4	18.1	69.9	4,072.8
	Lodgepole pine	1,162.2	227.9	--	--	1,390.1
	Limber pine	79.7	--	--	--	79.7
	Spruce-subalpine fir	901.2	127.1	52.8	6.2	1,087.3
	White fir	254.2	17.7	19.9	--	291.8
	Spruce	2,221.4	27.4	2.1	--	2,250.9
	Aspen	1,153.9	847.6	65.9	--	2,067.4
	Cottonwood	219.8	15.3	--	--	235.1
	All types	11,436.1	1,780.3	161.1	79.7	13,457.2

Table 18--Net volume of sawtimber (Scribner rule) on State and privately owned timberland by ownership class, forest type, and stand-size class, Colorado, 1983

Ownership class	Forest type	Stand-size class				All classes
		Sawtimber	Poletimber	Sapling/ seedling	Nonstocked	
- - - - - Million board feet, Scribner rule - - - - -						
State:	Douglas-fir	74.3	11.3	0.1	0.1	85.8
	Ponderosa pine	133.3	8.4	0.7	3.1	145.5
	Lodgepole pine	168.1	27.1	--	--	195.2
	Limber pine	4.5	--	--	--	4.5
	Spruce-subalpine fir	64.1	12.5	8.0	0.3	84.9
	White fir	15.4	--	0.8	--	16.2
	Spruce	126.5	1.4	--	--	127.9
	Aspen	65.5	53.1	3.0	--	121.6
	Cottonwood	4.8	0.2	--	--	5.0
	All types	656.5	114.0	12.6	3.5	786.6
Nonindustrial private:	Douglas-fir	1,356.4	233.4	1.8	2.9	1,594.5
	Ponderosa pine	3,064.9	176.6	14.8	55.6	3,311.9
	Lodgepole pine	821.9	168.0	--	--	989.9
	Limber pine	63.1	--	--	--	63.1
	Spruce-subalpine fir	696.5	95.5	37.2	5.0	834.2
	White fir	200.1	14.9	16.1	--	231.1
	Spruce	1,762.3	22.0	1.8	--	1,786.1
	Aspen	914.3	667.2	52.9	--	1,634.4
	Cottonwood	183.5	12.1	--	--	195.6
	All types	9,063.0	1,389.7	124.6	63.5	10,640.8
Total:	Douglas-fir	1,430.7	244.7	1.9	3.0	1,680.3
	Ponderosa pine	3,198.2	185.0	15.5	58.7	3,457.4
	Lodgepole pine	990.0	195.1	--	--	1,185.1
	Limber pine	67.6	--	--	--	67.6
	Spruce-subalpine fir	760.6	108.0	45.2	5.3	919.1
	White fir	215.5	14.9	16.9	--	247.3
	Spruce	1,888.8	23.4	1.8	--	1,914.0
	Aspen	979.8	720.3	55.9	--	1,756.0
	Cottonwood	188.3	12.3	--	--	200.6
	All types	9,719.5	1,503.7	137.2	67.0	11,427.4

Table 19--Net volume of growing stock on State and privately owned timberland by ownership class and species, Colorado, 1983

Species	Ownership class		Total
	State	Nonindustrial private	
- - - - - Million cubic feet - - - - -			
Douglas-fir	28.6	548.5	577.1
Ponderosa pine	46.1	1,026.4	1,072.5
Lodgepole pine	93.7	535.7	629.4
Whitebark pine	1.0	25.9	26.9
Limber pine	2.3	38.1	40.4
Subalpine fir	19.8	181.2	201.0
White fir	6.3	93.2	99.5
Engelmann spruce	53.1	640.9	694.0
Total softwoods	250.9	3,089.9	3,340.8
Aspen	73.9	996.1	1,070.0
Cottonwood	2.0	87.3	89.3
Total hardwoods	75.9	1,083.4	1,159.3
All species	326.8	4,173.3	4,500.1

Table 20--Net volume of sawtimber (International 4-inch rule) on State and privately owned timberland by ownership class and species, Colorado, 1983

Species	Ownership class		
	State	Nonindustrial private	Total
- - Million board feet, International 1/4-inch rule - - -			
Douglas-fir	106.1	2,038.7	2,144.8
Ponderosa pine	175.4	3,956.5	4,131.9
Lodgepole pine	252.1	1,252.2	1,504.3
Whitebark pine	2.8	83.1	85.9
Limber pine	7.5	123.7	131.2
Subalpine fir	51.8	437.6	489.4
White fir	22.5	299.9	322.4
Engelmann spruce	198.6	2,581.0	2,779.6
Total softwoods	816.8	10,772.7	11,589.5
Aspen	102.7	1,505.5	1,608.2
Cottonwood	7.0	252.5	259.5
Total hardwoods	109.7	1,758.0	1,867.7
All species	926.5	12,530.7	13,457.2

Table 21--Net volume of sawtimber (Scribner rule) on State and privately owned timberland by ownership class and species, Colorado, 1983

Species	Ownership class		Total
	State	Nonindustrial private	
- - - - Million board feet, Scribner rule - - - -			
Douglas-fir	89.8	1,727.6	1,817.4
Ponderosa pine	148.4	3,359.0	3,507.4
Lodgepole pine	215.0	1,067.8	1,282.8
Whitebark pine	2.3	69.3	71.6
Limber pine	6.4	105.3	111.7
Subalpine fir	43.9	372.4	416.3
White fir	19.2	254.2	273.4
Engelmann spruce	168.2	2,189.9	2,358.1
Total softwoods	693.2	9,145.5	9,838.7
Aspen	87.3	1,279.1	1,366.4
Cottonwood	6.1	216.2	222.3
Total hardwoods	93.4	1,495.3	1,588.7
All species	786.6	10,640.8	11,427.4

Table 22--Net volume of growing stock on State and privately owned timberland by species and diameter class, Colorado, 1983

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+ 30.0
----- Million cubic feet -----													
Douglas-fir	48.3	77.4	82.9	79.2	74.4	73.3	48.1	38.0	25.7	10.1	9.4	2.5	7.8
Ponderosa pine	53.7	120.5	142.3	179.3	211.3	156.9	91.6	42.6	14.3	19.4	7.7	11.9	21.0
Lodgepole pine	110.7	164.4	145.0	111.8	70.1	16.4	11.0	--	--	--	--	--	--
Whitebark pine	1.8	3.1	5.7	5.3	3.8	5.2	1.4	0.6	--	--	--	--	--
Limber pine	3.5	6.7	3.6	9.1	3.3	4.0	4.8	2.4	0.4	--	0.9	1.0	0.7
Subalpine fir	43.3	41.3	55.4	27.7	8.1	12.2	4.4	3.5	5.1	--	--	--	--
White fir	9.6	14.4	13.1	14.3	13.6	11.1	1.9	6.3	3.8	3.7	--	7.0	0.7
Engelmann spruce	29.0	78.1	93.0	123.8	93.1	68.7	66.4	46.4	21.6	25.7	25.4	10.9	11.9
Total softwoods	299.9	505.9	541.0	550.5	477.7	347.8	229.6	139.8	70.9	58.9	43.4	33.3	42.1
Aspen	191.4	252.6	297.0	154.7	105.7	45.0	17.6	1.4	4.6	--	--	--	--
Cottonwood	4.9	10.7	19.2	10.5	1.8	9.3	5.1	6.1	4.8	--	--	--	16.9
Total hardwoods	196.3	263.3	316.2	165.2	107.5	54.3	22.7	7.5	9.4	--	--	--	16.9
All species	496.2	769.2	857.2	715.7	585.2	402.1	252.3	147.3	80.3	58.9	43.4	33.3	59.0
													4,500.1

Table 23--Net volume of sawtimber (International 4-inch rule) on State and privately owned timberland by species and diameter class, Colorado, 1983

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+		
----- Million board feet, International 4-inch rule -----													
Douglas-fir	284.1	350.7	366.1	374.6	252.9	206.3	140.5	56.3	52.7	14.7	45.9	2,144.8	
Ponderosa pine	461.4	749.3	1,022.0	797.5	476.0	226.3	76.0	104.0	41.5	63.8	114.1	4,131.9	
Lodgepole pine	499.8	511.2	351.3	85.1	56.9	--	--	--	--	--	--	1,504.3	
Whitebark pine	17.6	19.8	15.7	23.6	6.5	2.7	--	--	--	--	--	85.9	
Limber pine	12.6	35.8	14.3	18.0	23.1	11.6	2.1	--	4.7	5.1	3.9	131.2	
Subalpine fir	197.3	128.5	38.3	59.7	21.9	17.6	26.1	--	--	--	--	489.4	
White fir	41.5	61.5	64.3	52.6	8.6	27.5	16.5	16.0	--	30.6	3.3	322.4	
Engelmann spruce	325.0	566.5	451.1	341.0	333.5	236.4	114.4	138.1	140.5	63.1	70.0	2,779.6	
Total softwoods	1,839.3	2,423.3	2,323.1	1,752.1	1,179.4	728.4	375.6	314.4	239.4	177.3	237.2	11,589.5	
Aspen	XXXX	732.8	529.3	227.5	89.2	6.6	22.8	--	--	--	--	1,608.2	
Cottonwood	XXXX	53.5	8.8	45.6	24.0	28.3	22.0	--	--	--	77.3	259.5	
Total hardwoods	XXXX	786.3	538.1	273.1	113.2	34.9	44.8	--	--	--	77.3	1,867.7	
All species	1,839.3	3,209.6	2,861.2	2,025.2	1,292.6	763.3	420.4	314.4	239.4	177.3	314.5	13,457.2	

Table 24--Net volume of sawtimber (Scribner rule) on State and privately owned timberland by species and diameter class, Colorado, 1983

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+		
----- Million board feet, Scribner rule -----													
Douglas-fir	251.8	303.1	305.0	307.5	205.5	173.5	120.9	49.4	46.7	13.1	40.9	1,817.4	
Ponderosa pine	349.1	617.5	877.4	693.5	416.6	199.4	67.0	92.0	36.8	56.6	101.5	3,507.4	
Lodgepole pine	434.5	433.0	295.1	71.5	48.7	--	--	--	--	--	--	1,282.8	
Whitebark pine	13.5	17.1	13.4	19.9	5.4	2.3	--	--	--	--	--	71.6	
Limber pine	10.5	30.8	12.1	15.2	19.4	9.8	1.8	--	4.1	4.5	3.5	111.7	
Subalpine fir	172.5	108.6	31.8	48.8	17.7	14.6	22.3	--	--	--	--	416.3	
White fir	36.3	53.1	53.4	42.9	7.0	22.2	14.1	14.3	--	27.2	2.9	273.4	
Engelmann spruce	286.5	481.1	373.3	277.8	274.1	198.9	101.1	122.0	124.9	56.1	62.3	2,358.1	
Total softwoods	1,554.7	2,044.3	1,961.5	1,477.1	994.4	620.7	327.2	277.7	212.5	157.5	211.1	9,838.7	
Aspen	XXXX	628.4	445.6	191.6	75.7	5.6	19.5	--	--	--	--	1,366.4	
Cottonwood	XXXX	42.9	7.3	38.6	20.5	24.8	19.4	--	--	--	68.8	222.3	
Total hardwoods	XXXX	671.3	452.9	230.2	96.2	30.4	38.9	--	--	--	68.8	1,588.7	
All species	1,554.7	2,715.6	2,414.4	1,707.3	1,090.6	651.1	366.1	277.7	212.5	157.5	279.9	11,427.4	

Table 25--Net volume of timber on State and privately owned timberland by class of timber, and softwoods and hardwoods, Colorado, 1983

Class of timber	Softwoods	Hardwoods	All classes
----- Million cubic feet -----			
Sawtimber trees:			
Saw-log portion	2,216.1	287.3	2,503.4
Upper-stem portion	319.0	96.1	415.1
Total	2,535.1	383.4	2,918.5
Poletimber trees	805.7	775.9	1,581.6
All growing stock trees	3,340.8	1,159.3	4,500.1
Sound cull trees	2.2	--	2.2
Rotten cull trees	8.7	14.3	23.0
Salvable dead trees	170.2	87.1	257.3
All timber	3,521.9	1,260.7	4,782.6

Table 26--Net volume of growing stock on State and privately owned timberland by forest type and species, Colorado, 1983

Forest type	Species										Total hardwoods	All species
	Douglas- fir	Ponderosa pine	Lodgepole pine	Whitebark pine	Limber pine	Subalpine fir	White fir	Engelmann spruce	Total softwoods	Aspen		
									</			

Table 27--Net volume of sawtimber (International 4-inch rule) on State and privately owned timberland by forest type and species, Colorado, 1983

Forest type	Species												
	Douglas- fir	Ponderosa pine	Lodgepole pine	Whitebark pine	Limber pine	Subalpine fir	White fir	Engelmann spruce	Total softwoods	Aspen	Cotton- wood	Total hardwoods	All species
	- - - - - Million board feet, International 4-inch rule - - - - -												
Douglas-fir	1,482.2	195.9	14.2	12.6	51.5	35.3	54.6	131.0	1,977.3	4.8	--	4.8	1,982.1
Ponderosa pine	215.6	3,785.4	18.9	--	--	--	13.4	5.3	4,038.6	28.0	6.2	34.2	4,072.8
Lodgepole pine	17.9	5.1	1,305.0	--	1.3	11.3	3.4	46.1	1,390.1	--	--	--	1,390.1
Limber pine	13.0	--	--	--	51.3	--	11.1	--	75.4	4.3	--	4.3	79.7
Spruce-subalpine fir	121.7	--	70.8	60.6	25.0	291.3	--	517.9	1,087.3	--	--	--	1,087.3
White fir	98.3	32.0	--	--	2.1	--	145.0	--	277.4	14.4	--	14.4	291.8
Spruce	71.3	22.1	40.4	10.5	--	27.5	68.8	1,978.6	2,219.2	7.2	24.5	31.7	2,250.9
Aspen	124.8	85.1	55.0	2.2	--	124.0	26.1	100.7	517.9	1,549.5	--	1,549.5	2,067.4
Cottonwood	--	6.3	--	--	--	--	--	--	6.3	--	228.8	228.8	235.1
All types	2,144.8	4,131.9	1,504.3	85.9	131.2	489.4	322.4	2,779.6	11,589.5	1,608.2	259.5	1,867.7	13,457.2

Table 28--Net volume of sawtimber (Scribner rule) on State and privately owned timberland by forest type and species, Colorado, 1983

Forest type	Species												
	Douglas- fir	Ponderosa pine	Lodgepole pine	Whitebark pine	Limber pine	Subalpine fir	White fir	Engelmann spruce	Total softwoods	Aspen	Cotton- wood	Total hardwoods	All species
	- - - - - Million board feet, Scribner rule - - - - -												
Douglas-fir	1,256.1	164.2	12.1	10.7	44.2	30.7	45.9	112.3	1,676.2	4.1	--	4.1	1,680.3
Ponderosa pine	181.7	3,214.1	16.4	--	--	--	11.5	4.3	3,428.0	23.9	5.5	29.4	3,457.4
Lodgepole pine	15.5	3.8	1,113.0	--	1.1	9.8	3.0	38.9	1,185.1	--	--	--	1,185.1
Limber pine	11.0	--	--	--	43.6	--	9.2	--	63.8	3.8	--	3.8	67.6
Spruce-subalpine fir	103.4	--	60.3	51.0	21.0	246.8	--	436.6	919.1	--	--	--	919.1
White fir	82.4	27.6	--	--	1.8	--	123.3	--	235.1	12.2	--	12.2	247.3
Spruce	61.9	19.6	34.3	8.0	--	23.7	58.2	1,680.4	1,886.1	6.2	21.7	27.9	1,914.0
Aspen	105.4	72.6	46.7	1.9	--	105.3	22.3	85.6	439.8	1,316.2	--	1,316.2	1,756.0
Cottonwood	--	5.5	--	--	--	--	--	--	5.5	--	195.1	195.1	200.6
All types	1,817.4	3,507.4	1,282.8	71.6	111.7	416.3	273.4	2,358.1	9,838.7	1,366.4	222.3	1,588.7	11,427.4

Table 29--Net annual growth of growing stock on State and privately owned timberland by ownership class and species, Colorado, 1982

Species	Ownership class		Total
	State	Nonindustrial private	
- - - - - Thousand cubic feet - - - - -			
Douglas-fir	593	10,512	11,105
Ponderosa pine	902	19,678	20,580
Lodgepole pine	1,937	14,858	16,795
Whitebark pine	14	330	344
Limber pine	37	588	625
Subalpine fir	338	2,818	3,156
White fir	41	1,074	1,115
Engelmann spruce	882	11,563	12,445
Total softwoods	4,744	61,421	66,165
Aspen	1,596	18,610	20,206
Cottonwood	50	2,551	2,601
Total hardwoods	1,646	21,161	22,807
All species	6,390	82,582	88,972

Table 30--Net annual growth of sawtimber (International 1/4-inch rule) on State and privately owned timberland by ownership class and species, Colorado, 1982

Species	Ownership class		
	State	Nonindustrial private	Total
- - Thousand board feet, International 1/4-inch rule - - -			
Douglas-fir	2,282	47,289	49,571
Ponderosa pine	5,028	107,781	112,809
Lodgepole pine	5,014	19,312	24,326
Whitebark pine	32	966	998
Limber pine	103	1,570	1,673
Subapline fir	3,491	16,454	19,945
White fir	1,115	7,551	8,666
Engelmann spruce	3,879	51,638	55,517
Total softwoods	20,944	252,561	273,505
Aspen	6,829	90,781	97,610
Cottonwood	343	12,367	12,710
Total hardwoods	7,172	103,148	110,320
All species	28,116	355,709	383,825

Table 31--Net annual growth of sawtimber (Scribner rule) on State and privately owned timberland by ownership class and species, Colorado, 1982

Species	Ownership class		Total
	State	Nonindustrial private	
- - - - Thousand board feet, Scribner rule - - - -			
Douglas-fir	1,914	39,952	41,866
Ponderosa pine	4,179	91,097	95,276
Lodgepole pine	4,396	16,813	21,209
Whitebark pine	29	863	892
Limber pine	85	1,298	1,383
Subalpine fir	3,064	14,467	17,531
White fir	960	6,234	7,194
Engelmann spruce	3,113	42,680	45,793
Total softwoods	17,740	213,404	231,144
Aspen	5,880	78,310	84,190
Cottonwood	282	10,126	10,408
Total hardwoods	6,162	88,436	94,598
All species	23,902	301,840	325,742

Table 32--Net annual growth of growing stock on State and privately owned timberland by species and diameter class, Colorado, 1982

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	3,081	2,098	1,513	1,595	1,032	947	508	169	3	64	57	7	31	11,105
Ponderosa pine	2,727	3,078	3,171	3,569	3,666	2,086	1,327	412	119	187	46	91	101	20,580
Lodgepole pine	9,708	3,851	2,471	387	613	173	-408	--	--	--	--	--	--	16,795
Whitebark pine	73	61	99	55	24	23	5	4	--	--	--	--	--	344
Limber pine	179	133	51	108	53	35	38	12	(1)	--	5	8	3	625
Subalpine fir	1,223	910	1,309	581	-509	81	-522	33	50	--	--	--	--	3,156
White fir	340	369	-170	31	78	201	28	107	47	21	--	58	5	1,115
Engelmann spruce	1,425	1,983	2,261	2,523	1,513	887	472	341	235	355	258	126	66	12,445
Total softwoods	18,756	12,483	10,705	8,849	6,470	4,433	1,448	1,078	454	627	366	290	206	66,165
Aspen	9,387	5,075	3,512	1,394	924	-260	139	5	30	--	--	--	--	20,206
Cottonwood	795	362	642	308	62	246	55	180	37	-263	--	--	177	2,601
Total hardwoods	10,182	5,437	4,154	1,702	986	-14	194	185	67	-263	--	--	177	22,807
All species	28,938	17,920	14,859	10,551	7,456	4,419	1,642	1,263	521	364	366	290	383	88,972

¹Less than 0.5 thousand cubic feet.

Table 33--Net annual growth of sawtimber (International 4-inch rule) on State and privately owned timberland by species and diameter class, Colorado, 1982

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 4-inch rule -----													
Douglas-fir	23,722	9,438	5,937	5,405	2,892	1,061	149	383	352	42	190		49,571
Ponderosa pine	45,577	21,053	21,285	12,117	7,501	2,294	654	1,022	253	496	557		112,809
Lodgepole pine	18,139	3,597	3,768	938	-2,116	--	--	--	--	--	--		24,326
Whitebark pine	396	290	127	136	27	22	--	--	--	--	--		998
Limber pine	230	571	282	207	217	71	2	--	28	48	17		1,673
Subalpine fir	20,985	3,225	-2,501	413	-2,623	153	293	--	--	--	--		19,945
White fir	5,684	441	546	900	111	405	188	88	--	279	24		8,666
Engelmann spruce	17,404	14,342	8,246	4,693	2,519	1,849	1,440	2,170	1,640	802	412		55,517
Total softwoods	132,137	52,957	37,690	24,809	8,528	5,855	2,726	3,663	2,273	1,667	1,200		273,505
Aspen	XXXXX	92,564	5,302	-1,105	682	26	141	--	--	--	--		97,610
Cottonwood	XXXXX	10,505	307	1,104	231	735	150	-1,175	--	--	853		12,710
Total hardwoods	XXXXX	103,069	5,609	-1	913	761	291	-1,175	--	--	853		110,320
All species	132,137	156,026	43,299	24,808	9,441	6,616	3,017	2,488	2,273	1,667	2,053		383,825

Table 34--Net annual growth of sawtimber (Scribner rule) on State and privately owned timberland by species and diameter class, Colorado, 1982

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, Scribner rule -----													
Douglas-fir	20,973	7,589	4,674	4,251	2,285	956	243	369	320	37	169	41,866	
Ponderosa pine	34,917	19,000	19,053	10,876	6,712	2,053	585	914	226	443	497	95,276	
Lodgepole pine	15,963	2,955	3,185	862	-1,756	--	--	--	--	--	--	21,209	
Whitebark pine	379	252	105	112	25	19	--	--	--	--	--	892	
Limber pine	178	473	234	172	179	60	2	--	25	45	15	1,383	
Subalpine fir	18,446	2,540	-2,063	324	-2,113	142	255	--	--	--	--	17,531	
White fir	4,847	325	372	703	87	316	183	88	--	251	22	7,194	
Engelmann spruce	14,940	11,230	6,440	3,662	1,996	1,634	1,336	2,004	1,471	714	366	45,793	
Total softwoods	110,643	44,364	32,000	20,962	7,415	5,180	2,604	3,375	2,042	1,490	1,069	231,144	
Aspen	XXXX	79,700	4,614	-862	594	22	122	--	--	--	--	84,190	
Cottonwood	XXXX	8,356	284	1,024	214	674	137	-1,041	--	--	760	10,408	
Total hardwoods	XXXX	88,056	4,898	162	808	696	259	-1,041	--	--	760	94,598	
All species	110,643	132,420	36,898	21,124	8,223	5,876	2,863	2,334	2,042	1,490	1,829	325,742	

Table 35--Annual mortality of growing stock on State and privately owned timberland by ownership class and species, Colorado, 1982

Species	Ownership class		
	State	Nonindustrial private	Total
- - - - - Thousand cubic feet - - - - -			
Douglas-fir	48	1,144	1,192
Ponderosa pine	37	929	966
Lodgepole pine	206	1,402	1,608
Subalpine fir	128	1,174	1,302
White fir	119	1,037	1,156
Engelmann spruce	22	1,100	1,122
Total softwoods	560	6,786	7,346
Aspen	429	8,722	9,151
Cottonwood	--	263	263
Total hardwoods	429	8,985	9,414
All species	989	15,771	16,760

Table 36--Annual mortality of sawtimber (International 4-inch rule) on State and privately owned timberland by ownership class and species, Colorado, 1982

Species	Ownership class		
	State	Nonindustrial private	Total
- - - Thousand board feet, International 4-inch rule - - -			
Douglas-fir	104	3,597	3,701
Ponderosa pine	146	2,677	2,823
Lodgepole pine	759	6,162	6,921
Subalpine fir	597	5,457	6,054
White fir	382	3,288	3,670
Engelmann spruce	92	5,131	5,223
Total softwoods	2,080	26,312	28,392
Aspen	391	9,516	9,907
Cottonwood	--	1,175	1,175
Total hardwoods	391	10,691	11,082
All species	2,471	37,003	39,474

Table 37--Annual mortality of sawtimber (Scribner rule) on State and privately owned timberland by ownership class and species, Colorado, 1982

Species	Ownership class		
	State	Nonindustrial private	Total
- - - - - Thousand board feet, Scribner rule - - - - -			
Douglas-fir	90	3,101	3,191
Ponderosa pine	126	2,322	2,448
Lodgepole pine	647	5,243	5,890
Subalpine fir	487	4,419	4,906
White fir	333	2,871	3,204
Engelmann spruce	79	4,325	4,404
Total softwoods	1,762	22,281	24,043
Aspen	330	8,038	8,368
Cottonwood	--	1,040	1,040
Total hardwoods	330	9,078	9,408
All species	2,092	31,359	33,451

Table 38--Annual mortality of growing stock on State and privately owned timberland by species and diameter class, Colorado, 1982

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	--	244	543	71	--	--	--	150	184	--	--	--	--	--	1,192
Ponderosa pine	84	202	252	178	--	250	--	--	--	--	--	--	--	--	966
Lodgepole pine	--	134	112	854	--	--	508	--	--	--	--	--	--	--	1,608
Subalpine fir	--	94	--	--	617	--	591	--	--	--	--	--	--	--	1,302
White fir	177	73	479	246	181	--	--	--	--	--	--	--	--	--	1,156
Engelmann spruce	68	--	--	380	190	157	327	--	--	--	--	--	--	--	1,122
Total softwoods	329	747	1,386	1,729	988	407	1,426	150	184	--	--	--	--	--	7,346
Aspen	2,913	1,954	2,278	1,066	290	650	--	--	--	--	--	--	--	--	9,151
Cottonwood	--	--	--	--	--	--	--	--	--	263	--	--	--	--	263
Total hardwoods	2,913	1,954	2,278	1,066	290	650	--	--	--	263	--	--	--	--	9,414
All species	3,242	2,701	3,664	2,795	1,278	1,057	1,426	150	184	263	--	--	--	--	16,760

Table 39--Annual mortality of sawtimber (International 4-inch rule) on State and privately owned timberland by species and diameter class, Colorado, 1982

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 4-inch rule -----													
Douglas-fir	1,627	271	--	--	--	806	997	--	--	--	--	--	3,701
Ponderosa pine	754	791	--	1,278	--	--	--	--	--	--	--	--	2,823
Lodgepole pine	336	3,956	--	--	2,629	--	--	--	--	--	--	--	6,921
Subalpine fir	--	--	3,079	--	2,975	--	--	--	--	--	--	--	6,054
White fir	1,788	1,102	780	--	--	--	--	--	--	--	--	--	3,670
Engelmann spruce	--	1,809	935	767	1,712	--	--	--	--	--	--	--	5,223
Total softwoods	4,505	7,929	4,794	2,045	7,316	806	997	--	--	--	--	--	28,392
Aspen	XXXX	5,196	1,532	3,179	--	--	--	--	--	--	--	--	9,907
Cottonwood	XXXX	--	--	--	--	--	--	1,175	--	--	--	--	1,175
Total hardwoods	XXXX	5,196	1,532	3,179	--	--	--	1,175	--	--	--	--	11,082
All species	4,505	13,125	6,326	5,224	7,316	806	997	1,175	--	--	--	--	39,474

Table 40--Annual mortality of sawtimber (Scribner rule) on State and privately owned timberland by species and diameter class, Colorado, 1982

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, Scribner rule -----													
Douglas-fir	1,448	242	--	--	--	647	854	--	--	--	--	--	3,191
Ponderosa pine	671	664	--	1,113	--	--	--	--	--	--	--	--	2,448
Lodgepole pine	295	3,350	--	--	2,245	--	--	--	--	--	--	--	5,890
Subalpine fir	--	--	2,516	--	2,390	--	--	--	--	--	--	--	4,906
White fir	1,591	945	668	--	--	--	--	--	--	--	--	--	3,204
Engelmann spruce	--	1,515	768	628	1,493	--	--	--	--	--	--	--	4,404
Total softwoods	4,005	6,716	3,952	1,741	6,128	647	854	--	--	--	--	--	24,043

Aspen	XXXXX	4,408	1,292	2,668	--	--	--	--	--	--	--	--	8,368
Cottonwood	XXXXX	--	--	--	--	--	--	1,040	--	--	--	--	1,040
Total hardwoods	XXXXX	4,408	1,292	2,668	--	--	--	1,040	--	--	--	--	9,408

All species	4,005	11,124	5,244	4,409	6,128	647	854	1,040	--	--	--	--	33,451

Table 41--Annual mortality of growing stock on State and privately owned timberland by cause of death and species, Colorado, 1982

Species	Cause of death							Total
	Insects	Disease	Fire	Animal	Weather	Suppression	Logging	
	- - - - - Thousand cubic feet - - - - -							- - - - -
Douglas-fir	--	133	--	--	1,059	--	--	1,192
Ponderosa pine	492	252	--	--	178	--	--	966
Lodgepole pine	--	598	--	209	349	--	--	1,608
Subalpine fir	886	322	--	--	--	94	--	1,302
White fir	551	--	--	--	308	58	58	1,156
Engelmann spruce	--	158	--	--	--	--	--	1,122
Total softwoods	1,929	1,463	--	209	1,894	152	58	7,346
Aspen	--	3,015	76	248	341	--	--	9,151
Cottonwood	--	--	--	--	--	--	--	263
Total hardwoods	--	3,015	76	248	341	--	--	9,414
All species	1,929	4,478	76	457	2,235	152	58	16,760

¹Because many destructive agents often attack trees in concert or in succession, it is often difficult to identify the actual causal agent. When the primary cause of death cannot be precisely determined, it is listed as unknown.

Table 42--Annual mortality of sawtimber (International 4-inch rule) on State and privately owned timberland by cause of death and species, Colorado, 1982

Species	Cause of death							
	Insects	Disease	Fire	Animal	Weather	Suppression	Logging	Unknown ¹
	Thousand board feet, International 4-inch rule							
Douglas-fir	--	271	--	--	3,430	--	--	--
Ponderosa pine	1,279	753	--	--	791	--	--	--
Lodgepole pine	--	1,938	--	844	1,807	--	--	2,332
Subalpine fir	4,431	1,623	--	--	--	--	--	--
White fir	1,787	--	--	--	1,103	--	--	780
Engelmann spruce	--	767	--	--	--	--	--	4,456
Total softwoods	7,497	5,352	--	844	7,131	--	--	7,568
Aspen	--	839	--	--	438	--	--	8,630
Cottonwood	--	--	--	--	--	--	--	1,175
Total hardwoods	--	839	--	--	438	--	--	9,805
All species	7,497	6,191	--	844	7,569	--	--	17,373
								39,474

¹Because many destructive agents often attack trees in concert or in succession, it is often difficult to identify the actual causal agent. When the primary cause of death cannot be precisely determined, it is listed as unknown.

Table 43--Annual mortality of sawtimber (Scribner rule) on State and privately owned timberland by cause of death and species, Colorado, 1982

Species	Cause of death							
	Insects	Disease	Fire	Animal	Weather	Suppression	Logging	Unknown ¹
	-----	-----	-----	-----	-----	-----	-----	-----
Douglas-fir	--	242	--	--	2,949	--	--	--
Ponderosa pine	1,113	671	--	--	664	--	--	--
Lodgepole pine	--	1,664	--	722	1,544	--	--	1,960
Subalpine fir	3,581	1,325	--	--	--	--	--	--
White fir	1,591	--	--	--	945	--	--	668
Engelmann spruce	--	627	--	--	--	--	--	3,777
Total softwoods	6,285	4,529	--	722	6,102	--	--	6,405
Aspen	--	718	--	--	367	--	--	7,283
Cottonwood	--	--	--	--	--	--	--	1,040
Total hardwoods	--	718	--	--	367	--	--	8,323
All species	6,285	5,247	--	722	6,469	--	--	14,728
								33,451

¹Because many destructive agents often attack trees in concert or in succession, it is often difficult to identify the actual causal agent. When the primary cause of death cannot be precisely determined, it is listed as unknown.

COUNTY TABLES

Table 44--Area of State and privately owned timberland by county and ownership class, Colorado, 1983

County	Ownership class		Total
	State	Nonindustrial private	
- - - - - Thousand acres - - - - -			
Alamosa	0.2	6.4	6.6
Archuleta	1.9	154.2	156.1
Boulder	0.7	88.7	89.4
Chaffee	3.2	32.9	36.1
Clear Creek	4.3	38.8	43.1
Conejos	12.1	18.6	30.7
Costilla	--	189.3	189.3
Custer	3.3	76.7	80.0
Delta	0.4	25.6	26.0
Dolores	3.0	29.7	32.7
Douglas	0.4	54.0	54.4
Eagle	2.3	51.9	54.2
Elbert	2.6	46.5	49.1
El Paso	3.8	80.6	84.4
Fremont	10.5	75.6	86.1
Garfield	--	135.6	135.6
Gilpin	0.5	31.5	32.0
Grand	15.8	98.8	114.6
Gunnison	3.8	115.0	118.8
Hinsdale	0.7	13.1	13.8
Huerfano	5.5	100.6	106.1
Jackson	62.9	58.4	121.3
Jefferson	1.9	143.9	145.8
Lake	0.1	24.9	25.0
La Plata	5.6	103.6	109.2
Larimer	17.2	217.0	234.2
Las Animas	15.7	368.0	383.7
Mesa	0.8	65.7	66.5
Mineral	0.4	13.2	13.6
Moffat	4.2	34.8	39.0
Montezuma	0.6	30.1	30.7
Montrose	1.0	37.3	38.3
Ouray	0.3	52.4	52.7
Park	9.0	153.6	162.6
Pitkin	0.1	27.2	27.3
Pueblo	4.6	62.5	67.1
Rio Blanco	8.6	53.3	61.9
Rio Grande	0.2	15.0	15.2
Routt	13.5	186.6	200.1
Saguache	2.9	45.0	47.9
San Juan	0.2	7.3	7.5
San Miguel	1.4	61.0	62.4
Summit	(¹)	33.0	33.0
Teller	9.0	107.3	116.3
All counties	235.2	3,365.2	3,600.4

¹Less than 0.05 thousand acres.

Table 45--Net volume of growing stock on State and privately owned timberland by county and ownership class, Colorado, 1983

County	Ownership class		Total
	State	Nonindustrial private	
- - - - - Million cubic feet - - - - -			
Alamosa	0.2	3.8	4.0
Archuleta	2.9	212.8	215.7
Boulder	0.8	98.2	99.0
Chaffee	4.1	38.4	42.5
Clear Creek	5.1	39.2	44.3
Conejos	26.8	28.3	55.1
Costilla	--	309.4	309.4
Custer	3.8	87.7	91.5
Delta	0.4	33.2	33.6
Dolores	4.3	41.0	45.3
Douglas	0.5	42.9	43.4
Eagle	3.9	100.3	104.2
Elbert	2.0	34.3	36.3
El Paso	2.2	67.5	69.7
Fremont	10.4	66.4	76.8
Garfield	--	187.9	187.9
Gilpin	0.3	31.8	32.1
Grand	25.7	168.9	194.6
Gunnison	7.1	223.1	230.2
Hinsdale	1.5	26.1	27.6
Huerfano	5.7	103.3	109.0
Jackson	113.6	98.1	211.7
Jefferson	1.8	134.3	136.1
Lake	0.1	33.8	33.9
La Plata	8.1	142.9	151.0
Larimer	15.9	208.3	224.2
Las Animas	12.9	360.0	372.9
Mesa	1.2	82.7	83.9
Mineral	1.1	27.8	28.9
Moffat	5.3	40.8	46.1
Montezuma	0.9	39.0	39.9
Montrose	1.3	49.5	50.8
Ouray	0.3	74.1	74.4
Park	7.8	135.1	142.9
Pitkin	(¹)	54.0	54.0
Pueblo	2.5	51.8	54.3
Rio Blanco	12.2	68.5	80.7
Rio Grande	0.2	23.0	23.2
Routt	19.4	284.1	303.5
Saguache	4.3	68.3	72.6
San Juan	0.4	16.1	16.5
San Miguel	1.9	85.6	87.5
Summit	(¹)	57.2	57.2
Teller	7.9	93.8	101.7
All counties	326.8	4,173.3	4,500.1

¹Less than 0.05 million cubic feet.

Table 46--Net volume of sawtimber (International $\frac{1}{4}$ -inch rule) on State and privately owned timberland by county and ownership class, Colorado, 1983

County	Ownership class		Total
	State	Nonindustrial private	
- - - Million board feet, International ¼-inch rule - - -			
Alamosa	0.6	10.4	11.0
Archuleta	9.9	862.3	872.2
Boulder	2.3	296.8	299.1
Chaffee	13.4	118.4	131.8
Clear Creek	15.6	112.4	128.0
Conejos	68.7	84.4	153.1
Costilla	--	892.2	892.2
Custer	12.1	274.8	286.9
Delta	1.4	101.8	103.2
Dolores	13.6	123.6	137.2
Douglas	1.5	141.6	143.1
Eagle	8.5	232.3	240.8
Elbert	6.8	117.2	124.0
El Paso	7.0	223.6	230.6
Fremont	28.5	185.7	214.2
Garfield	--	631.1	631.1
Gilpin	0.8	92.0	92.8
Grand	59.9	441.1	501.0
Gunnison	19.2	532.2	551.4
Hinsdale	4.6	79.3	83.9
Huerfano	17.3	318.4	335.7
Jackson	303.2	226.4	529.6
Jefferson	6.6	462.3	468.9
Lake	0.3	81.0	81.3
La Plata	35.6	608.6	644.2
Larimer	47.8	624.0	671.8
Las Animas	41.9	1,142.5	1,184.4
Mesa	4.3	242.0	246.3
Mineral	3.2	76.2	79.4
Moffat	17.0	114.9	131.9
Montezuma	3.7	144.5	148.2
Montrose	4.6	151.9	156.5
Ouray	0.8	260.0	260.8
Park	21.6	370.9	392.5
Pitkin	(¹)	124.6	124.6
Pueblo	9.5	163.5	173.0
Rio Blanco	43.1	211.6	254.7
Rio Grande	0.6	67.7	68.3
Routt	42.1	606.7	648.8
Saguache	12.9	184.4	197.3
San Juan	0.6	47.5	48.1
San Miguel	6.6	277.9	284.5
Summit	(¹)	147.1	147.1
Teller	28.8	322.9	351.7
All counties	926.5	12,530.7	13,457.2

¹Less than 0.05 million board feet.

Table 47--Net volume of sawtimber (Scribner rule) on State and privately owned timberland by county and ownership class, Colorado, 1983

County	Ownership class		Total
	State	Nonindustrial private	
- - - - - Million board feet, Scribner rule - - - - -			
Alamosa	0.5	8.9	9.4
Archuleta	8.4	740.9	749.3
Boulder	1.9	249.5	251.4
Chaffee	11.3	100.0	111.3
Clear Creek	13.1	94.5	107.6
Conejos	58.2	71.8	130.0
Costilla	--	756.9	756.9
Custer	10.2	232.2	242.4
Delta	1.2	86.7	87.9
Dolores	11.6	105.7	117.3
Douglas	1.3	120.0	121.3
Eagle	7.3	196.8	204.1
Elbert	5.8	99.1	104.9
El Paso	5.9	189.7	195.6
Fremont	24.2	157.6	181.8
Garfield	--	539.3	539.3
Gilpin	0.7	77.4	78.1
Grand	51.0	375.4	426.4
Gunnison	16.2	451.0	467.2
Hinsdale	3.9	67.1	71.0
Huerfano	14.6	269.1	283.7
Jackson	258.1	192.6	450.7
Jefferson	5.6	392.6	398.2
Lake	0.3	69.2	69.5
La Plata	30.6	524.3	554.9
Larimer	40.1	524.0	564.1
Las Animas	35.3	963.1	998.4
Mesa	3.7	205.5	209.2
Mineral	2.7	64.6	67.3
Moffat	14.4	97.7	112.1
Montezuma	3.2	124.0	127.2
Montrose	3.9	129.3	133.2
Ouray	0.7	222.5	223.2
Park	18.1	310.1	328.2
Pitkin	(1)	105.8	105.8
Pueblo	8.1	138.6	146.7
Rio Blanco	36.7	180.4	217.1
Rio Grande	0.5	57.6	58.1
Routt	35.8	516.4	552.2
Saguache	10.9	156.3	167.2
San Juan	0.5	40.3	40.8
San Miguel	5.7	237.2	242.9
Summit	(1)	125.2	125.2
Teller	24.4	273.9	298.3
All counties	786.6	10,640.8	11,427.4

¹Less than 0.05 million board feet.

Table 48--Net annual growth of growing stock on State and privately owned timberland by county and ownership class, Colorado, 1982

County	Ownership class		Total
	State	Nonindustrial private	
- - - - - Thousand cubic feet - - - - -			
Alamosa	2	63	65
Archuleta	52	4,112	4,164
Boulder	21	2,327	2,348
Chaffee	73	778	851
Clear Creek	114	1,044	1,158
Conejos	451	417	868
Costilla	--	6,504	6,504
Custer	74	1,680	1,754
Delta	12	518	530
Dolores	59	535	594
Douglas	9	1,004	1,013
Eagle	76	1,936	2,012
Elbert	41	754	795
El Paso	51	1,553	1,604
Fremont	186	1,307	1,493
Garfield	--	3,265	3,265
Gilpin	11	838	849
Grand	574	3,335	3,909
Gunnison	132	4,282	4,414
Hinsdale	24	421	445
Huerfano	141	2,315	2,456
Jackson	2,110	2,070	4,180
Jefferson	37	2,996	3,033
Lake	3	744	747
La Plata	170	2,780	2,950
Larimer	402	5,176	5,578
Las Animas	193	5,875	6,068
Mesa	28	1,352	1,380
Mineral	15	464	479
Moffat	83	607	690
Montezuma	18	678	696
Montrose	22	740	762
Ouray	3	1,259	1,262
Park	163	2,868	3,031
Pitkin	(¹)	978	978
Pueblo	42	1,050	1,092
Rio Blanco	256	1,074	1,330
Rio Grande	4	354	358
Routt	451	6,499	6,950
Saguache	86	1,314	1,400
San Juan	7	244	251
San Miguel	32	1,315	1,347
Summit	(¹)	1,115	1,115
Teller	162	2,042	2,204
All counties	6,390	82,582	88,972

¹Less than 0.5 thousand cubic feet.

Table 49--Net annual growth of sawtimber (International $\frac{1}{4}$ -inch rule) on State and privately owned timberland by county and ownership class, Colorado, 1982

County	Ownership class		
	State	Nonindustrial private	Total
- - - Thousand board feet, International $\frac{1}{4}$ -inch rule - - -			
Alamosa	7	143	150
Archuleta	234	19,478	19,712
Boulder	45	6,801	6,846
Chaffee	544	4,572	5,116
Clear Creek	320	2,809	3,129
Conejos	1,556	1,348	2,904
Costilla	--	18,209	18,209
Custer	362	9,611	9,973
Delta	134	4,398	4,532
Dolores	478	5,306	5,784
Douglas	51	4,964	5,015
Eagle	293	5,293	5,586
Elbert	252	4,466	4,718
El Paso	360	8,207	8,567
Fremont	282	2,087	2,369
Garfield	--	22,408	22,408
Gilpin	29	2,222	2,251
Grand	2,111	15,422	17,533
Gunnison	412	13,541	13,953
Hinsdale	82	1,471	1,553
Huerfano	630	11,743	12,373
Jackson	10,774	7,804	18,578
Jefferson	215	15,864	16,079
Lake	13	3,297	3,310
La Plata	910	14,277	15,187
Larimer	1,199	15,757	16,956
Las Animas	579	15,860	16,439
Mesa	99	10,712	10,811
Mineral	50	1,406	1,456
Moffat	472	4,091	4,563
Montezuma	82	4,004	4,086
Montrose	141	5,592	5,733
Ouray	51	7,934	7,985
Park	687	12,106	12,793
Pitkin	(¹)	3,632	3,632
Pueblo	274	5,710	5,984
Rio Blanco	1,121	6,647	7,768
Rio Grande	16	1,101	1,117
Routt	1,732	23,040	24,772
Saguache	320	4,192	4,512
San Juan	35	864	899
San Miguel	163	9,226	9,389
Summit	(¹)	6,618	6,618
Teller	1,001	11,476	12,477
All counties	28,116	355,709	383,825

¹Less than 0.5 thousand board feet.

Table 50--Net annual growth of sawtimber (Scribner rule) on State and privately owned timberland by county and ownership class, Colorado, 1982

County	Ownership class		
	State	Nonindustrial private	Total
- - - - - Thousand board feet, Scribner rule - - - - -			
Alamosa	6	126	132
Archuleta	204	17,108	17,312
Boulder	38	5,628	5,666
Chaffee	451	3,802	4,253
Clear Creek	263	2,318	2,581
Conejos	1,322	1,148	2,470
Costilla	--	15,179	15,179
Custer	303	8,037	8,340
Delta	109	3,756	3,865
Dolores	416	4,596	5,012
Douglas	39	4,120	4,159
Eagle	250	4,512	4,762
Elbert	201	3,612	3,813
El Paso	287	6,756	7,043
Fremont	232	1,749	1,981
Garfield	--	19,336	19,336
Gilpin	23	1,824	1,847
Grand	1,814	13,256	15,070
Gunnison	352	11,538	11,890
Hinsdale	70	1,243	1,313
Huerfano	512	9,602	10,114
Jackson	9,256	6,705	15,961
Jefferson	176	13,205	13,381
Lake	12	2,893	2,905
La Plata	789	12,499	13,288
Larimer	966	12,810	13,776
Las Animas	504	13,603	14,107
Mesa	86	9,123	9,209
Mineral	42	1,185	1,227
Moffat	410	3,493	3,903
Montezuma	72	3,479	3,551
Montrose	123	4,793	4,916
Ouray	44	6,868	6,912
Park	564	10,015	10,579
Pitkin	(¹)	3,095	3,095
Pueblo	221	4,713	4,934
Rio Blanco	975	5,756	6,731
Rio Grande	14	941	955
Routt	1,492	19,799	21,291
Saguache	271	3,573	3,844
San Juan	29	726	755
San Miguel	142	8,015	8,157
Summit	(¹)	5,715	5,715
Teller	822	9,590	10,412
All counties	23,902	301,840	325,742

¹Less than 0.5 thousand board feet.

Table 51--Annual mortality of growing stock on State and privately owned timberland by county and ownership class, Colorado, 1982

County	Ownership class		Total
	State	Nonindustrial private	
- - - - - Thousand cubic feet - - - - -			
Alamosa	1	33	34
Archuleta	18	781	799
Boulder	1	147	148
Chaffee	12	110	122
Clear Creek	7	54	61
Conejos	125	117	242
Costilla	--	1,875	1,875
Custer	13	339	352
Delta	--	273	273
Dolores	37	378	415
Douglas	--	29	29
Eagle	22	614	636
Elbert	1	21	22
El Paso	1	51	52
Fremont	68	411	479
Garfield	--	1,219	1,219
Gilpin	(¹)	43	43
Grand	54	401	455
Gunnison	40	1,272	1,312
Hinsdale	8	105	113
Huerfano	16	288	304
Jackson	281	222	503
Jefferson	1	133	134
Lake	(¹)	4	4
La Plata	7	332	339
Larimer	18	251	269
Las Animas	23	637	660
Mesa	4	706	710
Mineral	5	122	127
Moffat	40	385	425
Montezuma	2	230	232
Montrose	7	434	441
Ouray	4	453	457
Park	16	285	301
Pitkin	(¹)	281	281
Pueblo	14	196	210
Rio Blanco	58	550	608
Rio Grande	1	107	108
Routt	44	587	631
Saguache	20	388	408
San Juan	2	56	58
San Miguel	15	660	675
Summit	(¹)	120	120
Teller	3	71	74
All counties	989	15,771	16,760

¹Less than 0.5 thousand cubic feet.

Table 52--Annual mortality of sawtimber (International $\frac{1}{4}$ -inch rule) on State and privately owned timberland by county and ownership class, Colorado, 1982

County	Ownership class		Total
	State	Nonindustrial private	
- - - Thousand board feet, International ¼-inch rule - - -			
Alamosa	3	47	50
Archuleta	33	1,634	1,667
Boulder	6	544	550
Chaffee	33	304	337
Clear Creek	29	193	222
Conejos	387	405	792
Costilla	--	6,952	6,952
Custer	30	859	889
Delta	--	314	314
Dolores	38	425	463
Douglas	--	80	80
Eagle	41	1,836	1,877
Elbert	6	95	101
El Paso	2	175	177
Fremont	261	1,626	1,887
Garfield	--	1,529	1,529
Gilpin	--	155	155
Grand	125	1,106	1,231
Gunnison	109	3,443	3,552
Hinsdale	23	342	365
Huerfano	44	759	803
Jackson	805	459	1,264
Jefferson	5	433	438
Lake	--	8	8
La Plata	27	954	981
Larimer	57	784	841
Las Animas	57	1,756	1,813
Mesa	--	631	631
Mineral	17	442	459
Moffat	47	474	521
Montezuma	4	441	445
Montrose	14	607	621
Ouray	4	722	726
Park	45	774	819
Pitkin	--	679	679
Pueblo	13	393	406
Rio Blanco	38	664	702
Rio Grande	--	345	345
Routt	76	1,097	1,173
Saguache	38	932	970
San Juan	3	214	217
San Miguel	37	799	836
Summit	--	334	334
Teller	14	238	252
All counties	2,471	37,003	39,474

Table 53--Annual mortality of sawtimber (Scribner rule) on State and privately owned timberland by county and ownership class, Colorado, 1982

County	Ownership class		Total
	State	Nonindustrial private	
- - - - - Thousand board feet, Scribner rule - - - - -			
Alamosa	2	39	41
Archuleta	27	1,383	1,410
Boulder	5	475	480
Chaffee	29	266	295
Clear Creek	26	168	194
Conejos	327	342	669
Costilla	--	5,887	5,887
Custer	26	754	780
Delta	--	260	260
Dolores	32	352	384
Douglas	--	65	65
Eagle	35	1,543	1,578
Elbert	5	76	81
El Paso	1	145	146
Fremont	225	1,406	1,631
Garfield	--	1,257	1,257
Gilpin	--	135	135
Grand	106	930	1,036
Gunnison	92	2,903	2,995
Hinsdale	19	290	309
Huerfano	39	667	706
Jackson	677	386	1,063
Jefferson	4	357	361
Lake	--	8	8
La Plata	22	797	819
Larimer	50	685	735
Las Animas	51	1,563	1,614
Mesa	--	527	527
Mineral	14	372	386
Moffat	39	395	434
Montezuma	3	371	374
Montrose	11	506	517
Ouray	3	596	599
Park	38	651	689
Pitkin	--	575	575
Pueblo	11	343	354
Rio Blanco	31	552	583
Rio Grande	--	291	291
Routt	65	933	998
Saguache	33	786	819
San Juan	2	181	183
San Miguel	31	663	694
Summit	--	284	284
Teller	11	194	205
All counties	2,092	31,359	33,451

Green, Alan W.; Conner, Roger C. 1987. Colorado's State and private timber resources, 1983. Resour. Bull. INT-49. Ogden, UT: U.S. Department of Agriculture, Forest Service, Intermountain Research Station. 59 p.

Reports highlights of the comprehensive survey of Colorado's State and private timberland. Presents statistics on area, volume, growth, and mortality. Also describes forest types, volumes per acre, stocking, ownership, and harvest levels.

KEYWORDS: forest survey, timberland, inventory volume, harvest

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