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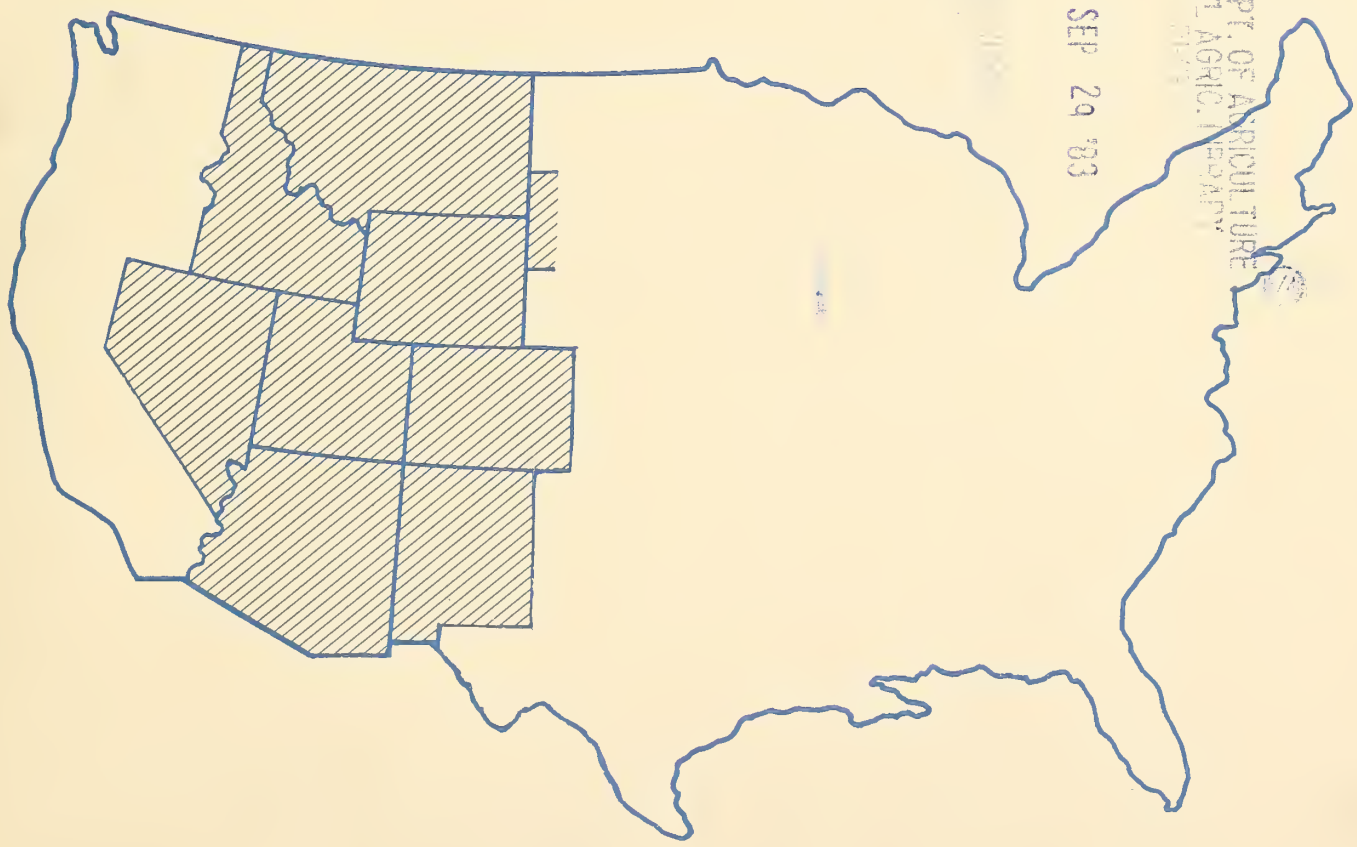
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Forest Resources of the Rocky Mountain States

Full

Alan W. Green
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PREFACE

Forest Survey is a continuing nationwide undertaking conducted by the USDA Forest Service with the primary objective of providing an assessment of the renewable resources on the Nation's forest and range lands. This requires 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 resource inventories for the Rocky Mountain States of Arizona, Colorado, Idaho, Montana, New Mexico, Nevada, Utah, Wyoming, and western South Dakota are conducted by the Intermountain Forest and Range Experiment Station, with headquarters in Ogden, Utah. These inventories provide information on the extent and condition of State and privately owned forest lands, volume of timber, and rates of timber growth and mortality. These data, when combined with similar information for Federal lands, provide a basis for the formulation of forest policies and programs and for the orderly development and use of the resources.



RESEARCH SUMMARY

Presents highlights of the forest resources of the Rocky Mountain States as of 1977. Describes the forest resources, their extent and location, and some considerations for their future use and management. Includes statistical tables: area by land classes, ownership, growing stock volumes, net annual growth, mortality, roundwood products output, and logging residues.

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Forest Resources of the Rocky Mountain States

Alan W. Green
Dwane D. Van Hooser

TODAY'S FOREST

The forest cover in the Rocky Mountain States is as varied as the landscape it helps create. The extent of occurrence of major species making up western forests is a function of the habitat conditions. From the lower timberline in the hot and dry environment above the desert floor, to the cold and wet environment at the upper timberline in the high country, various tree species may grow in pure stands or in mixtures.

Major Forest Types

Five forest types make up 82 percent of the forest area.

The five largest forest types in the Rocky Mountains total some 113 million acres and are, in order of area, pinyon-juniper, ponderosa pine, Douglas-fir, lodgepole pine, and fir-spruce. Together, these softwood (coniferous) types account for roughly 82 percent of the forest area. The major hardwood (deciduous) type is aspen.

Pinyon-juniper.—This woodland type occupies over 42 million acres, principally in the arid regions of Arizona, New Mexico, western Colorado, Utah, and Nevada. It is the predominant forest in Arizona, New Mexico, Utah, and Nevada. Occupying an altitudinal zone below ponderosa pine and above the semidesert shrub (chaparral), it is a rather uniform type with few tree species. The principal species are alligator, Utah, western, one-seeded juniper and pinyon, and singleleaf pinyon pine. However, composition changes geographically and can vary from pure pinyon pine to pure juniper. Nearly all the pinyon pine in Nevada is singleleaf pinyon.

Nearly a third is P-J.



Ponderosa pine is found in all states...

in pure stands...

and with other conifers.

Ponderosa pine.—The ponderosa pine type occurs in all the Rocky Mountain States, occupying an area of almost 19 million acres, nearly half of it in Arizona and New Mexico. Found primarily in the arid transition zone, it is the first forest type of importance for wood fiber production above the desert floor in the Southwest. It often consists of pure stands of ponderosa pine, especially in Arizona, New Mexico, and the Black Hills of South Dakota. In Idaho and Montana there is a greater association with Douglas-fir, larch, and other species requiring more moisture. On the southern-facing slopes and drier sites, ponderosa pine will predominate, while on northern slopes and more moist areas, greater numbers of associated species are the rule. Toward the upper limit of the type, the true firs and Douglas-fir usually form an understory that does not allow ponderosa pine to replace itself.



Douglas-fir.—This type occupies the area immediately above the ponderosa pine zone and below the fir-spruce type. This puts it in the elevational zone of between 8,000 and 9,500 feet in the South and 2,000 to 7,000 feet in the North. Over 12 million of the total 17.8 million acres of this type are in Idaho and Montana.

Douglas-fir is at higher elevations.



Pure stands of Douglas-fir are found in southern Idaho, central and eastern Montana, northern Colorado, Wyoming, and Utah, wherever it has developed as a climax forest. In Montana and northern Idaho, grand fir, Engelmann spruce, and western larch are common associates in the type and frequently are the dominant species.

Lodgepole pine.—This major type in the West typically consists of pure or nearly pure, very dense stands of its namesake species. Stands having thousands of stems per acre are not uncommon. Of the nearly 17 million acres, about 60 percent is in Idaho and Montana. Most of the remaining is in western Wyoming and central Colorado.

Pure stands of lodgepole can be a headache to land managers when the bugs hit.



Seral lodgepole pine stands are frequently replaced through succession by other conifers such as Douglas-fir and subalpine fir. However, many pure stands of lodgepole pine take on the appearance of a climax type, the replacement by other species not happening at all or at least very slowly. Typical dense stands in this type have little diversity of understory flora.

Fir-spruce.—Nearly 16 million of the 17 million acres of the fir-spruce type are found in Idaho, Montana, Wyoming, Colorado, and Utah. It occupies areas at higher elevations where temperatures are cool and moisture abundant. Grand fir, subalpine fir, and Engelmann spruce are the major species. Some of the more common associates in the Northern Rocky Mountains are larch, aspen, lodgepole pine, and Douglas-fir. Mountain hemlock is found in association with whitebark pine, subalpine fir, and Engelmann spruce at higher altitudes, going to timberline.

These forests are the picture book favorites.



In Colorado, Wyoming, and Utah, this type is the uppermost forest cover, going to timberline. The mountain hemlock type is a local geographic variant of the fir-spruce type in northern Idaho and shares common associated species with the fir-spruce type.

Western white pine.—This seral type is centered on the midelevation sites of northern Idaho where the oceanic climatic influences are strongest. In it, there is a general mixture of western redcedar, western hemlock, grand fir, Douglas-fir, and western larch with ponderosa pine at lower and Engelmann spruce at higher elevations.

Larch.—This type occurs in Montana west of the Continental Divide, and in Idaho north of the Salmon River. Western larch, a deciduous conifer, is a seral or temporary species maintained by fire. In drier and warmer environments, associated species are ponderosa pine and Douglas-fir. On mesic (moist) sites, grand fir, western hemlock, western redcedar, and western white pine are commonly found with larch. In a cool environment at higher elevations, associated species are Engelmann spruce and subalpine fir.

Hemlock.—This is represented by both western and mountain hemlock as major species. Western hemlock is a major component at elevations up to 4,500 feet with western redcedar and grand fir as a major associate species. About 80 percent of this type is in Idaho.

Aspen.—This occupies about 7.1 million acres in the Rocky Mountain States, mostly in Utah and Colorado. Although it commonly occurs as pure stands, it also appears in association with one or more coniferous species. On most sites it is eventually replaced by more shade-tolerant forests such as spruce and fir.

White pine and larch forests are seral and geographically restricted.

Most of the hemlock ecosystem is in Idaho.

Aspen decorates over 7 million acres, mostly in Colorado and Utah.



Aspen differs from other species in that regeneration is almost entirely by root suckering. Stands are a mosaic of clones, each with genetically identical trees. Different clones can be recognized by bark color, ranging from white to dark olive.

People tend to look at aspen as a decorator species that, with its golden leaves, signals the coming of autumn. But it has considerable value for wildlife and wood. Mine props, excelsior, matches, and crating are among current uses.

How Much Forest?

In 1977 there were an estimated 138 million acres of forest land (about 25 percent of the total land area) in the Rocky Mountain States (table 1). This is about the same as reported in 1970. Nearly 58 million acres are classed as commercial timberland¹ suitable and available for timber-growing activities for the production of industrial wood:

Forests cover one-fourth of the Rocky Mountain States.

The area of productive and unproductive forest is nearly equal.

Land class	Area (Million acres)
Commercial timberland	57.5
All other forest land:	
Productive reserved	8.4
Deferred	3.2
Unproductive	<u>69.2</u>
Total	138.3

¹Commercial timberland is defined as forest land producing or capable of producing crops of industrial wood and not withdrawn from timber utilization. Areas qualifying must have the capability of producing in excess of 20 cubic feet per acre per year of industrial wood in natural stands. Currently included are inaccessible and inoperable areas.

Table 1.--Total land area in the Rocky Mountain States by major class of land and State, 1977

State	Commercial forest land			Noncommercial forest land			Total forest land area	Nonforest land area	Total land area ¹	
	Commercial	Productive deferred	Total	Productive reserved	Other forest reserved	Other forest nonreserved				Total
----- <i>Thousand acres</i> -----										
Northern Rocky Mountain States:										
North Idaho	7,716.9	498.2	8,215.1	856.2	369.0	830.2	2,055.4	10,270.5	2,236.5	12,507.0
South Idaho	5,823.7	437.1	6,260.8	1,056.8	242.2	3,896.3	5,195.3	11,456.1	28,928.0	40,384.1
Western Montana	9,396.1	367.1	9,763.2	1,163.5	624.2	1,010.7	2,798.4	12,561.6	3,321.1	15,882.7
Eastern Montana	4,963.3	341.6	5,304.9	838.3	750.4	3,104.1	4,692.8	9,997.7	67,168.0	77,165.7
Western South Dakota	1,244.1	0	1,244.1	11.1	1.3	110.8	123.2	1,367.3	5,504.1	6,871.4
Wyoming	4,334.2	331.3	4,665.5	2,688.6	292.0	2,382.2	5,362.8	10,028.3	52,044.7	62,073.0
Total	33,478.3	1,975.3	35,453.6	6,614.5	2,279.1	11,334.3	20,227.9	55,681.5	159,202.4	214,883.9
Southern Rocky Mountain States:										
Arizona	3,895.6	19.1	3,914.7	382.8	760.8	13,435.6	14,579.2	18,493.9	54,151.2	72,645.1
Colorado	11,314.7	752.2	12,066.9	684.0	321.0	9,199.1	10,204.1	22,271.0	44,029.7	66,300.7
Nevada	134.3	0	134.3	5.9	66.6	7,476.5	7,549.0	7,683.3	62,648.6	70,331.9
New Mexico	5,537.5	279.5	5,817.0	550.5	503.5	11,188.8	12,242.8	18,059.8	59,594.6	77,654.4
Utah	3,151.3	157.3	3,308.6	124.3	428.7	12,205.0	12,758.0	16,066.6	36,460.1	52,526.7
Total	24,033.4	1,208.1	25,241.5	1,747.5	2,080.6	53,505.0	57,333.1	82,574.6	256,884.2	339,458.8
Total, all Rocky Mountain States	57,511.7	3,183.4	60,695.1	8,362.0	4,359.7	64,839.3	77,561.0	138,256.1	416,086.6	554,342.7

¹From U.S. Bureau of the Census, land and water area of the United States, 1980.

The forest area is still slowly declining.

Trends.—The general downward trend in total forest area is continuing, even though the 1977 estimate of forest land area was the same as that reported in 1970. Changes of several thousands of acres become obscured when rounded to millions of acres.

New inventories...

During the time the 1977 estimates were being developed, 1,153 roadless areas on National Forests with wilderness potential were being studied under the second Roadless Area Review and Evaluation (RARE II) process. The Congress has been acting on the recommended areas in piecemeal fashion. Some areas have been legislated into the wilderness system, and some of these are being contested in the courts. Legislation is pending on many other areas. In addition, data from recent inventories in several States are not yet available for inclusion in this report. Successively reported forest area figures are mostly useful for identifying trends over some extended period.

and changes in land use continually change the numbers reported.

Use trends have changed in the last 150 years...

Outlook.—Tracing historical trends in forest area in the Rocky Mountains is difficult. Much forest land was cleared of trees for early settlement, and in many cases, forests were exploited for such things as rail ties, mine timbers, and charcoal for ore reduction. Most of the areas cleared for these uses have reverted to forest.

and will in the future.

The prospects are for a relatively stable acreage of forest land. Although some decline in area can be expected from such activities as water development projects and conversion to range, these reductions should be minor and generally will take place on the lower productivity forest lands. In parts of Idaho, Montana, and Colorado the subdivision of forest land into parcels for home sites has changed the ownership pattern in some highly productive forested valleys. To date, there is no good indication of the total commercial timberland areas that will fall from the timber-growing base in favor of wilderness. The best guess is that more of the areas recommended will be included in the system.

The commercial timber base is projected to drop another 4.5 million acres.

The downward trend in forest land area is expected to continue, but the extent of it cannot be accurately predicted. Clearing for roads, urban development, power transmission rights-of-way, and surface mining will continue. The area of commercial timberland is projected to decrease to about 53 million acres by the year 2030 (table 2).

Table 2.--Area of commercial timberland in the Rocky Mountain States by owner class, 1952, 1962, 1970, and 1977, with base level projections to 2030

Owner class	Projections								
	1952	1962	1970	1977	1990	2000	2010	2020	2030
----- Million acres -----									
National Forest	41.9	42.5	40.3	36.4	35.2	34.7	34.2	33.8	33.5
Other public	7.2	7.2	7.2	6.6	6.7	6.7	6.7	6.7	6.6
Private	14.8	14.7	14.6	14.5	14.3	13.8	13.2	13.1	12.9
All owners	63.9	64.4	62.1	57.5	56.2	55.2	54.1	53.6	53.0

The Owners

National Forest Systems have 63 percent of the total forest... and 85 percent of the public commercial timberland.

The ownership pattern for forest land in the Rocky Mountain States is the same as in the past: three-fourths of it is publicly owned, and the USDA Forest Service takes care of more of it than anyone else. The 36.4 million acres of the National Forest System constitutes 85 percent of all publicly administered commercial timberland and 63 percent of the total. More than half the National Forest system is in the northern States, most of it in Montana and Idaho (tables 3 and 4).

ALL FOREST LAND

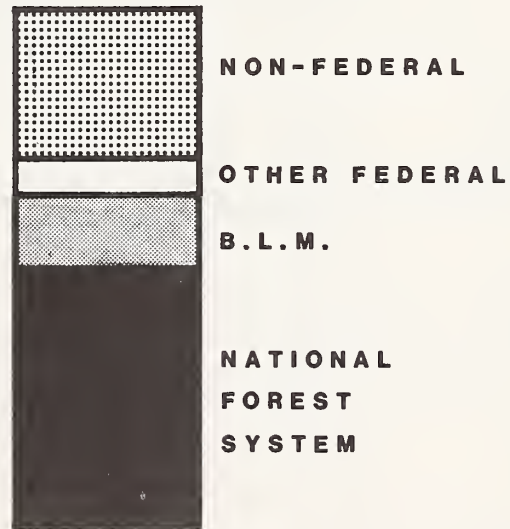


Table 3.--Forest and range lands in the Rocky Mountain States by ownership and State, 1977

Ownership	Northern Rocky Mountain States					Southern Rocky Mountain States					Total, Rocky Mountain States	
	Idaho	Montana	Western South Dakota	Wyoming	Total	Arizona	Colorado	Nevada	New Mexico	Utah		Total
----- Thousand acres -----												
Forest land:												
National Forest	16,235.3	13,817.2	982.8	5,652.7	36,688.0	6,437.8	10,350.9	2,402.9	7,181.6	5,076.9	31,450.1	68,138.1
BLM	465.2	834.0	8.6	723.1	2,030.9	1,868.0	3,322.2	3,986.8	2,015.1	6,204.1	17,396.2	19,427.1
Other Federal	39.0	1,672.2	12.6	2,124.2	3,848.0	1,741.2	629.5	240.5	693.1	944.1	4,248.4	8,096.4
Non-Federal	4,987.1	6,235.9	363.3	1,528.3	13,114.6	8,446.9	7,968.4	1,053.1	8,170.0	3,841.5	29,479.9	42,594.5
Total	21,726.6	22,559.3	1,367.3	10,028.3	55,681.5	18,493.9	22,271.0	7,683.3	18,059.8	16,066.6	82,574.6	138,256.1
Rangeland:												
National Forest	3,896.5	2,926.9	486.5	3,575.6	10,885.5	5,027.7	3,376.3	3,987.5	1,394.0	3,047.3	16,832.8	27,718.3
BLM	11,519.8	7,308.0	143.3	16,683.9	35,655.0	10,728.0	5,032.8	44,389.2	10,941.9	16,514.3	87,606.2	123,261.2
Other Federal	226.1	760.7	309.8	165.2	1,461.8	5,147.2	275.5	4,216.0	2,775.5	3,319.1	15,733.3	17,195.1
Non-Federal	7,955.7	42,338.4	3,712.8	26,471.5	80,478.4	24,265.4	19,137.1	4,295.0	33,614.1	6,820.3	88,131.9	168,610.3
Total	23,598.1	53,334.0	4,652.4	46,896.2	128,480.7	45,168.3	27,821.7	56,887.7	48,725.5	29,701.1	208,304.2	336,784.9
Forest and Range Lands:												
National Forest	20,131.8	16,744.1	1,469.3	9,228.3	47,573.5	11,465.5	13,727.2	6,390.4	8,575.6	8,124.2	48,282.9	95,856.4
BLM	11,985.0	8,142.0	151.9	17,407.0	37,685.9	12,596.0	8,355.0	48,376.0	12,957.0	22,718.4	105,002.4	142,688.3
Other Federal	265.1	2,432.9	322.4	2,289.4	5,309.8	6,888.4	905.0	4,456.5	3,468.6	4,263.2	19,981.7	25,291.5
Non-Federal	12,942.8	48,574.3	4,076.1	27,999.8	93,593.0	32,712.3	27,105.5	5,348.1	41,784.1	10,661.8	117,611.8	211,204.8
Total	45,324.7	75,893.3	6,019.7	56,924.5	184,162.2	63,662.2	50,092.7	64,571.0	66,785.3	45,767.6	290,878.8	475,041.0

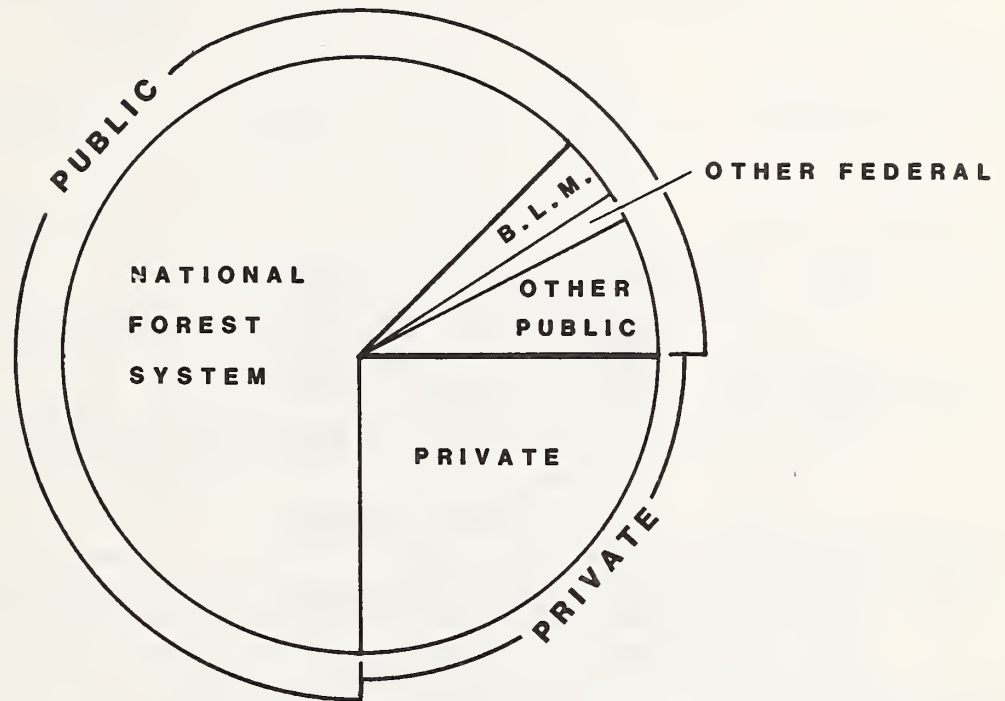
Table 4.--Area of commercial forest land in the Rocky Mountain States by ownership class, 1977

State	Owner class									
	National Forest	BLM	Indian	Misc. Federal	State	County & municipal	Forest industry	Farmer	Misc. private	All owners
----- Thousand acres -----										
Northern Rocky Mountain States:										
North Idaho	4,212.7	178.8	61.3	7.7	651.3	18.9	777.6	631.0	1,177.6	7,716.9
South Idaho	4,940.5	230.2	8.7	--	209.7	--	169.1	146.1	119.4	5,823.7
Western Montana	5,641.9	155.4	371.2	2.7	437.2	2.3	1,041.0	468.7	1,275.7	9,396.1
Eastern Montana	2,519.9	264.6	253.7	50.4	92.3	2.4	14.4	1,483.7	281.9	4,963.3
Western South Dakota	952.5	4.8	--	1.0	67.0	3.4	16.1	154.6	44.7	1,244.1
Wyoming	3,044.7	200.0	123.8	--	110.6	--	54.3	619.8	181.0	4,334.2
Total	21,312.2	1,033.8	818.7	61.8	1,568.1	27.0	2,072.5	3,503.9	3,080.3	33,478.3
Southern Rocky Mountain States:										
Arizona	2,461.5	18.0	1,216.2	--	32.1	1.5	--	81.8	84.5	3,895.6
Colorado	7,505.8	422.1	29.8	4.6	188.9	45.1	14.7	2,635.9	467.8	11,314.7
Nevada	61.1	--	--	--	3.4	1.2	8.3	1.8	58.5	134.3
New Mexico	2,818.3	39.4	572.7	8.9	171.1	--	0	1,549.8	377.3	5,537.5
Utah	2,277.0	186.0	50.7	6.3	114.8	3.7	0	303.9	208.9	3,151.3
Total	15,123.7	665.5	1,869.4	19.8	510.3	51.5	23.0	4,573.2	1,197.0	24,033.4
Total all Rocky Mountain States	36,435.9	1,699.3	2,688.1	81.6	2,078.4	78.5	2,095.5	8,077.1	4,277.3	57,511.7

National forests also have the most unproductive forest land.

The other Federal agencies with substantial areas of commercial timberland are the Bureau of Land Management (BLM) and Bureau of Indian Affairs (BIA).² Most of the BLM holdings are in the Northern Rocky Mountain States, while Indian lands are primarily in the southern part. The two agencies combined have something less than 5 million acres or 8 percent of the total commercial timberland.

COMMERCIAL TIMBERLAND



Other public lands are mostly State-owned, with the largest holdings in Idaho and Montana. There is more State-owned forest land in the northern States than in the southern.

Most forest industry lands are in the North.

The major part of the privately owned commercial timberland is held by farmers or ranchers and other private individuals. There are slightly more of these acres in the northern States than the southern. Forest industry lands, on the other hand, are almost entirely in the North, mostly Idaho and Montana. All but about 23,000 of the 2 million acres of industry lands are in the North (table 4).

²Although Indian lands are classed as Federally owned because of the nature of their Federal trusteeship and administration, they are actually privately owned by the various tribes.

How Productive Is It?

Compared to the major timber-producing areas around the United States, the productivity of commercial timberland in the Rocky Mountain States is relatively low in terms of wood production. Scant precipitation and thin soils over much of the area, and short growing seasons at higher elevations are major factors influencing land productivity.

Although land productivity is generally low...

Productivity class (<i>ft³/acre/yr</i>)	Acres (<i>thousands</i>)	Percent of total
20–49	30,078.4	52
50–84	16,412.3	29
85 +	<u>11,021.0</u>	<u>19</u>
Total	57,511.7	100

nearly half has the potential to produce over 50 cubic feet per acre year.

Most high site land is on National Forests in Idaho and Montana.

Most forest industry lands can produce over 50 cubic feet per acre per year.

The most productive lands are occupied by hemlock-cedar, larch, Douglas-fir, and fir-spruce ecosystems;

pinyon-juniper forests don't produce much industrial wood but are valuable for other uses.

About 11 million acres are capable of producing over 85 cubic feet of usable wood per acre per year; this is nearly 20 percent of the total commercial timberland area (appendix II, tables 11 and 12). But still, nearly half the commercial timberland has the potential to produce 50 cubic feet per acre per year or more.

Most of the high-site land—85 cubic feet and up—is in Idaho and Montana, and because of size of the ownership, most of it (about 75 percent) is on National Forests.

Farmers and other private owners have more high-site land than forest industries simply because they own more land. However, over 70 percent of industry lands are capable of producing over 50 cubic feet per acre per year.

Some variation in productivity exists among types, although many of the differences are attributable to soil-moisture-temperature relationships characteristic of the sites on which these types occur. The types occupying the most highly productive land are hemlock-cedar, larch, Douglas-fir, and fir-spruce.

At the other end of the scale are the pinyon-juniper and chaparral-mountain shrub types. Because of their very nature and the climatic conditions under which they exist, these types cannot produce even 20 cubic feet of wood per acre per year. However, the combined 49 million acres of these two types have high value for other resource uses.

Some 11.5 million acres of forest land that could produce 20 cubic feet per acre annually are either “reserved” in terms of wood harvest, or are in a “deferred” category while under study for possible inclusion as wilderness.

THE TIMBER BASE

Timber—Kinds and Sizes

Four forest types make up 85 percent of the commercial timberland...

with ponderosa pine and Douglas-fir most extensive.

Some 85 percent of the commercial timberland is made up of four forest types: ponderosa pine, Douglas-fir, fir-spruce, and lodgepole pine—in that order. The most extensive is ponderosa pine, covering nearly 16 million acres and dominating forests of the Southwest, the Black Hills of western South Dakota, and the drier sites in Idaho and Montana.

The more than 12 million acres of Douglas-fir is widely distributed throughout the Rocky Mountains. It generally occupies more moist and productive sites above the ponderosa pine type.

The fir-spruce type and lodgepole pine cover about equal areas, around 10 million acres each. Although in the southern States lodgepole pine is generally found on poor sites, in the North it occupies substantial areas of medium- to high-site land, much the same as fir-spruce. The fir-spruce type is a more significant timber resource in the northern States than the southern.

Aspen is big in Colorado and Utah.

Hardwoods, predominantly aspen and cottonwood, are found largely in the southern States, particularly Utah and Colorado. Overall they are relatively insignificant as commercial timber species but are locally of considerable economic importance for specialty products.

About two-thirds of the commercial timberland is sawtimber stands.

About 67 percent of the commercial timberland in the Rocky Mountain States is occupied by sawtimber stands (fig. 1, tables 5 and 6). Although the averages of percent area in that size class for the northern and southern States are nearly identical to each other and to the total for all Rocky Mountain States, three of the southern States have the highest proportion of commercial timberland in that category, and one, Colorado, has the lowest. Colorado also has the highest proportion in a nonstocked condition.

No concrete management implications can to be drawn from stand size categories alone simply because of the way stand size class is determined. Such categories can be misleading in terms of tree diameter distribution.³ For example, in ponderosa pine stands in the Southwest, a wide range of tree diameter class is common in sawtimber stands.

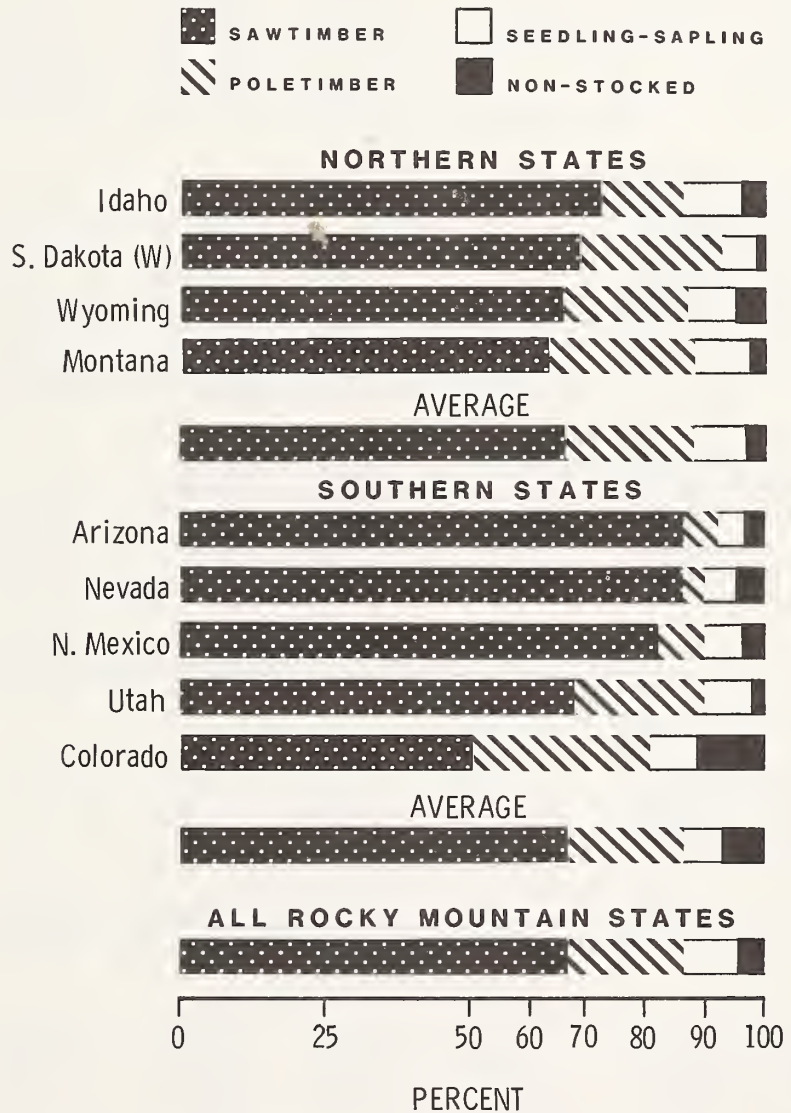


Figure 1.—Percent of commercial timberland by stand-size class, 1977.

³Softwood sawtimber trees need only be 9.0 inches d.b.h. (hardwoods 11.0 inches); sawtimber stands need only have half the total stocking in sawtimber and poletimber trees with sawtimber at least equal to poletimber stocking.

Table 5.--Area of commercial timberland in the Northern Rocky Mountain States by stand-size class, ownership, and State, 1977

Stand-size class and ownership	State				Total
	Idaho	Montana	Western South Dakota	Wyoming	
- - - - - <i>Thousand acres</i> - - - - -					
Sawtimber stands:					
National forest	6,234.1	4,995.2	674.9	1,947.3	13,851.5
Other public	1,093.8	1,055.5	47.8	283.0	2,480.1
Forest industry	813.1	824.0	9.9	38.2	1,685.2
Farm and other private	1,477.6	2,138.4	112.5	537.7	4,266.2
Total	9,618.6	9,013.1	845.1	2,806.2	22,283.0
Poletimber stands:					
National forest	1,592.8	2,165.2	238.3	643.0	4,639.3
Other public	108.7	395.8	12.0	99.7	616.2
Forest industry	21.5	181.1	4.5	13.9	221.0
Farm and other private	160.3	989.8	50.4	223.4	1,423.9
Total	1,883.3	3,731.9	305.2	980.0	6,900.4
Seedling and sapling stands:					
National forest	1,039.2	896.0	37.3	296.6	2,269.1
Other public	129.5	147.7	14.9	20.9	313.0
Forest industry	89.6	38.3	1.7	1.4	131.0
Farm and other private	278.0	305.5	31.5	26.6	641.6
Total	1,536.3	1,387.5	85.4	345.5	3,354.7
Nonstocked stands:					
National forest	287.1	105.4	2.0	157.8	552.3
Other public	34.6	33.2	1.5	30.8	100.1
Forest industry	22.5	12.0	--	.8	35.3
Farm and other private	158.2	76.3	4.9	13.1	252.5
Total	502.4	226.9	8.4	202.5	940.2
All stands:					
National forest	9,153.2	8,161.8	952.5	3,044.7	21,312.2
Other public	1,366.6	1,632.2	76.2	434.4	3,509.4
Forest industry	946.7	1,055.4	16.1	54.3	2,072.5
Farm and other private	2,074.1	3,510.0	199.3	800.8	6,584.2
Total	13,540.6	14,359.4	1,244.1	4,334.2	33,478.3

Table 6.--Area of commercial timberland in the Southern Rocky Mountain States by stand-size class, ownership, and State, 1977

Stand-size class and ownership	State					Total
	Arizona	Colorado	Nevada	New Mexico	Utah	
- - - - - <i>Thousand acres</i> - - - - -						
Sawtimber stands:						
National forest	2,031.7	4,143.9	47.8	2,205.2	1,597.1	10,025.7
Other public	1,236.6	392.2	4.4	754.3	264.5	2,652.0
Forest industry	.0	4.0	7.5	.0	.0	11.5
Farm and other private	135.1	1,271.0	56.8	1,662.7	313.1	3,438.7
Total	3,403.4	5,811.1	116.5	4,622.2	2,174.7	16,127.9
Poletimber stands:						
National forest	176.0	1,718.1	3.3	239.4	501.7	2,638.5
Other public	23.1	273.6	--	16.8	44.8	358.3
Forest industry	.0	10.3	--	.0	.0	10.3
Farm and other private	14.0	1,432.6	--	131.6	127.6	1,705.8
Total	213.1	3,434.6	3.3	387.8	674.1	4,712.9
Seedling and sapling stands:						
National forest	136.8	696.5	5.4	172.1	132.7	1,143.5
Other public	3.9	18.3	.1	18.0	33.5	73.8
Forest industry	.0	.4	.3	.0	.0	.7
Farm and other private	17.2	135.9	1.4	132.8	59.2	346.5
Total	157.9	851.1	7.2	322.9	225.4	1,564.5
Nonstocked stands:						
National forest	117.0	947.3	4.6	201.6	45.5	1,316.0
Other public	4.2	6.4	.1	3.0	18.7	32.4
Forest industry	.0	--	.5	.0	.0	.5
Farm and other private	--	264.2	2.1	--	12.9	279.2
Total	121.2	1,217.9	7.3	204.6	77.1	1,628.1
All stands:						
National forest	2,461.5	7,505.8	61.1	2,818.3	2,277.0	15,123.7
Other public	1,267.8	690.5	4.6	792.1	361.5	3,116.5
Forest industry	.0	14.7	8.3	.0	.0	23.0
Farm and other private	166.3	3,103.7	60.3	1,927.1	512.8	5,770.2
Total	3,895.6	11,314.7	134.3	5,537.5	3,151.3	24,033.4

How Much Wood?

The wood on commercial timberland compressed into a single log would be 200 feet in diameter and reach from Denver to Missoula.

Three-fourths the volume is in sawtimber size trees...

much of it in Idaho and Montana.

The bulk of it is Douglas-fir, lodgepole, and ponderosa pines.

About 70 percent is in trees less than 21 inches d.b.h.

Other Forest Land

Noncommercial timberlands are largely pinyon-juniper...

but these lands have high value nontimber uses as well as wood.

Growth, Removals, and Mortality

Net growth is generally low...

In 1977, the commercial timberland in the Rocky Mountain States contained an estimated, and nearly incomprehensible, wood volume of 112.2 billion cubic feet, 105.5 billion of it softwood species (appendix II, table 65). To get a better perspective of the volume in cubic feet, let us put it in a single log. A log of 112.2 billion cubic feet would be 200 feet in diameter and 678 miles long, stretching from Denver, Colo., to Missoula, Mont.

Some 99.7 billion cubic feet is in softwood and hardwood growing stock trees and 7.7 billion is in salvable dead trees. The remainder is in rough and rotten trees.

More than three-fourths (77 percent) of the softwood growing stock volume is in sawtimber trees with an estimated volume of 390.4 billion board feet (International 1/4-inch log rule) (appendix II, table 64). Much of the sawtimber volume is in the North, again principally in Idaho and Montana.

In the North, Douglas-fir and ponderosa pine make up 40 percent of the sawtimber volume with 74.3 billion board feet and 34.9 billion board feet, respectively. If you add in the 40.4 billion board feet of lodgepole pine, 55 percent of the sawtimber volume in those States is accounted for. In the South, the bulk of both growing stock and sawtimber volume is ponderosa pine and spruce.

About 70 percent of the sawtimber volume is in trees less than 21 inches diameter at breast height (d.b.h.). This reflects a continuation of the downward trend in average tree size in the Rocky Mountains States. Since 1952, the volume in trees larger than 17 inches d.b.h. has declined, while volume in trees less than 17 inches d.b.h. has increased.

Other forest lands are those either not currently suitable or available for timber harvesting for roundwood products. Most of such land is in the Southern Rocky Mountain States and much of it is in pinyon-juniper stands. Arizona, New Mexico, and Utah have the largest areas of unproductive forest. The highest proportion of unproductive forest is in Nevada; all but 2 percent of Nevada's forest land is considered unproductive for timber production. But these lands have high value for nontimber uses.

That pinyon-juniper forests are classed as "noncommercial" does not mean they have no monetary value for the wood produced. There is much interest in the pinyon-juniper land as a source of wood fiber for manufactured products as well as fuel. In the Southwest, pinyon-juniper firewood often commands a higher price per cord than round pulpwood—in some cases, three to four times as much.

As usual, whatever happens in terms of softwood growth, removals, and mortality, in the Rocky Mountain States, more of it happens in Idaho and Montana than anywhere else (tables 7 and 8). For hardwoods, Colorado is first, largely because that is where the bulk of the hardwoods occurs.

Growth.—The net annual growth estimates for the Rocky Mountain States of 1.7 billion cubic feet of growing stock and 6.7 billion board feet of sawtimber (tables 7 and 8) average out at about 29.7 cubic feet and 116.8 board feet per acre. Although such averaging is tenuous, these data do indicate rather significant areas of the low productivity land in the Rocky Mountain States compared to other timber growing regions.

Table 7.--Net annual growth, removals, and mortality of growing stock on commercial timberland in the Rocky Mountain States by softwoods and hardwoods, 1976

State	All species			Softwoods			Hardwoods		
	Growth	Removals	Mortality	Growth	Removals	Mortality	Growth	Removals	Mortality
----- Thousand cubic feet -----									
Northern Rocky Mountain States:									
Idaho	675,899	394,804	123,365	669,563	394,780	121,956	6,336	24	1,409
Montana	478,034	234,802	130,063	473,246	234,792	128,314	4,788	10	1,749
Western South Dakota	39,959	20,410	3,791	38,704	20,410	3,782	1,255	0	9
Wyoming	86,377	19,384	42,055	82,866	19,325	40,860	3,511	59	1,195
Total, Northern Rocky Mountain States	1,280,269	669,400	299,274	1,264,379	669,307	294,912	15,890	93	4,362
Southern Rocky Mountain States:									
Arizona	72,229	83,352	15,133	67,302	83,241	14,136	4,927	111	997
Colorado	209,101	38,670	91,943	151,741	36,400	77,873	57,360	2,270	14,070
Nevada	2,419	75	1,727	2,171	75	1,692	248	0	35
New Mexico	78,811	41,122	36,127	67,480	40,867	31,438	11,331	255	4,689
Utah	65,314	13,057	35,396	51,455	12,401	26,090	13,859	656	9,306
Total, Southern Rocky Mountain States	427,874	176,276	180,326	340,149	172,984	151,229	87,725	3,292	29,097
Total, all Rocky Mountain States	1,708,143	845,676	479,600	1,604,528	842,291	466,141	103,615	3,385	33,459

Table 8.--Net annual growth, removals, and mortality of sawtimber on commercial timberland in the Rocky Mountain States by softwoods and hardwoods, 1976

State	All species			Softwoods			Hardwoods		
	Growth	Removals	Mortality	Growth	Removals	Mortality	Growth	Removals	Mortality
----- Thousand board feet, International 1/4-inch rule -----									
Northern Rocky Mountain States:									
Idaho	2,943,711	2,315,747	561,172	2,931,757	2,315,605	557,538	11,954	142	3,634
Montana	1,412,980	1,308,644	460,066	1,398,405	1,308,591	454,066	14,575	53	6,000
Western South Dakota	168,881	117,173	16,645	167,618	117,173	16,619	1,263	0	26
Wyoming	356,761	104,983	152,608	347,492	104,628	150,551	9,269	355	2,057
Total, Northern Rocky Mountain States	4,882,333	3,846,547	1,190,491	4,845,272	3,845,997	1,178,774	37,061	550	11,717
Southern Rocky Mountain States:									
Arizona	314,790	462,158	68,265	296,793	461,898	65,126	17,997	260	3,139
Colorado	958,524	219,904	328,536	797,944	207,943	306,298	160,580	11,961	22,238
Nevada	10,475	421	9,419	10,144	421	9,324	331	0	95
New Mexico	266,783	243,878	134,727	238,996	242,387	122,706	27,787	1,491	12,021
Utah	287,318	79,212	123,710	245,323	77,092	103,010	41,995	2,120	20,700
Total, Southern Rocky Mountain States	1,837,890	1,005,573	664,657	1,589,200	989,741	606,464	248,690	15,832	58,193
Total, all Rocky Mountain States	6,720,223	4,852,120	1,855,148	6,434,472	4,835,738	1,785,238	285,751	16,382	69,910

but the trend is up...

In spite of generally low growth per acre, the trend in net annual growth of softwoods is up, as it has been since 1952, for both cubic foot and board foot volume:

Net growth of growing stock
(Million cubic feet)

	1952	1962	1970	1976
North	863.1	983.3	1,153.8	1,280.3
South	<u>290.6</u>	<u>335.6</u>	<u>379.5</u>	<u>427.9</u>
Total	1,153.7	1,318.9	1,533.3	1,708.2

Net growth of sawtimber
(Million board feet)

	1952	1962	1970	1976
North	3,323.0	3,605.0	3,996.2	4,882.3
South	<u>941.0</u>	<u>1,043.0</u>	<u>1,244.4</u>	<u>1,837.9</u>
Total	4,264.0	4,648.0	5,240.6	6,720.2

on all commercial timberland.

Low growth stands and high mortality are major factors.

Removals trend reversed since 1970 except for other public and other private land.

Ponderosa pine and Douglas-fir still the most used sawtimber species.

The trend is the same for all ownerships.

The primary factors of low net growth per acre are large areas of old-growth sawtimber stands, stagnated stands of smaller size trees such as lodgepole pine, large areas of understocked stands, and a high mortality rate.

Removals.—The recent increasing trend in removals from growing stock and sawtimber (1952 to 1970) has reversed (fig. 2). As of 1976, removals were estimated at 846 million cubic feet per year in the Rocky Mountain States (table 7). Sawtimber removals were slightly less than 5 billion board feet, of which only about 16 million were hardwoods (table 8). About 45 percent of sawtimber removals were ponderosa pine and Douglas-fir.

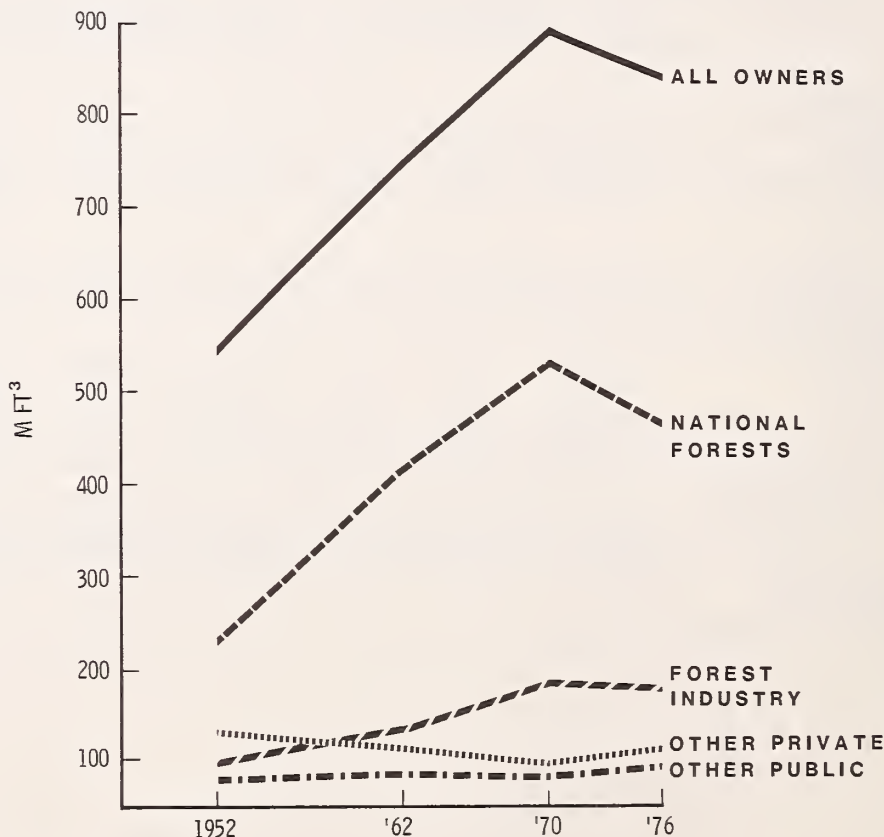


Figure 2.—Removals from growing stock, 1952-76, all Rocky Mountain States.

Although the greatest volumes came from the National Forests, the greatest percent decrease was from the National Forests. In more recent years over 50 percent of the harvest in the northern States has come from private land. This is reverse from traditional heavy reliance on public lands for timber supplies.

The general trend and percent decline are the same for both growing stock and sawtimber removals. By looking at the periods from 1952 to 1970 and 1970 to 1976, the general trend by ownership category can be seen:

Owner category	Removals			
	Percent change		Percent of total	
	(1952-1970)	(1970-1976)	(1952-1970)	(1970-1976)
National Forest	+ 128	- 12	68	55
Other public	+ 8	+ 8	8	11
Industry	+ 88	- 5	16	21
Other private	- 26	+ 18	8	13
All owners	+ 66	- 5	100	100

A fickle economy has reduced the demand for roundwood products.

Three-fourths of removals were sawlogs... but 92 million cubic feet were left in the woods as residues.

In 1976 mortality losses were 480 million cubic feet.

Insects are major cause and bark beetles are major devastators.

Current serious problem areas—

lodgepole pine stands in Montana, Idaho, Wyoming, and Utah.

Wildfires took 90,000 acres of forest.

The declines in removals, especially from National Forests and industry lands, largely stems from a sagging demand for wood products due to the economic flip-flops of the Nation and the attendant rippling effect through the major sectors.

Saw logs made up 75 percent of all removals (appendix II, table 76). But the second biggest source of removals from growing stock is the usable portion of sawtimber or poletimber trees left in the woods during and after harvest—over 92 million cubic feet of logging residues.

Mortality.—Mortality of growing stock in 1976 was estimated at nearly 480 million cubic feet (table 7). Sawtimber losses were nearly 2 billion board feet.

Insects continue to be the major culprits and the bark beetles seem to be the worst offenders. In the northern States, the Douglas-fir beetle and larch casebearer caused much of the nearly 300 million cubic foot loss. In the southern States the mountain pine and spruce beetles get a lot of the credit.

Losses are distributed between the North and South in about the same proportion as the area of commercial timberland—about 60 and 40 percent, respectively. And the greatest losses were on National Forests simply, again, because they have the most land and in some cases the least developed access. The species hardest hit are Douglas-fir, ponderosa pine, lodgepole pine, western larch, and Engelmann spruce.

Mountain pine beetle infestations are heavy in some areas and spreading rapidly in many others. Control efforts are meeting with mixed success. Some major areas of concern are the ponderosa pine in the Black Hills of South Dakota and lodgepole and ponderosa pine in Wyoming, Montana, Idaho, and Utah. In 1981, there were an estimated 3.8 million acres of ponderosa and lodgepole pine in the Rocky Mountain States infested to some degree with mountain pine beetle.⁴ Lodgepole pine in Montana is suffering the most (2.3 million acres), but beetle activity is on the increase in western Wyoming and Utah.

While the bugs can lay claim to turning the forest red and rust, they cannot turn it black. In 1977 wildfires sent nearly 90,000 acres of forest land up in smoke; 39,000 of it was commercial timberland.⁵ The destroyed commercial timberland was split about 50-50 between the North and South. Although lightning started a substantial portion of

⁴U.S. Department of Agriculture, Forest Service. Forest insect and disease conditions in the United States, 1981. Washington, DC: U.S. Department of Agriculture, Forest Service; May 1982. 51 p.

⁵U.S. Department of Agriculture, Forest Service. 1977 wildfire statistics. Washington, DC: U.S. Department of Agriculture, Forest Service; 1979. 56 p.

the fires, people apparently started about 9,000, mostly by burning debris and walking away from campfires. Lower than normal precipitation over the winter and spring made for a long fire season for the entire Rocky Mountain area.

Lightning caused many fires, but people started about 9,000.



It is difficult to estimate the volume loss from fire, but using the average stocking level for the Rocky Mountain States of 1,750 cubic feet and 7,200 board feet per acre, we are looking at a *potential* loss of 68.6 million cubic feet or 283 million board feet. In reality much of the burned commercial timber is salvable, but the volume of usable wood recovered varies according to the degree of charring.

There is some potential for salvage in accessible areas with high concentrations of dead material.

Salvage operations work best in areas with a high concentration of salvable material located conveniently near roads. However, many high-concentration areas are isolated in the back country. The most likely candidates would be concentrated areas with recent insect kill or areas where fires killed but did not destroy. But a large part of the mortality is in trees too far scattered to be efficiently salvaged.

Of all the species, lodgepole pine has the most appeal for salvage because of the high rate of use for roundwood products. In total, salvage of recent mortality and existing dead and down material will most likely happen during ongoing harvesting operations.

SOMETHING ABOUT FOREST USES

The forests of the Rocky Mountain States are obviously more than a collection of trees. The trees are the dominant vegetation of a complex of different environments, making up different forest types. As such they have inestimable value for things other than making boards, plywood, and paper.



Grazing

Livestock.—Some 418 million acres of forest and range land in the Rocky Mountain States (excluding South Dakota) were grazed in 1976, nearly half of it on public lands:⁶

Owner group	Forest	Rangeland	Total
	----- <i>Thousand acres</i> -----		
Forest Service	34,594	34,233	68,827
BLM	1,696	124,230	125,926
Other Federal	306	7,963	8,269
Total Federal	35,596	166,426	203,022
Non-Federal	14,672	200,065	214,737
Total Rocky Mountains	51,268	366,491	417,759

In 1978, 6.4 million AUM's were grazed on National Forests alone.

Arizona and Colorado accounted for over half.

In 1978, just on the National Forests in the Rocky Mountains, some 963,000 cattle, 119,000 horses and burros, and 1,164,000 sheep grazed some 6.4 million animal unit months (AUM's) on about 68.8 million acres (table 9). Of the AUM's grazed on National Forests, 4.1 million (64 percent) were grazed in the Southern Rocky Mountain States by some 56 percent of the total number of animals. Arizona and Colorado accounted for over half the grazing in the South and about 30 percent of the total on the National Forests in the Rocky Mountains. Because of the more arid climate, longer grazing seasons, and a much longer history of heavy, sustained grazing, lands in the South generally are in poorer condition for grazing than those in the North.

⁶U.S. Department of Agriculture, Forest Service. An assessment of the forest and rangeland situation in the United States. Forest Resource Report No. 22. Washington, DC: U.S. Department of Agriculture, Forest Service; 1981. 352 p.

Table 9.--Number of animals and AUM's grazed on National Forests, FY78¹

	Cattle		Horses & burros		Sheep & goats		Total	
	No.	AUM's	No.	AUM's	No.	AUM's	No.	AUM's
- - - - - <i>Thousands</i> - - - - -								
Northern Rocky Mountain States:								
Idaho	120.4	571.9	23.5	11.8	282.6	204.3	426.5	788.0
Montana	127.6	569.1	15.8	13.4	43.2	21.9	186.6	604.4
South Dakota ²	21.7	116.0	.1	.4	3.7	3.6	25.5	120.0
Wyoming	130.3	590.3	26.1	21.2	190.0	150.9	346.4	762.4
Total, Northern Rocky Mountain States	400.0	1,847.3	65.5	46.8	519.5	380.7	985.0	2,274.8
Southern Rocky Mountain States:								
Arizona	131.3	1,275.9	1.4	13.0	62.4	30.5	195.1	1,319.4
Colorado	176.1	820.5	28.4	16.2	249.0	186.7	453.5	1,023.4
Nevada	61.3	256.1	.7	1.3	47.6	34.2	109.6	291.6
New Mexico	101.2	801.4	4.6	9.2	30.5	18.1	136.3	828.7
Utah	93.1	447.7	18.1	8.9	254.5	203.6	365.7	660.2
Total, Southern Rocky Mountain States	563.0	3,601.6	53.2	48.6	644.0	473.1	1,260.2	4,123.3
Total, Rocky Mountain States	963.0	5,448.9	118.7	95.4	1,163.5	853.8	2,245.2	6,398.1

¹USDA Forest Service Annual Grazing Statistical Report, FY78

²Entire state

Large numbers of wild horses and burros graze the rangelands of the West... often in competition with domestic livestock and other wildlife.

In 1976, there were an estimated 56,300 wild horses and 7,100 wild burros trying to survive on their own in the 10 western States, most of them on BLM rangeland. In some areas, high concentrations of an increasing horse population are having negative impacts on vegetation and soil that in turn affect range productivity. These horses also offer some real competition for other grazing animals, both domestic and wild.

Wildlife

The forest and range lands provide food and shelter for millions of animals and birds. No one knows the number, but according to State fish and game departments, big game animals number in excess of 2.5 million (table 10). These figures are probably low. However, there is no threat of insufficient herbage and browse for a population even five times greater than that estimated. Of more concern is the availability of winter range and thermal and hiding cover in local areas of high resource use, especially during severe winter weather.

The Rocky Mountains are a haven for wildlife of all species.



Table 10.--Current estimates of big game populations in the western States

State	Bison	Pronghorn	Bighorn	Mule and blacktail deer	Elk	Total
Arizona	320	7,000	2,000	130,000	10,000	149,320
Colorado	--	32,000	2,500	325,000	120,000	479,500
Idaho	25	13,250	2,975	210,000	50,600	276,850
Montana	500	86,000	3,000	226,000	100,000	415,500
Nevada	--	5,000	4,000	81,700	200	90,900
New Mexico	--	26,900	800	261,600	27,500	316,800
Utah	150	2,500	450	275,000	13,000	291,100
Wyoming	500	168,000	3,100	280,000	63,000	514,600
Western South Dakota	1,500	no est.	no est.	no est.	no est.	1,500
Total	2,995	340,650	18,825	1,789,300	384,300	2,536,070

Source: State fish and game departments as reported by Wagner, Frederic H. Livestock grazing and the livestock industry. Chapter 9, p. 121-149, in *Wildlife and America: Contributions to an understanding of American wildlife and its conservation*. H. P. Brokaw, editor, Council on Environmental Quality. 1978.

Minerals

Mineral outputs vary yearly in response to economic demands.

The mineral estate of the Rocky Mountains is enormous. In 1975, minerals valued at over \$8 billion were extracted from beneath the forest and range lands. Copper, molybdenum, petroleum, phosphate rock, gold, silver, zinc, coal, natural gas, potassium salts, sodium compounds, cement, and sand and gravel are the principal minerals. Petroleum has the highest value.

Much of the mineral deposits in the Rocky Mountains underlies Federal land simply because Federal agencies have more land than anyone else.

Recreation

Outdoor recreation is one of the big businesses in the Rocky Mountain States, attracting people from all over the world. In 1977 an equivalent of 75 million people spent at least 12 hours having fun on the National Forests in the Rocky Mountains.

The most popular Rocky Mountain States in which to recreate on National Forests were Colorado, Arizona, and Utah, with 18.0, 12.8, and 11.3 million visitor days respectively.⁷ These states lead in use of both developed site and dispersed area recreation. Camping, picnicking, and winter sports are major activities for developed areas. Nearly half the dispersed area use was hiking and other off-road activities:

Kind of area	Recreation visitor days (RVD) (Millions)
Developed Sites:	
Camping and picnicking	16.4
Winter sports	3.5
Other (recreation, interpretive sites, organization sites, concession sites, motels and lodges, observation sites, etc.)	7.2
Total	27.1
Dispersed areas:	
Hiking and off road	23.0
Water	7.9
Other (hunting, fishing, sightseeing, etc.)	17.0
Total	47.9
Total RVD's	75.0

Recreation is big business.

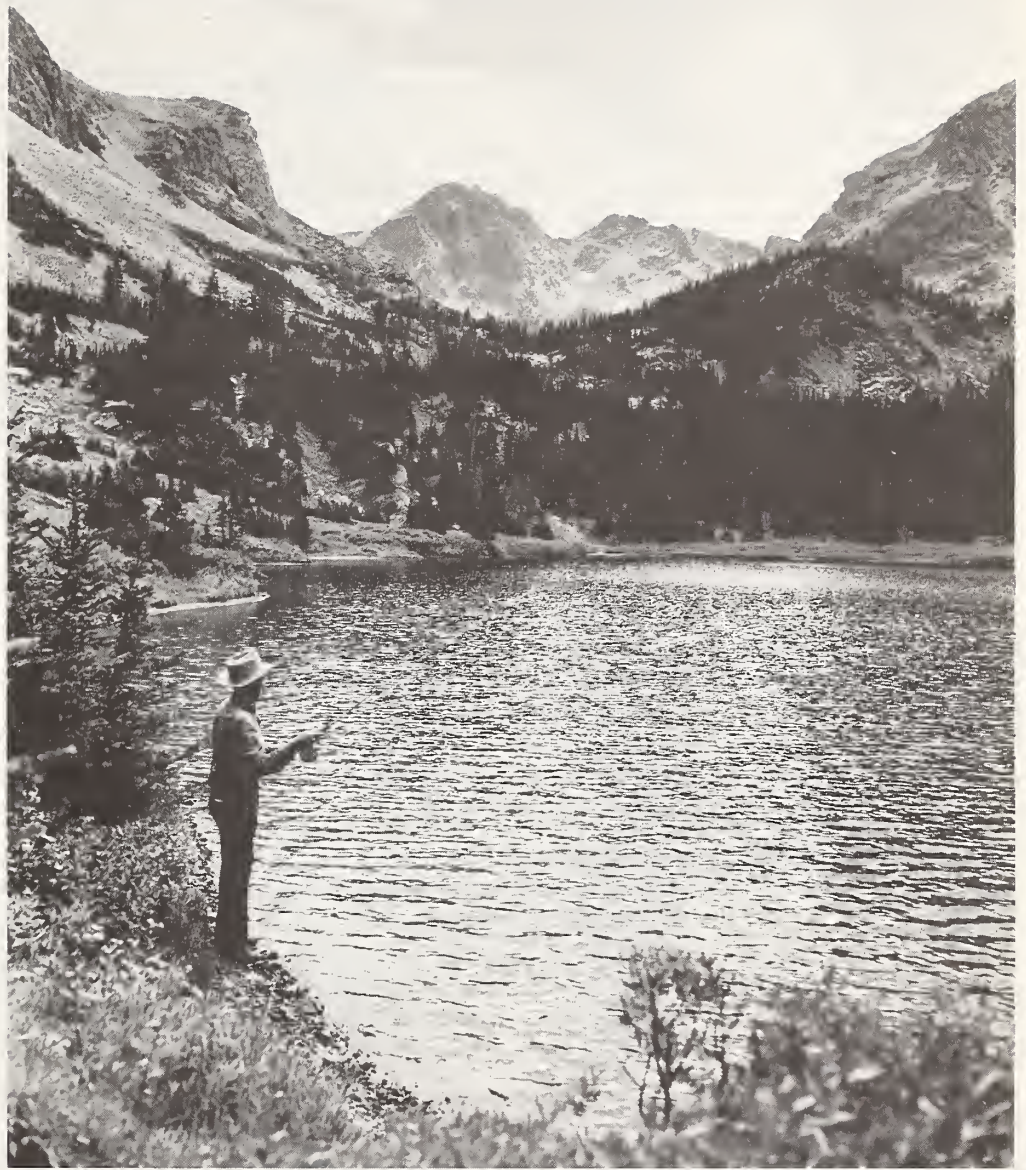
BLM lands in Nevada, Wyoming, and Idaho had more recreational visitor days than any other States, with sightseeing apparently the predominant pastime on those lands, along with hunting and fishing.⁸

The importance of increased outdoor recreation activities, in addition to the generation of economic activity, lies in potential impacts and/or conflict with other uses of the forest and rangeland resources and their management.

⁷U.S. Department of Agriculture, Forest Service. Report of the Forest Service, FY 1977. Washington, DC: U.S. Department of Agriculture, Forest Service; 1978. 115 p.

⁸U.S. Department of the Interior, Bureau of Land Management. Public land statistics, 1977. Washington, DC: U.S. Department of the Interior, Bureau of Land Management; 1978. 188 p.

About 65 percent takes place outside developed areas.



LOOKING AHEAD

As a force in the forest environment, man's consumptive use of parts of the forest resource...

influences to some degree what goes on in the rest of it.

The forests and rangelands of the Rocky Mountain States are a complex biological environment of naturally changing components that are inextricably bound together. They offer a wide variety of commodity and noncommodity outputs. Consumptive use of parts of these resources effects more rapid changes in the ecosystem. And such use can start chain reactions through other components.

How the forest lands are managed (manipulated) depends on what people want from them. In general, society wants for the future the same kinds of outputs they received in the past. But locally, the level of use or output desired for specific commodities varies and can be in conflict. However, the principal concerns of everyone, land managers and the public alike, are prospective supplies of all outputs from the forest to meet future demands while maintaining land productivity and enhancing environmental quality.

Concerns

Future wood supplies are always a concern...

and nontimber use of forest land affects the availability of wood.

Resource management choices often involve conflicting goals.

Problems associated with minerals development must be coped with.

Water is the most vital resource.

Cooperative planning is helping to assure adequate future resources and a productive land base.

Always at issue are future wood supplies, be they for lumber, plywood, paper, firewood, or synfuels. And a major consideration in future wood supplies, besides how fast we can grow them, is the availability of wood for conversion into products.

“Availability,” in this case, has two masters—availability of land on which to grow and cut trees, and the availability of the wood grown to be cut and used. *Land availability* dictates the timber growing base; that area of commercial timberland available for growing crops of trees. *Wood availability* relates to the areas within the commercial timberland where the impact of nontimber uses reduces the percentage of the trees grown that will be cut.

Both land and wood availability are affected primarily by the goals of the owner. Any major changes in ownership of forest land will have attendant changes in the prospective supply of wood in the future merely because of changes in goals and objectives.

The trend for more intensive use of forest land brings increasing chances for conflicting goals. For example, if, to assure adequate and timely regeneration of a harvest area, pocket gophers must be controlled, should poison be used and introduced into the food chain of wildlife? Another: Aerial logging on steep slopes in isolated areas is esthetically acceptable and protects the soil. But in many cases light soil disturbance and low intensity harvest precludes adequate natural regeneration and growth of a new stand of trees. The result is higher costs for establishing and growing a new tree crop.

Another major concern is the consequence of increasing minerals and energy development. While much of mineral wealth underlies the land, a lot can be surface mined. Activities such as strip mining and oil exploration and drilling have initial adverse impacts on surface resources, but many long-term effects can be mitigated by rehabilitation work at the site. And, of course, locally large-scale minerals development creates socio-economic situations that place increased demands on resources such as water, wood, wildlife, and recreation.

Perhaps the major concern for the future is water. From the Mississippi River to the Pacific Ocean, water originating in the Rocky Mountain States is vital. The water probably has the highest economic value of any resource. Any expansion in any sector of the economy from agro-business to defense will raise water requirements to staggering levels. Management of the surface resources will need to be done in such a way as to increase water supplies. Future economic development in the West will be limited by the availability of water.

Today the land management planning process for publicly administered lands is a cooperative effort between Federal and State agencies and the public. As the management alternatives, prospective outputs, and resource consequences are developed with public input, the stage is being set for the future. These plans will guide the activities of land managers in the Rocky Mountain States to assure adequate resources to meet future demands and at the same time maintain the integrity of the land base and the environment.

APPENDIX I: TERMINOLOGY

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

Area condition class—See stocking.

Bureau of Land Management land—Federal lands administered by the Bureau of Land Management, U.S. Department of the Interior.

Commercial forest land—See commercial timberland.

Commercial species—Tree species suitable for industrial wood products.

Commercial timberland—Forest land that is producing or is capable of producing crops of industrial wood and not withdrawn from timber utilization by statute or administrative regulation. (Note: Areas qualifying as commercial timberland have the capability of producing in excess of 20 cubic feet per acre per year of industrial wood in natural stands. Currently, inaccessible and inoperable areas are included.)

Cord—A pile of stacked wood containing 128 cubic feet within its outside surfaces. The standard dimensions are 4 by 4 by 8 feet.

Cropland—Land under cultivation within the past 24 months, including cropland harvested, crop failures, cultivated summer fallow, idle cropland used only for pasture, orchards, and land in soil improving crops, but excluding land cultivated in developing improved pasture.

Cull trees—Live trees of sawtimber and poletimber size that are unmerchantable for saw logs now or prospectively because of roughness, rot, or species (also see rotten trees and rough trees).

Deferred forest land—National Forest lands that meet productivity standards for commercial forest, but 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 before rotation age.

Diameter classes—A classification of trees based on diameter outside bark measured at breast height (4½ feet above the ground). D.b.h. is the common abbreviation for “diameter at breast height.” When using 2-inch diameter classes, the 6-inch class, for example, includes trees 5.0 through 6.9 inches d.b.h. inclusive.

Ecosystem—A complete, interacting system of organisms considered together with their environment; for example, a marsh, a watershed, a lake, etc.

Establishment—An economic unit, generally at a single physical location, where business is conducted or where services or industrial operations are performed.

Farmer and other private—All private ownerships except industry.

Farmer-owned lands—Lands owned by a person who operates a farm, either doing the work himself or directly supervising the work.

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

Forest land—Land at least 10 percent stocked by forest trees of any size, including land that formerly had such tree cover and that will be naturally or artificially regenerated. (Also see Commercial timberland, Productive-reserved forest land, and Other forest land.) Forest land includes transition zones, such as areas between heavily forested and nonforested lands that are at least 10 percent stocked with forest trees, and forest areas adjacent to urban and built-up

- lands. Also included are pinyon-juniper and chaparral areas in the West, and afforested areas. The minimum area for classification of forest land is 1 acre. Roadside, streamside, and shelterbelt 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 in width.
- Forest site productivity class—A classification of forest land in terms of potential cubic-foot volume growth per acre at culmination of mean annual increment in fully stocked natural stands.
- Forest types—A classification of forest land based upon the tree species presently forming a plurality of stocking. For poletimber size trees and larger, stocking is determined from basal area occurrence and for trees less than 5.0 inches d.b.h. from number of trees.
- Major western forest type groups:
- Douglas-fir—Forests in which Douglas-fir comprises a plurality of the stocking. (Common associates include western hemlock, western redcedar, the true firs, redwood, ponderosa pine, and larch.)
- Ponderosa pine—Forests in which ponderosa pine comprises a plurality of the stocking. (Common associates include Jeffrey pine, sugar pine, limber pine, Arizona pine, Apache pine, Chihuahua pine, Douglas-fir, incense cedar, and white fir.)
- Lodgepole pine—Forests in which lodgepole pine comprises a plurality of the stocking. (Common associates are alpine fir, western white pine, Engelmann spruce, aspen, and larch.)
- Fir-spruce—Forests in which true firs (*Abies* spp.), Engelmann spruce, or Colorado blue spruce, singly or combination, comprises a plurality of the stocking. (Common associates are mountain hemlock and lodgepole pine.)
- Aspen—Forests in which aspen comprises a plurality of the stocking.
- Hardwoods—Forests in which red alder or other western hardwoods, singly or in combination, comprise a plurality of the stocking.
- Pinyon-juniper—Forests in which pinyon pine and/or juniper comprise a plurality of the stocking.
- Growing-stock trees—Live sawtimber trees, poletimber trees, saplings, and seedlings meeting specified standards of quality or vigor; excludes cull trees.
- Growing-stock volume—Net volume in cubic feet of live sawtimber and poletimber trees from stump to a minimum 4-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.”
- Hardwoods—Dicotyledonous trees, usually broad-leaved and deciduous.
- Indian lands—Tribal lands held in fee by the Federal Government but administered for Indian tribal groups and Indian trust allotments.
- Industrial wood—All commercial roundwood products except fuelwood.
- Land area—Census definition: The area of dry land and land temporarily or partially covered by water such as marshes, swamps, and river flood plains (omitting tidal flats below mean high tide); streams, sloughs, estuaries, and canals less than 1/8 of a statute mile in width; and lakes, reservoirs, and ponds less than 40 acres of area.
- Forest Survey definition: Same as above except minimum width of streams, etc., is 120 feet and minimum size of lakes, etc., is 1 acre.

- Logging residues—The unused portions of poletimber and sawtimber trees cut or killed by logging.
- Mortality—The volume of sound wood in live trees that have died from natural causes during a specified period.
- National Forest System land—Federal lands designated by Executive Order or statute as National Forests or purchase units, and other lands under the administration of the Forest Service including experimental areas and Bankhead-Jones Title III lands.
- Net annual growth—The net increase in the volume of trees during a specified year. 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 the net volume of trees reaching the minimum size class during the year, minus the volume of trees that died during the year, and minus the net volume of trees that became rough or rotten trees during the year.
- Net volume in board feet—The gross board-foot volume of trees less deductions for rot or other defect affecting use for lumber.
- Net volume in cubic feet—Gross volume in cubic feet less deductions for rot, roughness, and poor form. Volume is computed for the central 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.
- Nonforest land—Land that has never supported forests and lands formerly forested where use for timber management is precluded by development for other uses. (Note: Includes crop lands, improved pasture, residential areas, city parks, improved roads of any width and adjoining clearings, powerline clearings of any width, and 1- to 40-acre areas of water classified by the Bureau of the Census as nonforest land. If intermingled in forest areas, unimproved roads and nonforest strips must be more than 120 feet wide, and clearings, etc., more than 1 acre in size, to qualify as nonforest land.)
- Nonstocked areas—Commercial timberland less than 10 percent stocked with growing stock trees.
- Other Federal land—Federal land other than lands administered by the Forest Service or the Bureau of Land Management.
- Other forest land—Forest land incapable of producing 20 cubic feet per acre of industrial wood under natural conditions because of adverse site conditions such as sterile soils, dry climate, poor drainage, high elevation, steepness, or rockiness.
- Other land—All land area other than forest and range lands.
- Other private land—Privately owned land other than forest industry or farmer-owned.
- Other public land—Publicly owned land other than National Forest System land.
- 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.
- Other species—Tree species of typical small size, poor form, or inferior quality that normally do not develop into trees suitable for industrial wood products.
- Ownership—The property under one owner, including all parcels of land in the United States.
- Pasture—Land that is currently improved for grazing by cultivation, seeding, or irrigation.
- Plant byproducts—Wood material from primary manufacturing plants (such as slabs, edgings, trimmings, miscuts, sawdust shavings, veneer cores and clippings, and pulp screenings) that are used for some products.

- Poletimber stands—Stands at least 10 percent stocked with growing stock trees, of which half or more of the stocking is sawtimber and/or poletimber trees with poletimber stocking exceeding that of sawtimber. (See definition for Stocking.)
- Poletimber trees—Live trees of commercial species at least 5.0 inches in diameter at breast height but smaller than sawtimber size, and of good form and vigor.
- Potential growth—The average net annual growth per acre attainable in fully stocked natural stands at culmination of mean annual growth of dominant or codominant trees.
- Primary manufacturing plants—Plants using roundwood products such as saw logs, pulpwood bolts, veneer logs, etc.
- Productive-reserved forest land—Productive public forest land withdrawn from timber utilization through statute or administrative regulations.
- Productivity class—A classification of forest land in terms of potential growth in cubic feet of fully stocked natural stands.
- Rangeland—Land on which the potential natural vegetation is predominantly grasses, grasslike plants, forbs, or shrubs, including land revegetated naturally or artificially that is managed like native vegetation. Rangeland includes natural grasslands, savannas, shrublands, most deserts, tundra, alpine communities, coastal marshes, and wet meadows that are less than 10 percent stocked with forest trees of any size.
- Removals—The net volume of growing-stock or sawtimber trees removed from the inventory by harvesting; cultural operations, such as timber stand improvement; land clearings; or changes in land use.
- 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.
- Logging residues—The unused portions of sawtimber and poletimber trees cut or killed by logging.
- Plant residues—Wood materials from primary manufacturing plants that are not used for any product.
- Urban residues—Wood materials from urban areas, such as newspapers, lumber and plywood from building demolition, and used packaging and shipping wood materials.
- Rotten trees—Live trees of commercial species that do not contain a saw log now or prospectively, primarily because of rot (such as when rot accounts for more than 50 percent of the total cull volume).
- Rough trees—(a) Live trees of commercial species that do not contain a saw log, now or prospectively, primarily because of roughness, poor form, splits, and cracks, and with less than one-third of the gross tree volume in sound material; and (b) all live trees of noncommercial species.
- Roundwood equivalent—The volume of logs or other round products required to produce the lumber, plywood, woodpulp, paper, or other similar products.
- Roundwood logs—Logs, bolts, or other round sections cut from trees.
- Salvable dead trees—Standing or down dead trees that are considered currently or potentially merchantable by regional standards.
- Saplings—Live trees of commercial species 1.0 inch to 5.0 inches d.b.h. and of good form and vigor.

- Sapling and seedling stands—Stands at least 10 percent occupied with growing stock trees of which more than half of the stocking is saplings and/or seedlings.
- Saw log—A log meeting minimum standards of diameter, length, and defect, including logs at least 8 feet long, sound and straight, and with a minimum diameter inside bark for softwoods of 6 inches (8 inches for hardwoods) or other combinations of size and defect specified by regional standards.
- Saw log portion—That part of the bole of sawtimber trees between the stump and the saw log top.
- Saw log top—The point on the bole of sawtimber trees above which a saw log cannot be produced. The minimum saw log top is 7.0 inches diameter outside bark (d.o.b.) for softwoods, and 9.0 inches d.o.b. for hardwoods.
- Sawtimber stands—Stands at least 10 percent occupied 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 commercial species containing at least one 12-foot saw log or two noncontiguous 8-foot logs, and meeting regional specifications for freedom from defect. Softwood trees must be at least 9 inches d.b.h. and hardwood trees 11 inches d.b.h.
- Sawtimber volume—Net volume of the saw log portion of live sawtimber trees in board feet.
- Seedlings—Established live trees of commercial species less than 1.0 inch d.b.h. and of good form and vigor.
- Softwoods—Monocotyledonous trees, usually evergreen, having needle or scalelike leaves.
- Special interest areas—Areas described in the Environmental Policy Act of 1970 that include (1) cultural areas—historic or prehistoric sites and places of obvious future historical value, and (2) natural areas—outstanding examples of the Nation's geological and ecological features.
- Standard error—An expression of the degree of confidence that can be placed on an estimated total or average obtained by statistical sampling methods. Sampling errors do not include technique errors that could occur in photo classification of areas, measurement of volume, or compilation of data.
- Stand improvement—Measures such as thinning, pruning, release cutting, girdling, weeding, or poisoning of unwanted trees aimed at improving growing conditions for the remaining trees.
- Stand-size classes—A classification of forest land based on the predominant size of timber present. See Poletimber stands, Sapling and seedling stands, and Sawtimber stands.
- State, county, and municipal lands—Lands owned by States, counties, and local public agencies, or lands leased by these governmental units for more than 50 years.
- Stocking—Stocking is an expression of 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. 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 this 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 less than full-site occupancy. Overstocking is characterized by sites with 133 percent or more 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, and are summarized into the following area condition classes:

Class 10—Areas fully stocked (100 to 132 percent) with desirable trees and not overstocked (133 percent or more).

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

Class 30—Areas medium to fully stocked (60 to 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 to 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.

Upper-stem portion—That part of the main stem or fork 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 main stem or fork breaks into limbs.

Urban and other areas—Areas within the legal boundaries of cities and towns; suburban areas developed for residential, industrial, or recreational purposes; school yards; cemeteries; roads; railroads; airports; beaches; powerlines and other rights-of-way; or other nonforest land not included in any other specified land use class.

Water—Census definition: 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.

Forest Survey definition: Same as above except minimum width of streams, etc., is 120 feet, and minimum size of lakes, etc., is 1 acre.

Wilderness—An area of undeveloped Federal land retaining its primeval character and influence, without permanent improvements or human habitation, which is protected and managed so as to preserve its natural conditions and which (1) generally appears to have been affected primarily by the forces of nature, with the imprint of man’s work substantially unnoticeable; (2) has outstanding opportunities for solitude or a primitive and unconfined type of recreation; (3) has at least 5,000 acres of land or is of sufficient size as to make practicable its preservation and use in an unimpaired condition; and (4) may also contain ecological, geological, or other features of scientific, educational, scenic, or historic value (from Wilderness Act 1964).

APPENDIX II
Tables of Forest Statistics

Table 11.--Area of commercial timberland by State and productivity class,
 1977

State	Productivity class			All classes
	85+	50-84	20-49	
- - - - - <i>Thousand acres</i> - - - - -				
Northern Rocky Mountain States:				
North Idaho	4,563.2	2,419.8	733.9	7,716.9
South Idaho	529.1	2,076.2	3,218.4	5,823.7
Total	5,092.3	4,496.0	3,952.3	13,540.6
Western Montana	4,509.1	2,779.0	2,108.0	9,396.1
Eastern Montana	453.9	1,615.0	2,894.4	4,963.3
Total	4,963.0	4,394.0	5,002.4	14,359.4
Western South Dakota	5.1	136.2	1,102.8	1,244.1
Wyoming	143.5	1,430.0	2,760.7	4,334.2
Total, Northern Rocky Mountain States	10,203.9	10,456.2	12,818.2	33,478.3
Southern Rocky Mountain States:				
Arizona	173.0	1,186.2	2,536.4	3,895.6
Colorado	365.2	2,608.6	8,340.9	11,314.7
Nevada	15.9	29.3	89.1	134.3
New Mexico	172.8	1,480.3	3,884.4	5,537.5
Utah	90.2	651.7	2,409.4	3,151.3
Total, Southern Rocky Mountain States	817.1	5,956.1	17,260.2	24,033.4
Total, all Rocky Mountain States	11,021.0	16,412.3	30,078.4	57,511.7

Table 12.--Area of commercial timberland by State, productivity class, and ownership class, 1977

State and productivity class	Ownership class				Total
	National Forest	Other public	Forest industry	Other private	
- - - - - <i>Thousand acres</i> - - - - -					
Northern Rocky Mountain States:					
North Idaho					
20-49	258.1	114.0	56.7	305.1	733.9
50-84	1,074.1	283.2	310.4	752.1	2,419.8
85+	2,880.5	520.8	410.5	751.4	4,563.2
Total	4,212.7	918.0	777.6	1,808.6	7,716.9
South Idaho					
20-49	2,972.7	132.1	40.4	73.2	3,218.4
50-84	1,628.6	230.5	85.9	131.2	2,076.2
85+	339.2	86.0	42.8	61.1	529.1
Total	4,940.5	448.6	169.1	265.5	5,823.7
Western Montana					
20-49	344.5	480.0	419.4	864.1	2,108.0
50-84	1,201.8	388.2	473.1	715.9	2,779.0
85+	4,095.6	100.6	148.5	164.4	4,509.1
Total	5,641.9	968.8	1,041.0	1,744.4	9,396.1
Eastern Montana					
20-49	885.5	545.7	13.6	1,449.6	2,894.4
50-84	1,180.5	117.7	.8	316.0	1,615.0
85+	453.9	--	--	--	453.9
Total	2,519.9	663.4	14.4	1,765.6	4,963.3
Western South Dakota					
20-49	842.7	71.1	13.2	175.8	1,102.8
50-84	104.7	5.1	2.9	23.5	136.2
85+	5.1	--	--	--	5.1
Total	952.5	76.2	16.1	199.3	1,244.1
Wyoming					
20-49	1,663.5	318.6	49.9	728.7	2,760.7
50-84	1,271.8	94.5	3.7	60.0	1,430.0
85+	109.4	21.3	.7	12.1	143.5
Total	3,044.7	434.4	54.3	800.8	4,334.2
Total, Northern Rocky Mountain States:					
20-49	6,967.0	1,661.5	593.2	3,596.5	12,818.2
50-84	6,461.5	1,119.2	876.8	1,998.7	10,456.2
85+	7,883.7	728.7	602.5	989.0	10,203.9
Total	21,312.2	3,509.4	2,072.5	6,584.2	33,478.3

Table 12 (cont.)

State and productivity class	Ownership class				Total
	National Forest	Other public	Forest industry	Other private	
Southern Rocky Mountain States:					
Arizona					
20-49	1,847.0	606.4	0	83.0	2,536.4
50-84	553.6	551.9	0	80.7	1,186.2
85+	60.9	109.5	0	2.6	173.0
Total	2,461.5	1,267.8	0	166.3	3,895.6
Colorado					
20-49	4,826.2	626.4	13.6	2,874.7	8,340.9
50-84	2,392.4	48.7	.8	166.7	2,608.6
85+	287.2	15.4	.3	62.3	365.2
Total	7,505.8	690.5	14.7	3,103.7	11,314.7
Nevada					
20-49	51.5	2.6	4.8	30.2	89.1
50-84	7.4	1.5	2.4	18.0	29.3
85+	2.2	.5	1.1	12.1	15.9
Total	61.1	4.6	8.3	60.3	134.3
New Mexico					
20-49	2,076.5	600.8	0	1,207.1	3,884.4
50-84	681.2	180.7	0	618.4	1,480.3
85+	60.6	10.6	0	101.6	172.8
Total	2,818.3	792.1	0	1,927.1	5,537.5
Utah					
20-49	1,910.4	224.8	0	274.2	2,409.4
50-84	342.2	113.9	0	195.6	651.7
85+	24.4	22.8	0	43.0	90.2
Total	2,277.0	361.5	0	512.8	3,151.3
Total, Southern Rocky Mountain States:					
20-49	10,711.6	2,061.0	18.4	4,469.2	17,260.2
50-84	3,976.8	896.7	3.2	1,079.4	5,956.1
85+	435.3	158.8	1.4	221.6	817.1
Total	15,123.7	3,116.5	23.0	5,770.2	24,033.4
Total, Rocky Mountain States:					
20-49	17,678.6	3,722.5	611.6	8,065.7	30,078.4
50-84	10,438.3	2,015.9	880.0	3,078.1	16,412.3
85+	8,319.0	887.5	603.9	1,210.6	11,021.0
Total	36,435.9	6,625.9	2,095.5	12,354.4	57,511.7

Table 13.--Area of commercial timberland in north Idaho by owner group, forest type, stand-size class, and productivity class, 1977

Forest type and stand-size class	National Forest										Other public			
	Productivity class										Productivity class			
	165+	120-164	85-119	50-84	20-49	Total	165+	120-164	85-119	50-84	20-49	Total		
----- Thousand acres -----														
Douglas-fir:														
Sawtimber	47.7	141.0	164.2	154.2	28.9	536.0	6.6	24.6	59.2	84.8	32.3	207.5		
Poletimber	10.2	17.5	69.2	54.7	4.2	155.8	--	--	12.3	5.7	--	18.0		
Sapling and seedling	17.4	22.2	99.1	13.3	19.4	171.4	6.5	--	25.4	5.7	6.5	37.6		
Nonstocked	--	.4	45.2	--	--	45.6	--	--	--	--	9.4	9.4		
Total	75.3	181.1	377.7	222.2	52.5	908.8	6.6	24.6	96.9	96.2	48.2	272.5		
Hemlock:														
Sawtimber	--	47.4	120.0	32.3	15.0	214.7	--	--	26.5	--	--	26.5		
Poletimber	--	41.8	4.9	20.1	5.3	72.1	--	--	--	--	5.7	5.7		
Sapling and seedling	--	37.4	7.1	31.5	--	76.0	--	--	--	5.8	--	5.8		
Nonstocked	--	.8	--	5.3	--	6.1	--	--	--	--	6.2	6.2		
Total	--	127.4	132.0	89.2	20.3	368.9	--	--	26.5	5.8	11.9	44.2		
Ponderosa pine:														
Sawtimber	1.7	7.9	41.4	24.1	11.1	86.2	--	8.9	29.5	28.9	13.7	81.0		
Poletimber	--	--	.4	3.2	2.6	6.2	--	--	9.6	--	--	9.6		
Sapling and seedling	--	--	.1	6.1	.1	6.3	--	--	--	7.2	--	7.2		
Nonstocked	--	--	--	--	--	--	--	--	--	--	2.0	2.0		
Total	1.7	7.9	41.9	33.4	13.8	98.7	--	8.9	39.1	36.1	15.7	99.8		
White pine:														
Sawtimber	25.4	34.5	16.7	3.7	--	80.3	--	26.3	27.0	--	--	53.3		
Poletimber	--	8.3	14.0	12.1	6.6	41.0	--	--	--	--	--	--		
Sapling and seedling	--	--	1.9	--	--	1.9	--	12.3	--	--	--	12.3		
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--		
Total	25.4	42.8	32.6	15.8	6.6	123.2	--	38.6	27.0	--	--	65.6		
Lodgepole pine:														
Sawtimber	9.3	56.3	85.5	76.9	12.4	240.4	--	--	--	--	--	--		
Poletimber	2.0	53.1	100.9	79.9	47.1	283.0	--	--	--	6.5	7.3	13.8		
Sapling and seedling	--	2.5	6.4	58.8	26.1	93.8	--	--	--	--	3.5	3.5		
Nonstocked	--	--	--	3.8	--	3.8	--	--	--	--	--	--		
Total	11.3	111.9	192.8	219.4	85.6	621.0	--	--	--	6.5	10.8	17.3		
Larch:														
Sawtimber	7.8	35.5	92.0	24.4	13.7	173.4	--	11.8	--	--	--	11.8		
Poletimber	.1	9.6	65.3	68.4	--	143.4	--	--	--	--	12.3	12.3		
Sapling and seedling	--	24.2	52.7	73.5	6.8	157.2	--	--	--	--	--	--		
Nonstocked	--	.2	.5	5.8	--	6.5	--	--	--	--	--	--		
Total	7.9	69.5	210.5	172.1	20.5	480.5	--	11.8	--	--	12.3	24.1		
Western redcedar:														
Sawtimber	61.3	108.7	52.5	5.9	--	228.4	--	8.6	33.2	26.0	8.6	76.4		
Poletimber	--	2.7	1.3	.9	--	4.9	--	--	--	7.3	--	7.3		
Sapling and seedling	--	2.0	8.4	--	--	10.4	--	--	6.5	--	--	6.5		
Nonstocked	--	--	2.8	--	--	2.8	--	--	--	--	--	--		
Total	61.3	113.4	65.0	6.8	--	246.5	--	8.6	39.7	33.3	8.6	90.2		

Whitebark-limber pine:												
Sawtimber	--	.1	1.4	.2	1.7	--	--	--	--	--	--	--
Poletimber	--	--	7.8	--	7.8	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	.1	9.2	.2	9.5	--	--	--	--	--	--	--
True firs:												
Sawtimber	94.9	189.8	315.6	189.3	38.8	828.4	--	41.8	123.6	89.3	6.5	261.2
Poletimber	--	98.5	61.8	41.7	4.5	206.5	--	--	--	--	--	--
Sapling and seedling	6.7	97.1	37.6	26.6	7.6	175.6	--	10.2	11.2	9.1	--	30.5
Nonstocked	--	--	3.1	23.9	--	27.0	--	--	--	--	--	--
Total	101.6	385.4	418.1	281.5	50.9	1,237.5	--	52.0	134.8	98.4	6.5	291.7
Fir-spruce:												
Sawtimber	--	31.7	32.1	13.8	7.7	85.3	--	5.7	--	--	--	5.7
Poletimber	--	1.7	6.0	10.7	--	18.4	--	--	--	--	--	--
Sapling and seedling	--	.4	12.0	--	--	12.4	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	33.8	50.1	24.5	7.7	116.1	--	5.7	--	--	--	5.7
Other softwoods:												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--
Aspen:												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--
Cottonwood:												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods:												
Sawtimber	--	--	2.0	--	--	2.0	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	6.9	--	6.9
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	2.0	--	--	2.0	--	--	--	6.9	--	6.9
All forest types:												
Sawtimber	248.1	652.8	922.1	526.0	127.8	2,476.8	6.6	127.7	299.0	229.0	61.1	723.4
Poletimber	12.3	233.2	323.8	299.5	70.3	939.1	--	--	21.9	19.5	25.3	66.7
Sapling and seedling	24.1	185.8	225.3	209.8	60.0	705.0	--	22.5	43.1	27.8	10.0	103.4
Nonstocked	--	1.4	51.6	38.8	--	91.8	--	--	--	6.9	17.6	24.5
Total	284.5	1,073.2	1,522.8	1,074.1	258.1	4,212.7	6.6	150.2	364.0	283.2	114.0	918.0

Table 13 (con.)

Forest type and stand-size class	Forest industry					Other private						
	Productivity class					Productivity class						
	165+	120-164	85-119	50-84	20-49	Total	165+	120-164	85-119	50-84	20-49	Total
----- <i>Thousand acres</i> -----												
Douglas-fir:												
Sawtimber	15.4	50.2	29.3	47.0	6.2	148.1	10.7	27.8	171.4	207.7	27.8	445.4
Poletimber	--	--	--	--	6.5	6.5	--	--	--	--	6.6	6.6
Sapling and seedling	--	--	7.7	14.2	21.9	21.9	--	--	15.0	48.9	6.9	70.8
Nonstocked	--	--	--	19.5	--	19.5	--	--	6.9	33.5	9.0	49.4
Total	15.4	50.2	37.0	80.7	12.7	196.0	10.7	27.8	193.3	290.1	50.3	572.2
Hemlock:												
Sawtimber	--	6.1	--	6.2	6.0	18.3	--	9.3	9.0	--	20.4	38.7
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	12.4	--	--	6.5	18.9
Nonstocked	--	--	--	--	--	--	--	9.0	--	--	--	9.0
Total	--	6.1	--	6.2	6.0	18.3	--	30.7	9.0	--	26.9	66.6
Ponderosa pine:												
Sawtimber	--	8.2	1.0	25.3	.9	35.4	--	7.3	68.4	139.0	43.0	257.7
Poletimber	--	--	--	--	--	--	--	10.8	--	--	--	10.8
Sapling and seedling	--	--	--	--	6.5	6.5	--	--	--	7.7	--	7.7
Nonstocked	--	--	--	--	--	--	--	--	6.9	31.5	29.7	68.1
Total	--	8.2	1.0	25.3	7.4	41.9	--	18.1	75.3	178.2	72.7	344.3
White pine:												
Sawtimber	--	30.7	9.8	9.8	--	50.3	--	7.6	13.1	--	--	20.7
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	9.0	--	9.0
Nonstocked	--	--	--	--	--	--	--	--	--	--	6.5	6.5
Total	--	30.7	9.8	9.8	--	50.3	--	7.6	13.1	9.0	6.5	36.2
Lodgepole pine:												
Sawtimber	--	6.0	--	--	--	6.0	--	--	6.2	24.7	--	30.9
Poletimber	--	--	--	--	--	--	6.2	--	12.2	33.4	12.9	64.7
Sapling and seedling	--	--	--	--	--	--	--	--	17.6	--	19.1	36.7
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	6.0	--	--	--	6.0	6.2	--	36.0	58.1	32.0	132.3
Larch:												
Sawtimber	--	19.8	9.4	--	--	29.2	13.1	58.7	21.5	15.3	--	108.6
Poletimber	--	--	--	--	--	--	--	--	9.8	22.1	--	31.9
Sapling and seedling	--	--	--	--	--	--	--	--	8.4	16.5	--	24.9
Nonstocked	--	--	--	--	--	--	--	--	--	13.0	--	13.0
Total	--	19.8	9.4	--	--	29.2	13.1	58.7	39.7	66.9	--	178.4
Western redcedar:												
Sawtimber	15.3	6.2	28.5	35.0	22.9	107.9	6.2	15.0	32.3	38.5	8.7	100.7
Poletimber	--	--	--	--	--	--	--	--	7.3	--	6.2	13.5
Sapling and seedling	--	--	--	7.7	--	7.7	--	6.2	7.3	--	--	13.5
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	15.3	6.2	28.5	42.7	22.9	115.6	6.2	21.2	46.9	38.5	14.9	127.7

Whitebark-limber pine:												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--
True firs:												
Sawtimber	34.4	83.4	131.1	7.7	256.6	--	31.7	86.5	66.2	46.7	231.1	13.0
Poletimber	--	--	6.9	--	6.9	--	7.3	--	--	--	7.3	--
Sapling and seedling	9.9	25.3	7.7	--	42.9	--	--	6.2	25.8	10.3	36.1	6.2
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	44.3	108.7	145.7	7.7	306.4	--	39.0	92.7	92.0	57.0	280.7	19.5
Fir-spruce:												
Sawtimber	--	7.7	--	--	7.7	--	6.1	--	6.9	--	--	13.0
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	6.5	6.5	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	7.7	--	--	7.7	--	6.1	--	6.9	6.5	19.5	--
Other softwoods:												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--
Aspen:												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	6.2	6.2	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	6.2	6.2	--
Cottonwood:												
Sawtimber	--	6.2	--	--	6.2	--	--	--	6.2	--	6.2	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	6.2	--	6.2	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	6.2	--	--	6.2	--	--	--	12.4	--	12.4	--
Other hardwoods:												
Sawtimber	--	--	--	--	--	--	--	--	--	7.3	7.3	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	24.8	24.8	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	32.1	32.1	--
All forest types:												
Sawtimber	30.7	161.6	175.3	254.4	43.7	665.7	30.0	163.5	504.5	153.9	1,260.3	13.0
Poletimber	--	--	--	6.9	6.5	13.4	6.2	18.1	55.5	25.7	134.8	--
Sapling and seedling	--	9.9	33.0	29.6	6.5	79.0	--	18.6	114.1	80.3	261.3	--
Nonstocked	--	--	--	19.5	--	19.5	--	9.0	78.0	45.2	152.2	--
Total	30.7	171.5	208.3	310.4	56.7	777.6	36.2	209.2	752.1	305.1	1,808.6	13.0

Table 14.--Area of commercial timberland in south Idaho by owner group, forest type, stand-size class, and productivity class, 1977

Forest type and stand-size class	National Forest					Other public						
	Productivity class					Productivity class						
	165+	120-164	85-119	50-84	20-49	Total	165+	120-164	85-119	50-84	20-49	Total
----- Thousand acres -----												
Douglas-fir:												
Sawtimber	2.6	15.4	124.0	732.3	919.1	1,793.4	--	8.4	28.6	124.4	54.2	215.6
Poetimber	--	--	--	15.0	70.6	85.6	--	--	--	--	4.1	4.1
Sapling and seedling	--	2.2	--	14.1	61.3	77.6	--	3.5	1.2	--	3.0	7.7
Nonstocked	--	--	--	16.1	61.4	77.5	--	--	--	4.1	2.7	6.8
Total	2.6	17.6	124.0	777.5	1,112.4	2,034.1	--	11.9	29.8	128.5	64.0	234.2
Hemlock:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poetimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Ponderosa pine:												
Sawtimber	--	11.8	65.7	285.5	287.8	650.8	--	2.8	25.6	54.7	13.2	96.3
Poetimber	--	.1	.6	3.6	4.0	8.3	--	--	--	3.6	--	3.6
Sapling and seedling	--	--	--	16.5	26.1	42.6	--	--	--	6.6	3.4	10.0
Nonstocked	--	--	--	8.5	42.6	51.1	--	--	--	--	3.3	3.3
Total	--	11.9	66.3	314.1	360.5	752.8	--	2.8	25.6	64.9	19.9	113.2
White pine:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poetimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Lodgepole pine:												
Sawtimber	--	--	4.4	140.9	434.7	580.0	--	--	3.6	7.7	14.4	25.7
Poetimber	--	--	--	26.2	455.5	481.7	--	--	--	7.1	14.9	22.0
Sapling and seedling	--	--	--	1.9	145.7	147.6	--	--	--	--	--	--
Nonstocked	--	--	--	--	52.1	52.1	--	--	--	--	--	--
Total	--	--	4.4	169.0	1,088.0	1,261.4	--	--	3.6	14.8	29.3	47.7
Larch:												
Sawtimber	.1	.1	.5	4.2	.6	5.5	--	--	--	--	--	--
Poetimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	.6	.6	.6	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	.1	.1	.5	4.2	1.2	6.1	--	--	--	--	--	--
Western redcedar:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poetimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0

Whitebark-limber pine:												
Sawtimber	--	--	4.3	19.3	23.6	--	--	--	--	--	--	--
Poletimber	--	--	--	11.8	11.8	--	--	--	--	--	--	--
Sapling and seedling	--	--	1.9	4.3	6.2	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	6.2	35.4	41.6	--	--	--	--	--	--	--
True firs:												
Sawtimber	2.9	7.9	27.2	259.9	213.0	510.9	--	3.2	7.6	11.8	3.0	25.6
Poletimber	--	--	--	14.3	24.6	38.9	--	--	--	--	--	--
Sapling and seedling	--	--	2.1	6.8	26.4	35.3	--	--	1.5	2.8	--	4.3
Nonstocked	--	--	--	--	9.6	9.6	--	--	--	--	--	--
Total	2.9	7.9	29.3	281.0	273.6	594.7	--	3.2	9.1	14.6	3.0	29.9
Fir-spruce:												
Sawtimber	--	7.9	63.7	56.8	39.8	168.2	--	--	--	--	--	--
Poletimber	--	--	--	--	2.5	2.5	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	1.2	1.2	--	--	--	--	--	--
Nonstocked	--	--	--	--	5.0	5.0	--	--	--	--	--	--
Total	--	7.9	63.7	56.8	48.5	176.9	--	--	--	--	--	--
Other softwoods:												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--
Aspen:												
Sawtimber	--	--	6.3	16.7	23.0	--	--	--	--	--	--	--
Poletimber	--	--	3.9	21.0	24.9	--	--	--	--	--	8.2	8.2
Sapling and seedling	--	--	7.7	15.4	23.1	--	--	--	4.1	--	--	4.1
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	17.9	53.1	71.0	--	--	--	4.1	8.2	--	12.3
Cottonwood:												
Sawtimber	--	--	1.9	--	1.9	--	--	--	3.6	3.6	3.6	7.2
Poletimber	--	--	--	--	--	--	--	--	--	--	4.1	4.1
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	1.9	--	1.9	--	--	--	3.6	7.7	--	11.3
Other hardwoods:												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--
All forest types:												
Sawtimber	5.6	43.1	285.5	1,492.1	1,931.0	3,757.3	--	14.4	65.4	202.2	88.4	370.4
Poletimber	--	.1	.6	63.0	590.0	653.7	--	--	--	10.7	31.3	42.0
Sapling and seedling	--	2.2	2.1	48.9	281.0	334.2	--	3.5	2.7	13.5	6.4	26.1
Nonstocked	--	--	--	24.6	170.7	195.3	--	--	--	4.1	6.0	10.1
Total	5.6	45.4	288.2	1,628.6	2,972.7	4,940.5	--	17.9	68.1	230.5	132.1	448.6

Table 14 (con.)

Forest type and stand-size class	Forest industry					Other private						
	Productivity class					Productivity class						
	165+	120-164	85-119	50-84	20-49	Total	165+	120-164	85-119	50-84	20-49	Total
----- <i>Thousand acres</i> -----												
Douglas-fir:												
Sawtimber	--	4.0	13.2	44.7	17.3	79.2	--	5.6	18.3	67.7	28.3	119.9
Poletimber	--	--	--	--	.5	.5	--	--	--	--	2.5	2.5
Sapling and seedling	--	1.1	1.4	--	1.3	3.8	--	1.7	1.8	--	1.8	5.3
Nonstocked	--	--	--	.6	1.3	1.9	--	--	--	2.4	1.9	4.3
Total	--	5.1	14.6	45.3	20.4	85.4	--	7.3	20.1	70.1	34.5	132.0
Hemlock:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Ponderosa pine:												
Sawtimber	--	1.3	9.9	21.5	5.4	38.1	--	1.8	15.4	29.7	7.4	54.3
Poletimber	--	--	--	1.3	--	1.3	--	--	--	1.8	--	1.8
Sapling and seedling	--	--	--	2.7	1.1	3.8	--	--	--	3.7	1.7	5.4
Nonstocked	--	--	--	--	1.1	1.1	--	--	--	--	1.7	1.7
Total	--	1.3	9.9	25.5	7.6	44.3	--	1.8	15.4	35.2	10.8	63.2
White pine:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Lodgepole pine:												
Sawtimber	--	--	1.3	1.9	5.4	8.6	--	--	1.8	4.3	7.5	13.6
Poletimber	--	--	--	1.9	2.9	4.8	--	--	--	4.4	9.3	13.7
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	1.3	3.8	8.3	13.4	--	--	1.8	8.7	16.8	27.3
Larch:												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--
Western redcedar:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0

Whitebark-limber pine:												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--
True firs:												
Sawtimber	1.4	8.1	8.0	1.3	18.8	--	1.9	11.1	11.0	1.8	25.8	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	1.1	1.4	--	2.5	--	--	1.7	1.8	--	3.5	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	1.4	9.2	9.4	1.3	21.3	--	1.9	12.8	12.8	1.8	29.3	--
Fir-spruce:												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--
Other softwoods:												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--
Aspen:												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	.5	1.0	1.0	--	--	--	--	5.0	5.0	--
Sapling and seedling	--	--	--	--	.5	--	--	--	2.5	--	2.5	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	.5	1.0	1.5	--	--	--	2.5	5.0	7.5	--
Cottonwood:												
Sawtimber	--	--	1.4	1.3	2.7	--	--	--	1.9	1.8	3.7	--
Poletimber	--	--	--	.5	.5	--	--	--	--	2.5	2.5	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	1.4	1.8	3.2	--	--	--	1.9	4.3	6.2	--
Other hardwoods:												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--
All forest types:												
Sawtimber	6.7	32.5	77.5	30.7	147.4	--	9.3	46.6	114.6	46.8	217.3	--
Poletimber	--	--	3.2	4.9	8.1	--	--	--	6.2	19.3	25.5	--
Sapling and seedling	1.1	2.5	4.6	2.4	10.6	--	1.7	3.5	8.0	3.5	16.7	--
Nonstocked	--	--	.6	2.4	3.0	--	--	--	2.4	3.6	6.0	--
Total	7.8	35.0	85.9	40.4	169.1	--	11.0	50.1	131.2	73.2	265.5	--

Table 15.--Area of commercial timberland in western Montana by owner group, forest type, stand-size class, and productivity class, 1977

Forest type and stand-size class	National Forest					Other public						
	Productivity class					Productivity class						
	165+	120-164	85-119	50-84	20-49	Total	165+	120-164	85-119	50-84	20-49	Total
----- Thousand acres -----												
Douglas-fir:												
Sawtimber	.6	378.7	781.4	243.0	44.3	1,448.0	--	--	16.3	137.5	120.0	275.8
Poletimber	--	29.0	107.5	78.0	9.0	223.5	--	--	1.6	5.2	56.6	63.4
Sapling and seedling	--	18.2	89.5	32.1	16.4	156.2	--	--	--	11.2	.5	11.7
Nonstocked	--	1.4	30.0	10.3	2.2	43.9	--	--	--	.4	1.5	1.9
Total	.6	427.3	1,008.4	363.4	71.9	1,871.6	--	--	17.9	154.3	178.6	350.8
Hemlock:												
Sawtimber	.6	41.9	23.3	13.7	.5	80.0	--	--	.5	1.0	.5	2.0
Poletimber	--	2.7	--	.1	--	2.8	--	--	--	--	--	--
Sapling and seedling	--	--	2.6	--	--	2.6	--	--	--	--	--	--
Nonstocked	--	1.0	--	--	2.1	3.1	--	--	--	--	(1)	(1)
Total	.6	45.6	25.9	13.8	2.6	88.5	--	--	.5	1.0	.5	2.0
Ponderosa pine:												
Sawtimber	--	31.0	74.7	31.5	4.2	141.4	--	--	27.7	93.1	71.0	191.8
Poletimber	--	5.4	1.0	15.7	4.4	26.5	--	--	1.7	4.5	24.3	30.5
Sapling and seedling	--	2.7	9.8	1.1	--	13.6	--	--	--	6.3	6.3	6.3
Nonstocked	--	--	.7	1.8	1.7	4.2	--	--	--	.2	2.9	3.1
Total	--	39.1	86.2	50.1	10.3	185.7	--	--	29.4	97.8	104.5	231.7
White pine:												
Sawtimber	1.9	6.7	23.8	.4	--	32.8	--	--	1.7	.4	--	2.1
Poletimber	--	.6	.2	--	.1	.9	--	--	--	--	--	--
Sapling and seedling	--	--	.6	--	--	.6	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	1.9	7.3	24.6	.4	.1	34.3	--	--	1.7	.4	--	2.1
Lodgepole pine:												
Sawtimber	3.9	97.0	278.0	164.4	16.8	560.1	--	--	--	4.5	8.3	12.8
Poletimber	--	81.2	503.9	339.7	68.2	993.0	--	--	--	25.8	94.9	120.7
Sapling and seedling	--	33.9	57.7	60.6	20.0	172.2	--	--	--	--	51.5	51.5
Nonstocked	--	.3	7.8	3.2	--	11.3	--	--	--	.2	(1)	.2
Total	3.9	212.4	847.4	567.9	105.0	1,736.6	--	--	--	30.5	154.7	185.2
Larch:												
Sawtimber	22.6	170.2	65.2	11.5	.7	270.2	6.4	14.0	21.2	55.9	17.6	115.1
Poletimber	2.4	33.3	57.4	--	--	93.1	--	--	--	13.7	--	13.7
Sapling and seedling	1.1	28.5	65.2	1.3	--	96.1	--	--	--	2.7	--	2.7
Nonstocked	--	6.2	3.2	--	--	9.4	--	--	--	2.7	--	2.7
Total	26.1	238.2	191.0	12.8	.7	468.8	6.4	14.0	21.2	75.0	17.6	134.2
Western redcedar:												
Sawtimber	.6	36.4	30.9	--	--	67.9	--	--	1.1	1.4	.8	3.3
Poletimber	--	--	12.1	--	--	12.1	--	--	--	--	--	--
Sapling and seedling	--	2.4	7.1	--	--	9.5	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	.6	38.8	50.1	--	--	89.5	--	--	1.1	1.4	.8	3.3

Whitebark-limber pine:														
Sawtimber	--	--	7.7	18.9	16.0	--	--	42.6	--	--	.4	.6	.1	1.1
Poletimber	--	--	--	--	9.0	--	--	9.0	--	--	.4	.5	.3	1.2
Sapling and seedling	--	--	--	--	3.9	--	--	3.9	--	--	--	1.6	--	1.6
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	7.7	18.9	28.9	--	--	55.5	--	--	.8	2.7	.4	3.9
True firs:														
Sawtimber	4.5	121.1	314.3	107.3	75.0	--	--	622.2	--	--	1.6	4.0	3.3	8.9
Poletimber	--	33.0	66.2	23.4	34.8	--	--	157.4	--	--	(¹)	(¹)	.1	.1
Sapling and seedling	--	11.8	115.4	16.2	15.0	--	--	158.4	--	--	.3	.5	.4	1.2
Nonstocked	--	--	7.1	1.4	--	--	--	8.5	--	--	--	--	--	--
Total	4.5	165.9	503.0	148.3	124.8	--	--	946.5	--	--	1.9	4.5	3.8	10.2
Fir-spruce:														
Sawtimber	--	41.8	46.3	18.4	.2	--	1.0	106.7	--	4.7	4.7	18.5	12.5	36.7
Poletimber	--	5.0	2.3	5.5	--	--	--	12.8	--	(¹)	(¹)	.1	.2	.3
Sapling and seedling	--	29.9	11.1	1.2	--	--	--	42.2	--	--	--	.3	.5	.8
Nonstocked	--	--	2.1	--	--	--	--	2.1	--	--	--	.7	2.7	3.4
Total	--	76.7	61.8	25.1	.2	--	1.0	163.8	--	4.7	4.7	19.6	15.9	41.2
Other softwoods:														
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aspen:														
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	.2	.1	.3
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--	.2	.2
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	.2	.3	.5
Cottonwood:														
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	.5	2.0	2.5
Poletimber	--	--	--	--	--	--	--	--	--	--	--	.1	.2	.3
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	.6	2.2	2.8
Other hardwoods:														
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	(¹)	.1	.1
Poletimber	--	--	--	1.1	--	--	--	1.1	--	--	--	.1	.2	.3
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	.1	.4	.5
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	1.1	--	--	--	1.1	--	--	--	.2	.7	.9
All forest types:														
Sawtimber	34.7	924.8	1,645.6	609.1	157.7	6.4	15.0	3,371.9	6.4	75.2	317.4	236.2	650.2	
Poletimber	2.4	190.2	750.6	463.5	125.5	--	--	1,532.2	--	3.7	50.2	176.9	230.8	
Sapling and seedling	1.1	127.4	359.0	112.5	55.3	--	--	655.3	--	.3	16.4	59.8	76.5	
Nonstocked	--	8.9	50.9	16.7	6.0	--	--	82.5	--	--	4.2	7.1	11.3	
Total	38.2	1,251.3	2,806.1	1,201.8	344.5	6.4	15.0	5,641.9	6.4	79.2	388.2	480.0	968.8	

¹Less than 0.05 thousand acres.

Table 15 (con.)

Forest type and stand-size class	Forest industry						Other private					
	Productivity class			Total	Productivity class			Total	Productivity class			Total
	120-164	85-119	50-84		20-49	165+	120-164		85-119	50-84	20-49	
----- <i>Thousand acres</i> -----												
Douglas-fir:												
Sawtimber	--	14.2	118.0	100.7	232.9	--	--	--	25.5	210.6	179.9	416.0
Poletimber	--	1.3	3.4	38.5	43.2	--	--	--	4.5	13.9	150.8	169.2
Sapling and seedling	--	--	5.4	--	5.4	--	--	--	--	31.7	--	31.7
Nonstocked	--	--	.4	1.2	1.6	--	--	--	--	1.1	3.9	5.0
Total	--	15.5	127.2	140.4	283.1	--	--	30.0	257.3	334.6	621.9	
Hemlock:												
Sawtimber	--	.9	1.8	.8	3.5	--	--	.1	.1	.1	(¹)	.2
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	.3	.3
Total	--	.9	1.8	.8	3.5	--	--	.1	.1	.1	.3	.5
Ponderosa pine:												
Sawtimber	--	60.3	200.4	139.4	400.1	--	--	47.0	156.6	108.8	312.4	
Poletimber	--	1.1	3.0	14.7	18.8	--	--	3.5	9.2	46.4	59.1	
Sapling and seedling	--	--	--	1.6	1.6	--	--	--	--	9.1	9.1	
Nonstocked	--	--	.3	4.0	4.3	--	--	--	.4	5.8	6.2	
Total	--	61.4	203.7	159.7	424.8	--	--	50.5	166.2	170.1	386.8	
White pine:												
Sawtimber	--	6.2	1.5	--	7.7	--	--	(¹)	(¹)	--	--	(¹)
Poletimber	--	4.8	1.2	--	6.0	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	.5	.5	1.0	--	--	--	--	--	--	--
Total	--	11.0	3.2	.5	14.7	--	--	(¹)	(¹)	--	--	(¹)
Lodgepole pine:												
Sawtimber	--	--	2.1	3.4	5.5	--	--	--	13.3	22.2	35.5	
Poletimber	--	--	17.5	64.7	82.2	--	--	--	52.6	193.4	246.0	
Sapling and seedling	--	--	--	17.1	17.1	--	--	--	--	61.7	61.7	
Nonstocked	--	--	1.5	.4	1.9	--	--	--	4.5	1.1	5.6	
Total	--	--	21.1	85.6	106.7	--	--	--	70.4	278.4	348.8	
Larch:												
Sawtimber	8.1	17.9	26.9	71.3	146.7	11.5	25.6	38.6	102.0	32.3	210.0	
Poletimber	--	--	--	20.4	20.4	--	--	--	64.4	--	64.4	
Sapling and seedling	--	--	--	3.4	3.4	--	--	--	14.3	--	14.3	
Nonstocked	--	--	--	1.5	1.5	--	--	--	1.2	--	1.2	
Total	8.1	17.9	26.9	96.6	172.0	11.5	25.6	38.6	181.9	32.3	289.9	
Western redcedar:												
Sawtimber	--	--	1.6	2.0	4.7	--	--	.2	.2	.1	.5	
Poletimber	--	--	--	--	--	--	--	.1	.1	(¹)	.2	
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	
Total	--	--	1.6	2.0	4.7	--	--	.3	.3	.1	.7	

Whitebark-limber pine:												
Sawtimber	--	2.5	3.2	.8	6.5	--	--	--	.4	.6	.1	1.1
Poletimber	--	1.4	2.3	1.2	4.9	--	--	--	(1)	(1)	(1)	(1)
Sapling and seedling	--	--	6.2	--	6.2	--	--	--	--	--	--	--
Nonstocked	--	--	(1)	--	(1)	--	--	--	--	.2	--	.2
Total	--	3.9	11.7	2.0	17.6	--	--	--	.4	.8	.1	1.3
True firs:												
Sawtimber	--	--	.3	(1)	.3	--	--	--	.7	6.0	1.7	8.4
Poletimber	--	.1	.2	.2	.5	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	.1	.5	.2	.8	--	--	--	.7	6.0	1.7	8.4
Fir-spruce:												
Sawtimber	--	.2	1.0	2.6	7.7	--	1.2	5.4	21.1	14.2	41.9	41.9
Poletimber	--	(1)	.1	.4	.5	--	--	.1	1.2	4.2	5.5	5.5
Sapling and seedling	--	--	--	--	--	--	--	--	--	.1	(1)	.1
Nonstocked	--	--	(1)	--	(1)	--	--	--	--	--	.2	.2
Total	--	.2	1.0	3.0	8.2	--	1.2	5.5	22.4	18.6	47.7	47.7
Other softwoods:												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--
Aspen:												
Sawtimber	--	--	--	--	--	--	--	--	--	.2	.4	.6
Poletimber	--	--	--	--	--	--	--	--	--	1.1	3.0	4.1
Sapling and seedling	--	--	--	--	--	--	--	--	--	.3	.7	1.0
Nonstocked	--	--	(1)	.1	.1	--	--	--	--	.1	.1	.2
Total	--	--	(1)	.1	.1	--	--	--	--	1.7	4.2	5.9
Cottonwood:												
Sawtimber	--	--	.3	.7	1.0	--	--	--	--	7.4	19.7	27.1
Poletimber	--	--	--	--	--	--	--	--	--	.4	1.1	1.5
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	.1	.1
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	.3	.7	1.0	--	--	--	--	7.8	20.9	28.7
Other hardwoods:												
Sawtimber	--	--	.4	1.2	1.6	--	--	--	--	.4	1.3	1.7
Poletimber	--	--	.3	.8	1.1	--	--	--	--	.3	.8	1.1
Sapling and seedling	--	--	.3	.8	1.1	--	--	--	--	.3	.7	1.0
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	1.0	2.8	3.8	--	--	--	--	1.0	2.8	3.8
All forest types:												
Sawtimber	8.1	18.1	113.6	273.2	818.2	11.5	26.8	117.9	518.5	380.7	1,055.4	1,055.4
Poletimber	--	--	8.7	120.5	177.6	--	--	8.2	143.2	399.7	551.1	551.1
Sapling and seedling	--	--	--	19.5	34.8	--	--	--	46.7	72.3	119.0	119.0
Nonstocked	--	--	--	4.2	10.4	--	--	--	7.5	11.4	18.9	18.9
Total	8.1	18.1	122.3	473.1	1,041.0	11.5	26.8	126.1	715.9	864.1	1,744.4	1,744.4

¹Less than 0.05 thousand acres.

Table 16.--Area of commercial timberland in eastern Montana by owner group, forest type, stand-size class, and productivity class, 1977

Forest type and stand-size class	National Forest						Other public				
	Productivity class						Productivity class				
	165+	120-164	85-119	50-84	20-49	Total	165+	120-164	85-119	50-84	Total
----- Thousand acres -----											
Douglas-fir:											
Sawtimber	--	--	135.7	288.0	161.7	585.4	--	--	--	40.9	95.1
Poletimber	--	.9	2.1	61.5	20.2	84.7	--	--	--	4.7	50.6
Sapling and seedling	--	--	1.2	10.2	18.7	30.1	--	--	--	--	11.0
Nonstocked	--	--	8.9	2.2	.2	11.3	--	--	--	--	--
Total	--	.9	147.9	361.9	200.8	711.5	--	--	--	45.6	156.7
Hemlock:											
Sawtimber	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0
Ponderosa pine:											
Sawtimber	--	--	--	25.3	102.6	127.9	--	--	--	20.6	152.7
Poletimber	--	--	--	12.0	4.5	16.5	--	--	--	--	49.4
Sapling and seedling	--	--	--	3.9	5.4	9.3	--	--	--	--	33.4
Nonstocked	--	--	--	--	.6	.6	--	--	--	--	21.9
Total	--	--	--	41.2	113.1	154.3	--	--	--	20.6	257.4
White pine:											
Sawtimber	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0
Lodgepole pine:											
Sawtimber	--	--	211.4	347.6	153.6	712.6	--	--	--	9.7	31.8
Poletimber	--	--	50.0	217.9	216.8	484.7	--	--	--	11.1	44.5
Sapling and seedling	--	--	7.0	80.4	67.9	155.3	--	--	--	--	15.6
Nonstocked	--	--	--	2.6	8.2	10.8	--	--	--	--	--
Total	--	--	268.4	648.5	446.5	1,363.4	--	--	--	20.8	91.9
Larch:											
Sawtimber	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0
Western redcedar:											
Sawtimber	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0

Whitebark-limber pine:										
Sawtimber	--	--	2.9	29.3	32.2	--	--	--	--	--
Poletimber	--	--	--	18.5	18.5	--	--	--	--	--
Sapling and seedling	--	--	--	.6	.6	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	--	--	2.9	48.4	51.3	--	--	--	--	--
True firs:										
Sawtimber	--	13.4	68.3	38.3	120.0	--	--	10.9	10.2	21.1
Poletimber	--	.2	12.5	12.3	25.0	--	--	--	--	--
Sapling and seedling	--	7.7	28.3	7.6	43.6	--	--	--	--	--
Nonstocked	--	--	.2	--	.2	--	--	--	--	--
Total	--	21.3	109.3	58.2	188.8	--	--	10.9	10.2	21.1
Fir-spruce:										
Sawtimber	--	15.4	10.4	14.2	40.0	--	--	--	--	--
Poletimber	--	--	2.8	.8	3.6	--	--	--	--	--
Sapling and seedling	--	--	1.8	--	1.8	--	--	5.5	--	5.5
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	--	15.4	15.0	15.0	45.4	--	--	5.5	--	5.5
Other softwoods:										
Sawtimber	--	--	--	.1	.1	--	--	4.9	--	4.9
Poletimber	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	.1	.1	--	--	4.9	--	4.9
Aspen:										
Sawtimber	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	4.7	--	4.7
Sapling and seedling	--	--	--	--	--	--	--	--	5.7	5.7
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	4.7	5.7	10.4
Cottonwood:										
Sawtimber	--	--	--	--	--	--	--	4.7	23.8	28.5
Poletimber	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	4.7	23.8	28.5
Other hardwoods:										
Sawtimber	--	--	1.7	3.4	5.1	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	--	--	1.7	3.4	5.1	--	--	--	--	--
All forest types:										
Sawtimber	--	375.9	744.2	503.2	1,623.3	--	--	91.7	313.6	405.3
Poletimber	.9	52.3	306.7	273.1	633.0	--	--	20.5	144.5	165.0
Sapling and seedling	--	15.9	124.6	100.2	240.7	--	--	5.5	65.7	71.2
Nonstocked	--	8.9	5.0	9.0	22.9	--	--	--	21.9	21.9
Total	.9	453.0	1,180.5	885.5	2,519.9	--	--	117.7	545.7	663.4

Table 16 (con.)

Forest type and stand-size class	Forest industry					Other private						
	Productivity class					Productivity class						
	165+	120-164	85-119	50-84	20-19	Total	165+	120-164	85-119	50-84	20-49	Total
----- <i>Thousand acres</i> -----												
Douglas-fir:												
Sawtimber	--	--	--	--	1.2	1.2	--	--	--	111.5	252.6	364.1
Poletimber	--	--	--	--	1.2	1.2	--	--	--	12.5	135.4	147.9
Sapling and seedling	--	--	--	--	.8	.8	--	--	--	--	28.6	28.6
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	3.2	3.2	--	--	--	124.0	416.6	540.6
Hemlock:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Ponderosa pine:												
Sawtimber	--	--	--	--	3.8	3.8	--	--	--	55.0	402.1	457.1
Poletimber	--	--	--	--	1.5	1.5	--	--	--	--	129.8	129.8
Sapling and seedling	--	--	--	--	1.5	1.5	--	--	--	--	87.4	87.4
Nonstocked	--	--	--	--	1.6	1.6	--	--	--	--	57.4	57.4
Total	--	--	--	--	8.4	8.4	--	--	--	55.0	676.7	731.7
White pine:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Lodgepole pine:												
Sawtimber	--	--	--	--	.4	.4	--	--	--	27.5	89.3	116.8
Poletimber	--	--	--	--	.4	.8	--	--	--	29.3	119.2	148.5
Sapling and seedling	--	--	--	--	.8	.8	--	--	--	--	41.2	41.2
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	1.6	2.0	--	--	--	56.8	249.7	306.5
Larch:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Western redcedar:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0

Table 17.--Area of commercial timberland in western South Dakota by owner group, forest type, stand-size class, and productivity class, 1977

Forest type and stand-size class	National Forest					Other public						
	Productivity class					Productivity class						
	165+	120-164	85-119	50-84	20-49	Total	165+	120-164	85-119	50-84	20-49	Total
----- Thousand acres -----												
Douglas-fir:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Hemlock:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Ponderosa pine:												
Sawtimber	--	--	2.6	83.8	556.6	643.0	--	--	--	3.4	40.9	44.3
Poletimber	--	--	--	1.7	232.6	234.3	--	--	--	.5	11.0	11.5
Sapling and seedling	--	--	--	.9	34.4	35.3	--	--	--	.2	14.3	14.5
Nonstocked	--	--	--	(.)	2.0	2.0	--	--	--	.1	1.4	1.5
Total	--	--	2.6	86.4	825.6	914.6	--	--	--	4.2	67.6	71.8
White pine:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Lodgepole pine:												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--
Larch:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Western redcedar:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0

Whitebark-limber pine:										
Sawtimber	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--
True firs:										
Sawtimber	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Fir-spruce:										
Sawtimber	--	2.5	13.6	2.3	18.4	--	--	.2	.5	.7
Poletimber	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	--	2.5	13.6	2.3	18.4	--	--	.2	.5	.7
Other softwoods:										
Sawtimber	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Aspen:										
Sawtimber	--	--	4.7	8.8	13.5	--	--	(¹)	.1	.1
Poletimber	--	--	--	4.0	4.0	--	--	--	--	--
Sapling and seedling	--	--	--	2.0	2.0	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	--	--	4.7	14.8	19.5	--	--	(¹)	.1	.1
Cottonwood:										
Sawtimber	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--
Other hardwoods:										
Sawtimber	--	--	--	--	--	--	--	.5	2.2	2.7
Poletimber	--	--	--	--	--	--	--	.1	.4	.5
Sapling and seedling	--	--	--	--	--	--	--	.1	.3	.4
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	.7	2.9	3.6
All forest types:										
Sawtimber	--	5.1	102.1	567.7	674.9	--	--	4.1	43.7	47.8
Poletimber	--	--	1.7	236.6	238.3	--	--	.6	11.4	12.0
Sapling and seedling	--	--	.9	36.4	37.3	--	--	.3	14.6	14.9
Nonstocked	--	--	(¹)	2.0	2.0	--	--	.1	1.4	1.5
Total	--	5.1	104.7	842.7	952.5	--	--	5.1	71.1	76.2

¹ Less than 0.05 thousand acres.

Table 17 (con.)

Forest type and stand-size class	Forest industry						Other private					
	Productivity class						Productivity class					
	165+	120-164	85-119	50-84	20-49	Total	165+	120-164	85-119	50-84	20-49	Total
----- <i>Thousand acres</i> -----												
Douglas-fir:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Hemlock:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Ponderosa pine:												
Sawtimber	--	--	--	1.3	5.0	6.3	--	--	--	10.6	79.8	90.4
Poletimber	--	--	--	.5	3.6	4.1	--	--	--	3.5	44.9	48.4
Sapling and seedling	--	--	--	1.1	1.1	1.2	--	--	--	2.5	26.3	28.8
Nonstocked	--	--	--	--	--	--	--	--	--	.5	4.4	4.9
Total	--	--	--	1.9	9.7	11.6	--	--	--	17.1	155.4	172.5
White pine:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Lodgepole pine:												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--
Larch:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Western redcedar:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0

Whitebark-limber pine:												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poetimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--
True firs:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poetimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Fir-spruce:												
Sawtimber	--	--	.2	.5	.7	--	--	1.9	2.6	4.5	--	--
Poetimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	.2	.5	.7	--	--	1.9	2.6	4.5	--	--
Other softwoods:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poetimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Aspen:												
Sawtimber	--	--	(¹)	.1	.1	--	--	.6	.4	1.0	--	--
Poetimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	(¹)	.1	.1	--	--	.6	.4	1.0	--	--
Cottonwood:												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poetimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods:												
Sawtimber	--	--	.6	2.2	2.8	--	--	3.1	13.5	16.6	--	--
Poetimber	--	--	.1	.3	.4	--	--	.4	1.6	2.0	--	--
Sapling and seedling	--	--	.1	.4	.5	--	--	.4	2.3	2.7	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	.8	2.9	3.7	--	--	3.9	17.4	21.3	--	--
All forest types:												
Sawtimber	--	--	2.1	7.8	9.9	--	--	16.2	96.3	112.5	--	--
Poetimber	--	--	.6	3.9	4.5	--	--	3.9	46.5	50.4	--	--
Sapling and seedling	--	--	1.7	1.5	--	--	--	2.9	28.6	31.5	--	--
Nonstocked	--	--	--	--	--	--	--	.5	4.4	4.9	--	--
Total	--	--	2.9	13.2	16.1	--	--	23.5	175.8	199.3	--	--

¹Less than 0.05 thousand acres.

Table 18.--Area of commercial timberland in Wyoming by owner group, forest type, stand-size class, and productivity class, 1977

Forest type and stand-size class	National Forest					Other public						
	Productivity class					Productivity class						
	165+	120-164	85-119	50-84	20-49	Total	165+	120-164	85-119	50-84	20-49	Total
----- <i>Thousand acres</i> -----												
Douglas-fir:												
Sawtimber	--	10.4	248.0	41.6	300.0	--	--	10.7	36.5	21.8	69.0	
Poletimber	--	--	62.5	9.7	72.2	--	--	--	3.0	9.4	12.4	
Sapling and seedling	--	--	.4	6.6	7.0	--	--	--	--	3.1	3.1	
Nonstocked	--	--	1.5	19.4	20.9	--	--	--	--	8.2	8.2	
Total	--	10.4	312.4	77.3	400.1	--	--	10.7	39.5	42.5	92.7	
Hemlock:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	
Poletimber	0	0	0	0	0	0	0	0	0	0	0	
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	
Ponderosa pine:												
Sawtimber	--	0.3	14.3	138.6	153.2	--	--	--	--	102.1	102.1	
Poletimber	--	--	--	47.4	47.4	--	--	.1	1.5	34.1	35.7	
Sapling and seedling	--	--	--	5.4	5.4	--	--	--	--	8.0	8.0	
Nonstocked	--	--	--	29.1	29.1	--	--	--	--	10.6	10.6	
Total	--	0.3	14.3	220.5	235.1	--	--	.1	1.5	154.8	156.4	
White pine:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	
Poletimber	0	0	0	0	0	0	0	0	0	0	0	
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	
Lodgepole pine:												
Sawtimber	--	12.2	232.8	439.3	684.3	--	--	1.4	10.0	42.7	54.1	
Poletimber	--	4.0	68.1	315.3	387.4	--	--	.1	1.2	17.3	18.6	
Sapling and seedling	--	--	9.2	156.1	165.3	--	--	--	--	3.8	3.8	
Nonstocked	--	13.8	1.4	30.8	46.0	--	--	--	--	5.6	5.6	
Total	--	30.0	311.5	941.5	1,283.0	--	--	1.5	11.2	69.4	82.1	
Larch:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	
Poletimber	0	0	0	0	0	0	0	0	0	0	0	
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	
Western redcedar:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	
Poletimber	0	0	0	0	0	0	0	0	0	0	0	
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	

Whitebark-limber pine:										
Sawtimber	--	--	22.5	53.3	75.8	--	--	.1	1.2	1.3
Poletimber	--	--	--	39.4	39.4	--	--	--	.8	--
Sapling and seedling	--	--	.2	.7	.9	--	--	--	.2	.2
Nonstocked	--	--	--	6.7	6.7	--	--	--	.1	.1
Total	--	--	22.7	100.1	122.8	--	--	.1	2.3	2.4
True firs:										
Sawtimber	--	12.0	157.5	15.5	185.0	--	--	--	--	--
Poletimber	--	--	9.6	5.2	14.8	--	--	--	--	--
Sapling and seedling	--	.2	20.6	2.6	23.4	--	--	--	--	--
Nonstocked	--	2.3	--	4.5	6.8	--	--	--	--	--
Total	--	14.5	187.7	27.8	230.0	--	--	--	--	--
Fir-spruce:										
Sawtimber	--	54.2	322.4	153.3	529.9	--	2.6	35.2	4.0	41.8
Poletimber	--	--	43.4	20.1	63.5	--	6.3	6.3	.5	13.1
Sapling and seedling	--	--	16.6	47.0	63.6	--	--	--	2.2	2.2
Nonstocked	--	--	--	19.7	19.7	--	--	--	6.3	6.3
Total	--	54.2	382.4	240.1	676.7	--	8.9	41.5	13.0	63.4
Other softwoods:										
Sawtimber	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	4.9	4.9	--	--	--	--	--
Total	--	--	--	4.9	4.9	--	--	--	--	--
Aspen:										
Sawtimber	--	--	4.2	14.7	18.9	--	.1	.7	13.7	14.5
Poletimber	--	--	2.6	15.7	18.3	--	--	--	18.3	18.3
Sapling and seedling	--	--	25.2	5.8	31.0	--	--	--	3.3	3.3
Nonstocked	--	--	8.6	15.1	23.7	--	--	--	--	--
Total	--	--	40.6	51.3	91.9	--	.1	.7	35.3	36.1
Cottonwood:										
Sawtimber	--	--	.2	--	.2	--	--	--	.2	.2
Poletimber	--	--	--	--	--	--	--	--	.2	.2
Sapling and seedling	--	--	--	--	--	--	--	--	.1	.1
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	--	--	.2	--	.2	--	--	--	.5	.5
Other hardwoods:										
Sawtimber	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	.6	.6
Sapling and seedling	--	--	--	--	--	--	--	--	.2	.2
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	.8	.8
All forest types:										
Sawtimber	--	89.1	1,001.9	856.3	1,947.3	--	14.8	82.5	185.7	283.0
Poletimber	--	4.0	186.2	452.8	643.0	--	6.5	12.0	81.2	99.7
Sapling and seedling	--	.2	72.2	224.2	296.6	--	--	--	20.9	20.9
Nonstocked	--	16.1	11.5	130.2	157.8	--	--	--	30.8	30.8
Total	--	109.4	1,271.8	1,663.5	3,044.7	--	21.3	94.5	318.6	434.4

Table 18 (con.)

Forest type and stand-size class	Forest industry					Other private						
	Productivity class					Productivity class						
	165+	120-164	85-119	50-84	20-49	Total	165+	120-164	85-119	50-84	20-49	Total
----- Thousand acres -----												
Douglas-fir:												
Sawtimber	--	--	.4	1.6	.9	2.9	--	--	7.1	24.2	14.5	45.8
Poletimber	--	--	--	.2	.6	.8	--	--	--	3.1	9.8	12.9
Sapling and seedling	--	--	--	--	.1	.1	--	--	--	--	1.7	1.7
Nonstocked	--	--	--	--	.1	.1	--	--	--	--	1.3	1.3
Total	--	--	.4	1.8	1.7	3.9	--	--	7.1	27.3	27.3	61.7
Hemlock:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Ponderosa pine:												
Sawtimber	--	--	--	--	29.4	29.4	--	--	--	--	367.7	367.7
Poletimber	--	--	.3	6.4	6.7	6.7	--	--	.5	5.0	108.7	114.2
Sapling and seedling	--	--	--	--	.8	.8	--	--	--	--	12.5	12.5
Nonstocked	--	--	--	--	.6	.6	--	--	--	--	9.3	9.3
Total	--	--	.3	37.2	37.5	37.5	--	--	.5	5.0	498.2	503.7
White pine:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Lodgepole pine:												
Sawtimber	--	--	.1	.7	2.9	3.7	--	--	1.4	10.3	45.4	57.1
Poletimber	--	--	--	.1	1.4	1.5	--	--	.2	1.9	29.6	31.7
Sapling and seedling	--	--	--	--	.2	.2	--	--	--	--	5.9	5.9
Nonstocked	--	--	--	--	.1	.1	--	--	--	--	1.4	1.4
Total	--	--	.1	.8	4.6	5.5	--	--	1.6	12.2	82.3	96.1
Larch:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Western redcedar:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0

Whitebark-limber pine:										
Sawtimber	--	--	.7	.7	--	--	.1	.6	11.0	11.7
Poletimber	--	--	.2	.2	--	--	--	.2	5.0	5.2
Sapling and seedling	--	--	--	--	--	--	--	--	.6	.6
Nonstocked	--	--	--	--	--	--	--	--	.3	.3
Total	--	--	.9	.9	--	--	.1	.8	16.9	17.8
True firs:										
Sawtimber	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--
Fir-spruce:										
Sawtimber	--	.1	.7	.7	1.5	--	1.0	11.4	7.0	19.4
Poletimber	--	.1	.4	.6	.6	--	1.5	1.7	4.4	7.6
Sapling and seedling	--	--	--	--	--	--	--	--	.8	.8
Nonstocked	--	--	--	--	--	--	--	--	.8	.8
Total	--	.2	1.1	2.1	2.1	--	2.5	13.1	13.0	28.6
Other softwoods:										
Sawtimber	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--
Aspen:										
Sawtimber	--	--	--	--	--	--	.3	1.6	32.2	34.1
Poletimber	--	--	3.6	3.6	--	--	--	--	39.6	39.6
Sapling and seedling	--	--	.3	.3	--	--	--	--	4.7	4.7
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	--	--	3.9	3.9	--	--	.3	1.6	76.5	78.4
Cottonwood:										
Sawtimber	--	--	--	--	--	--	--	--	1.9	1.9
Poletimber	--	--	--	--	--	--	--	--	1.3	1.3
Sapling and seedling	--	--	--	--	--	--	--	--	.1	.1
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	3.3	3.3
Other hardwoods:										
Sawtimber	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	.5	.5	--	--	--	--	10.9	10.9
Sapling and seedling	--	--	--	--	--	--	--	--	.3	.3
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	--	--	.5	.5	--	--	--	--	11.2	11.2
All forest types:										
Sawtimber	--	.6	3.0	34.6	38.2	--	9.9	48.1	479.7	537.7
Poletimber	--	.1	.7	13.1	13.9	--	2.2	11.9	209.3	223.4
Sapling and seedling	--	--	--	1.4	1.4	--	--	--	26.6	26.6
Nonstocked	--	--	--	.8	.8	--	--	--	13.1	13.1
Total	--	.7	3.7	49.9	54.3	--	12.1	60.0	728.7	800.8

Table 19.--Area of commercial timberland in Arizona by owner group, forest type, stand-size class, and productivity class, 1977

Forest type and stand-size class	National Forest										Other public			
	Productivity class				Total	Productivity class				Total				
	165+	120-164	85-119	50-84		20-49	165+	120-164	85-119		50-84	20-49		
----- Thousand acres -----														
Douglas-fir:														
Sawtimber	--	1.6	18.0	87.5	64.4	171.5	--	--	3.7	1.8	--	--	5.5	
Poletimber	--	--	.7	3.1	--	3.8	--	--	--	--	--	--	--	
Sapling and seedling	--	--	--	--	.2	.2	--	--	--	--	--	--	--	
Nonstocked	--	--	--	--	5.0	5.0	--	--	--	--	--	--	--	
Total	--	1.6	18.7	90.6	69.6	180.5	--	--	3.7	1.8	--	--	5.5	
Hemlock:														
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0	0	
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0	0	
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ponderosa pine:														
Sawtimber	--	7.0	9.1	392.7	1,363.5	1,772.3	--	--	105.8	494.4	529.8	--	1,130.0	
Poletimber	--	--	--	13.1	149.6	162.7	--	--	--	2.0	--	--	2.0	
Sapling and seedling	--	--	--	6.6	96.6	103.2	--	--	--	3.1	.8	--	3.9	
Nonstocked	--	--	--	8.0	103.6	111.6	--	--	--	--	4.2	--	4.2	
Total	--	7.0	9.1	420.4	1,713.3	2,149.8	--	--	105.8	499.5	534.8	--	1,140.1	
White pine:														
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0	0	
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0	0	
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lodgepole pine:														
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0	0	
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0	0	
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	
Larch:														
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0	0	
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0	0	
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	
Western redcedar:														
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0	0	
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0	0	
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	

Whitebark-limber pine:										
Sawtimber	--	.2	--	5.7	5.9	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	--	.2	--	5.7	5.9	--	--	--	--	--
True firs:										
Sawtimber	.2	14.4	19.0	8.3	41.9	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	.2	14.4	19.0	8.3	41.9	--	--	--	--	--
Fir-spruce:										
Sawtimber	--	8.5	3.1	2.2	13.8	--	--	50.6	50.5	101.1
Poletimber	--	--	--	2.3	2.3	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	.4	.4	--	--	--	--	--
Total	--	8.5	3.1	4.9	16.5	--	--	50.6	50.5	101.1
Other softwoods:										
Sawtimber	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--
Aspen:										
Sawtimber	--	.5	14.8	11.0	26.3	--	--	--	--	--
Poletimber	--	.7	1.8	4.7	7.2	--	--	21.1	21.1	21.1
Sapling and seedling	--	--	3.9	29.5	33.4	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	--	1.2	20.5	45.2	66.9	--	--	21.1	21.1	21.1
Cottonwood:										
Sawtimber	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--
Other hardwoods:										
Sawtimber	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--
All forest types:										
Sawtimber	8.8	50.7	517.1	1,455.1	2,031.7	--	109.5	546.8	580.3	1,236.6
Poletimber	--	1.4	18.0	156.6	176.0	--	--	2.0	21.1	23.1
Sapling and seedling	--	--	10.5	126.3	136.8	--	--	3.1	.8	3.9
Nonstocked	--	--	8.0	109.0	117.0	--	--	--	4.2	4.2
Total	8.8	52.1	553.6	1,847.0	2,461.5	--	109.5	551.9	606.4	1,267.8

Table 19 (con.)

Forest type and stand-size class	Forest industry					Other private						
	Productivity class					Productivity class						
	165+	120-164	85-119	50-84	20-49	Total	165+	120-164	85-119	50-84	20-49	Total
----- <i>Thousand acres</i> -----												
Douglas-fir:												
Sawtimber	0	0	0	0	0	0	--	--	--	--	--	--
Poletimber	0	0	0	0	0	0	--	--	--	--	--	--
Sapling and seedling	0	0	0	0	0	0	--	--	--	--	--	--
Nonstocked	0	0	0	0	0	0	--	--	--	--	--	--
Total	0	0	0	0	0	0	--	--	--	--	--	--
Hemlock:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Ponderosa pine:												
Sawtimber	0	0	0	0	0	0	--	--	--	71.9	47.9	119.8
Poletimber	0	0	0	0	0	0	--	--	1.4	--	6.0	7.4
Sapling and seedling	0	0	0	0	0	0	--	--	--	--	15.0	15.0
Nonstocked	0	0	0	0	0	0	--	--	--	--	--	--
Total	0	0	0	0	0	0	--	--	1.4	71.9	68.9	142.2
White pine:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Lodgepole pine:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Larch:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Western redcedar:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0

Whitebark-limber pine:													
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	--	
Poletimber	0	0	0	0	0	0	0	0	0	0	0	--	
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	--	
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	--	
Total	0	0	0	0	0	0	0	0	0	0	0	--	
True firs:													
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	--	
Poletimber	0	0	0	0	0	0	0	0	0	0	0	--	
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	--	
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	--	
Total	0	0	0	0	0	0	0	0	0	0	0	--	
Fir-spruce:													
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	--	
Poletimber	0	0	0	0	0	0	0	0	0	0	0	--	
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	--	
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	--	
Total	0	0	0	0	0	0	0	0	0	0	0	--	
Other softwoods:													
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	--	
Poletimber	0	0	0	0	0	0	0	0	0	0	0	--	
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	--	
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	--	
Total	0	0	0	0	0	0	0	0	0	0	0	--	
Aspen:													
Sawtimber	0	0	0	0	0	0	0	0	0	1.2	7.0	7.1	
Poletimber	0	0	0	0	0	0	0	0	0	--	--	6.6	
Sapling and seedling	0	0	0	0	0	0	0	0	0	1.8	1.8	.4	
Nonstocked	0	0	0	0	0	0	0	0	0	--	--	2.2	
Total	0	0	0	0	0	0	0	0	0	1.2	8.8	14.1	
Cottonwood:													
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	--	
Poletimber	0	0	0	0	0	0	0	0	0	0	0	--	
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	--	
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	--	
Total	0	0	0	0	0	0	0	0	0	0	0	--	
Other hardwoods:													
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	--	
Poletimber	0	0	0	0	0	0	0	0	0	0	0	--	
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	--	
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	--	
Total	0	0	0	0	0	0	0	0	0	0	0	--	
All forest types:													
Sawtimber	0	0	0	0	0	0	0	0	0	1.2	78.9	55.0	
Poletimber	0	0	0	0	0	0	0	0	0	1.4	--	12.6	
Sapling and seedling	0	0	0	0	0	0	0	0	0	1.8	1.8	15.4	
Nonstocked	0	0	0	0	0	0	0	0	0	--	--	17.2	
Total	0	0	0	0	0	0	0	0	0	2.6	80.7	83.0	
											135.1	14.0	166.3

Table 20.--Area of commercial timberland in Colorado by owner group, forest type, stand-size class, and productivity class, 1977

Forest type and stand-size class	National Forest					Total	Productivity class				Other public	
	Productivity class						165+	120-164	85-119	50-84	20-49	Total
	165+	120-164	85-119	50-84	20-49							
----- Thousand acres -----												
Douglas-fir:												
Sawtimber	--	--	7.2	247.3	243.1	497.6	--	--	--	27.0	89.7	116.7
Poletimber	--	--	--	87.0	83.7	170.7	--	--	2.3	--	49.9	52.2
Sapling and seedling	--	--	--	8.7	2.8	11.5	--	--	--	--	.3	.3
Nonstocked	--	--	--	13.8	36.9	50.7	--	--	--	--	2.0	2.0
Total	--	--	7.2	356.8	366.5	730.5	--	--	2.3	27.0	141.9	171.2
Hemlock:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Ponderosa pine:												
Sawtimber	--	--	--	69.1	463.2	532.3	--	--	--	4.0	150.1	154.1
Poletimber	--	--	--	18.0	82.6	100.6	--	--	--	--	36.1	36.1
Sapling and seedling	--	--	--	.4	10.3	10.7	--	--	--	--	.1	.1
Nonstocked	--	--	--	22.5	286.1	308.6	--	--	--	--	.2	.2
Total	--	--	--	110.0	842.2	952.2	--	--	--	4.0	186.5	190.5
White pine:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Lodgepole pine:												
Sawtimber	--	--	9.1	75.8	520.5	605.4	--	--	--	--	24.1	24.1
Poletimber	--	--	--	27.5	409.5	437.0	--	--	--	.7	63.5	64.2
Sapling and seedling	--	--	--	13.3	176.3	189.6	--	--	--	--	4.5	4.5
Nonstocked	--	--	--	--	38.1	38.1	--	--	--	--	.5	.5
Total	--	--	9.1	116.6	1,144.4	1,270.1	--	--	--	.7	92.6	93.3
Larch:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Western redcedar:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0

Whitebark-limber pine:											
Sawtimber	--	--	--	19.4	19.4	--	--	--	.6	4.1	4.7
Poletimber	--	--	--	--	--	--	--	--	.1	2.1	2.2
Sapling and seedling	--	--	--	1.2	1.2	--	--	--	--	.2	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	20.6	20.6	--	--	--	.7	6.4	7.1
True firs:											
Sawtimber	--	--	.1	.1	.2	--	--	--	--	1.3	1.3
Poletimber	--	--	2.7	3.6	6.3	--	--	--	--	1.0	1.0
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	2.8	3.7	6.5	--	--	--	--	2.3	2.3
Fir-spruce:											
Sawtimber	2.3	177.4	953.6	776.6	1,909.9	--	--	7.8	13.2	30.1	51.1
Poletimber	--	.4	119.4	139.3	259.1	--	--	.5	1.6	3.5	5.6
Sapling and seedling	--	24.9	112.6	91.2	228.7	--	--	--	--	.4	.4
Nonstocked	--	14.0	57.6	115.5	187.1	--	--	--	--	3.3	3.3
Total	--	2.3	216.7	1,243.2	2,584.8	--	--	8.3	14.8	37.3	60.4
Other softwoods:											
Sawtimber	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--
Aspen:											
Sawtimber	--	38.7	203.5	336.9	579.1	--	1.6	3.2	1.5	15.8	22.1
Poletimber	--	11.0	241.9	491.5	744.4	--	--	--	--	112.0	112.0
Sapling and seedling	--	--	53.5	201.3	254.8	--	--	--	--	12.8	12.8
Nonstocked	--	2.2	64.1	296.5	362.8	--	--	--	--	.2	.2
Total	--	51.9	563.0	1,326.2	1,941.1	--	1.6	3.2	1.5	140.8	147.1
Cottonwood:											
Sawtimber	--	--	--	--	--	--	--	--	--	18.1	18.1
Poletimber	--	--	--	--	--	--	--	--	--	.3	.3
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	.2	.2
Total	--	--	--	--	--	--	--	--	--	18.6	18.6
Other hardwoods:											
Sawtimber	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--
All forest types:											
Sawtimber	2.3	232.4	1,549.4	2,359.8	4,143.9	--	1.6	11.0	46.3	333.3	392.2
Poletimber	--	11.4	496.5	1,210.2	1,718.1	--	--	2.8	2.4	268.4	273.6
Sapling and seedling	--	24.9	188.5	483.1	696.5	--	--	--	--	18.3	18.3
Nonstocked	--	16.2	158.0	773.1	947.3	--	--	--	--	6.4	6.4
Total	--	2.3	284.9	2,392.4	4,826.2	--	1.6	13.8	48.7	626.4	690.5

Table 20 (con.)

Forest type and stand-size class	Forest industry					Other private						
	Productivity class					Productivity class						
	165+	120-164	85-119	50-84	20-49	Total	165+	120-164	85-119	50-84	20-49	Total
<i>Thousand acres</i>												
Douglas-fir:												
Sawtimber	--	--	--	--	--	--	--	--	--	62.2	206.5	268.7
Poletimber	--	--	--	--	--	--	--	5.4	--	--	116.9	122.3
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	2.0	2.0
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	5.4	--	62.2	325.4	393.0
Hemlock:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Ponderosa pine:												
Sawtimber	--	--	--	--	--	--	--	--	--	13.7	525.4	539.1
Poletimber	--	--	--	--	--	--	--	--	--	--	367.2	367.2
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	.3	.3
Nonstocked	--	--	--	--	--	--	--	--	--	--	255.1	255.1
Total	--	--	--	--	--	--	--	--	--	13.7	1,148.0	1,161.7
White pine:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Lodgepole pine:												
Sawtimber	--	--	--	--	1.7	1.7	--	--	--	--	71.9	71.9
Poletimber	--	--	--	.1	9.9	10.0	--	--	--	3.2	264.1	267.3
Sapling and seedling	--	--	--	--	.4	.4	--	--	--	--	20.6	20.6
Nonstocked	--	--	--	--	--	--	--	--	--	--	1.4	1.4
Total	--	--	--	.1	12.0	12.1	--	--	--	3.2	358.0	361.2
Larch:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Western redcedar:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0

Whitebark-limber pine:										
Sawtimber	--	--	--	--	--	--	--	1.9	13.0	14.9
Poletimber	--	--	--	--	--	--	--	1.0	23.9	24.9
Sapling and seedling	--	--	--	--	--	--	--	--	.6	.6
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	2.9	37.5	40.4	
True firs:										
Sawtimber	--	--	--	--	--	--	--	--	1.6	1.6
Poletimber	--	--	--	--	--	--	--	--	4.9	4.9
Sapling and seedling	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	6.5	6.5	
Fir-spruce:										
Sawtimber	--	.3	.6	1.3	2.2	--	--	38.8	66.4	150.5
Poletimber	--	--	.1	.2	.3	--	--	4.4	14.2	32.9
Sapling and seedling	--	--	--	--	--	--	--	--	--	1.5
Nonstocked	--	--	--	--	--	--	--	--	--	7.0
Total	--	.3	.7	1.5	2.5	--	43.2	80.6	191.9	315.7
Other softwoods:										
Sawtimber	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--
Aspen:										
Sawtimber	--	--	--	.1	.1	--	4.6	9.1	4.1	45.0
Poletimber	--	--	--	--	--	--	--	--	--	591.3
Sapling and seedling	--	--	--	--	--	--	--	--	--	110.9
Nonstocked	--	--	--	--	--	--	--	--	--	.4
Total	--	--	--	.1	.1	--	4.6	9.1	4.1	747.6
Cottonwood:										
Sawtimber	--	--	--	--	--	--	--	--	56.3	56.3
Poletimber	--	--	--	--	--	--	--	--	3.2	3.2
Sapling and seedling	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	.3	.3
Total	--	--	--	--	--	--	--	--	59.8	59.8
Other hardwoods:										
Sawtimber	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--
All forest types:										
Sawtimber	--	.3	.6	5.1	4.0	--	4.6	47.9	148.3	1,070.2
Poletimber	--	--	.2	10.1	10.3	--	--	9.8	18.4	1,404.4
Sapling and seedling	--	--	--	.4	.4	--	--	--	--	135.9
Nonstocked	--	--	--	--	--	--	--	--	--	264.2
Total	--	.3	.8	13.6	14.7	--	4.6	57.7	166.7	2,874.7
										3,103.7

Table 21.--Area of commercial timberland in Nevada by owner group, forest type, stand-size class, and productivity class, 1977

Forest type and stand-size class	National Forest										Other public		
	Productivity class			Total	Productivity class			Total	Productivity class				
	165+	120-164	85-119		50-84	20-49	165+		120-164	85-119	50-84	20-49	Total
<i>Thousand acres</i>													
Douglas-fir:	---												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--	
Poetimber	--	--	--	2.9	2.9	--	--	--	--	--	--	--	
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--	
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--	
Total	--	--	--	2.9	2.9	--	--	--	--	--	--	--	
Hemlock:	---												
Sawtimber	--	--	--	1.6	1.6	--	--	--	--	--	--	--	
Poetimber	--	--	--	--	--	--	--	--	--	--	--	--	
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--	
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--	
Total	--	--	--	1.6	1.6	--	--	--	--	--	--	--	
Ponderosa pine:	---												
Sawtimber	--	1.1	3.9	13.7	18.7	--	--	1.0	1.7	2.7	--	--	
Poetimber	--	--	(1)	.4	.4	--	--	--	--	--	--	--	
Sapling and seedling	--	--	--	--	--	--	--	--	--	.1	--	--	
Nonstocked	--	.2	1.4	2.8	4.6	--	--	--	.1	.1	--	--	
Total	--	.2	1.3	16.9	23.7	--	--	1.0	1.9	2.9	--	--	
White pine:	---												
Sawtimber	--	--	--	.7	.7	--	--	--	--	--	--	--	
Poetimber	--	--	--	--	--	--	--	--	--	--	--	--	
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--	
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--	
Total	--	--	--	.7	.7	--	--	--	--	--	--	--	
Lodgepole pine:	---												
Sawtimber	--	--	--	3.6	3.6	--	--	.1	.1	.2	--	--	
Poetimber	--	--	--	--	--	--	--	--	--	--	--	--	
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--	
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--	
Total	--	--	--	3.6	3.6	--	--	.1	.1	.2	--	--	
Larch:	---												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0	
Poetimber	0	0	0	0	0	0	0	0	0	0	0	0	
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0	
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	
Western redcedar:	---												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0	
Poetimber	0	0	0	0	0	0	0	0	0	0	0	0	
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0	
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	

Whitebark-limber pine:										
Sawtimber	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	4.8	4.8	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	--	--	4.8	4.8	--	--	--	--	--	--
True firs:										
Sawtimber	--	(1)	1.0	3.6	4.6	--	.1	.4	.4	.6
Poletimber	--	--	--	--	--	--	--	--	--	1.5
Sapling and seedling	--	--	--	.6	.6	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	--	(1)	1.0	4.2	5.2	--	.1	.4	.4	.6
Fir-spruce:										
Sawtimber	--	--	--	10.2	10.2	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	10.2	10.2	--	--	--	--	--
Other softwoods:										
Sawtimber	.1	.6	.4	.1	1.2	--	--	--	--	--
Poletimber	--	--	--	(1)	(1)	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	.1	.6	.4	.1	1.2	--	--	--	--	--
Aspen:										
Sawtimber	--	--	--	6.5	6.5	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	6.5	6.5	--	--	--	--	--
Cottonwood:										
Sawtimber	--	--	--	.7	.7	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	.7	.7	--	--	--	--	--
Other hardwoods:										
Sawtimber	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--
All forest types:										
Sawtimber	.1	1.7	6.0	40.0	47.8	--	.1	.4	1.5	2.4
Poletimber	--	--	(1)	3.3	3.3	--	--	--	--	--
Sapling and seedling	--	--	--	5.4	5.4	--	--	--	--	.1
Nonstocked	.2	.2	1.4	2.8	4.6	--	--	--	--	.1
Total	.3	1.9	7.4	51.5	61.1	--	.1	.4	1.5	2.6

¹ Less than 0.05 thousand acres.

Table 21 (con.)

Forest type and stand-size class	Forest industry				Total	Other private				
	165+	120-164	85-119	50-84		20-49	165+	120-164	85-119	50-84
----- <i>Thousand acres</i> -----										
Douglas fir:										
Sawtimber	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--
Hemlock:										
Sawtimber	--	--	--	.1	.1	--	--	--	--	.7
Poletimber	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	.1	.1	--	--	--	--	.7
Ponderosa pine:										
Sawtimber	--	--	.1	1.4	2.5	4.0	--	.9	10.4	15.9
Poletimber	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	.3	.3	.3	--	--	--	1.4
Nonstocked	--	--	--	--	.1	.1	--	--	--	.7
Total	--	--	.1	1.4	2.9	4.4	--	.9	10.4	18.0
White pine:										
Sawtimber	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--
Lodgepole pine:										
Sawtimber	--	--	--	.1	.5	.6	--	--	.7	3.2
Poletimber	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	.1	.5	.6	--	--	.7	3.2
Larch:										
Sawtimber	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Western redcedar:										
Sawtimber	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0

Whitebark-limber pine:													
Sawtimber	--	--	--	--	--	--	--	--	--	--			
Poletimber	--	--	--	--	--	--	--	--	--	--			
Sapling and seedling	--	--	--	--	--	--	--	--	--	--			
Nonstocked	--	--	--	--	--	--	--	--	--	--			
Total	--	--	--	--	--	--	--	--	--	--			
True firs:													
Sawtimber	--	.3	.7	.9	.9	1.3	3.2	--	2.2	9.0	6.9	6.9	25.0
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	.4	.4	--	--	--	--	1.4	1.4
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	.3	.7	.9	.9	1.3	3.2	--	2.2	9.0	6.9	8.3	26.4
Fir-spruce:													
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--	--
Other softwoods:													
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--	--
Aspen:													
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--	--
Cottonwood:													
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods:													
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--	--
All forest types:													
Sawtimber	--	.3	.8	2.4	2.4	4.0	7.5	--	2.2	9.9	18.0	26.7	56.8
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	.3	.3	--	--	--	--	1.4	1.4
Nonstocked	--	--	--	--	--	.5	.5	--	--	--	--	2.1	2.1
Total	--	.3	.8	2.4	2.4	4.8	8.3	--	2.2	9.9	18.0	30.2	60.3

Table 22.--Area of commercial timberland in New Mexico by owner group, forest type, stand-size class, and productivity class, 1977

Forest type and stand-size class	National Forest					Other public						
	Productivity class					Productivity class						
	165+	120-164	85-119	50-84	20-49	Total	165+	120-164	85-119	50-84	20-49	Total
----- <i>Thousand acres</i> -----												
Douglas-fir:												
Sawtimber	--	--	22.2	155.2	270.4	447.8	--	--	--	19.3	43.0	62.3
Poletimber	--	--	--	6.3	15.2	21.5	--	--	--	--	7.1	7.1
Sapling and seedling	--	--	--	3.9	14.5	18.4	--	--	--	--	--	--
Nonstocked	--	--	--	7.1	14.7	21.8	--	--	--	--	--	--
Total	--	--	22.2	172.5	314.8	509.5	--	--	--	19.3	50.1	69.4
Hemlock:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Ponderosa pine:												
Sawtimber	--	--	7.9	211.3	1,203.4	1,422.6	--	--	--	116.5	530.8	647.3
Poletimber	--	--	1.1	13.9	95.7	110.7	--	--	--	--	5.6	5.6
Sapling and seedling	--	--	--	14.6	114.4	129.0	--	4.0	--	4.0	4.0	12.0
Nonstocked	--	--	--	12.0	135.4	147.4	--	--	--	--	3.0	3.0
Total	--	--	9.0	251.8	1,548.9	1,809.7	--	4.0	--	120.5	543.4	667.9
White pine:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Lodgepole pine:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Larch:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Western redcedar:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0

Whitebark-limber pine:											
Sawtimber	--	--	4.9	7.3	12.2	--	--	.2	1.3	3.2	4.7
Poletimber	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	1.5	1.5	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	4.9	8.8	13.7	--	--	.2	1.3	3.2	4.7
True firs:											
Sawtimber	--	16.9	115.1	76.6	208.6	--	--	--	--	--	--
Poletimber	--	--	14.4	4.9	19.3	--	--	--	--	--	--
Sapling and seedling	--	--	4.2	5.4	9.6	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--
Total	--	16.9	133.7	86.9	237.5	--	--	--	--	--	--
Fir-spruce:											
Sawtimber	--	3.3	56.2	7.3	66.8	--	--	--	31.3	--	31.3
Poletimber	--	--	--	1.5	1.5	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	1.5	--	1.5	1.7	4.7
Nonstocked	--	--	--	32.4	32.4	--	--	--	--	--	--
Total	--	3.3	56.2	41.2	100.7	--	1.5	--	32.8	1.7	36.0
Other softwoods:											
Sawtimber	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--
Aspen:											
Sawtimber	--	2.1	23.1	22.0	47.2	--	--	4.4	4.3	--	8.7
Poletimber	--	4.2	36.1	46.1	86.4	--	--	--	2.0	2.1	4.1
Sapling and seedling	--	2.9	2.9	7.8	13.6	--	.5	--	.5	.3	1.3
Nonstocked	--	--	--	--	--	--	--	--	--	--	--
Total	--	9.2	62.1	75.9	147.2	--	.5	4.4	6.8	2.4	14.1
Cottonwood:											
Sawtimber	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods:											
Sawtimber	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--
All forest types:											
Sawtimber	--	52.4	565.8	1,587.0	2,205.2	--	--	4.6	172.7	577.0	754.3
Poletimber	--	5.3	70.7	163.4	239.4	--	--	--	2.0	14.8	16.8
Sapling and seedling	--	2.9	25.6	143.6	172.1	--	6.0	--	6.0	6.0	18.0
Nonstocked	--	--	19.1	182.5	201.6	--	--	--	--	3.0	3.0
Total	--	60.6	681.2	2,076.5	2,818.3	--	6.0	4.6	180.7	600.8	792.1

Table 22 (con.)

Forest type and stand-size class	Forest industry					Other private						
	Productivity class					Productivity class						
	165+	120-164	85-119	50-84	20-49	Total	165+	120-164	85-119	50-84	20-49	Total
----- Thousand acres -----												
Douglas-fir:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	113.5	253.2
Poetimber	0	0	0	0	0	0	0	0	0	0	--	50.0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	--	--
Nonstocked	0	0	0	0	0	0	0	0	0	0	--	--
Total	0	0	0	0	0	0	0	0	113.5	303.2	416.7	
Hemlock:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poetimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Ponderosa pine:												
Sawtimber	0	0	0	0	0	0	0	0	170.8	779.2	950.0	
Poetimber	0	0	0	0	0	0	0	0	--	33.3	33.3	
Sapling and seedling	0	0	0	0	0	0	27.7	0	27.8	27.9	83.4	
Nonstocked	0	0	0	0	0	0	0	0	--	--	--	
Total	0	0	0	0	0	0	27.7	0	198.6	840.4	1,066.7	
White pine:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poetimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Lodgepole pine:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poetimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Larch:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poetimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Western redcedar:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poetimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0

Whitebark-limber pine:												
Sawtimber	0	0	0	0	0	0	0	0	1.1	9.2	23.0	33.3
Poletimber	0	0	0	0	0	0	0	0	--	--	--	--
Sapling and seedling	0	0	0	0	0	0	0	0	--	--	--	--
Nonstocked	0	0	0	0	0	0	0	0	--	--	--	--
Total	0	0	0	0	0	0	0	1.1	9.2	23.0	33.3	
True firs:												
Sawtimber	0	0	0	0	0	0	0	0	--	--	--	--
Poletimber	0	0	0	0	0	0	0	0	--	--	--	--
Sapling and seedling	0	0	0	0	0	0	0	0	--	--	--	--
Nonstocked	0	0	0	0	0	0	0	0	--	--	--	--
Total	0	0	0	0	0	0	0	0	--	--	--	--
Fir-spruce:												
Sawtimber	0	0	0	0	0	0	0	0	--	200.0	--	200.0
Poletimber	0	0	0	0	0	0	0	0	--	--	--	--
Sapling and seedling	0	0	0	0	0	0	0	11.1	11.1	11.1	11.1	33.3
Nonstocked	0	0	0	0	0	0	0	0	--	--	--	--
Total	0	0	0	0	0	0	0	11.1	211.1	11.1	11.1	233.3
Other softwoods:												
Sawtimber	0	0	0	0	0	0	0	0	--	--	--	--
Poletimber	0	0	0	0	0	0	0	0	--	--	--	--
Sapling and seedling	0	0	0	0	0	0	0	0	--	--	--	--
Nonstocked	0	0	0	0	0	0	0	0	--	--	--	--
Total	0	0	0	0	0	0	0	0	--	--	--	--
Aspen:												
Sawtimber	0	0	0	0	0	0	0	0	56.3	56.4	--	112.7
Poletimber	0	0	0	0	0	0	0	0	--	24.2	24.1	48.3
Sapling and seedling	0	0	0	0	0	0	0	5.4	--	5.4	5.3	16.1
Nonstocked	0	0	0	0	0	0	0	0	--	--	--	--
Total	0	0	0	0	0	0	0	5.4	56.3	86.0	29.4	177.1
Cottonwood:												
Sawtimber	0	0	0	0	0	0	0	0	--	--	--	--
Poletimber	0	0	0	0	0	0	0	0	--	--	--	--
Sapling and seedling	0	0	0	0	0	0	0	0	--	--	--	--
Nonstocked	0	0	0	0	0	0	0	0	--	--	--	--
Total	0	0	0	0	0	0	0	0	--	--	--	--
Other hardwoods:												
Sawtimber	0	0	0	0	0	0	0	0	--	--	--	--
Poletimber	0	0	0	0	0	0	0	0	--	--	--	--
Sapling and seedling	0	0	0	0	0	0	0	0	--	--	--	--
Nonstocked	0	0	0	0	0	0	0	0	--	--	--	--
Total	0	0	0	0	0	0	0	0	--	--	--	--
All forest type:												
Sawtimber	0	0	0	0	0	0	0	57.4	549.9	1,055.4	1,662.7	
Poletimber	0	0	0	0	0	0	0	--	24.2	107.4	131.6	
Sapling and seedling	0	0	0	0	0	0	0	44.2	44.3	44.3	132.8	
Nonstocked	0	0	0	0	0	0	0	--	--	--	--	
Total	0	0	0	0	0	0	0	44.2	618.4	1,207.1	1,927.1	

Table 23.--Area of commercial timberland in Utah by owner group, forest type, stand-size class, and productivity class, 1977

Forest type and stand-size class	National Forest					Other public						
	Productivity class					Productivity class						
	165+	120-164	85-119	50-84	20-49	Total	165+	120-164	85-119	50-84	20-49	Total
----- Thousand acres -----												
Douglas-fir:												
Sawtimber	(1)		.9	48.4	189.4	238.7	--	--	1.1	21.8	74.5	97.4
Poetimber	--	--	--	1.2	27.9	29.1	--	--	--	--	3.9	3.9
Sapling and seedling	--	--	--	(1)	3.7	3.7	--	--	--	2.6	11.4	14.0
Nonstocked	--	--	--	--	1.8	1.8	--	--	.5	--	--	1.0
Total	--	(1)	.9	49.6	222.8	273.3	--	--	1.6	24.9	89.8	116.3
Hemlock:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poetimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Ponderosa pine:												
Sawtimber	--	--	--	2.5	273.4	275.9	--	--	--	8.3	53.6	61.9
Poetimber	--	--	--	--	13.6	13.6	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	23.7	23.7	--	--	--	--	1.4	1.4
Nonstocked	--	--	--	--	10.9	10.9	--	--	--	5.9	2.3	8.2
Total	--	--	--	2.5	321.6	324.1	--	--	--	14.2	57.3	71.5
White pine:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poetimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Lodgepole pine:												
Sawtimber	--	--	--	8.0	208.5	216.5	--	--	--	--	6.7	6.7
Poetimber	--	--	--	1.8	172.1	173.9	--	--	--	--	2.1	2.1
Sapling and seedling	--	--	--	--	33.4	33.4	--	--	--	--	.5	.5
Nonstocked	--	--	--	--	.9	.9	--	--	--	--	1.7	1.7
Total	--	--	--	9.8	414.9	424.7	--	--	--	--	11.0	11.0
Larch:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poetimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Western redcedar:												
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poetimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0

Lumber pine:												
Sawtimber	--	--	(¹)	18.6	18.6	18.6	--	--	--	--	1.4	1.4
Poletimber	--	--	--	.7	.7	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	6.0	6.0
Total	--	--	(¹)	19.3	19.3	19.3	--	--	--	--	7.4	7.4
White firs:												
Sawtimber	--	--	18.1	91.5	109.6	--	--	.9	5.1	1.3	7.3	7.3
Poletimber	--	--	--	7.2	7.2	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	3.3	3.3	--	--	--	.5	--	--	.5
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	18.1	102.0	120.1	--	--	.9	5.6	1.3	7.8	7.8
Fir-spruce:												
Sawtimber	--	23.5	215.2	346.9	585.6	--	.4	13.6	23.5	8.9	46.4	46.4
Poletimber	--	--	8.3	50.9	59.2	--	--	1.9	4.4	1.4	7.7	7.7
Sapling and seedling	--	--	3.4	19.0	22.4	--	--	--	2.2	.7	2.9	2.9
Nonstocked	--	--	--	3.0	3.0	--	--	--	--	--	--	--
Total	--	23.5	226.9	419.8	670.2	--	.4	15.5	30.1	11.0	57.0	57.0
Pinyon-juniper:												
Sawtimber	--	--	--	--	--	--	--	--	--	9.5	9.5	9.5
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	1.3	1.3	1.3
Total	--	--	--	--	--	--	--	--	--	10.8	10.8	10.8
Aspen:												
Sawtimber	--	--	16.9	135.3	152.2	--	--	2.1	23.9	6.2	32.2	32.2
Poletimber	--	--	16.1	201.9	218.0	--	--	2.3	11.0	17.8	31.1	31.1
Sapling and seedling	--	--	--	46.2	46.2	--	--	--	4.2	10.0	14.2	14.2
Nonstocked	--	--	2.3	26.6	28.9	--	--	--	--	.5	.5	.5
Total	--	--	35.3	410.0	445.3	--	--	4.4	39.1	34.5	78.0	78.0
Cottonwood:												
Sawtimber	--	--	--	--	--	--	--	--	--	1.7	1.7	1.7
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	1.7	1.7	1.7
All forest types:												
Sawtimber	--	(¹)	309.1	1,263.6	1,597.1	--	.4	17.7	82.6	163.8	264.5	264.5
Poletimber	--	--	27.4	474.3	501.7	--	--	4.2	15.4	25.2	44.8	44.8
Sapling and seedling	--	--	3.4	129.3	132.7	--	--	--	9.5	24.0	33.5	33.5
Nonstocked	--	--	2.3	43.2	45.5	--	--	.5	6.4	11.8	18.7	18.7
Total	--	(¹)	342.2	1,910.4	2,277.0	--	.4	22.4	113.9	224.8	361.5	361.5

¹Less than 0.05 thousand acres.

Table 23 (con.)

Forest type and stand-size class	Forest industry					Other private						
	Productivity class					Productivity class						
	165+	120-164	85-119	50-84	20-49	Total	165+	120-164	85-119	50-84	20-49	Total
----- Thousand acres -----												
Douglas-fir:	0	0	0	0	0	0	0	0	0	0	0	0
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Hemlock:	0	0	0	0	0	0	0	0	0	0	0	0
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Ponderosa pine:	0	0	0	0	0	0	0	0	0	0	0	0
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
White pine:	0	0	0	0	0	0	0	0	0	0	0	0
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Lodgepole pine:	0	0	0	0	0	0	0	0	0	0	0	0
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Larch:	0	0	0	0	0	0	0	0	0	0	0	0
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Western redcedar:	0	0	0	0	0	0	0	0	0	0	0	0
Sawtimber	0	0	0	0	0	0	0	0	0	0	0	0
Poletimber	0	0	0	0	0	0	0	0	0	0	0	0
Sapling and seedling	0	0	0	0	0	0	0	0	0	0	0	0
Nonstocked	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0

Lumber pine:										
Sawtimber	--	--	()	18.6	18.6	--	--	--	1.4	1.4
Poletimber	--	--	--	.7	.7	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	6.0	6.0
Total	--	--	()	19.3	19.3	--	--	--	7.4	7.4
White firs:										
Sawtimber	0	0	0	0	0	--	4.3	10.5	7.3	22.1
Poletimber	0	0	0	0	0	--	--	--	--	--
Sapling and seedling	0	0	0	0	0	--	--	1.4	--	1.4
Nonstocked	0	0	0	0	0	--	--	--	--	--
Total	0	0	0	0	0	--	4.3	11.9	7.3	23.5
Fir-spruce:										
Sawtimber	0	0	0	0	0	--	18.6	51.2	23.2	95.1
Poletimber	0	0	0	0	0	--	.9	6.0	2.7	9.6
Sapling and seedling	0	0	0	0	0	--	--	4.7	.5	5.2
Nonstocked	0	0	0	0	0	--	--	--	--	--
Total	0	0	0	0	0	--	19.5	61.9	26.4	109.9
Pinyon-juniper:										
Sawtimber	0	0	0	0	0	--	--	--	5.3	5.3
Poletimber	0	0	0	0	0	--	--	--	--	--
Sapling and seedling	0	0	0	0	0	--	--	--	--	--
Nonstocked	0	0	0	0	0	--	--	--	1.0	1.0
Total	0	0	0	0	0	--	2.1	19.5	61.9	109.9
Aspen:										
Sawtimber	0	0	0	0	0	--	4.9	31.0	15.3	51.2
Poletimber	0	0	0	0	0	--	5.9	36.6	61.0	103.5
Sapling and seedling	0	0	0	0	0	--	--	13.8	24.5	38.3
Nonstocked	0	0	0	0	0	--	--	--	.7	.7
Total	0	0	0	0	0	--	10.8	81.4	101.5	193.7
Cottonwood:										
Sawtimber	0	0	0	0	0	--	--	--	8.8	8.8
Poletimber	0	0	0	0	0	--	--	--	--	--
Sapling and seedling	0	0	0	0	0	--	--	--	--	--
Nonstocked	0	0	0	0	0	--	--	--	--	--
Total	0	0	0	0	0	--	--	--	8.8	8.8
All forest type:										
Sawtimber	0	0	0	0	0	--	31.9	127.9	151.2	313.1
Poletimber	0	0	0	0	0	--	6.8	42.6	78.2	127.6
Sapling and seedling	0	0	0	0	0	--	--	21.7	37.5	59.2
Nonstocked	0	0	0	0	0	--	2.2	3.4	7.3	12.9
Total	0	0	0	0	0	--	40.9	195.6	274.2	512.8

Table 24.--Area of productive reserved, productive deferred, and other forest land in the Rocky Mountain States by forest type and State, 1977

State	Forest type														Total
	Douglas- fir	Ponderosa pine	Western white pine	Hem- lock	Larch	Lodge- pole pine	Spruce	True firs	Pinyon- juniper	Other soft- woods	Aspen	Cotton- wood	Other hard- woods	Chaparral	
----- Thousand acres -----															
Northern Rocky Mountain States:															
North Idaho:															
Productive reserved	212.5	76.6	6.4	26.2	41.8	298.3	22.1	147.6	--	22.4	--	--	2.3	--	856.2
Productive deferred	180.0	56.9	1.7	9.3	19.8	127.1	8.7	82.7	--	11.3	--	--	.7	--	498.2
Other forest land:															
Reserved	44.4	19.1	.3	.9	3.4	151.6	25.0	86.7	--	37.6	--	--	--	--	369.0
Nonreserved	138.5	32.4	11.4	27.8	42.5	211.5	19.3	203.2	--	60.7	1.1	--	.4	81.4	830.2
Total	575.4	185.0	19.8	64.2	107.5	788.5	75.1	520.2	--	132.0	1.1	--	3.4	81.4	2,553.6
South Idaho:															
Productive reserved	481.6	67.3	0	0	--	240.9	81.2	122.3	--	46.8	10.0	(¹)	6.7	--	1,056.8
Productive deferred	187.7	59.3	0	0	1.0	74.4	21.4	68.1	--	16.7	5.7	.3	2.5	--	437.1
Other forest land:															
Reserved	79.5	4.2	0	0	--	10.6	7.9	68.6	--	56.8	7.8	(¹)	5.6	1.2	242.2
Nonreserved	1,313.4	286.0	0	0	.7	524.2	65.8	512.6	404.3	351.2	280.7	2.4	57.6	97.4	3,896.3
Total	2,062.2	416.8	0	0	1.7	850.1	176.3	771.6	404.3	471.5	304.2	2.7	72.4	98.6	5,632.4
Western Montana:															
Productive reserved	141.6	48.8	2.6	15.6	151.8	441.9	173.0	74.2	--	112.0	2.0	--	--	--	1,163.5
Productive deferred	95.2	16.7	1.8	3.0	31.2	122.7	18.8	63.4	--	14.3	--	--	--	--	367.1
Other forest land:															
Reserved	30.4	.2	.2	16.3	8.5	52.0	57.0	73.9	--	385.7	--	(¹)	--	--	624.2
Nonreserved	166.2	18.7	1.9	11.7	35.6	173.0	85.9	155.2	7.1	327.3	26.0	--	--	2.1	1,010.7
Total	433.4	84.4	6.5	46.6	227.1	789.6	334.7	366.7	7.1	839.3	28.0	(¹)	--	2.1	3,165.5
Eastern Montana:															
Productive reserved	118.8	3.9	0	0	0	486.0	36.4	50.1	--	132.1	11.0	--	--	--	838.3
Productive deferred	72.5	.6	0	0	0	196.2	5.8	33.2	--	29.0	4.3	--	--	--	341.6
Other forest land:															
Reserved	99.2	7.4	0	0	0	196.8	5.1	53.3	--	383.9	2.9	--	--	1.8	750.4
Nonreserved	394.0	216.4	0	0	0	613.3	117.7	85.4	469.1	571.2	162.3	39.6	93.6	341.5	3,104.1
Total	684.5	228.3	0	0	0	1,492.3	165.0	222.0	469.1	1,116.2	180.5	39.6	93.6	343.3	5,034.4
Western South Dakota:															
Productive reserved	0	11.1	0	0	0	--	--	0	--	--	--	--	--	--	11.1
Productive deferred	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other forest land:															
Reserved	0	.8	0	0	0	--	.2	0	--	--	--	--	.3	--	1.3
Nonreserved	0	66.6	0	0	0	--	.5	0	4.4	3.8	2.3	4.4	28.8	--	110.8
Total	0	78.5	0	0	0	0	.7	0	4.4	3.8	2.3	4.4	29.1	--	123.2
Wyoming:															
Productive reserved	237.4	.2	0	0	0	1,657.2	475.6	142.4	--	163.3	12.5	--	--	--	2,688.6
Productive deferred	65.9	1.2	0	0	0	109.6	60.5	45.3	--	44.4	4.2	.2	--	--	331.3
Other forest land:															
Reserved	37.7	--	0	0	0	41.0	69.1	32.9	.1	88.2	10.7	--	--	12.3	292.0
Nonreserved	307.4	80.5	0	0	0	395.4	346.3	150.0	577.6	173.2	229.3	.5	.3	121.7	2,382.2
Total	648.4	81.9	0	0	0	2,203.2	951.5	370.6	577.7	469.1	256.7	.7	.3	134.0	5,694.1
Total, Northern Rocky Mountain States:															
Productive reserved	1,191.9	207.9	9.0	41.8	193.6	3,124.3	788.3	536.6	--	476.6	35.5	(¹)	9.0	--	6,614.5
Productive deferred	601.3	134.7	3.5	12.3	52.0	630.0	115.2	292.7	--	115.7	14.2	.5	3.2	--	1,975.3
Other forest land:															
Reserved	291.2	31.7	.5	17.2	11.9	452.0	164.3	315.4	.1	952.2	21.4	(¹)	5.9	15.3	2,279.1
Nonreserved	2,319.5	700.6	13.3	39.5	78.8	1,917.4	635.5	1,106.4	1,462.5	1,487.4	701.7	46.9	180.7	644.1	11,334.3
Total	4,403.9	1,074.9	26.3	110.8	336.3	6,123.7	1,703.3	2,251.1	1,462.6	3,031.9	772.8	47.4	198.8	659.4	22,203.2

¹Less than 0.05 thousand acres.

Table 24 (con.)

State	Forest type														Total
	Douglas-fir	Ponderosa pine	Western white pine	Hem-lock	Larch	Lodge-pole pine	Spruce	True firs	Pinyon-juniper	Other soft-woods	Aspen	Cotton-wood	Other hard-woods	Chaparral	
----- <i>Thousand acres</i> -----															
Southern Rocky Mountain States:															
Arizona:															
Productive reserved	37.9	332.8	0	0	0	0	8.4	--	--	--	3.7	--	--	--	382.8
Productive deferred	4.1	13.5	0	0	0	0	.4	--	--	--	1.1	--	--	--	19.1
Other forest land:															
Reserved	--	--	0	0	0	0	--	--	760.8	--	--	--	--	--	760.8
Nonreserved	.7	421.3	0	0	0	0	--	.7	11,265.5	--	8.5	--	109.9	1,629.0	13,435.6
Total	42.7	767.6	0	0	0	0	8.8	.7	12,026.3	--	13.3	--	109.9	1,629.0	14,598.3
Colorado:															
Productive reserved	17.6	22.2	0	0	0	109.0	506.4	(¹)	--	.2	28.6	(¹)	--	--	684.0
Productive deferred	31.2	24.3	0	0	0	169.1	445.3	1.3	--	.1	80.9	--	--	--	752.2
Other forest land:															
Reserved	4.9	.7	0	0	0	2.5	89.6	--	148.5	39.5	7.3	--	--	28.0	321.0
Nonreserved	134.5	209.6	0	0	0	245.5	522.7	.2	4,258.5	344.1	511.6	1.7	--	2,970.7	9,199.1
Total	188.2	256.8	0	0	0	526.1	1,564.0	1.5	4,407.0	383.9	628.4	1.7	--	2,998.7	10,956.3
Nevada:															
Productive reserved	.8	.8	--	--	0	--	.2	3.4	--	--	.7	--	--	--	5.9
Productive deferred	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other forest land:															
Reserved	.3	--	--	--	0	--	--	18.3	14.5	18.6	8.0	--	1.9	5.0	66.6
Nonreserved	16.0	13.5	--	--	0	46.1	3.3	86.4	4,644.7	1,249.8	212.3	6.9	13.7	1,183.8	7,476.5
Total	17.1	14.3	0	0	0	46.1	3.5	108.1	4,659.2	1,268.4	221.0	6.9	15.6	1,188.8	7,549.0
New Mexico:															
Productive reserved	152.2	252.4	0	0	0	0	111.7	--	--	.1	34.1	--	--	--	550.5
Productive deferred	98.0	123.1	0	0	0	0	36.0	--	--	--	22.4	--	--	--	279.5
Other forest land:															
Reserved	--	43.8	0	0	0	0	--	--	442.3	--	13.8	--	.1	3.5	503.5
Nonreserved	55.4	417.7	0	0	0	0	8.2	10.6	10,236.4	4.6	27.4	--	4.4	424.1	11,188.8
Total	305.6	837.0	0	0	0	0	155.9	10.6	10,678.7	4.7	97.7	--	4.5	427.6	12,522.3
Utah:															
Productive reserved	18.1	15.9	0	0	0	33.4	31.3	14.0	(¹)	.1	11.5	--	--	--	124.3
Productive deferred	20.2	15.4	0	0	0	41.9	36.8	26.9	--	.1	16.0	--	--	--	157.3
Other forest land:															
Reserved	6.0	1.9	0	0	0	19.3	5.8	3.3	354.0	1.4	3.5	1.5	32.0	--	428.7
Nonreserved	195.6	95.9	0	0	0	148.1	186.8	204.9	8,846.0	24.0	900.0	67.5	1,536.2	--	12,205.0
Total	239.9	129.1	0	0	0	242.7	260.7	249.1	9,200.0	25.6	931.0	69.0	1,568.2	--	12,915.3
Total, Southern Rocky Mountain States:															
Productive reserved	226.6	624.1	--	--	0	142.4	658.0	17.4	(¹)	.4	78.6	(¹)	--	--	1,747.5
Productive deferred	153.5	176.3	--	--	0	211.0	518.5	28.2	--	.2	120.4	--	--	--	1,208.1
Other forest land:															
Reserved	11.2	46.4	--	--	0	21.8	95.4	21.6	1,720.1	59.5	32.6	1.5	34.0	36.5	2,080.6
Nonreserved	402.2	1,158.0	--	--	0	439.7	721.0	302.8	39,251.1	1,622.5	1,659.8	76.1	1,664.2	6,207.6	53,505.0
Total	793.5	2,004.8	--	--	0	814.9	1,992.9	370.0	40,971.2	1,682.6	1,891.4	77.6	1,698.2	6,244.1	58,541.2
Total, Rocky Mountain States:															
Productive reserved	1,418.5	832.0	9.0	41.8	193.6	3,266.7	1,446.3	554.0	(¹)	477.0	114.1	(¹)	9.0	--	8,362.0
Productive deferred	754.8	311.0	3.5	12.3	52.0	841.0	633.7	320.9	--	115.9	134.6	.5	3.2	--	3,183.4
Other forest land:															
Reserved	302.4	78.1	.5	17.2	11.9	473.8	259.7	337.0	1,720.2	1,011.7	54.0	1.5	39.9	51.8	4,359.7
Nonreserved	2,721.7	1,858.6	13.3	39.5	78.8	2,357.1	1,356.5	1,409.2	40,713.6	3,109.9	2,361.5	123.0	1,844.9	6,851.7	64,839.3
Total	5,197.4	3,079.7	26.3	110.8	336.3	6,938.6	3,696.2	2,621.1	42,433.8	4,714.5	2,664.2	125.0	1,897.0	6,903.5	80,744.4

¹Less than 0.05 thousand acres.

Table 25.--Number of growing stock trees on commercial timberland in the Northern Rocky Mountain States by diameter class and species group, 1977

State; diameter class (inches)	Softwoods	Hardwoods	All species
- - - - - <i>Thousand trees</i> - - - - -			
North Idaho			
1.0-2.9	883,472	27,132	910,604
3.0-4.9	634,369	15,623	649,992
5.0-6.9	467,542	8,637	476,179
7.0-8.9	315,386	4,074	319,460
9.0-10.9	204,481	1,591	206,072
11.0-12.9	126,163	589	126,752
13.0-14.9	81,340	243	81,583
15.0-16.9	50,036	90	50,126
17.0-18.9	32,591	49	32,640
19.0-20.9	20,769	26	20,795
21.0-22.9	13,849	24	13,873
23.0-24.9	9,104	23	9,127
25.0-26.9	5,888	22	5,910
27.0-28.9	3,883	20	3,903
29.0+	7,322	57	7,379
Total	2,856,195	58,200	2,914,395

Table 26.--Number of growing stock trees on commercial timberland in the Northern Rocky Mountain States by diameter class and species group, 1977

State; diameter class (inches)	Softwoods	Hardwoods	All species
- - - - - <i>Thousand trees</i> - - - - -			
South Idaho			
1.0-2.9	496,318	14,406	510,724
3.0-4.9	433,735	11,158	444,893
5.0-6.9	272,098	6,080	278,178
7.0-8.9	178,872	4,172	183,044
9.0-10.9	107,759	2,324	110,083
11.0-12.9	62,032	1,332	63,364
13.0-14.9	42,627	685	43,312
15.0-16.9	24,724	315	25,039
17.0-18.9	16,160	184	16,344
19.0-20.9	11,054	108	11,162
21.0-22.9	8,077	67	8,144
23.0-24.9	6,008	41	6,049
25.0-26.9	4,125	26	4,151
27.0-28.9	2,919	16	2,935
29.0+	7,976	10	7,986
Total	1,674,484	40,924	1,715,408

Table 27.--Number of growing stock trees on commercial timberland in the Northern Rocky Mountain States by diameter class and species group, 1977

State; diameter class (inches)	Softwoods	Hardwoods	All species
- - - - - <i>Thousand trees</i> - - - - -			
Western Montana			
1.0-2.9	2,353,158	32,212	2,385,370
3.0-4.9	1,455,860	9,853	1,465,713
5.0-6.9	939,651	5,785	945,436
7.0-8.9	554,020	2,166	556,186
9.0-10.9	295,721	735	296,456
11.0-12.9	163,568	569	164,137
13.0-14.9	92,798	298	93,096
15.0-16.9	54,250	227	54,477
17.0-18.9	32,534	131	32,665
19.0-20.9	20,695	13	20,708
21.0-22.9	12,534	101	12,635
23.0-24.9	6,615	22	6,637
25.0-26.9	4,228	1	4,229
27.0-28.9	2,438	--	2,438
29.0+	3,780	2	3,782
Total	5,991,850	52,115	6,043,965

Table 28.--Number of growing stock trees on commercial timberland in the Northern Rocky Mountain States by diameter class and species group, 1977

State; diameter class (inches)	Softwoods	Hardwoods	All species
- - - - - <i>Thousand trees</i> - - - - -			
Eastern Montana			
1.0-2.9	1,070,197	783	1,070,980
3.0-4.9	642,841	2,634	645,475
5.0-6.9	451,620	3,260	454,880
7.0-8.9	264,243	3,309	267,552
9.0-10.9	142,858	2,834	145,692
11.0-12.9	74,634	2,359	76,993
13.0-14.9	37,798	1,882	39,680
15.0-16.9	19,606	1,414	21,020
17.0-18.9	9,778	1,033	10,811
19.0-20.9	5,242	743	5,985
21.0-22.9	2,743	521	3,264
23.0-24.9	1,464	362	1,826
25.0-26.9	797	242	1,039
27.0-28.9	378	160	538
29.0+	609	18	627
Total	2,724,808	21,554	2,746,362

Table 29.--Number of growing stock trees on commercial timberland in the Northern Rocky Mountain States by diameter class and species group, 1977

State; diameter class (inches)	Softwoods	Hardwoods	All species
- - - - - <i>Thousand trees</i> - - - - -			
Western			
South Dakota			
1.0-2.9	189,327	7,517	196,844
3.0-4.9	113,123	3,831	116,954
5.0-6.9	78,110	3,663	81,773
7.0-8.9	49,878	949	50,827
9.0-10.9	30,769	276	31,045
11.0-12.9	17,974	61	18,035
13.0-14.9	9,854	18	9,872
15.0-16.9	5,065	8	5,073
17.0-18.9	2,535	11	2,546
19.0-20.9	1,192	4	1,196
21.0-22.9	467	7	474
23.0-24.9	179	2	181
25.0-26.9	78	5	83
27.0-28.9	15	--	15
29.0+	10	5	15
Total	498,576	16,357	514,933

Table 30.--Number of growing stock trees on commercial timberland in the Northern Rocky Mountain States by diameter class and species group, 1977

State; diameter class (inches)	Softwoods	Hardwoods	All species
- - - - - <i>Thousand trees</i> - - - - -			
Wyoming			
1.0-2.9	682,885	55,352	738,237
3.0-4.9	449,911	38,659	488,570
5.0-6.9	302,939	25,096	328,035
7.0-8.9	182,528	12,865	195,393
9.0-10.9	117,580	6,509	124,089
11.0-12.9	65,009	2,554	67,563
13.0-14.9	37,246	1,010	38,256
15.0-16.9	19,397	293	19,690
17.0-18.9	11,116	57	11,173
19.0-20.9	6,176	4	6,180
21.0-22.9	3,196	4	3,200
23.0-24.9	1,900	--	1,900
25.0-26.9	1,262	1	1,263
27.0-28.9	588	--	588
29.0+	896	1	897
Total	1,882,629	142,405	2,025,034

Table 31.--Number of growing stock trees on commercial timberland in the Southern Rocky Mountain States by diameter class and species group, 1977

State; diameter class (inches)	Softwoods	Hardwoods	All species
- - - - - <i>Thousand trees</i> - - - - -			
Arizona			
1.0-2.9	350,666	14,656	365,322
3.0-4.9	202,135	9,733	211,868
5.0-6.9	117,073	10,796	127,869
7.0-8.9	77,580	6,384	83,964
9.0-10.9	53,116	4,043	57,159
11.0-12.9	35,162	2,838	38,000
13.0-14.9	23,142	1,680	24,822
15.0-16.9	16,160	822	16,982
17.0-18.9	11,975	483	12,458
19.0-20.9	8,770	201	8,971
21.0-22.9	6,270	111	6,381
23.0-24.9	4,761	15	4,776
25.0-26.9	3,199	8	3,207
27.0-28.9	2,209	3	2,212
29.0+	2,713	1	2,714
Total	914,931	51,774	966,705

Table 32.--Number of growing stock trees on commercial timberland in the Southern Rocky Mountain States by diameter class and species group, 1977

State; diameter class (inches)	Softwoods	Hardwoods	All species
- - - - - <i>Thousand trees</i> - - - - -			
Colorado			
1.0-2.9	806,251	597,798	1,404,049
3.0-4.9	590,109	358,884	948,993
5.0-6.9	416,099	213,425	629,524
7.0-8.9	286,557	111,618	398,175
9.0-10.9	182,535	55,927	238,462
11.0-12.9	107,932	22,421	130,353
13.0-14.9	61,959	8,935	70,894
15.0-16.9	36,295	3,721	40,016
17.0-18.9	20,864	1,594	22,458
19.0-20.9	11,870	664	12,534
21.0-22.9	7,206	205	7,411
23.0-24.9	4,260	143	4,403
25.0-26.9	2,267	46	2,313
27.0-28.9	1,397	39	1,436
29.0+	1,464	--	1,464
Total	2,537,065	1,375,420	3,912,485

Table 33.--Number of growing stock trees on commercial timberland in the Southern Rocky Mountain States by diameter class and species group, 1977

State; diameter class (inches)	Softwoods	Hardwoods	All species
- - - - - <i>Thousand trees</i> - - - - -			
Nevada			
1.0-2.9	4,105	532	4,637
3.0-4.9	3,235	510	3,745
5.0-6.9	2,672	1,204	3,876
7.0-8.9	1,763	401	2,164
9.0-10.9	1,374	294	1,668
11.0-12.9	1,046	363	1,409
13.0-14.9	744	116	860
15.0-16.9	658	3	661
17.0-18.9	485	2	487
19.0-20.9	377	1	378
21.0-22.9	297	--	297
23.0-24.9	249	--	249
25.0-26.9	184	--	184
27.0-28.9	146	--	146
29.0+	337	--	337
Total	17,672	3,426	21,098

Table 34.--Number of growing stock trees on commercial timberland in the Southern Rocky Mountain States by diameter class and species group, 1977

State; diameter class (inches)	Softwoods	Hardwoods	All species
- - - - - <i>Thousand trees</i> - - - - -			
New Mexico			
1.0-2.9	538,093	56,104	594,197
3.0-4.9	326,947	45,108	372,055
5.0-6.9	197,249	34,162	231,411
7.0-8.9	118,424	20,606	139,030
9.0-10.9	75,027	11,117	86,144
11.0-12.9	47,579	6,215	53,794
13.0-14.9	31,137	2,975	34,112
15.0-16.9	20,346	1,608	21,954
17.0-18.9	13,423	810	14,233
19.0-20.9	8,344	356	8,700
21.0-22.9	5,284	157	5,441
23.0-24.9	3,405	2	3,407
25.0-26.9	2,078	--	2,078
27.0-28.9	1,235	--	1,235
29.0+	1,302	--	1,302
Total	1,389,873	179,220	1,569,093

Table 35.--Number of growing stock trees on commercial timberland in the Southern Rocky Mountain States by diameter class and species group, 1977

State; diameter class (inches)	Softwoods	Hardwoods	All species
- - - - - <i>Thousand trees</i> - - - - -			
Utah			
1.0-2.9	255,400	97,592	352,992
3.0-4.9	193,285	96,154	289,439
5.0-6.9	139,060	76,993	216,053
7.0-8.9	85,224	34,747	119,971
9.0-10.9	51,865	14,732	66,597
11.0-12.9	29,880	8,347	38,227
13.0-14.9	19,040	3,644	22,684
15.0-16.9	10,702	1,564	12,266
17.0-18.9	7,209	640	7,849
19.0-20.9	4,132	155	4,287
21.0-22.9	2,566	106	2,672
23.0-24.9	1,794	45	1,839
25.0-26.9	1,053	18	1,071
27.0-28.9	647	12	659
29.0+	1,083	6	1,089
Total	802,940	334,755	1,137,695

Table 36.--Growing stock trees per acre on commercial timberland in the Rocky Mountain States by owner group and diameter class, 1977

State and owner group	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	
----- Trees per acre -----															
Northern Rocky Mountain States:															
North Idaho:															
National Forest	70.2	47.1	49.7	36.2	24.1	14.8	10.0	6.1	4.2	2.7	1.9	1.3	0.9	0.6	1.2
Other public and private	175.5	128.9	76.1	47.6	29.9	18.3	11.3	7.0	4.3	2.7	1.6	1.0	.6	.4	.7
South Idaho:															
National Forest	84.9	77.6	48.4	31.8	18.8	10.6	7.3	4.1	2.7	1.9	1.4	1.1	.7	.5	1.5
Other public and private	103.6	69.6	44.4	29.5	19.3	12.5	8.1	5.2	3.4	2.1	1.4	.9	.5	.3	.7
Western Montana:															
National Forest	191.5	122.7	89.3	53.6	26.5	14.0	7.6	4.3	2.6	1.8	1.1	.7	.5	.3	.5
Other public and private	347.6	206.0	117.7	67.6	39.2	22.6	13.3	8.0	4.7	2.9	1.7	.7	.4	.3	.2
Eastern Montana:															
National Forest	241.2	149.4	120.0	72.0	38.5	19.6	9.5	4.8	2.2	1.2	.6	.3	.2	.1	.2
Other public and private	189.6	110.1	62.5	35.2	19.9	11.3	6.4	3.7	2.1	1.2	.7	.4	.2	.1	.1
Western South Dakota:															
National Forest	143.1	82.7	65.2	42.7	25.8	14.9	8.2	4.4	2.2	1.1	.4	.2	.1	(¹)	(¹)
Other public and private	207.4	131.0	67.5	34.9	22.1	13.0	7.1	3.0	1.6	.7	.3	.1	(¹)	(¹)	(¹)
Wyoming:															
National Forest	112.4	91.5	71.5	44.7	30.6	16.9	9.8	5.0	2.9	1.6	.8	.5	.4	.2	.3
Other public and private	307.0	162.8	85.7	46.1	23.9	12.5	6.6	3.5	1.8	.9	.5	.3	.1	(¹)	.1
Total, Northern Rocky Mountain States:															
National Forest	135.2	94.2	72.0	45.5	26.2	14.5	8.6	4.8	2.9	1.9	1.2	.8	.6	.3	.8
Other public and private	240.9	148.3	84.7	49.5	29.1	17.1	10.1	6.0	3.6	2.2	1.3	.7	.4	.2	.4
Southern Rocky Mountain States:															
Arizona:															
National Forest	105.3	56.9	32.2	20.2	13.6	8.8	5.6	3.8	3.0	2.2	1.6	1.3	0.8	0.6	0.7
Other public and private	74.0	50.0	33.8	23.9	16.5	11.3	7.8	5.3	3.6	2.5	1.7	1.2	.8	.5	.7
Colorado:															
National Forest	88.3	71.9	53.5	35.9	22.5	12.3	6.7	3.9	2.2	1.3	.8	.5	.3	.2	.2
Other public and private	194.5	107.4	59.7	33.8	18.3	9.9	5.3	2.9	1.5	.8	.4	.2	.1	.1	.1
Nevada:															
National Forest	39.4	33.0	40.8	18.0	13.7	12.5	5.8	4.4	2.9	2.2	1.8	1.6	1.1	.9	1.7
Other public and private	50.5	23.6	18.9	14.5	11.3	8.8	6.9	5.4	4.2	3.3	2.6	2.0	1.6	1.3	3.2
New Mexico:															
National Forest	80.7	48.6	33.0	20.2	13.4	8.7	5.9	4.1	2.8	1.8	1.1	.7	.4	.3	.3
Other public and private	134.8	86.5	50.9	30.2	17.8	10.8	6.5	3.8	2.3	1.4	.8	.5	.3	.2	.1
Utah:															
National Forest	115.1	96.8	72.8	39.9	21.4	12.1	7.2	3.9	2.5	1.4	.8	.6	.4	.2	.4
Other public and private	105.8	78.8	57.5	33.4	20.5	12.1	7.2	3.9	2.5	1.3	1.0	.6	.3	.2	.3
Total, Southern Rocky Mountain States:															
National Forest	93.5	68.7	49.1	30.9	19.1	11.1	6.5	3.9	2.5	1.5	1.0	.7	.4	.2	.4
Other public and private	146.7	88.3	52.3	30.9	18.0	10.6	6.3	3.7	2.2	1.3	.8	.5	.3	.2	.2
Total, Rocky Mountain States:															
National Forest	117.9	83.6	62.5	39.4	23.3	13.1	7.7	4.4	2.8	1.7	1.1	.8	.5	.3	.6
Other public and private	201.1	122.9	71.0	41.7	24.4	14.3	8.5	5.0	3.0	1.8	1.1	.6	.4	.2	.5

¹Less than 0.05 trees per acre.

Table 37.--Net volume of growing stock on commercial timberland in the Northern Rocky Mountain States by species and diameter class, 1977

State and species	Diameter class (inches)														29.0+	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+	All classes		
----- Million cubic feet -----																
North Idaho																
Douglas-fir	267.1	353.7	477.5	519.4	526.0	484.1	396.7	335.0	287.6	207.2	160.8	107.5	211.0	4,333.6		
Ponderosa pine	26.8	38.9	81.8	113.9	134.5	115.4	101.4	84.8	66.0	58.8	57.4	60.5	244.9	1,185.1		
Western white pine	48.0	111.9	128.7	190.2	161.8	184.1	196.1	183.3	166.0	148.9	100.6	78.3	214.8	1,912.7		
Lodgepole pine	380.1	539.6	464.1	307.5	166.1	97.5	47.6	10.0	6.5	.4	1.0	.4	.3	2,021.1		
Whitebark pine	1.3	1.7	3.5	5.6	10.3	15.7	4.9	7.4	2.9	1.3	.9	.2	1.6	57.3		
Western larch	121.4	177.3	191.5	173.3	172.4	131.3	119.9	90.1	102.8	69.9	47.5	30.8	118.0	1,546.2		
Grand fir	215.5	330.4	398.0	443.3	449.6	386.3	374.2	310.5	249.2	242.3	216.8	168.7	450.6	4,235.4		
Subalpine fir ¹	71.2	136.0	182.7	134.5	128.9	131.7	103.0	60.9	56.1	23.0	18.5	3.8	8.3	1,058.6		
White fir	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Engelmann spruce	35.0	66.5	87.9	119.0	139.5	130.3	129.8	127.8	110.6	92.8	55.0	40.5	86.2	1,220.9		
Western hemlock ²	49.3	95.9	128.6	124.0	140.5	121.0	113.5	87.3	65.8	59.3	38.7	27.6	87.3	1,138.8		
Western redcedar	87.4	129.1	174.3	183.8	194.2	162.5	163.8	164.9	125.5	101.0	88.5	90.4	341.1	2,006.5		
Other softwoods	52.0	160.0	--	--	--	--	--	--	--	--	--	--	--	212.0		
Total softwoods	1,355.1	2,141.0	2,318.6	2,314.5	2,223.8	1,959.9	1,750.9	1,462.0	1,239.0	1,004.9	785.7	608.7	1,764.1	20,928.2		
Aspen	2.6	4.2	.2	.5	.5	--	--	--	--	--	--	--	--	8.0		
Cottonwood	--	--	--	1.9	1.8	1.6	1.0	.8	.9	1.1	.5	1.3	6.7	17.6		
Other hardwoods	31.0	18.4	12.9	3.7	1.5	.1	.7	--	--	--	.7	--	4.2	73.2		
Total hardwoods	33.6	22.6	13.1	6.1	3.8	1.7	1.7	.8	.9	1.1	1.2	1.3	10.9	98.8		
All species	1,388.7	2,163.6	2,331.7	2,320.6	2,227.6	1,961.6	1,752.6	1,462.8	1,239.9	1,006.0	786.9	610.0	1,775.0	21,027.0		

¹Includes corkbark fir.

²Includes mountain hemlock.

Table 38.--Net volume of sawtimber on commercial timberland in the Northern Rocky Mountain States by species and diameter class, 1977

State and species	Diameter class (inches)												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 1/4-inch rule -----													
North Idaho													
Douglas-fir	2,028.2	2,503.4	2,587.4	2,402.0	1,972.8	1,729.2	1,512.1	1,110.6	891.9	620.7	1,195.2	18,553.5	
Ponderosa pine	276.5	505.9	681.0	610.4	556.9	472.0	333.3	317.8	316.0	334.9	1,400.7	5,805.4	
Western white pine	635.8	997.2	836.7	926.3	977.2	931.4	870.6	777.1	534.0	421.5	1,221.0	9,128.8	
Lodgepole pine	1,993.6	1,661.7	865.3	491.7	235.0	48.2	31.6	1.9	5.1	2.1	1.7	5,337.9	
Whitebark pine	18.3	32.0	56.9	83.5	25.0	35.1	14.2	6.4	4.4	1.2	7.8	284.8	
Western larch	1,052.8	1,005.8	956.5	711.7	630.9	458.6	555.7	379.9	250.9	153.7	594.7	6,751.2	
Grand fir	1,723.9	2,241.7	2,334.0	2,047.7	2,017.8	1,686.6	1,400.1	1,398.7	1,275.5	1,035.5	2,874.6	20,036.1	
Subalpine fir ¹	777.9	682.4	645.1	660.6	514.1	299.0	292.3	122.1	101.8	20.6	46.0	4,161.9	
White fir	0	0	0	0	0	0	0	0	0	0	0	0	
Engelmann spruce	381.5	637.0	733.9	677.4	670.5	666.1	599.4	538.1	333.0	249.3	506.4	5,992.6	
Western hemlock ²	476.0	570.8	691.6	636.5	622.0	493.1	399.8	391.1	257.9	206.8	688.5	5,434.1	
Western redcedar	757.7	831.8	887.6	752.6	764.6	763.5	610.0	507.5	463.3	485.0	1,998.0	8,821.6	
Other softwoods	--	--	--	--	--	--	--	--	--	--	--	--	
Total softwoods	10,122.2	11,669.7	11,276.0	10,000.4	8,986.8	7,582.8	6,619.1	5,551.2	4,433.8	3,531.3	10,534.6	90,307.9	
Aspen	XXXX	2.3	2.3	--	--	--	--	--	--	--	--	4.6	
Cottonwood	XXXX	12.3	11.3	11.0	7.0	5.0	6.0	7.0	3.4	9.0	51.0	123.0	
Other hardwoods	XXXX	24.7	9.7	.3	2.9	--	--	--	5.6	--	19.0	62.2	
Total hardwoods	XXXX	39.3	23.3	11.3	9.9	5.0	6.0	7.0	9.0	9.0	70.0	189.8	
All species	10,122.2	11,709.0	11,299.3	10,011.7	8,996.7	7,587.8	6,625.1	5,558.2	4,442.8	3,540.3	10,604.6	90,497.7	

¹Includes corkbark fir.
²Includes mountain hemlock.

Table 39.--Net volume of growing stock on commercial timberland in the Northern Rocky Mountain States by species and diameter class, 1977

State and species	Diameter class (inches)														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+		
South Idaho	-- Million cubic feet --														
Douglas-fir	107.0	227.6	284.5	337.1	490.2	393.1	374.2	354.0	317.9	286.5	236.4	198.9	616.1	4,223.5	
Ponderosa pine	15.5	36.0	60.1	76.1	97.7	92.7	90.9	84.9	122.2	128.8	140.8	132.3	818.2	1,896.2	
Western white pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lodgepole pine	324.7	506.4	489.2	331.0	168.2	80.6	38.6	19.6	10.4	6.0	1.8	1.6	.6	1,978.7	
Whitebark and limber pines	8.4	18.8	18.6	14.9	13.1	10.4	4.9	2.9	3.7	1.2	.9	1.0	2.1	100.9	
Western larch	.3	1.8	2.0	4.9	4.8	10.1	4.1	7.9	5.5	3.7	3.4	3.9	9.7	62.1	
Grand fir	14.4	25.7	35.8	34.7	35.9	46.9	41.5	31.6	25.9	20.9	20.1	15.5	76.4	425.3	
Subalpine fir ¹	120.2	153.0	165.3	150.3	130.5	99.0	76.2	61.3	35.9	28.5	13.4	8.7	10.5	1,052.8	
White fir	1.6	2.8	3.0	5.8	6.8	6.9	8.2	6.5	5.4	6.0	5.6	4.0	32.5	95.1	
Engelmann spruce	21.4	39.5	56.1	65.1	77.0	91.8	88.0	85.9	82.7	72.0	55.8	39.3	124.2	898.8	
Western hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Western redcedar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other softwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Total softwoods	613.5	1,011.6	1,114.6	1,019.9	1,024.2	831.5	726.6	654.6	609.6	553.6	478.2	405.2	1,690.3	10,733.4	
Aspen	13.4	16.4	15.1	15.6	7.4	1.2	.6	--	--	--	--	--	--	69.7	
Cottonwood	.2	.7	4.7	4.3	8.3	8.9	7.3	5.8	4.5	3.2	2.5	1.8	1.4	53.6	
Other hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Total hardwoods	13.6	17.1	19.8	19.9	15.7	10.1	7.9	5.8	4.5	3.2	2.5	1.8	1.4	123.3	
All species	627.1	1,028.7	1,134.4	1,039.8	1,039.9	841.6	734.5	660.4	614.1	556.8	480.7	407.0	1,691.7	10,856.7	

¹Includes corkbark fir.

Table 40.--Net volume of sawtimber on commercial timberland in the Northern Rocky Mountain States by species and diameter class, 1977

State and species	Diameter class (inches)											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+	
<i>Million board feet, International 1/4-inch rule</i>												
South Idaho												
Douglas-fir	1,227.4	1,701.0	2,548.1	2,086.0	2,042.9	1,942.5	1,836.6	1,640.2	1,368.7	1,153.2	3,563.3	21,109.9
Ponderosa pine	197.1	343.7	498.1	501.6	508.0	508.3	739.2	765.2	828.9	788.7	4,995.8	10,674.6
Western white pine	0	0	0	0	0	0	0	0	0	0	0	0
Lodgepole pine	2,182.9	1,740.4	888.4	426.1	205.9	104.1	53.5	32.1	10.2	9.1	3.2	5,655.9
Whitebark and limber pines	76.4	72.6	66.1	52.3	25.0	15.2	19.6	6.1	4.8	5.4	11.2	354.7
Western larch	11.0	27.6	27.0	58.8	23.6	47.5	33.3	23.5	20.8	24.0	58.5	355.6
Grand fir	142.5	148.2	158.5	223.0	206.7	153.7	125.8	98.0	95.3	78.5	363.0	1,793.2
Subalpine fir ¹	722.1	739.4	658.9	483.0	399.1	321.9	195.5	158.4	74.6	47.4	57.3	3,857.6
White fir	13.6	29.9	35.5	35.6	42.4	33.5	29.5	32.9	31.0	22.0	179.4	485.3
Engelmann spruce	264.7	333.8	396.2	478.6	461.3	448.7	454.4	401.3	314.1	219.5	682.4	4,455.0
Western hemlock	0	0	0	0	0	0	0	0	0	0	0	0
Western redcedar	0	0	0	0	0	0	0	0	0	0	0	0
Other softwoods	--	--	--	--	--	--	--	--	--	--	--	--
Total softwoods	4,837.7	5,136.6	5,276.8	4,345.0	3,914.9	3,575.4	3,487.4	3,157.7	2,748.4	2,347.8	9,914.1	48,741.8
Aspen	XXXXX	74.1	34.8	5.4	2.4	--	--	--	--	--	--	116.7
Cottonwood	XXXXX	23.2	44.6	47.8	39.4	31.8	24.4	18.0	14.4	10.0	8.0	261.6
Other hardwoods	XXXXX	--	--	--	--	--	--	--	--	--	--	--
Total hardwoods	XXXXX	97.3	79.4	53.2	41.8	31.8	24.4	18.0	14.4	10.0	8.0	378.3
All species	4,837.7	5,233.9	5,356.2	4,398.2	3,956.7	3,607.2	3,511.8	3,175.7	2,762.8	2,357.8	9,922.1	49,120.1

¹Includes corkbark fir.

Table 41.--Net volume of growing stock on commercial timberland in the Northern Rocky Mountain States by species and diameter class, 1977

State and species	Diameter class (inches)												29.0+ 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		
<i>Million cubic feet</i>														
Western Montana														
Douglas-fir	398.3	599.9	672.1	746.6	713.7	620.9	522.3	422.1	288.3	189.3	133.9	78.9	137.3	5,523.6
Ponderosa pine	33.6	90.6	106.0	138.6	155.3	153.3	144.8	145.2	137.0	72.6	84.5	74.7	174.1	1,510.3
Western white pine	9.6	18.0	32.5	33.9	32.4	24.4	19.7	26.1	16.7	13.7	7.0	8.2	17.0	259.2
Lodgepole pine	1,405.3	1,598.5	1,094.5	605.5	254.0	99.1	35.4	13.7	5.5	2.4	--	--	--	5,113.9
Whitebark pine	24.5	55.4	65.8	65.8	49.8	33.5	21.0	11.4	8.5	1.8	5.5	2.2	3.1	348.3
Western larch ¹	153.4	193.7	235.6	232.3	223.7	210.1	197.5	184.9	158.6	139.5	92.5	66.4	179.5	2,267.7
Grand fir	42.4	70.7	66.6	58.2	49.1	29.9	31.5	13.5	6.7	10.6	3.1	3.0	3.6	388.9
Subalpine fir ²	199.0	270.3	259.3	196.2	148.2	101.8	51.9	36.6	26.6	11.5	3.5	1.1	2.9	1,308.9
White fir	.9	1.8	2.0	.2	1.0	--	--	--	--	--	--	--	--	5.9
Engelmann spruce	92.3	130.8	166.0	193.6	186.0	173.6	148.8	116.7	98.2	55.9	53.9	22.3	73.1	1,511.2
Western hemlock ³	18.9	46.0	31.5	40.1	29.4	34.9	23.1	18.8	18.3	19.9	13.0	9.1	15.5	318.5
Western redcedar	34.4	38.6	29.0	32.6	26.9	17.5	12.0	16.5	10.2	9.4	11.8	11.3	49.0	299.2
Other softwoods	.1	--	--	.1	--	--	--	--	--	--	--	--	--	.2
Total softwoods	2,412.7	3,114.3	2,760.9	2,543.7	1,869.5	1,499.0	1,208.0	1,005.5	774.6	526.6	408.7	277.2	655.1	18,855.8
Aspen	8.2	7.9	4.2	4.3	1.7	1.5	1.1	.3	--	(⁴)	--	--	--	29.2
Cottonwood	.2	1.3	.1	3.0	1.3	6.2	4.9	--	7.5	1.8	--	--	--	26.3
Other hardwoods	6.0	5.2	5.3	4.0	5.9	.9	--	.6	--	--	.2	--	.7	28.8
Total hardwoods	14.4	14.4	9.6	11.3	8.9	8.6	6.0	.9	7.5	1.8	.2	--	.7	84.3
All species	2,427.1	3,128.7	2,770.5	2,355.0	1,878.4	1,507.6	1,214.0	1,006.4	782.1	528.4	408.9	277.2	655.8	18,940.1

¹Includes a negligible amount of alpine larch.

²Includes corkbark fir.

³Includes mountain hemlock.

⁴Less than 0.05 million cubic feet.

Table 42.--Net volume of sawtimber on commercial timberland in the Northern Rocky Mountain States by species and diameter class, 1977

State and species	Diameter class (inches)											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+	
<i>Million board feet, International 1/4-inch rule</i>												
Western Montana												
Douglas-fir	2,511.4	5,409.2	3,515.1	3,229.1	2,807.5	2,518.1	1,643.0	1,066.0	764.9	449.6	797.6	22,511.5
Ponderosa pine	355.4	596.5	854.6	883.1	859.5	902.7	817.4	432.6	489.8	445.9	1,039.1	7,676.6
Western white pine	155.8	181.3	173.2	135.7	110.6	146.9	96.6	81.1	40.5	50.4	105.6	1,277.7
Lodgepole pine	5,015.7	3,234.4	1,411.0	562.4	204.1	73.1	32.2	12.6	--	--	--	10,545.5
Whitebark pine	272.6	318.6	241.0	163.7	106.1	57.3	46.6	9.8	27.9	11.6	14.8	1,270.0
Western larch ¹	1,146.2	1,254.6	1,241.5	1,178.6	1,129.7	1,046.5	927.6	804.5	538.8	378.7	1,032.1	10,678.8
Grand fir	293.7	309.1	285.6	177.9	195.0	91.4	44.5	78.8	23.6	23.3	32.8	1,555.7
Subalpine fir ²	1,117.9	1,035.7	784.8	541.4	285.4	194.3	142.3	74.6	19.8	7.7	19.4	4,223.3
White fir	9.9	.8	6.5	--	--	--	--	--	--	--	--	17.2
Engelmann spruce	774.1	1,050.7	1,023.9	968.6	829.7	653.6	563.7	332.2	328.7	142.4	477.6	7,145.2
Western hemlock ³	117.0	190.4	153.3	204.7	139.7	119.2	116.3	128.4	85.0	62.0	122.6	1,438.6
Western redcedar	140.8	188.7	166.0	114.0	79.0	107.1	76.9	78.5	94.9	92.5	454.6	1,593.0
Other softwoods	--	.5	--	--	--	--	--	--	--	--	--	.5
Total softwoods	11,910.5	11,770.5	9,856.5	8,159.2	6,746.3	5,710.2	4,507.1	3,099.1	2,413.9	1,664.1	4,096.2	69,933.6
Aspen	XXXXX	20.4	8.4	7.5	5.3	2.0	--	.2	--	--	--	43.8
Cottonwood	XXXXX	13.8	6.3	30.6	24.7	--	36.0	8.8	--	--	--	120.2
Other hardwoods	XXXXX	20.0	28.7	4.5	--	2.8	--	--	.8	--	3.3	60.1
Total hardwoods	XXXXX	54.2	43.4	42.6	50.0	4.8	36.0	9.0	.8	--	3.3	224.1
All species	11,910.5	11,824.7	9,899.9	8,201.8	6,776.3	5,715.0	4,543.1	3,108.1	2,414.7	1,664.1	4,099.5	70,157.7

¹Includes a negligible amount of alpine larch.

²Includes corkbark fir.

³Includes mountain hemlock.

Table 43.--Net volume of growing stock on commercial timberland in the Northern Rocky Mountain States by species and diameter class, 1977

State and species	Diameter class (inches)														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+		
----- Million cubic feet -----															
Eastern Montana															
Douglas-fir	222.4	314.5	356.7	335.4	331.9	268.3	219.6	175.4	130.7	87.7	57.6	30.1	68.7	2,599.0	
Ponderosa pine	98.2	102.4	125.2	138.4	102.8	102.4	65.2	43.8	31.1	14.7	11.7	13.1	6.0	855.0	
Western white pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lodgepole pine	866.7	1,116.1	880.6	573.7	321.8	141.5	51.3	25.8	3.9	7.6	.7	1.1	.5	3,991.3	
Whitebark and limber pines	59.6	85.3	87.0	71.7	42.7	22.2	14.0	8.9	3.3	2.0	1.0	--	1.1	398.8	
Western larch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Grand fir	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Subalpine fir ¹	97.8	90.2	77.6	57.1	37.8	20.1	11.8	3.0	2.3	1.0	.1	--	--	398.8	
White fir	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Engelmann spruce	25.3	57.1	73.9	81.5	76.5	78.7	58.9	37.7	31.8	22.1	20.7	12.0	15.1	591.3	
Western hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Western redcedar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other softwoods	--	--	--	.5	--	--	--	--	--	--	--	--	--	.5	
Total softwoods	1,370.0	1,765.6	1,601.0	1,258.3	913.5	633.2	420.8	294.6	203.1	135.1	91.8	56.3	91.4	8,834.7	
Aspen	4.8	10.3	9.6	5.1	1.0	1.1	--	.8	--	--	--	--	--	32.7	
Cottonwood	--	.7	7.1	17.6	23.7	23.1	22.6	19.2	17.1	14.1	11.1	8.5	1.1	165.9	
Other hardwoods	.1	1.4	1.4	--	.2	.3	--	.3	--	--	--	--	--	3.7	
Total hardwoods	4.9	12.4	18.1	22.7	24.9	24.5	22.6	20.3	17.1	14.1	11.1	8.5	1.1	202.3	
All species	1,374.9	1,778.0	1,619.1	1,281.0	938.4	657.7	443.4	314.9	220.2	149.2	102.9	64.8	92.5	9,057.0	

¹Includes corkbark fir.

Table 44.--Net volume of sawtimber on commercial timberland in the Northern Rocky Mountain States by species and diameter class, 1977

State and species	Diameter class (inches)												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+		
<i>Million board feet, International 1/4-inch rule</i>													
Eastern Montana													
Douglas-fir	1,172.0	1,380.3	1,482.1	1,260.3	1,096.2	910.7	691.7	471.0	310.4	165.3	399.2	9,359.2	
Ponderosa pine	313.4	491.9	438.0	478.5	324.9	226.1	162.6	76.6	60.5	63.8	32.8	2,669.1	
Western white pine	0	0	0	0	0	0	0	0	0	0	0	0	
Lodgepole pine	3,863.4	2,952.2	1,640.5	718.0	255.0	124.7	18.7	38.8	3.5	5.5	3.0	9,623.3	
Whitebark and limber pines	349.9	357.6	209.8	105.2	68.6	42.6	16.1	10.9	4.8	--	4.6	1,170.1	
Western larch	0	0	0	0	0	0	0	0	0	0	0	0	
Grand fir	0	0	0	0	0	0	0	0	0	0	0	0	
Subalpine fir ¹	308.1	278.6	181.9	92.9	54.7	13.0	11.1	4.8	.3	--	--	945.4	
White fir	0	0	0	0	0	0	0	0	0	0	0	0	
Engelmann spruce	319.7	410.7	382.7	402.2	298.7	193.9	158.2	116.3	115.3	68.9	88.9	2,555.5	
Western hemlock	0	0	0	0	0	0	0	0	0	0	0	0	
Western redcedar	0	0	0	0	0	0	0	0	0	0	0	0	
Other softwoods	--	1.8	--	--	--	--	--	--	--	--	--	1.8	
Total softwoods	6,326.5	5,873.1	4,335.0	3,057.1	2,098.1	1,511.0	1,058.4	718.4	494.8	303.5	528.5	26,304.4	
Aspen	XXXXX	26.6	6.4	5.5	--	4.3	--	--	--	--	--	42.8	
Cottonwood	XXXXX	88.5	122.0	118.5	118.0	100.7	91.0	75.0	59.0	46.0	6.0	824.7	
Other hardwoods	XXXXX	--	1.1	1.3	--	1.5	--	--	--	--	--	3.9	
Total hardwoods	XXXXX	115.1	129.5	125.3	118.0	106.5	91.0	75.0	59.0	46.0	6.0	871.4	
All species	6,326.5	5,988.2	4,464.5	3,182.4	2,216.1	1,617.5	1,149.4	793.4	553.8	349.5	534.5	27,175.8	

¹ Includes corkbark fir.

Table 45.--Net volume of growing stock on commercial timberland in the Northern Rocky Mountain States by species and diameter class, 1977

State and species	Diameter class (inches)													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+	
----- Million cubic feet -----														
Western South Dakota														
Douglas-fir	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ponderosa pine	126.5	232.7	281.9	271.0	226.7	169.7	116.5	73.2	36.0	17.5	9.6	2.2	1.7	1,565.2
Western white pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lodgepole pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Whitebark pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Western larch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand fir	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subalpine fir	0	0	0	0	0	0	0	0	0	0	0	0	0	0
White fir	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Engelmann spruce ¹	6.7	9.2	10.1	9.5	7.9	7.0	4.5	3.2	2.2	.9	.2	.1	--	61.5
Western hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Western redcedar	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other softwoods	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total softwoods	133.2	241.9	292.0	280.5	234.6	176.7	121.0	76.4	38.2	18.4	9.8	2.3	1.7	1,626.7
Aspen	4.6	2.3	1.2	.3	--	--	--	--	--	--	--	--	--	8.4
Cottonwood	--	--	--	--	--	--	.1	(²)	.1	.1	.1	--	.6	1.0
Other hardwoods	2.4	1.4	1.0	.4	.3	.1	.4	.2	.2	(²)	.2	--	.3	6.9
Total hardwoods	7.0	3.7	2.2	.7	.3	.1	.5	.2	.3	.1	.3	--	.9	16.3
All species	140.2	245.6	294.2	281.2	234.9	176.8	121.5	76.6	38.5	18.5	10.1	2.3	2.6	1,643.0

¹Includes white spruce.

²Less than 0.05 million cubic feet.

Table 46.--Net volume of sawtimber on commercial timberland in the Northern Rocky Mountain States by species and diameter class, 1977

State and species	Diameter class (inches)													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 1/4-inch rule -----														
Western South Dakota														
Douglas-fir	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ponderosa pine	721.2	1,120.5	1,104.5	909.9	668.3	436.6	200.2	99.3	54.5	12.6	0	0	10.3	5,337.9
Western white pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lodgepole pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Whitebark pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Western larch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand fir	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subalpine fir	0	0	0	0	0	0	0	0	0	0	0	0	0	0
White fir	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Engelmann spruce ¹	53.1	53.8	45.8	41.2	26.4	18.8	12.8	5.4	1.3	.5	--	--	--	259.1
Western hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Western redcedar	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other softwoods	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total softwoods	774.3	1,174.3	1,150.3	951.1	694.7	455.4	213.0	104.7	55.8	13.1	10.3	10.3	10.3	5,597.0
Aspen	XXXXX	1.5	--	--	--	--	--	--	--	--	--	--	--	1.5
Cottonwood	XXXXX	--	--	--	.2	.2	.6	.5	.8	--	--	--	3.1	5.4
Other hardwoods	XXXXX	2.3	1.5	.7	2.0	.7	1.1	.3	1.2	--	--	--	1.6	11.4
Total hardwoods	XXXXX	3.8	1.5	.7	2.2	.9	1.7	.8	2.0	--	--	--	4.7	18.3
All species	774.3	1,178.1	1,151.8	951.8	696.9	456.3	214.7	105.5	57.8	13.1	15.0	15.0	15.0	5,615.3

¹Includes white spruce.

Table 47.--Net volume of growing stock on commercial timberland in the Northern Rocky Mountain States by species and diameter class, 1977

State and species	Diameter class (inches)														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+		
----- Million cubic feet -----															
Wyoming															
Douglas-fir	62.4	46.7	96.6	54.8	59.5	51.4	49.6	44.6	41.8	32.6	16.2	17.8	34.2	608.2	
Ponderosa pine	48.6	96.6	141.0	161.7	132.3	100.0	62.1	41.5	19.7	9.1	4.4	.7	4.4	822.1	
Western white pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lodgepole pine	393.9	521.5	624.2	500.4	367.7	177.8	118.5	61.6	18.9	8.7	4.8	2.6	2.6	2,803.2	
Whitebark and limber pines	14.1	38.6	46.1	61.6	50.2	34.0	23.4	15.6	12.0	7.7	2.4	1.8	3.4	310.9	
Western larch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Grand fir	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Subalpine fir ¹	147.0	145.4	148.9	101.5	80.3	61.5	50.3	21.1	14.4	7.4	7.0	2.2	1.7	788.7	
White fir	(²)	(²)	.1	.1	(²)	(²)	(²)	.1	.1	(²)	(²)	(²)	(²)	.4	
Engelmann spruce ³	83.6	114.5	130.9	172.1	182.8	189.0	163.9	149.8	108.4	86.1	91.4	43.7	93.4	1,609.6	
Western hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Western redcedar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other softwoods	4.0	4.2	4.5	2.8	1.8	1.0	.7	.1	.4	.3	--	--	--	19.8	
Total softwoods	753.6	967.5	1,192.3	1,055.0	874.6	614.7	468.5	334.4	215.7	151.9	126.2	68.8	139.7	6,962.9	
Aspen	56.3	51.1	51.8	10.7	19.1	7.7	2.3	.1	--	--	--	--	--	199.1	
Cottonwood	.1	8.8	.2	22.1	.3	--	--	--	.1	--	--	--	--	31.6	
Other hardwoods	.3	.2	.1	(²)	(²)	.1	.1	(²)	.1	--	.1	--	.1	1.1	
Total hardwoods	56.7	60.1	52.1	32.8	19.4	7.8	2.4	.1	.2	--	.1	--	.1	231.8	
All species	810.3	1,027.6	1,244.4	1,087.8	894.0	622.5	470.9	334.5	215.9	151.9	126.3	68.8	139.8	7,194.7	

¹Includes corkbark fir.

²Less than 0.05 million cubic feet.

³Includes white spruce.

Table 48.--Net volume of sawtimber on commercial timberland in the Northern Rocky Mountain States by species and diameter class, 1977

State and species	Diameter class (inches)											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 1/4-inch rule -----												
Wyoming												
Douglas-fir	431.6	259.1	311.8	283.8	288.1	264.7	271.7	206.6	106.7	110.3	215.8	2,750.2
Ponderosa pine	355.4	581.2	565.9	482.8	327.6	229.9	83.8	45.3	21.9	4.2	23.3	2,721.3
Western white pine	0	0	0	0	0	0	0	0	0	0	0	0
Lodgepole pine	3,174.6	2,543.3	1,898.9	929.4	625.9	325.4	95.7	43.5	23.7	13.1	13.0	9,686.5
Whitebark and limber pines	179.3	304.9	249.1	171.7	117.6	74.9	62.3	38.9	12.2	9.1	17.2	1,237.2
Western larch	0	0	0	0	0	0	0	0	0	0	0	0
Grand fir	0	0	0	0	0	0	0	0	0	0	0	0
Subalpine fir ¹	700.1	491.3	406.0	318.5	266.9	113.1	78.1	40.8	37.7	11.8	9.4	2,473.7
White fir	.1	.3	.1	.2	.2	.3	.2	(²)	.2	.1	.1	1.8
Engelmann spruce ³	697.8	908.2	980.5	1,021.2	886.9	820.2	607.9	487.3	525.6	257.7	556.6	7,749.9
Western hemlock	0	0	0	0	0	0	0	0	0	0	0	0
Western redcedar	0	0	0	0	0	0	0	0	0	0	0	0
Other softwoods	23.4	15.2	9.9	5.4	4.0	.5	2.2	1.4	--	--	--	62.0
Total softwoods	5,562.3	5,103.5	4,422.2	3,213.0	2,517.2	1,829.0	1,201.9	863.8	728.0	406.3	835.4	26,682.6
Aspen	XXXXX	62.2	135.0	56.9	13.5	.6	--	--	--	--	--	268.2
Cottonwood	XXXXX	122.7	2.4	--	--	--	.4	--	--	--	--	125.5
Other hardwoods	XXXXX	.1	.1	.3	.6	.2	.5	--	.4	--	.7	2.9
Total hardwoods	XXXXX	185.0	137.5	57.2	14.1	.8	.9	--	.4	--	.7	396.6
All species	5,562.3	5,288.5	4,559.7	3,270.2	2,531.3	1,829.8	1,202.8	863.8	728.4	406.3	836.1	27,079.2

¹Includes corkbark fir.
²Less than 0.05 million board feet.
³Includes white spruce.

Table 49.--Net volume of growing stock on commercial timberland in the Northern Rocky Mountain States by species and diameter class, 1977

Species	Diameter class (inches)														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+		
	----- Million cubic feet -----														
Douglas-fir	1,057.2	1,542.4	1,887.4	1,993.5	2,121.3	1,817.8	1,562.4	1,331.1	1,066.3	803.3	604.9	433.2	1,067.3	17,287.9	
Ponderosa pine	349.2	597.2	796.0	899.7	849.3	733.5	580.9	473.4	412.0	301.5	308.4	283.5	1,249.3	7,833.9	
Western white pine	57.6	129.9	161.2	224.1	194.2	208.5	215.8	209.4	182.7	162.6	107.6	86.5	231.8	2,171.9	
Lodgepole pine	3,370.7	4,282.1	3,552.6	2,318.1	1,277.8	596.5	291.4	130.7	45.2	25.1	8.3	5.7	4.0	15,908.2	
Whitebark and limber pines	107.9	199.8	221.0	219.6	166.1	115.8	68.2	46.2	30.4	14.0	10.7	5.2	11.3	1,216.2	
Western larch ¹	275.1	372.8	429.1	410.5	400.9	351.5	321.5	282.9	266.9	213.1	143.4	101.1	307.2	3,876.0	
Grand fir	272.3	426.8	500.4	536.2	534.6	463.1	447.2	355.6	281.8	273.8	240.0	187.2	530.6	5,049.6	
Subalpine fir ²	635.2	794.9	833.8	639.6	525.7	414.1	293.2	182.9	135.3	71.4	42.5	15.8	23.4	4,607.8	
White fir	2.5	4.6	5.1	6.1	7.8	6.9	8.2	6.6	5.5	6.0	5.6	4.0	32.5	101.4	
Engelmann spruce ³	264.3	417.6	524.9	640.8	669.7	670.4	593.9	521.1	433.9	329.8	277.0	157.9	392.0	5,893.3	
Western hemlock ⁴	68.2	141.9	160.1	164.1	169.9	155.9	136.6	106.1	84.1	79.2	51.7	36.7	102.8	1,457.3	
Western redcedar	121.8	167.7	203.3	216.4	221.1	180.0	175.8	181.4	135.7	110.4	100.3	101.7	390.1	2,305.7	
Pinyon/juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Other softwoods	56.1	164.2	4.5	3.4	1.8	1.0	.7	.1	.4	.3	--	--	--	232.5	
Total softwoods	6,638.1	9,241.9	9,279.4	8,271.9	7,140.2	5,715.0	4,695.8	3,827.5	3,080.2	2,390.5	1,900.4	1,418.5	4,342.3	67,941.7	
Aspen	89.9	92.2	82.1	36.5	29.7	11.5	4.0	1.2	--	--	--	--	--	347.1	
Cottonwood	.5	11.5	12.1	48.9	35.4	39.8	35.9	25.8	30.2	20.3	14.2	11.6	9.8	296.0	
Other hardwoods	39.8	26.6	20.7	8.1	7.9	1.5	1.2	1.1	.3	(5)	1.2	--	5.3	113.7	
Total hardwoods	130.2	130.3	114.9	93.5	73.0	52.8	41.1	28.1	30.5	20.3	15.4	11.6	15.1	756.8	
All species	6,768.3	9,372.2	9,394.3	8,365.4	7,213.2	5,767.8	4,736.9	3,855.6	3,110.7	2,410.8	1,915.8	1,430.1	4,357.4	68,698.5	

¹Includes a negligible amount of alpine larch.

²Includes corkbark fir.

³Includes white spruce

⁴Includes mountain hemlock

⁵Less than 0.05 million cubic feet.

Table 50.--Net volume of sawtimber on commercial timberland in the Northern Rocky Mountain States by species and diameter class, 1977

Species	Diameter class (inches)											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+	
<i>Million board feet, International 1/4-inch rule</i>												
Douglas-fir	7,370.6	9,253.0	10,444.5	9,261.2	8,207.5	7,165.2	5,955.1	4,494.4	3,442.6	2,499.1	6,171.1	74,264.3
Ponderosa pine	2,219.0	3,639.7	4,142.1	3,866.3	3,245.2	2,775.6	2,536.5	1,736.8	1,771.6	1,650.1	7,502.0	34,884.9
Western white pine	791.6	1,178.5	1,009.9	1,062.0	1,087.8	1,078.3	967.2	858.2	574.5	471.9	1,326.6	10,406.5
Lodgepole pine	16,230.2	12,132.0	6,704.1	3,127.6	1,525.9	675.5	231.7	128.9	42.5	29.8	20.9	40,849.1
Whitebark and limber pines	896.5	1,085.7	822.9	576.4	342.3	225.1	158.8	72.1	54.1	27.3	55.6	4,316.8
Western larch ¹	2,210.0	2,288.0	2,225.0	1,949.1	1,784.2	1,552.6	1,516.6	1,207.9	810.5	556.4	1,685.3	17,785.6
Grand fir	2,160.1	2,699.0	2,778.1	2,448.6	2,419.5	1,931.7	1,570.4	1,575.5	1,394.4	1,137.3	3,270.4	23,385.0
Subalpine fir ²	3,626.1	3,227.4	2,676.7	2,096.4	1,520.2	941.3	719.3	400.7	234.2	87.5	132.1	15,661.9
White fir	23.6	31.0	42.1	35.8	42.6	33.8	29.7	32.9	31.2	22.1	179.5	504.3
Engelmann spruce ³	2,490.9	3,394.2	3,563.0	3,589.2	3,173.5	2,801.3	2,396.4	1,880.6	1,618.0	938.3	2,311.9	28,157.3
Western hemlock ⁴	593.0	761.2	844.9	841.2	761.7	612.3	516.1	519.5	342.9	268.8	811.1	6,872.7
Western redcedar	898.5	1,020.5	1,053.6	866.6	843.6	870.6	686.9	586.0	558.2	577.5	2,452.6	10,414.6
Pinyon/juniper	--	--	--	--	--	--	--	--	--	--	--	--
Other softwoods	23.4	17.5	9.9	5.4	4.0	.5	2.2	1.4	--	--	--	64.3
Total softwoods	39,533.5	40,727.7	36,316.8	29,725.8	24,958.0	20,663.8	17,086.9	13,494.9	10,874.7	8,266.1	25,919.1	267,567.3
Aspen	XXXXX	187.1	186.9	75.3	21.2	6.9	--	.2	--	--	--	477.6
Cottonwood	XXXXX	260.5	186.6	207.9	189.3	137.7	158.4	109.3	77.6	65.0	68.1	1,460.4
Other hardwoods	XXXXX	47.1	41.1	7.1	5.5	5.2	1.6	.3	8.0	--	24.6	140.5
Total hardwoods	XXXXX	494.7	414.6	290.3	216.0	149.8	160.0	109.8	85.6	65.0	92.7	2,078.5
All species	39,533.5	41,222.4	36,731.4	30,016.1	25,174.0	20,813.6	17,246.9	13,604.7	10,960.3	8,331.1	26,011.8	269,645.8

¹Includes a negligible amount of alpine larch
²Includes corkbark fir.
³Includes white spruce.
⁴Includes mountain hemlock.

Table 51.--Net volume of growing stock on commercial timberland in the Southern Rocky Mountain States by species and diameter class, 1977

State and species	Diameter class (inches)														27.0- 28.9	29.0+ classes	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+ classes				
Arizona																	
Douglas-fir	17.1	17.2	21.5	23.8	29.0	28.7	28.5	24.4	20.9	28.7	18.4	14.7	63.9	336.8			
Ponderosa pine ¹	143.2	178.7	250.1	293.6	314.1	335.1	378.7	368.2	359.0	345.2	287.7	243.7	345.1	3,842.4			
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
Lodgepole pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Limber pine ²	3.2	5.2	3.7	7.2	5.8	5.7	5.8	5.1	4.9	3.6	3.4	2.2	6.4	62.2			
Western larch	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Grand fir	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Subalpine fir ³	2.8	4.3	9.9	7.8	8.0	8.8	6.4	2.7	3.2	2.5	1.3	.4	1.9	60.0			
White fir	5.5	6.1	12.6	12.1	20.0	15.0	10.7	16.1	8.3	6.0	7.1	14.6	52.7	166.8			
Engelmann spruce	10.6	14.1	16.8	38.2	40.3	47.0	32.9	36.7	20.3	14.3	10.8	4.7	7.7	294.4			
Western hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Western redcedar	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Other softwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
Total softwoods	182.4	225.6	314.6	382.7	417.2	440.3	463.0	453.2	416.6	400.3	328.7	280.3	457.7	4,762.6			
Aspen	27.8	52.2	33.7	59.0	52.0	21.2	16.3	9.2	6.0	1.0	.8	.3	.1	219.6			
Cottonwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
Other hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
Total hardwoods	27.8	52.2	33.7	59.0	52.0	21.2	16.3	9.2	6.0	1.0	.8	.3	.1	219.6			
All species	210.2	257.8	348.3	421.7	449.2	461.5	479.3	462.4	422.6	401.3	329.5	280.6	457.8	4,982.2			

¹Includes a negligible amount of Apache, Arizona, and Chihuahua pines.

²Includes a negligible amount of Mexican white and bristlecone pines.

³Includes corkbark fir.

Table 52.--Net volume of sawtimber on commercial timberland in the Southern Rocky Mountain States by species and diameter class, 1977

State and species	Diameter class (inches)											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+	
<i>Million board feet, International 1/4-inch rule</i>												
Arizona												
Douglas-fir	90.7	112.5	148.4	151.6	153.7	124.0	111.5	156.2	101.8	82.2	364.1	1,596.7
Ponderosa pine ¹	656.2	1,053.8	1,333.5	1,554.7	1,890.0	1,930.2	1,956.8	1,942.9	1,645.6	1,419.5	2,125.7	17,508.9
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	0	0	0	0	0	0	0	0	0	0	0	0
Limber pine ²	19.7	38.0	30.6	30.6	32.3	29.0	27.4	20.5	18.6	12.1	34.9	293.7
Western larch	0	0	0	0	0	0	0	0	0	0	0	0
Grand fir	0	0	0	0	0	0	0	0	0	0	0	0
Subalpine fir ³	43.9	37.7	40.8	48.5	35.8	15.8	19.3	15.5	8.5	1.9	11.7	279.4
White fir	52.8	57.7	106.7	82.1	60.7	95.9	49.0	30.9	40.0	85.3	177.9	839.0
Engelmann spruce	97.1	203.5	220.1	263.5	189.4	221.0	121.3	87.0	65.4	28.4	48.6	1,545.3
Western hemlock	0	0	0	0	0	0	0	0	0	0	0	0
Western redcedar	0	0	0	0	0	0	0	0	0	0	0	0
Other softwoods	--	--	--	--	--	--	--	--	--	--	--	--
Total softwoods	960.4	1,503.2	1,880.1	2,131.0	2,361.9	2,415.9	2,285.3	2,253.0	1,879.9	1,629.4	2,762.9	22,063.0
Aspen	XXXXX	194.8	163.4	109.4	86.9	50.3	31.9	5.1	4.1	1.6	.2	647.7
Cottonwood	XXXXX	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	XXXXX	--	--	--	--	--	--	--	--	--	--	--
Total hardwoods	XXXXX	194.8	163.4	109.4	86.9	50.3	31.9	5.1	4.1	1.6	.2	647.7
All species	960.4	1,698.0	2,043.5	2,240.4	2,448.8	2,466.2	2,317.2	2,258.1	1,884.0	1,631.0	2,763.1	22,710.7

¹Includes a negligible amount of Apache, Arizona, and Chihuahua pine.

²Includes a negligible amount of Mexican white and bristlecone pines.

³Includes corkbark fir.

Table 53.--Net volume of growing stock on commercial timberland in the Southern Rocky Mountain States by species and diameter class, 1977

State and species	Diameter class (inches)														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+		
Colorado	<i>Million cubic feet</i>														
Douglas-fir	237.2	138.0	130.9	111.6	107.1	113.8	87.6	74.3	60.4	31.7	26.9	21.7	46.7	1,187.9	
Ponderosa pine	47.4	66.2	72.0	112.5	113.2	93.1	71.6	75.8	62.8	58.1	36.1	28.0	54.2	891.0	
Western white pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lodgepole pine	769.4	654.8	574.2	464.7	316.6	155.0	80.3	35.9	9.0	6.2	.5	.9	--	3,067.5	
Limber pine ¹	20.2	8.8	7.7	5.8	5.0	3.6	5.0	3.8	.5	1.3	(²)	.1	--	61.8	
Western larch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Grand fir	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Subalpine fir	358.4	321.6	296.7	237.1	181.8	156.4	115.0	69.5	36.1	22.2	10.0	5.8	1.3	1,811.9	
White fir	16.8	24.4	25.8	26.1	22.9	20.1	19.4	14.0	15.6	18.3	10.3	13.2	21.0	247.9	
Engelmann spruce ³	407.2	452.2	591.3	650.0	642.8	622.4	539.0	412.6	342.7	242.6	160.4	106.2	132.3	5,301.7	
Western hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Western redcedar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other softwoods	10.8	7.4	10.7	7.4	7.9	4.5	2.2	.6	1.5	.2	.3	.3	--	53.8	
Total softwoods	1,867.4	1,673.4	1,709.3	1,615.2	1,397.3	1,168.9	920.1	686.5	528.6	380.6	244.5	176.2	255.5	12,623.5	
Aspen	338.9	640.6	567.1	351.8	200.8	108.2	59.9	30.5	5.9	6.2	(²)	.3	--	2,310.2	
Cottonwood	.3	9.0	14.4	21.6	14.4	11.7	8.1	4.5	5.8	4.0	3.7	3.5	--	101.0	
Other hardwoods	--	.3	.5	.4	--	--	--	(²)	--	(²)	--	--	--	1.2	
Total hardwoods	339.2	649.9	582.0	373.8	215.2	119.9	68.0	35.0	11.7	10.2	3.7	3.8	--	2,412.4	
All species	2,206.6	2,323.3	2,291.3	1,989.0	1,612.5	1,288.8	988.1	721.5	540.3	390.8	248.2	180.0	255.5	15,035.9	

¹Includes a negligible amount of bristlecone pine.

²Less than 0.05 million cubic feet.

³Includes blue spruce.

Table 54.--Net volume of sawtimber on commercial timberland in the Southern Rocky Mountain States by species and diameter class, 1977

State and species	Diameter class (inches)											29.0+ classes	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+ classes				
<i>Million board feet, International 1/4-inch rule</i>															
Colorado															
Douglas-fir	676.2	539.7	582.9	656.5	522.1	455.0	399.0	198.3	169.5	133.0	283.2	4,615.4			
Ponderosa pine	137.9	395.8	551.6	513.3	426.5	464.7	290.3	308.4	201.9	163.3	341.0	3,794.7			
Western white pine	0	0	0	0	0	0	0	0	0	0	0	0			
Lodgepole pine	3,090.0	2,397.0	1,700.9	855.1	450.2	208.0	52.0	37.8	2.4	4.8	--	8,798.2			
Limber pine ¹	64.5	34.5	30.7	21.8	30.9	24.2	3.4	8.9	.1	.4	--	219.4			
Western larch	0	0	0	0	0	0	0	0	0	0	0	0			
Grand fir	0	0	0	0	0	0	0	0	0	0	0	0			
Subalpine fir	1,590.0	1,237.7	977.2	858.5	636.5	386.1	211.4	126.3	56.0	33.0	10.1	6,122.8			
White fir	137.3	125.9	122.5	111.6	113.1	82.0	94.8	112.1	60.6	79.3	122.8	1,162.0			
Engelmann spruce ²	3,474.8	3,616.7	3,631.8	3,556.9	3,113.1	2,379.4	2,033.6	1,483.9	994.4	664.6	847.9	25,797.1			
Western hemlock	0	0	0	0	0	0	0	0	0	0	0	0			
Western redcedar	0	0	0	0	0	0	0	0	0	0	0	0			
Other softwoods	52.0	34.8	39.4	23.2	10.9	3.1	7.2	.9	1.4	1.5	--	174.4			
Total softwoods	9,222.7	8,582.1	7,637.0	6,596.9	5,503.3	4,002.5	3,091.7	2,276.6	1,486.3	1,079.9	1,605.0	50,684.0			
Aspen	XXXX	1,780.3	1,027.5	570.2	325.9	168.6	32.0	34.9	.1	2.0	--	3,941.5			
Cottonwood	XXXX	79.7	59.4	50.0	33.9	18.4	24.9	16.7	15.4	14.6	--	313.0			
Other hardwoods	XXXX	1.7	--	--	--	.2	--	.1	--	--	--	2.0			
Total hardwoods	XXXX	1,861.7	1,086.9	620.2	359.8	187.2	56.9	51.7	15.5	16.6	--	4,256.5			
All species	9,222.7	10,243.8	8,723.9	7,217.1	5,663.1	4,189.7	3,148.6	2,328.3	1,501.8	1,096.5	1,605.0	54,940.5			

¹Includes a negligible amount of bristlecone pine.

²Includes blue spruce.

Table 55.--Net volume of growing stock on commercial timberland in the Southern Rocky Mountain States by species and diameter class, 1977

State and species	Diameter class (inches)													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+	
----- Million cubic feet -----														
Nevada														
Douglas-fir	(¹)													(¹)
Ponderosa pine ²	.4	1.7	2.9	4.6	5.5	7.3	7.8	7.4	6.7	7.3	6.3	4.8	22.2	84.9
Sugar pine	--	--	--	--	.1	--	--	.1	--	--	--	--	.8	1.0
Western white pine	.1	.2	1.1	.3	.5	.4	.4	.7	.5	.7	1.3	1.1	6.0	12.3
Lodgepole pine	.3	.9	1.5	2.1	2.5	2.0	1.3	1.8	2.0	1.5	1.1	1.0	2.5	20.5
Whitebark pine	1.2	.3	.3	.5	.2	.6	1.3	.6	1.1	1.1	.2	.5	.7	8.6
Western larch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand fir	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subalpine fir ³	.8	.6	1.2	.5	.5	.7	.1	.7	--	--	--	--	--	5.1
White fir	.9	1.2	2.0	2.2	3.0	3.9	5.0	4.9	6.0	5.7	6.0	5.8	40.3	86.9
Engelmann spruce	.5	1.1	1.5	1.8	.8	2.4	.9	1.7	1.6	1.6	1.6	2.7	1.6	19.8
Mountain hemlock	(¹)	.1	.1	.1	.1	.2	.4	.2	.3	.6	.5	.5	1.6	4.7
Western redcedar	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other softwoods ⁴	.2	.1	.1	.2	.2	.2	.3	.2	.4	.2	.2	.3	2.9	5.5
Total softwoods	4.4	6.2	9.7	12.3	13.4	17.7	17.5	18.3	18.6	18.7	17.2	16.7	78.6	249.3
Aspen	3.0	2.1	2.1	3.4	1.5	.1	.1	.1	(¹)	--	--	--	--	12.4
Cottonwood	--	--	--	.4	.2	--	--	--	(¹)	--	--	--	--	.6
Other hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total hardwoods	3.0	2.1	2.1	3.8	1.7	.1	.1	.1	(¹)	--	--	--	--	13.0
All species	7.4	8.3	11.8	16.1	15.1	17.8	17.6	18.4	18.6	18.7	17.2	16.7	78.6	262.3

Less than 0.05 million cubic feet.
 Includes Jeffrey pine.
 Includes corkbark fir.
 Includes Sierra juniper, red fir, and incense cedar.

Table 56.--Net volume of sawtimber on commercial timberland in the Southern Rocky Mountain States by species and diameter class, 1977

State and species	Diameter class (inches)											29.0+ classes	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- 28.9			
<i>Million board feet, International 1/4-inch rule</i>														
Nevada														
Douglas-fir	5.4	14.6	23.6	36.5	43.5	40.2	43.9	36.1	28.3	139.0	454.6			
Ponderosa pine ¹			.3		.5					5.1	5.9			
Sugar pine	.5	1.5	2.4	2.4	2.1	3.1	4.4	7.8	6.5	37.4	72.4			
Western white pine	7.9	11.1	13.1	10.5	7.4	11.5	8.3	5.6	5.2	11.8	102.6			
Lodgepole pine	1.3	2.2	1.3	4.0	6.9	6.2	6.1	1.3	2.6	4.0	39.7			
Whitebark pine	0	0	0	0	0	0	0	0	0	0	0			
Western larch	0	0	0	0	0	0	0	0	0	0	0			
Grand fir	0	0	0	0	0	0	0	0	0	0	0			
Subalpine fir ²	5.7	2.8	2.4	3.8	.5						18.7			
White fir	7.6	9.8	14.9	20.6	29.7	37.0	36.0	38.0	35.0	258.6	517.1			
Engelmann spruce	7.1	9.6	4.1	12.6	4.8	8.5	8.6	8.8	14.4	9.0	96.0			
Mountain hemlock	.4	.5	.5	1.0	1.8	1.6	3.8	3.3	3.2	9.8	26.9			
Western redcedar	0	0	0	0	0	0	0	0	0	0	0			
Other softwoods ³	.4	.5	.8	1.1	1.5	2.4	1.1	1.4	2.3	16.6	29.2			
Total softwoods	36.3	52.6	63.4	92.5	98.2	110.5	112.2	102.3	97.5	491.3	1,363.1			
Aspen	XXXXX	14.9	6.6	.4	.4	.1					22.6			
Cottonwood	XXXXX	1.8	.8			(⁴)					2.6			
Other hardwoods	XXXXX													
Total hardwoods	XXXXX	16.7	7.4	.4	.4	.1					25.2			
All species	36.3	69.3	70.8	92.9	98.6	110.6	112.2	102.3	97.5	491.3	1,388.3			

¹Includes Jeffrey pine.

²Includes corkbark fir.

³Includes Sierra juniper, red fir, and incense cedar.

⁴Less than 0.05 million board feet.

Table 57.--Net volume of growing stock on commercial timberland in the Southern Rocky Mountain States by species and diameter class, 1977

State and species	Diameter class (inches)														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+		
----- Million cubic feet -----															
New Mexico															
Douglas-fir	78.1	91.6	78.0	94.5	110.3	98.0	93.9	91.5	64.8	57.5	35.9	29.8	80.4	1,004.3	
Ponderosa pine ¹	169.9	187.6	169.4	232.4	272.4	415.6	427.6	379.0	320.5	267.4	221.2	155.7	147.8	3,366.5	
Western white pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lodgepole pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Limber pine ²	17.0	26.5	13.4	33.4	22.4	20.3	8.4	9.7	6.0	2.3	3.4	3.3	3.6	169.7	
Western larch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Grand fir	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Subalpine fir ³	27.9	22.5	24.2	28.4	24.0	15.7	12.0	4.4	8.8	1.7	1.5	2.6	5.1	178.8	
White fir	75.3	47.0	52.2	55.2	50.9	45.8	38.6	30.5	26.8	21.3	13.1	9.9	21.8	488.4	
Engelmann spruce	54.2	54.0	70.0	85.7	68.5	79.8	68.0	41.4	31.0	20.6	5.7	3.3	6.1	588.3	
Western hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Western redcedar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other softwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Total softwoods	422.4	429.2	407.2	529.6	548.5	675.2	648.5	556.5	457.9	370.8	280.8	204.6	264.8	5,796.0	
Aspen	101.9	120.0	108.7	95.0	65.6	48.4	32.2	17.8	9.5	.1	--	--	--	599.2	
Cottonwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Other hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Total hardwoods	101.9	120.0	108.7	95.0	65.6	48.4	32.2	17.8	9.5	.1	--	--	--	599.2	
All species	524.3	549.2	515.9	624.6	614.1	723.6	680.7	574.3	467.4	370.9	280.8	204.6	264.8	6,395.2	

¹Includes a negligible amount of Apache, Arizona, and Chihuahua pines.

²Includes a negligible amount of Mexican white and bristlecone pines.

³Includes corkbark fir.

Table 58.--Net volume of sawtimber on commercial timberland in the Southern Rocky Mountain States by species and diameter class, 1977

State and species	Diameter class (inches)											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 1/4-inch rule -----												
New Mexico												
Douglas-fir	440.4	481.9	626.6	575.9	584.2	548.3	373.6	339.3	208.0	181.6	449.8	4,809.6
Ponderosa pine ¹	400.2	717.1	1,030.4	1,825.2	1,997.4	1,880.6	1,678.9	1,443.7	1,221.0	868.0	862.9	13,925.4
Western white pine	0	0	0	0	0	0	0	0	0	0	0	0
Lodgepole pine	0	0	0	0	0	0	0	0	0	0	0	0
Limber pine ²	80.5	153.6	106.0	102.2	44.0	52.6	33.6	12.0	19.5	18.0	20.4	642.4
Western larch	0	0	0	0	0	0	0	0	0	0	0	0
Grand fir	0	0	0	0	0	0	0	0	0	0	0	0
Subalpine fir ³	110.1	129.0	114.6	81.6	64.3	25.9	50.7	10.3	8.8	15.6	30.8	641.7
White fir	194.9	219.9	238.3	229.2	202.6	161.9	138.0	107.8	70.2	51.6	112.8	1,727.2
Engelmann spruce	424.4	421.6	358.8	432.4	374.0	224.4	168.3	113.1	29.4	16.6	36.3	2,599.3
Western hemlock	0	0	0	0	0	0	0	0	0	0	0	0
Western redcedar	0	0	0	0	0	0	0	0	0	0	0	0
Other softwoods	--	--	--	--	--	--	--	--	--	--	--	--
Total softwoods	1,650.5	2,123.1	2,474.7	3,246.5	3,266.5	2,893.7	2,443.1	2,026.2	1,556.9	1,151.4	1,513.0	24,345.6
Aspen	XXXX	533.0	387.0	288.3	193.9	110.6	59.9	.7	--	--	--	1,573.4
Cottonwood	XXXX	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	XXXX	--	--	--	--	--	--	--	--	--	--	--
Total hardwoods	XXXX	533.0	387.0	288.3	193.9	110.6	59.9	.7	--	--	--	1,573.4
All species	1,650.5	2,656.1	2,861.7	3,534.8	3,460.4	3,004.3	2,503.0	2,026.9	1,556.9	1,151.4	1,513.0	25,919.0

¹Includes a negligible amount of Apache, Arizona, and Chihuahua pines.

²Includes a negligible amount of Mexican white and bristlecone pines.

³Includes corkbark fir.

Table 59.--Net volume of growing stock on commercial timberland in the Southern Rocky Mountain States by species and diameter class, 1977

State and species	Diameter class (inches)														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+		
Utah	<i>Million cubic feet</i>														
Douglas-fir	29.6	57.4	64.9	71.9	73.8	63.0	52.4	45.4	37.8	29.3	19.0	10.6	44.4	599.5	
Ponderosa pine	2.7	9.7	16.8	20.3	25.6	28.0	26.6	29.9	27.5	26.9	23.4	18.7	61.0	317.1	
Lodgepole pine	118.6	170.0	172.8	130.7	92.9	49.9	30.7	14.9	6.9	3.7	1.3	.8	.7	793.9	
Limber pine	3.9	5.2	5.8	6.7	5.1	3.9	6.5	3.3	1.3	4.0	1.6	1.3	1.2	49.8	
Subalpine fir	88.9	99.7	104.2	89.3	72.9	60.6	47.5	29.7	22.7	13.9	8.6	5.0	3.2	646.2	
White fir	28.8	31.1	31.6	26.0	30.4	26.0	26.7	17.2	12.2	11.0	5.0	4.4	9.5	259.9	
Engelmann spruce	52.7	86.7	96.2	97.9	110.2	92.5	94.5	70.9	55.6	51.7	43.6	27.9	52.0	932.4	
Pinyon/juniper	.5	.7	1.2	.9	.7	1.0	2.4	1.0	.5	.3	.1	.3	.7	10.5	
Total softwoods	325.7	460.5	493.5	443.7	411.6	324.9	287.3	212.3	164.5	140.8	102.6	69.0	172.7	3,609.1	
Aspen	155.3	179.4	133.8	119.8	72.5	43.0	22.8	6.1	4.7	3.2	1.1	.5	--	742.2	
Cottonwood	.1	.4	.8	1.8	1.9	1.7	1.5	1.0	1.3	.2	.3	.4	.5	11.9	
Other hardwoods	.1	.1	--	--	--	--	--	--	--	--	--	--	--	.2	
Total hardwoods	155.5	179.9	134.6	121.6	74.4	44.7	24.3	7.1	6.0	3.4	1.4	.9	.5	754.3	
All species	481.2	640.4	628.1	565.3	486.0	369.6	311.6	219.4	170.5	144.2	104.0	69.9	173.2	4,563.4	

Table 60.--Net volume of sawtimber on commercial timberland in the Southern Rocky Mountain States by species and diameter class, 1977

State and species	Diameter class (inches)											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+	
<i>Million board feet, International 1/4-inch rule</i>												
Utah												
Douglas-fir	257.1	347.8	384.3	337.3	304.9	255.8	221.4	180.4	118.1	71.9	315.5	2,794.5
Ponderosa pine	40.5	80.1	124.4	148.2	150.6	175.6	165.4	166.0	144.0	117.1	390.8	1,702.7
Lodgepole pine	689.2	656.1	471.1	253.5	155.5	75.5	35.4	18.8	7.0	3.9	4.0	2,370.0
Limber pine	25.6	31.9	26.1	20.9	35.1	18.5	6.9	22.2	8.8	7.6	6.7	210.3
Subalpine fir	445.7	412.1	351.3	293.9	232.8	149.2	116.1	72.3	44.6	25.8	16.9	2,160.7
White fir	112.8	112.3	145.8	132.0	137.9	89.3	64.6	59.6	27.6	22.6	52.1	956.6
Engelmann spruce	451.9	505.0	574.1	485.6	498.5	374.4	306.9	287.4	240.2	154.3	295.5	4,173.8
Pinyon/juniper	3.7	2.7	2.8	2.9	7.2	2.6	2.1	.8	.2	.9	2.0	27.9
Total softwoods	2,026.5	2,148.0	2,079.9	1,674.3	1,522.5	1,140.9	918.8	807.5	590.5	404.1	1,083.5	14,396.5
Aspen	XXXXX	555.4	342.5	211.2	112.4	29.9	24.1	16.7	6.0	3.1	--	1,301.3
Cottonwood	XXXXX	9.4	9.4	8.5	7.3	4.7	6.1	.9	1.4	2.0	2.2	51.9
Other hardwoods	XXXXX	--	--	--	--	--	--	--	--	--	--	--
Total hardwoods	XXXXX	564.8	351.9	219.7	119.7	34.6	30.2	17.6	7.4	5.1	2.2	1,353.2
All species	2,026.5	2,712.8	2,431.8	1,894.0	1,642.2	1,175.5	949.0	825.1	597.9	409.2	1,085.7	15,749.7

Table 61.--Net volume of growing stock on commercial timberland in the Southern Rocky Mountain States by species and diameter class, 1977

Species	Diameter class (inches)														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+		
	----- Million cubic feet -----														
Douglas-fir	362.0	304.2	295.3	301.8	320.2	303.5	262.4	235.6	183.9	147.2	100.2	76.8	235.4	3,128.5	
Ponderosa pine ¹	363.6	443.9	511.2	663.4	730.9	879.1	912.3	860.4	776.5	704.9	574.7	450.9	631.1	8,502.9	
Western white pine	.1	.2	.1	.3	.5	.4	.4	.7	.5	.7	1.3	1.1	6.0	12.3	
Lodgepole pine	888.3	825.7	748.5	597.5	412.0	206.9	112.3	52.6	17.9	11.4	2.9	2.7	3.2	3,881.9	
Whitebark and limber pines ²	45.5	46.0	30.9	53.6	38.5	34.1	27.0	22.5	13.8	12.3	8.6	7.4	11.9	352.1	
Western larch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Grand fir	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Subalpine fir ³	478.8	448.7	436.2	363.1	287.2	242.2	181.0	107.0	70.8	40.3	21.4	13.8	11.5	2,702.0	
White fir	127.3	109.8	124.2	121.6	127.2	110.8	100.4	82.7	68.9	62.3	41.5	47.9	125.3	1,249.9	
Engelmann spruce ⁴	525.2	608.1	775.8	873.6	862.6	844.1	735.3	563.3	451.2	330.8	222.1	144.8	199.7	7,136.6	
Mountain hemlock	(⁵)	.1	.1	.1	.1	.2	.4	.2	.3	.6	.5	.5	1.6	4.7	
Western redcedar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Pinyon/juniper	.5	.7	1.2	.9	.7	1.0	2.4	1.0	.5	.3	.1	.3	.7	10.3	
Other softwoods ⁶	11.0	7.5	10.8	7.6	8.1	4.7	2.5	.8	1.9	.4	.5	.6	2.9	59.3	
Total softwoods	2,802.3	2,794.9	2,934.3	2,983.5	2,788.0	2,627.0	2,336.4	1,926.8	1,586.2	1,311.2	973.8	746.8	1,229.3	27,040.5	
Aspen	626.9	974.3	845.4	609.0	372.4	220.9	131.3	63.7	26.1	10.5	1.9	1.1	.1	3,883.6	
Cottonwood	.4	9.4	15.2	23.8	16.5	13.4	9.6	5.5	7.1	4.2	4.0	3.9	.5	113.5	
Other hardwoods	.1	.4	.5	.4	--	--	--	(⁵)	--	(⁵)	--	--	--	1.4	
Total hardwoods	627.4	984.1	861.1	633.2	388.9	234.3	140.9	69.2	33.2	14.7	5.9	5.0	.6	3,998.5	
All species	3,429.7	3,779.0	3,795.4	3,616.7	3,176.9	2,861.3	2,477.3	1,996.0	1,619.4	1,325.9	979.7	751.8	1,229.9	31,039.0	

¹Includes a negligible amount of Apache, Arizona, Chihuahua, Jeffrey, and sugar pines.

²Includes a negligible amount of Mexican white and bristlecone pines.

³Includes corkbark fir.

⁴Includes blue spruce

⁵Less than 0.05 million cubic feet

⁶Includes a negligible amount of Sierra juniper, red fir, and incense cedar.

Table 62.--Net volume of sawtimber on commercial timberland in the Southern Rocky Mountain States by species and diameter class, 1977

Species	Diameter class (inches)													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 1/4-inch rule ---													
Douglas-fir	1,464.4	1,481.9	1,742.2	1,721.3	1,564.9	1,583.1	1,105.5	874.2	597.4	468.7	1,412.6	13,816.2		
Ponderosa pine ¹	1,240.2	2,261.4	3,063.8	4,077.9	4,508.0	4,495.1	4,131.6	3,904.9	3,248.6	2,596.2	3,864.5	37,392.2		
Western white pine	.5	1.5	2.4	2.4	2.1	4.3	3.1	4.4	7.8	6.5	37.4	72.4		
Lodgepole pine	3,787.1	3,064.2	2,185.1	1,119.1	613.1	293.7	98.9	64.9	15.0	13.9	15.8	11,270.8		
Whitebark and limber pines ²	191.6	260.2	194.7	179.5	149.2	128.1	77.5	69.7	48.3	40.7	66.0	1,405.5		
Western larch	0	0	0	0	0	0	0	0	0	0	0	0		
Grand fir	0	0	0	0	0	0	0	0	0	0	0	0		
Subalpine fir ³	2,195.4	1,819.3	1,486.3	1,286.3	969.9	580.5	397.5	224.4	117.9	76.3	69.5	9,223.3		
White fir	505.4	525.6	628.2	575.5	544.0	459.0	383.4	346.4	236.4	273.8	724.2	5,201.9		
Engelmann spruce ⁴	4,455.3	4,756.4	4,788.9	4,751.0	4,179.8	3,207.7	2,638.6	1,980.0	1,338.2	878.3	1,237.3	34,211.5		
Mountain hemlock	.4	.5	.5	1.0	1.8	1.0	1.6	3.8	3.3	3.2	9.8	26.9		
Western redcedar	0	0	0	0	0	0	0	0	0	0	0	0		
Pinyon/juniper	3.7	2.7	2.8	2.9	7.2	2.6	2.1	.8	.2	.9	2.0	27.9		
Other softwoods ⁵	52.4	35.3	40.2	24.3	12.4	4.2	9.6	2.0	2.8	3.8	16.6	203.6		
Total softwoods	13,896.4	14,209.0	14,135.1	13,741.2	12,552.4	10,559.3	8,849.4	7,475.5	5,615.9	4,362.3	7,455.7	112,852.2		
Aspen	XXXX	3,078.4	1,927.0	1,179.5	719.5	359.6	148.0	57.4	10.2	6.7	.2	7,486.5		
Cottonwood	XXXX	90.9	69.6	58.5	41.2	23.1	31.0	17.6	16.8	16.6	2.2	367.5		
Other hardwoods	XXXX	1.7	--	--	--	--	--	.1	--	--	--	2.0		
Total hardwoods	XXXX	3,171.0	1,996.6	1,238.0	760.7	382.9	179.0	75.1	27.0	23.3	2.4	7,856.0		
All species	13,896.4	17,380.0	16,131.7	14,979.2	13,313.1	10,942.2	9,028.4	7,550.6	5,642.9	4,385.6	7,458.1	120,708.2		

¹Includes a negligible amount of Apache, Arizona, Chihuahua, Jeffrey, and sugar pines

²Includes a negligible amount of Mexican white and bristlecone pines.

³Includes corkbark fir.

⁴Includes blue spruce.

⁵Includes a negligible amount of Sierra juniper, red fir, and incense cedar.

Table 63.--Net volume of growing stock on commercial timberland in the Rocky Mountain States by species and diameter class, 1977

Species	Diameter class (inches)														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+		
	----- Million cubic feet -----														
Douglas-fir	1,419.2	1,846.6	2,182.7	2,295.1	2,441.5	2,121.3	1,824.8	1,566.7	1,250.2	950.5	705.1	510.0	1,302.7	20,416.4	
Ponderosa pine	712.8	1,041.1	1,307.2	1,563.1	1,580.2	1,612.6	1,493.2	1,333.8	1,188.5	1,006.4	883.1	734.4	1,880.4	16,336.8	
Western white pine	57.7	130.1	161.3	224.4	194.7	208.9	216.2	210.1	183.2	163.3	108.9	87.6	237.8	2,184.2	
Lodgepole pine	4,259.0	5,107.8	4,301.1	2,915.6	1,689.8	803.4	403.7	183.3	63.1	36.5	11.2	8.4	7.2	19,790.1	
Whitebark and limber pines	153.4	245.8	251.9	273.2	204.6	149.9	95.2	68.7	44.2	26.3	19.3	12.6	23.2	1,568.3	
Western larch	275.1	372.8	429.1	410.5	400.9	351.5	321.5	282.9	266.9	213.1	143.4	101.1	307.2	3,876.0	
Grand fir	272.3	426.8	500.4	536.2	534.6	463.1	447.2	355.6	281.8	273.8	240.0	187.2	530.6	5,049.6	
Subalpine fir	1,114.0	1,243.6	1,270.0	1,002.7	812.9	656.3	474.2	289.9	206.1	111.7	63.9	29.6	34.9	7,309.8	
White fir	129.8	114.4	129.3	127.7	135.0	117.7	108.6	89.3	74.4	68.3	47.1	51.9	157.8	1,351.3	
Engelmann spruce Western and mountain hemlock	789.5	1,025.7	1,300.7	1,514.4	1,532.3	1,514.5	1,329.2	1,084.4	885.1	660.6	499.1	302.7	591.7	13,029.9	
Western redcedar	68.2	142.0	160.2	164.2	170.0	156.1	137.0	106.3	84.4	79.8	52.2	37.2	104.4	1,462.0	
Pinyon/juniper	121.8	167.7	203.3	216.4	221.1	180.0	175.8	181.4	135.7	110.4	100.3	101.7	390.1	2,305.7	
Other softwoods	.5	.7	1.2	.9	.7	1.0	2.4	1.0	.5	.3	.1	.3	.7	10.3	
	67.1	171.7	15.3	11.0	9.9	5.7	3.2	.9	2.3	.7	.5	.6	2.9	291.8	
Total softwoods	9,440.4	12,036.8	12,213.7	11,255.4	9,928.2	8,342.0	7,032.2	5,754.3	4,666.4	3,701.7	2,874.2	2,165.3	5,571.6	94,982.2	
Aspen	716.8	1,066.5	927.5	645.5	402.1	232.4	135.3	64.9	26.1	10.5	1.9	1.1	.1	4,230.7	
Cottonwood	.9	20.9	27.3	72.7	51.9	53.2	45.5	31.3	37.3	24.5	18.2	15.5	10.3	409.5	
Other hardwoods	39.9	27.0	21.2	8.5	7.9	1.5	1.2	1.1	.3	(¹)	1.2	--	5.3	115.1	
Total hardwoods	757.6	1,114.4	976.0	726.7	461.9	287.1	182.0	97.3	63.7	35.0	21.3	16.6	15.7	4,755.3	
All species	10,198.0	13,151.2	13,189.7	11,982.1	10,390.1	8,629.1	7,214.2	5,851.6	4,730.1	3,736.7	2,895.5	2,181.9	5,587.3	99,737.5	

¹Less than 0.05 million cubic feet.

Table 64.--Net volume of sawtimber on commercial timberland in the Rocky Mountain States by species and diameter class, 1977

Species	Diameter class (inches)												27.0- 28.9	29.0+	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+	All classes				
	<i>Million board feet, International 1/4-inch rule</i>															
Douglas-fir	8,835.0	10,734.9	12,186.7	10,982.5	9,772.4	8,548.3	7,060.6	5,368.6	4,040.0	2,967.8	7,583.7	88,080.5				
Ponderosa pine	3,459.2	5,901.1	7,205.9	7,944.2	7,753.2	7,270.7	6,468.1	5,641.7	5,020.2	4,246.3	11,366.5	72,277.1				
Western white pine	792.1	1,180.0	1,012.3	1,064.4	1,089.9	1,082.6	970.3	862.6	582.3	478.4	1,364.0	10,478.9				
Lodgepole pine	20,017.3	15,196.2	8,889.2	4,246.7	2,139.0	969.2	330.6	193.8	57.5	43.7	36.7	52,119.9				
Whitebark and limber pines	1,088.1	1,345.9	1,017.6	755.9	491.5	353.2	236.3	141.8	102.4	68.0	121.6	5,722.3				
Western larch	2,210.0	2,288.0	2,225.0	1,949.1	1,784.2	1,552.6	1,516.6	1,207.9	810.5	556.4	1,685.3	17,785.6				
Grand fir	2,160.1	2,699.0	2,778.1	2,448.6	2,419.5	1,931.7	1,570.4	1,575.5	1,394.4	1,137.3	3,270.4	23,385.0				
Subalpine fir	5,821.5	5,046.7	4,163.0	3,382.7	2,490.1	1,521.8	1,116.8	625.1	352.1	163.8	201.6	24,885.2				
White fir	529.0	556.6	670.3	611.3	586.6	492.8	413.1	379.3	267.6	295.9	903.7	5,706.2				
Engelmann spruce	6,946.2	8,150.6	8,351.9	8,340.2	7,353.3	6,009.0	5,035.0	3,860.6	2,956.2	1,816.6	3,549.2	62,368.8				
Western and mountain hemlock	593.4	761.7	845.4	842.2	763.5	613.3	517.7	523.3	346.2	272.0	820.9	6,899.6				
Western redcedar	898.5	1,020.5	1,053.6	866.6	843.6	870.6	686.9	586.0	558.2	577.5	2,452.6	10,414.6				
Pinyon/juniper	3.7	2.7	2.8	2.9	7.2	2.6	2.1	.8	.2	.9	2.0	27.9				
Other softwoods	75.8	52.8	50.1	29.7	16.4	4.7	11.8	3.4	2.8	3.8	16.6	267.9				
Total softwoods	53,429.9	54,936.7	50,451.9	43,467.0	37,510.4	31,223.1	25,936.3	20,970.4	16,490.6	12,628.4	33,374.8	380,419.5				
Aspen	XXXXX	3,265.5	2,113.9	1,254.8	740.7	366.5	148.0	57.6	10.2	6.7	.2	7,964.1				
Cottonwood	XXXXX	351.4	256.2	266.4	230.5	160.8	189.4	126.9	94.4	81.6	70.3	1,827.9				
Other hardwoods	XXXXX	48.8	41.1	7.1	5.5	5.4	1.6	.4	8.0	--	24.6	142.5				
Total hardwoods	XXXXX	3,665.7	2,411.2	1,528.3	976.7	532.7	339.0	184.9	112.6	88.3	95.1	9,934.5				
All species	53,429.9	58,602.4	52,863.1	44,995.3	38,487.1	31,755.8	26,275.3	21,155.3	16,603.2	12,716.7	33,469.9	390,354.0				

Table 65.--Net volume of timber on commercial timberland in the Rocky Mountain States by class of timber, State, and species group, 1977

State	Growing stock trees			Rough trees			Rotten trees			Salvable dead trees			Total all timber		
	Soft-woods	Hard-woods	Total	Soft-woods	Hard-woods	Total	Soft-woods	Hard-woods	Total	Soft-woods	Hard-woods	Total	Soft-woods	Hard-woods	Total
Northern Rocky Mountain States: <i>Million cubic feet</i>															
North Idaho	20,928.2	98.8	21,027.0	206.3	26.0	232.3	465.6	6.1	471.7	1,515.2	3.7	1,518.9	23,115.3	134.6	23,249.9
South Idaho	10,733.4	123.3	10,856.7	67.6	20.8	88.4	72.1	17.6	89.7	431.5	9.5	441.0	11,304.6	171.2	11,475.8
Western Montana	18,855.8	84.3	18,940.1	219.1	13.9	233.0	232.0	4.4	236.4	2,248.0	.9	2,248.9	21,554.9	103.5	21,658.4
Eastern Montana	8,834.7	202.3	9,037.0	251.7	10.2	261.9	96.9	11.2	108.1	861.6	9.5	871.1	10,044.9	233.2	10,278.1
Western South Dakota	1,626.7	16.3	1,643.0	14.2	14.9	29.1	2.4	3.9	6.3	27.2	(¹)	27.2	1,670.5	35.1	1,705.6
Wyoming	6,962.9	231.8	7,194.7	230.5	28.5	259.0	123.2	39.9	163.1	530.2	23.6	553.8	7,846.8	323.8	8,170.6
Total, Northern Rocky Mountain States	67,941.7	756.8	68,698.5	989.4	114.3	1,103.7	992.2	83.1	1,075.3	5,613.7	47.2	5,660.9	75,537.0	1,001.4	76,538.4
Southern Rocky Mountain States:															
Arizona	4,762.6	219.6	4,982.2	135.3	70.7	206.0	18.3	55.9	74.2	122.9	4.5	127.4	5,039.1	350.7	5,389.8
Colorado	12,623.5	2,412.4	15,035.9	297.5	128.4	425.9	309.9	792.6	1,102.5	1,290.2	135.4	1,425.6	14,521.1	3,468.8	17,989.9
Nevada	249.3	13.0	262.3	5.2	2.0	7.2	3.7	8.0	11.7	9.1	1.5	10.6	267.3	24.5	291.8
New Mexico	5,796.0	599.2	6,395.2	237.1	96.0	333.1	37.4	108.3	145.7	259.5	44.1	303.6	6,330.0	847.6	7,177.6
Utah	3,609.1	754.3	4,363.4	49.7	12.6	62.3	35.3	135.0	170.3	132.6	35.6	168.2	3,826.7	937.5	4,764.2
Total, Southern Rocky Mountain States	27,040.5	3,998.5	31,039.0	724.8	509.7	1,034.5	404.6	1,099.8	1,504.4	1,814.3	221.1	2,035.4	29,984.2	5,629.1	35,613.3
Total, all Rocky Mountain States	94,982.2	4,755.3	99,737.5	1,714.2	424.0	2,138.2	1,396.8	1,182.9	2,579.7	7,428.0	268.3	7,696.3	105,521.2	6,630.5	112,151.7

¹Less than 0.05 million cubic feet.

Table 66.--Net annual growth of growing stock and sawtimber on commercial timberland in the Northern Rocky Mountain States by State, softwoods and hardwoods, and owner group, 1976

State	National Forest	Other public	Forest industry	Other private	All owner groups	National Forest	Other public	Forest industry	Other private	All owner groups
----- <i>Thousand cubic feet growing stock</i> ----- <i>Thousand board feet sawtimber</i> ¹ -----										
North Idaho:										
Softwoods	274,872	64,465	67,421	123,614	530,372	1,324,940	218,207	281,772	427,021	2,251,940
Hardwoods	828	144	346	2,510	3,828	410	--	680	2,520	3,410
All species	275,700	64,609	67,767	126,124	534,200	1,325,350	218,207	282,452	429,541	2,255,350
South Idaho:										
Softwoods	106,291	18,008	5,928	8,964	139,191	538,817	76,994	25,841	38,165	679,817
Hardwoods	608	1,081	256	563	2,508	1,544	3,829	1,275	1,896	8,544
All species	106,899	19,089	6,184	9,527	141,699	540,361	80,823	27,116	40,061	688,361
Western Montana:										
Softwoods	246,156	27,369	28,299	51,432	353,256	661,143	113,346	129,050	192,604	1,096,143
Hardwoods	1,403	122	136	542	2,203	2,132	862	813	2,325	6,132
All species	247,559	27,491	28,435	51,974	355,459	663,275	114,208	129,863	194,929	1,102,275
Eastern Montana:										
Softwoods	73,790	13,208	184	32,808	119,990	189,262	32,218	529	80,253	302,262
Hardwoods	485	588	--	1,512	2,585	443	2,226	--	5,774	8,443
All species	74,275	13,796	184	34,320	122,575	189,705	34,444	529	86,027	310,705
Western South Dakota:										
Softwoods	30,463	1,870	608	5,763	38,704	134,378	6,971	2,701	23,568	167,618
Hardwoods	676	74	62	443	1,255	614	77	50	522	1,263
All species	31,139	1,944	670	6,206	39,959	134,992	7,048	2,751	24,090	168,881
Wyoming:										
Softwoods	66,766	5,815	800	9,485	82,866	293,492	20,496	2,891	30,613	347,492
Hardwoods	1,811	687	50	963	3,511	6,269	1,231	91	1,678	9,269
All species	68,577	6,502	850	10,448	86,377	299,761	21,727	2,982	32,291	356,761
Total, Northern Rocky Mountain States:										
Softwoods	798,338	130,735	103,240	232,066	1,264,379	3,142,032	468,232	442,784	792,224	4,845,272
Hardwoods	5,811	2,696	850	6,533	15,890	11,412	8,225	2,909	14,515	37,061
All species	804,149	133,431	104,090	238,599	1,280,269	3,153,444	476,457	445,693	806,739	4,882,333

¹ International 1/4-inch rule.

Table 67.--Net annual growth of growing stock and sawtimber on commercial timberland in the Southern Rocky Mountain States by State, softwoods and hardwoods, and owner group, 1976

State	National Forest	Other public	Forest industry	Other private	All owner groups	National Forest	Other public	Forest industry	Other private	All owner groups
----- <i>Thousand cubic feet growing stock</i> -----										
Arizona:	----- <i>Thousand board feet sawtimber</i> ¹ -----									
Softwoods	51,702	13,393	0	2,207	67,302	238,793	51,677	0	6,323	296,793
Hardwoods	3,327	853	0	747	4,927	14,997	1,225	0	1,775	17,997
All species	55,029	14,246	0	2,954	72,229	253,790	52,902	0	8,098	314,790
Colorado:	----- <i>Thousand cubic feet growing stock</i> -----									
Softwoods	115,141	7,955	212	28,433	151,741	660,944	31,602	618	104,780	797,944
Hardwoods	47,260	1,907	5	8,188	57,360	144,580	2,742	6	13,252	160,580
All species	162,401	9,862	217	36,621	209,101	805,524	34,344	624	118,032	958,524
Nevada:	----- <i>Thousand cubic feet growing stock</i> -----									
Softwoods	771	105	186	1,109	2,171	3,144	540	948	5,512	10,144
Hardwoods	248	--	--	--	248	331	--	--	--	331
All species	1,019	105	186	1,109	2,419	3,475	540	948	5,512	10,475
New Mexico:	----- <i>Thousand cubic feet growing stock</i> -----									
Softwoods	40,180	9,118	0	18,182	67,480	182,996	22,031	0	33,969	238,996
Hardwoods	5,131	-99	0	6,299	11,331	16,787	-789	0	11,789	27,787
All species	45,311	9,019	0	24,481	78,811	199,783	21,242	0	45,758	266,783
Utah:	----- <i>Thousand cubic feet growing stock</i> -----									
Softwoods	37,727	5,397	0	8,331	51,455	177,208	29,800	0	38,315	245,323
Hardwoods	4,397	2,360	0	7,102	13,859	10,721	7,795	0	23,479	41,995
All species	42,124	7,757	0	15,433	65,314	187,929	37,595	0	61,794	287,318
Total, Southern Rocky Mountain States:	----- <i>Thousand cubic feet growing stock</i> -----									
Softwoods	245,521	35,968	398	58,262	340,149	1,263,085	135,650	1,566	188,899	1,589,200
Hardwoods	60,363	5,021	5	22,336	87,725	187,416	10,973	6	50,295	248,690
All species	305,884	40,989	403	80,598	427,874	1,450,501	146,623	1,572	239,194	1,837,890
Total, all Rocky Mountain States:	----- <i>Thousand cubic feet growing stock</i> -----									
Softwoods	1,043,859	166,703	103,638	290,328	1,604,528	4,405,117	603,882	444,350	981,123	6,434,472
Hardwoods	66,174	7,717	855	28,869	103,615	198,828	19,198	2,915	64,810	285,751
All species	1,110,033	174,420	104,493	319,197	1,708,143	4,603,945	623,080	447,265	1,045,933	6,720,223

¹International 1/4-inch rule.

Table 68.--Annual mortality of growing stock and sawtimber on commercial timberland in the Northern Rocky Mountain States by State, softwoods and hardwoods, and owner group, 1976

State	National Forest	Other public	Forest industry	Other private	All owner groups	National Forest	Other public	Forest industry	Other private	All owner groups
----- <i>Thousand cubic feet growing stock</i> ----- <i>Thousand board feet sawtimber</i> 1 -----										
North Idaho:										
Softwoods	40,693	12,854	6,965	10,081	70,593	200,330	62,920	33,092	36,988	333,330
Hardwoods	232	--	200	--	432	0	--	1,000	--	1,000
All species	40,925	12,854	7,165	10,081	71,025	200,330	62,920	34,092	36,988	334,330
South Idaho:										
Softwoods	40,263	6,154	1,982	2,964	51,363	182,208	23,477	7,273	11,250	224,208
Hardwoods	377	326	115	159	977	634	1,087	384	529	2,634
All species	40,640	6,480	2,097	3,123	52,340	182,842	24,564	7,657	11,779	226,842
Western Montana:										
Softwoods	47,932	6,734	12,862	10,304	77,832	175,506	28,333	56,667	41,000	301,506
Hardwoods	49	14	9	177	249	--	--	--	--	--
All species	47,981	6,748	12,871	10,481	78,081	175,506	28,333	56,667	41,000	301,506
Eastern Montana:										
Softwoods	20,982	8,513	58	20,929	50,482	65,560	25,110	175	61,715	152,560
Hardwoods	--	433	--	1,067	1,500	--	1,733	--	4,267	6,000
All species	20,982	8,946	58	21,996	51,982	65,560	26,843	175	65,982	158,560
Western South Dakota:										
Softwoods	3,491	123	24	144	3,782	15,418	558	94	549	16,619
Hardwoods	--	1	(2)	8	9	--	1	1	24	26
All species	3,491	124	24	152	3,791	15,418	559	95	573	16,645
Wyoming:										
Softwoods	32,760	4,135	273	3,692	40,860	125,551	11,904	869	12,227	150,551
Hardwoods	195	415	30	555	1,195	57	800	56	1,144	2,057
All species	32,955	4,550	303	4,247	42,055	125,608	12,704	925	13,371	152,608
Total, Northern Rocky Mountain States:										
Softwoods	186,121	38,513	22,164	48,114	294,912	764,573	152,302	98,170	163,729	1,178,774
Hardwoods	853	1,189	354	1,966	4,362	691	3,621	1,441	5,964	11,717
All species	186,974	39,702	22,518	50,080	299,274	765,264	155,923	99,611	169,693	1,190,491

1 International 1/4-inch rule.

2 Less than 0.5 thousand cubic feet.

Table 69.--Annual mortality of growing stock and sawtimber on commercial timberland in the Southern Rocky Mountain States by State, softwoods and hardwoods, and owner group, 1976

State	National Forest	Other public	Forest industry	Other private	All owner groups	National Forest	Other public	Forest industry	Other private	All owner groups
<i>Thousand cubic feet growing stock</i>										
<i>Thousand board feet sawtimber¹</i>										
Arizona:										
Softwoods	7,136	6,133	0	867	14,136	33,126	28,036	0	3,964	65,126
Hardwoods	597	350	0	50	997	2,139	876	0	124	3,139
All species	7,733	6,483	0	917	15,133	35,265	28,912	0	4,088	68,265
Colorado:										
Softwoods	49,873	5,443	171	22,386	77,873	212,298	17,631	470	75,899	306,298
Hardwoods	7,370	1,188	5	5,507	14,070	12,238	1,701	4	8,295	22,238
All species	57,243	6,631	176	27,893	91,943	224,536	19,332	474	84,194	328,536
Nevada:										
Softwoods	592	41	96	963	1,692	3,324	213	511	5,276	9,324
Hardwoods	35	--	--	--	35	95	--	--	--	95
All species	627	41	96	963	1,727	3,419	213	511	5,276	9,419
New Mexico:										
Softwoods	9,838	6,719	0	14,881	31,438	39,706	25,819	0	57,181	122,706
Hardwoods	1,789	902	0	1,998	4,689	4,021	2,489	0	5,511	12,021
All species	11,627	7,621	0	16,879	36,127	43,727	28,308	0	62,692	134,727
Utah:										
Softwoods	20,410	2,221	0	3,459	26,090	83,410	7,458	0	12,142	103,010
Hardwoods	7,216	828	0	1,262	9,306	17,977	1,563	0	1,160	20,700
All species	27,626	3,049	0	4,721	35,396	101,387	9,021	0	13,302	123,710
Total, Southern Rocky Mountain States:										
Softwoods	87,849	20,557	267	42,556	151,229	371,864	79,157	981	154,462	606,464
Hardwoods	17,007	3,268	5	8,817	29,097	36,470	6,629	4	15,090	58,193
All species	104,856	23,825	272	51,373	180,326	408,334	85,786	985	169,552	664,657
Total, all Rocky Mountain States:										
Softwoods	273,970	59,070	22,431	90,670	446,141	1,136,437	231,459	99,151	318,191	1,785,238
Hardwoods	17,860	4,457	359	10,783	33,459	37,161	10,250	1,445	21,054	69,910
All species	291,830	63,527	22,790	101,453	479,600	1,173,598	241,709	100,596	339,245	1,855,148

¹International 1/4-inch rule.

Table 70.--Trends in timber removals from growing stock in the Northern Rocky Mountain States by ownership, and softwoods and hardwoods

Ownership and species group	1952	1962	1970	1976
- - - - - <i>Thousand cubic feet</i> - - - - -				
National Forest:				
Softwoods	147,444	303,331	374,949	340,529
Hardwoods	151	308	22	59
Total	147,595	303,639	374,971	340,588
Other public:				
Softwoods	61,888	54,297	59,167	61,558
Hardwoods	64	56	6	8
Total	61,952	54,353	59,173	61,566
Forest industry:				
Softwoods	98,521	128,430	180,317	176,514
Hardwoods	99	130	12	14
Total	98,620	128,560	180,329	176,528
Other private:				
Softwoods	100,334	81,121	86,586	90,706
Hardwoods	98	81	11	12
Total	100,432	81,202	86,597	90,718
All ownerships:				
Softwoods	408,187	567,179	701,019	669,307
Hardwoods	412	575	51	93
Total	408,599	567,754	701,070	669,400

Table 71.--Trends in timber removals from growing stock in the Southern Rocky Mountain States by ownership, and softwoods and hardwoods

Ownership and species group	1952	1962	1970	1976
- - - - - <i>Thousand cubic feet</i> - - - - -				
National Forest:				
Softwoods	81,739	108,420	149,079	122,670
Hardwoods	1,498	1,981	3,024	2,377
Total	83,237	110,401	152,103	125,047
Other public:				
Softwoods	17,204	31,276	26,435	31,179
Hardwoods	228	372	130	31
Total	17,432	31,648	26,565	31,210
Forest industry:				
Softwoods	4]6	1,467	5,475	307
Hardwoods	11	17	57	1
Total	427	1,484	5,532	308
Other private:				
Softwoods	26,368	29,451	6,925	18,828
Hardwoods	448	545	265	883
Total	26,816	29,996	7,190	19,711
All ownerships:				
Softwoods	125,727	70,614	187,914	172,984
Hardwoods	2,185	2,915	3,476	3,292
Total	127,912	173,529	191,390	176,276

Table 72.--Trends in timber removals from growing stock in the Rocky Mountain States by ownership, and softwoods and hardwoods

Ownership and species group	1952	1962	1970	1976
- - - - - <i>Thousand cubic feet</i> - - - - -				
National Forest:				
Softwoods	229,183	411,751	524,028	463,199
Hardwoods	1,649	2,289	3,046	2,436
Total	230,832	414,040	527,074	465,635
Other public:				
Softwoods	79,092	85,573	85,602	92,737
Hardwoods	292	428	136	39
Total	79,384	86,001	85,738	92,776
Forest industry:				
Softwoods	98,937	129,897	185,792	176,821
Hardwoods	110	147	69	15
Total	99,047	130,044	185,861	176,836
Other private:				
Softwoods	126,702	110,572	93,511	109,534
Hardwoods	546	626	276	895
Total	127,248	111,198	93,787	110,429
All ownerships:				
Softwoods	533,914	737,793	888,933	842,291
Hardwoods	2,597	3,490	3,527	3,385
Total	536,511	741,283	892,460	845,676

Table 73.--Trends in timber removals from sawtimber in the Northern Rocky Mountain States by ownership, and softwoods and hardwoods

Ownership and species group	1952	1962	1970	1976
- - - - - <i>Thousand board feet</i> ¹ - - - - -				
National Forest:				
Softwoods	853,760	1,748,232	2,049,096	1,959,206
Hardwoods	865	1,776	127	355
Total	854,625	1,750,008	2,049,223	1,959,561
Other public:				
Softwoods	381,084	333,259	341,568	352,023
Hardwoods	399	353	33	40
Total	381,483	333,612	341,601	352,063
Forest industry:				
Softwoods	618,013	769,314	1,030,648	1,013,754
Hardwoods	643	800	79	85
Total	618,656	770,114	1,030,727	1,013,839
Other private:				
Softwoods	577,827	473,008	496,561	521,014
Hardwoods	582	481	65	70
Total	578,409	473,489	496,626	521,084
All ownerships:				
Softwoods	2,430,684	3,323,813	3,917,873	3,845,997
Hardwoods	2,489	3,410	304	550
Total	2,433,173	3,327,223	3,918,177	3,846,547

¹International 1/4-inch rule.

Table 74.--Trends in timber removals from sawtimber in the Southern Rocky Mountain States by ownership, and softwoods and hardwoods

Ownership and species group	1952	1962	1970	1976
- - - - - <i>Thousand board feet</i> ¹ - - - - -				
National Forest:				
Softwoods	525,480	678,498	835,181	706,138
Hardwoods	9,476	12,178	10,478	12,614
Total	534,956	690,676	845,659	718,752
Other public:				
Softwoods	80,062	147,758	156,484	171,665
Hardwoods	1,164	1,670	621	170
Total	81,226	149,428	157,105	171,835
Forest industry:				
Softwoods	2,349	8,376	32,300	1,710
Hardwoods	65	92	333	2
Total	2,414	8,468	32,633	1,712
Other private:				
Softwoods	145,564	128,598	38,729	110,228
Hardwoods	2,435	2,425	663	3,046
Total	147,999	131,023	39,392	113,274
All ownerships:				
Softwoods	753,455	963,230	1,062,694	989,741
Hardwoods	13,140	16,365	12,095	15,832
Total	766,595	979,595	1,074,789	1,005,573

¹International 1/4-inch rule.

Table 75.--Trends in timber removals from sawtimber in the Rocky Mountain States by ownership, and softwoods and hardwoods

Ownership and species group	1952	1962	1970	1976
- - - - - <i>Thousand board feet</i> ¹ - - - - -				
National Forest:				
Softwoods	1,379,240	2,426,730	2,884,277	2,665,344
Hardwoods	10,341	13,954	10,605	12,969
Total	1,389,581	2,440,684	2,894,882	2,678,313
Other public:				
Softwoods	61,146	481,017	498,052	523,688
Hardwoods	1,563	2,023	654	210
Total	462,709	483,040	498,706	523,898
Forest industry:				
Softwoods	620,362	777,690	1,062,948	1,015,464
Hardwoods	708	892	412	87
Total	621,070	778,582	1,063,360	1,015,551
Other private:				
Softwoods	723,391	601,606	535,290	631,242
Hardwoods	3,017	2,906	728	3,116
Total	726,408	604,512	536,018	634,358
All ownerships:				
Softwoods	3,184,139	4,287,043	4,980,567	4,835,738
Hardwoods	15,629	19,775	12,399	16,382
Total	3,199,768	4,306,818	4,992,966	4,852,120

¹International 1/4-inch rule.

Table 76.--Removals from growing stock on commercial timberland in the Rocky Mountain States by roundwood products, logging residues, and other removals, 1976

State	Total removals	Products									
		All products	Saw logs	Veneer logs	Pulpwood	Commercial poles	Mine timbers	Miscellaneous industrial wood	Posts, fuelwood, miscellaneous farm timbers	Logging residues	Other removals
----- <i>Thousand cubic feet</i> -----											
Northern Rocky Mountain States:											
Idaho	394,804	349,504	291,603	38,133	12,751	3,384	2	3,266	365	41,282	4,018
Montana	234,802	199,268	171,564	23,205	1,188	590	1,333	470	918	31,852	3,682
Western South Dakota	20,410	19,369	12,985	--	4,100	559	--	--	1,725	801	240
Wyoming	19,384	17,289	17,130	--	--	6	54	55	44	1,324	771
Total, Northern Rocky Mountain States	669,400	585,430	493,282	61,338	18,039	4,539	1,389	3,791	3,052	75,259	8,711
Southern Rocky Mountain States:											
Arizona	83,352	74,872	64,938	--	5,407	162	143	23	4,199	7,946	534
Colorado	38,670	32,607	25,945	2,633	--	445	1,587	1,760	237	3,224	2,839
Nevada	75	67	67	--	--	--	--	--	--	5	5
New Mexico	41,122	36,333	36,001	--	--	183	60	87	2	4,451	338
Utah	13,057	11,565	9,762	--	554	592	245	57	355	1,188	504
Total, Southern Rocky Mountain States	176,276	155,444	136,713	2,633	5,961	1,382	2,035	1,927	4,793	16,814	4,018
Total, all Rocky Mountain States	845,676	740,874	629,995	63,971	24,000	5,921	3,424	5,718	7,845	92,073	12,729

Table 77.--Removals from sawtimber on commercial timberland in the Rocky Mountain States by roundwood products, logging residues, and other removals, 1976

State	Total removals	Products									
		All products	Saw logs	Veneer logs	Pulpwood	Commercial poles	Mine timbers	Miscellaneous industrial wood	Posts, fuelwood, miscellaneous farm timbers	Logging residues	Other removals
<i>--- Thousand board feet, International 1/4-inch rule ---</i>											
Northern Rocky Mountain States:											
Idaho	2,315,747	2,161,094	1,818,866	237,852	70,379	15,733	--	16,774	1,490	129,634	25,019
Montana	1,308,644	1,188,430	1,031,779	139,555	5,798	2,726	3,603	2,101	2,868	97,981	22,233
Western South											
Dakota	117,173	114,724	82,093	--	23,308	2,608	--	--	6,715	1,030	1,419
Wyoming	104,983	98,147	98,045	--	--	25	3	43	31	2,072	4,764
Total, Northern Rocky Mountain States	3,846,547	3,562,395	3,030,783	377,407	99,485	21,092	3,606	18,918	11,104	230,717	53,435
Southern Rocky Mountain States:											
Arizona	462,158	437,278	411,820	--	14,715	758	397	73	9,515	21,762	3,118
Colorado	219,904	194,265	161,981	16,442	--	2,068	4,044	8,808	922	8,629	17,010
Nevada	421	391	391	--	--	--	--	--	--	15	15
New Mexico	243,878	227,220	226,143	--	--	857	42	169	9	14,545	2,113
Utah	79,212	69,955	62,572	--	1,514	2,804	677	329	2,059	7,374	1,883
Total, Southern Rocky Mountain States	1,005,573	929,109	862,907	16,442	16,229	6,487	5,160	9,379	12,505	52,325	24,139
Total, all Rocky Mountain States	4,852,120	4,491,504	3,893,690	393,849	115,714	27,579	8,766	28,297	23,609	283,042	77,574

Green, Alan W.; Van Hooser, Dwane D. Forest resources of the Rocky Mountain States. Resour. Bull. INT-33. Ogden, UT: U.S. Department of Agriculture, Forest Service, Intermountain Forest and Range Experiment Station; 1983. 127 p.

Presents highlights of the forest resources of the Rocky Mountain States as of 1977. Describes the forest resources, their extent and location, and some considerations for their future use and management. Includes statistical tables: area by land classes, ownership, growing stock volumes, net annual growth, mortality, roundwood products output, and logging residues.

KEYWORDS: commercial timberland, forest inventory, timber volume, timber growth, timber mortality, timber removals

The Intermountain Station, headquartered in Ogden, Utah, is one of eight regional experiment stations charged with providing scientific knowledge to help resource managers meet human needs and protect forest and range ecosystems.

The Intermountain Station includes the States of Montana, Idaho, Utah, Nevada, and western Wyoming. About 231 million acres, or 85 percent, of the land area in the Station territory are classified as forest and rangeland. These lands include grasslands, deserts, shrublands, alpine areas, and well-stocked forests. They supply fiber for forest industries; minerals for energy and industrial development; and water for domestic and industrial consumption. They also provide recreation opportunities for millions of visitors each year.

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