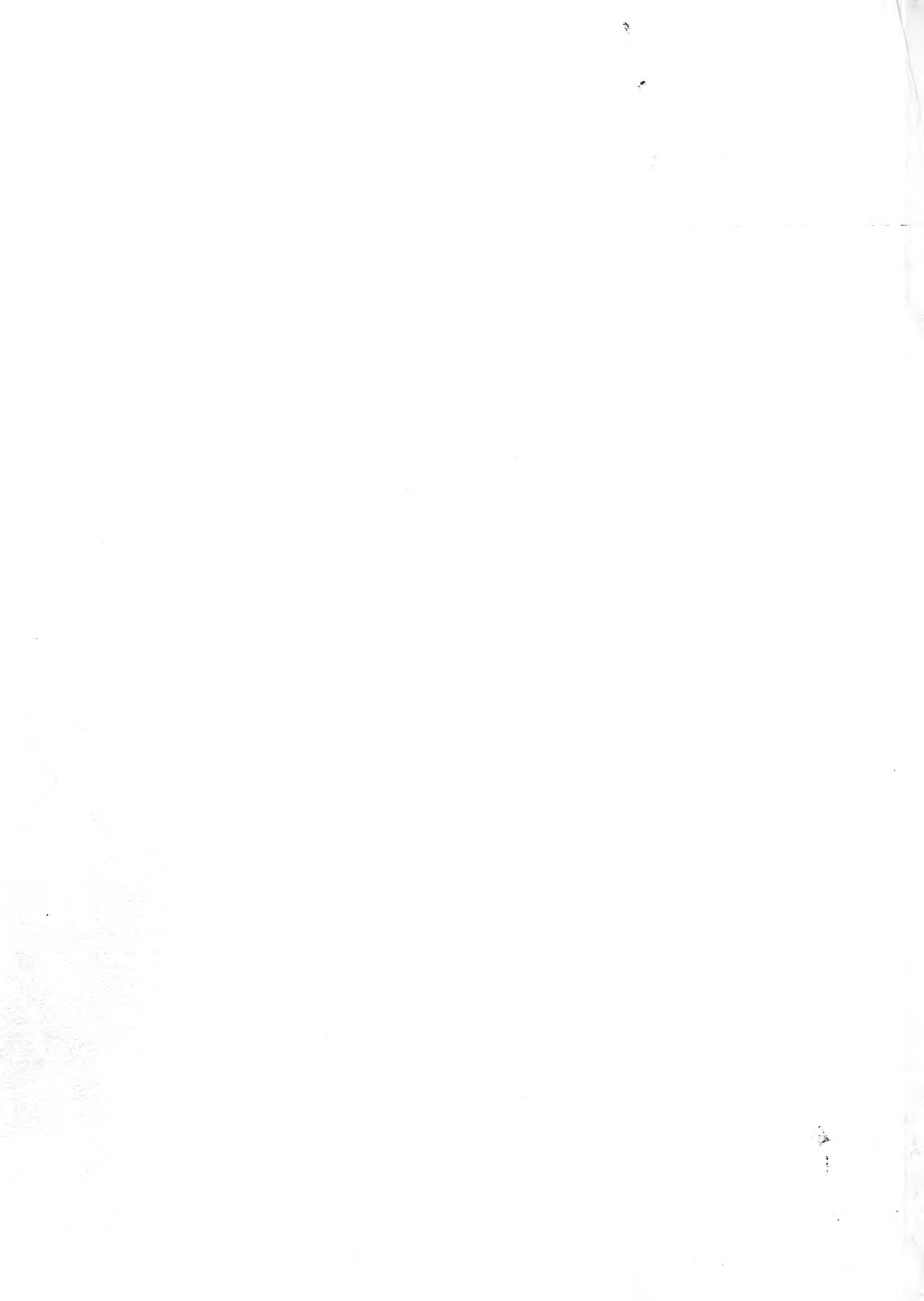


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# THE ROCKY MOUNTAIN TIMBER SITUATION, 1970



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Intermountain Forest & Range Experiment Station  
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# **THE ROCKY MOUNTAIN TIMBER SITUATION, 1970**

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## **ABSTRACT**

Presents highlights of the 1970 forest situation in the Rocky Mountain States. Describes the forest resource and the timber supply outlook; discusses some problems and opportunities for increasing timber output. Includes statistical tables: areas by land classes; ownership; growing stock volumes; net annual growth; mortality; roundwood products output; and logging residues.

# CONTENTS

	Page
INTRODUCTION . . . . .	1
THE TIMBER RESOURCE . . . . .	2
Timber Base Area . . . . .	2
Who Owns What, Where . . . . .	8
<u>Location</u> . . . . .	8
<u>Ownership</u> . . . . .	8
<u>Timber--Kinds and Sizes</u> . . . . .	9
<u>Noncommercial Forest Land</u> . . . . .	11
WHAT'S BEEN HAPPENING. . . . .	12
Removals . . . . .	12
Mortality . . . . .	14
Growth . . . . .	16
WHAT'S AHEAD . . . . .	19
National Forest . . . . .	20
Other Owners . . . . .	22
In Total . . . . .	23
Opportunities for Increasing Timber Supplies . . . . .	23
APPENDIX. . . . .	29
Glossary . . . . .	30
Forest Survey Tables. . . . .	37
10 Land areas in the Rocky Mountain States by land class, 1970 . . . . .	37
11 Area of commercial forest land in the northern Rocky Mountain States by ownership class, 1970 . . . . .	38
12 Area of commercial forest land in the southern Rocky Mountain States by ownership class, 1970 . . . . .	38
13 Area of commercial forest land in the Rocky Mountain States by stand-volume class and owner group, 1970 . . . . .	39
14 Area of commercial forest land in north Idaho by owner group, forest type, stand-size class, and site class, 1970 . . . . .	40
15 Area of commercial forest land in south Idaho by owner group, forest type, stand-size class, and site class, 1970 . . . . .	42
16 Area of commercial forest land in western Montana by owner group, forest type, stand-size class, and site class, 1970 . . . . .	44
17 Area of commercial forest land in eastern Montana by owner group, forest type, stand-size class, and site class, 1970 . . . . .	46
18 Area of commercial forest land in western South Dakota by owner group, forest type, stand-size class, and site class, 1970 . . . . .	48
19 Area of commercial forest land in Wyoming by owner group, forest type, stand-size class, and site class, 1970 . . . . .	50
20 Area of commercial forest land in Arizona by owner group, forest type, stand-size class, and site class, 1970 . . . . .	52

21	Area of commercial forest land in Colorado by owner group, forest type, stand-size class, and site class, 1970 . . . . .	54
22	Area of commercial forest land in Nevada by owner group, forest type, stand-size class, and site class, 1970 . . . . .	56
23	Area of commercial forest land in New Mexico by owner group, forest type, stand-size class, and site class, 1970 . . . . .	58
24	Area of commercial forest land in Utah by owner group, forest type, stand-size class, and site class, 1970 . . . . .	60
25	Net volume of growing stock and sawtimber on commercial forest land in the Rocky Mountain States by softwoods and hardwoods and owner group, 1970 . . . . .	62
26	Net volume of timber on commercial forest land in the Rocky Mountain States by timber class and softwoods and hardwoods, 1970 . . . . .	63
27	Net volume of growing stock on commercial forest land in the northern Rocky Mountain States by diameter class and species, 1970 (north Idaho). . . . .	64
28	Net volume of sawtimber on commercial forest land in the northern Rocky Mountain States by diameter class and species, 1970 (north Idaho). . . . .	64
29	Net volume of growing stock on commercial forest land in the northern Rocky Mountain States by diameter class and species, 1970 (south Idaho). . . . .	65
30	Net volume of sawtimber on commercial forest land in the northern Rocky Mountain States by diameter class and species, 1970 (south Idaho). . . . .	65
31	Net volume of growing stock on commercial forest land in the northern Rocky Mountain States by diameter class and species, 1970 (western Montana). . . . .	66
32	Net volume of sawtimber on commercial forest land in the northern Rocky Mountain States by diameter class and species, 1970 (western Montana). . . . .	66
33	Net volume of growing stock on commercial forest land in the northern Rocky Mountain States by diameter class and species, 1970 (eastern Montana). . . . .	67
34	Net volume of sawtimber on commercial forest land in the northern Rocky Mountain States by diameter class and species, 1970 (eastern Montana). . . . .	67
35	Net volume of growing stock on commercial forest land in the northern Rocky Mountain States by diameter class and species, 1970 (western South Dakota) . . . . .	68
36	Net volume of sawtimber on commercial forest land in the northern Rocky Mountain States by diameter class and species, 1970 (western South Dakota) . . . . .	68
37	Net volume of growing stock on commercial forest land in the northern Rocky Mountain States by diameter class and species, 1970 (Wyoming). . . . .	69



	Page
38	Net volume of sawtimber on commercial forest land in the northern Rocky Mountain States by diameter class and species, 1970 (Wyoming) . . . . . 69
39	Net volume of growing stock on commercial forest land in the southern Rocky Mountain States by diameter class and species, 1970 (Arizona) . . . . . 70
40	Net volume of sawtimber on commercial forest land in the southern Rocky Mountain States by diameter class and species, 1970 (Arizona) . . . . . 70
41	Net volume of growing stock on commercial forest land in the southern Rocky Mountain States by diameter class and species, 1970 (Colorado) . . . . . 71
42	Net volume of sawtimber on commercial forest land in the southern Rocky Mountain States by diameter class and species, 1970 (Colorado) . . . . . 71
43	Net volume of growing stock on commercial forest land in the southern Rocky Mountain States by diameter class and species, 1970 (Nevada) . . . . . 72
44	Net volume of sawtimber on commercial forest land in the southern Rocky Mountain States by diameter class and species, 1970 (Nevada) . . . . . 72
45	Net volume of growing stock on commercial forest land in the southern Rocky Mountain States by diameter class and species, 1970 (New Mexico) . . . . . 73
46	Net volume of sawtimber on commercial forest land in the southern Rocky Mountain States by diameter class and species, 1970 (New Mexico) . . . . . 73
47	Net volume of growing stock on commercial forest land in the southern Rocky Mountain States by diameter class and species, 1970 (Utah) . . . . . 74
48	Net volume of sawtimber on commercial forest land in the southern Rocky Mountain States by diameter class and species, 1970 (Utah) . . . . . 74
49	Net annual growth of growing stock and sawtimber on commercial forest land in the Rocky Mountain States by softwoods and hardwoods and owner group, 1970 (northern) . . . . . 75
50	Net annual growth of growing stock and sawtimber on commercial forest land in the Rocky Mountain States by softwoods and hardwoods and owner group, 1970 (southern) . . . . . 75
51	Annual mortality of growing stock and sawtimber on commercial forest land in the Rocky Mountain States by softwoods and hardwoods and owner group, 1970 (northern) . . . . . 76
52	Annual mortality of growing stock and sawtimber on commercial forest land in the Rocky Mountain States by softwoods and hardwoods and owner group, 1970 (southern) . . . . . 76

	Page
53	Output of roundwood products from timberlands in the Rocky Mountain States by softwoods, hardwoods, and owner group, 1970 . . . . . 77
54	Removals from growing stock on commercial forest land in the Rocky Mountain States by roundwood products, logging residues, and other removals, 1970 . . . . . 78
55	Removals from sawtimber on commercial forest land in the Rocky Mountain States by roundwood products, logging residues, and other removals, 1970 . . . . . 78

# INTRODUCTION

When the Nation's timber supply was last assessed in 1962, the relationship of timber harvest to growth was a major concern. However, the data showed that fears of a timber famine probably were unfounded if the future demand for timber stayed within projected limits and if management activities in timber stands could be intensified.

The remainder of the decade saw some dramatic changes in the use and management of forest lands. The demand for timber products was slightly higher than projected and at the same time the demand for nontimber uses of forest land increased sharply. In addition, a growing public awareness and understanding of the role of the forest in man's environment began to develop. An active concern for the protection of that environment led to more stringent requirements for management of forest land. In many areas, restrictions have been placed on certain uses of forest land as well as on the kinds of activities allowed in timber production.

In addressing the current timber supply situation, some would continue to dramatize it as a "timber famine," while others would not. Thus, the basic question has not changed since the last timber supply assessment, but the basis for concern is vastly different. Where before the balance of cut and growth was the major issue, now the availability of forest land for timber production and having to operate within budgetary and environmental constraints have taken on primary importance.

This report is not a duplication of the 1970 National Timber Review.<sup>1</sup> Rather, it presents highlights of the forest situation in the Rocky Mountain Forest Survey Section (Idaho, Montana, western South Dakota, Wyoming, Arizona, Colorado, Nevada, New Mexico, and Utah). It describes the resource, the timber supply outlook, and some of the problems associated with increasing the timber output from this region.

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<sup>1</sup> USDA Forest Service. The outlook for timber in the United States, Resour. Rep. 20, Oct. 1973.

# THE TIMBER RESOURCE

## Timber Base Area

In 1970, there were about 138 million acres of forest land in the Rocky Mountain States, of which 61.6 million were classed as commercial forest land (CFL) suitable and available for timber-growing activities:<sup>2</sup>

	<u>Million acres</u>
Total land area	554.8
Forest land	138.3
Commercial	<sup>3</sup> 61.6
Productive reserved	7.9
Deferred	2.3
Unproductive	66.5

Commercial forest land is land...

that is both suitable and available for timber production activities.

The nature of the commercial timber base area is that it is considered to be both suitable and available for the production and harvest of industrial wood. It can be counted on as a reliable source of timber now and in the future.

"Suitability" pertains to factors of productivity and the capacity of the land to withstand the physical disturbance associated with timber management and harvesting activities. "Availability" has to do with the relative importance of timber in relation to other uses and the relative difficulty of management and harvest.

---

<sup>2</sup> Commercial forest land is defined for the 1970 Timber Review as forest land producing or capable of producing crops of industrial wood and not withdrawn from timber utilization. Areas qualifying as commercial forest land must have the capability of producing in excess of 20 cubic feet per acre per year of industrial wood under management. Currently included are inaccessible and inoperable areas.

<sup>3</sup> This figure (1970 National Timber Review) includes 5 million acres of commercial forest land on National Forests placed in "commercial unregulated" category, indicating it cannot be relied upon for timber products output because of probable conflict with other uses. It is not included in allowable cut calculations or in future timber supply projections.

Administrative decisions can make more or less forest land available for supplying wood. New logging techniques and higher wood prices could make more wood available--from timber that is today technologically or economically unavailable. Unfortunately, present timber inventories do not take into account all the important factors that affect economic or technological availability of forest land for timber use. Moreover, in the case of nonindustrial private owners, there is always the question of the owner's intent. Will he cut at current wood prices or at some higher price? In fact, will he cut at any price?

Historically commercial forest land area has fluctuated...

It is tempting to compare current figures for commercial forest area with those reported in previous timber supply assessments (table 1). Whatever magic may be assigned such figures for long-range planning purposes should be tempered by the realization that commercial forest land is somehow whatever it is said to be. Changes in definitions and measurement rules make fickle benchmarks of such figures for purposes of gaging progress or status of forestry activity.

depending on marketable species...

Historically, the outlook and attitude toward productive forest land in the Rocky Mountain States can be divided into three phases. The first, which began before the turn of the century, was characterized by interest in only the most valuable and high-quality species because of the long distances to principal markets. In that era only a small portion of the timber resource was considered commercial from the practical standpoint.

Table 1.--Trends and projection of commercial forest area in the Rocky Mountains by owner class

Owner class	1952	1962	1970	1980	2000	2020
- - - - - Million acres - - - - -						
National Forest	38.4	38.8	34.8	34.8	34.8	34.8
Other public	7.2	7.2	7.2	4.3	4.3	4.3
Forest industry	2.3	2.2	2.2	2.2	2.2	2.2
Other private	12.5	12.5	12.4	6.2	6.2	6.2
<b>Total</b>	<b>60.4</b>	<b>60.7</b>	<b>156.6</b>	<b>47.5</b>	<b>47.5</b>	<b>47.5</b>

<sup>1</sup>Future timber supplies were projected on the basis of 56.6 million acres of commercial forest land suitable and available for timber production activities.

demands for  
timber...

The second phase broke abruptly after World War II when backlog demands for housing and improvements in transportation combined to make previously economically derelict species quite usable. Record volumes were removed from a commercial timber base that, during and after the war years, began to increase in size merely through changes in attitude and definition. By 1962 some 60.7 million acres were registered in the books as commercial.

and use  
constraints.

Growing recognition of nontimber forest values triggered the beginning of the third phase, the one we are presently in. Although scenic and recreational qualities of the Rocky Mountains have been generally recognized since the 19th century, only recently has broader public attention been focused on nontimber uses and environmental impacts associated with timber growing and harvesting (fig. 1).

In short, the pendulum has started to swing back toward a more limited area being classed as commercial



Figure 1.--Areas of land such as this are capable of producing more than 20 cubic feet of wood per acre per year. Will they be used for timber production?

forest land in the Rocky Mountains. It has been most apparent on the National Forests, where even before significant withdrawals of productive forest land were made, reductions in allowable cut were accommodating the increasing demand for nontimber uses. Yet this was recognized as insufficient to meet public demands.

Currently recreation and environmental impacts are of vital concern to the public.

The growing demand for Wilderness led to the creation of an additional 1.5 million acres of Wilderness between 1962 and 1970 on public land in the eight Rocky Mountain States. Much of this is high country of little or no importance for timber production (fig. 2 and 3). However, there may be some impact on timber supplies associated with these withdrawals in relation to what would have been commercial timber immediately adjacent. Limitations on the kind and extent of timber extraction activities that can be undertaken affect the quantities of wood that can be made available on the adjacent areas.

Some 2.3 million acres of productive forest land are currently under study for possible inclusion into the Wilderness System or withdrawal in favor of some other restricted use. Beyond that, questions of economic and physical operability without undue damage to the resources and to other values, and diversion of forest land to a variety of other uses have had a significant impact on the area of forest land that can reasonably be included in the commercial timber base. There are sizable areas of National Forest land in several States classed as CFL "deferred." No decision has been reached regarding withdrawal of these lands in favor of nontimber use.

Colorado, Idaho, and Montana have the largest areas of National Forest in the "deferred" category. It is likely there will be further reductions in CFL area in Colorado and Idaho, as well as in other States because of land use changes and environmental protection considerations.

As of 1970, a total of about 5 million acres of CFL on National Forests in the Rocky Mountain States had been placed in an "unregulated" category, to preclude a commitment to exploitation of its timber resources in the face of increasing demands for nontimber use of that land, and potential environmental degradation. Half of this land is in Colorado. By 1972, a total of 184 areas containing 6.6 million acres were under study in the Rocky Mountain States for possible reclassification into some nontimber use.

Unfortunately, these shifts in land use and use emphasis are so recent the present statistics do not fully

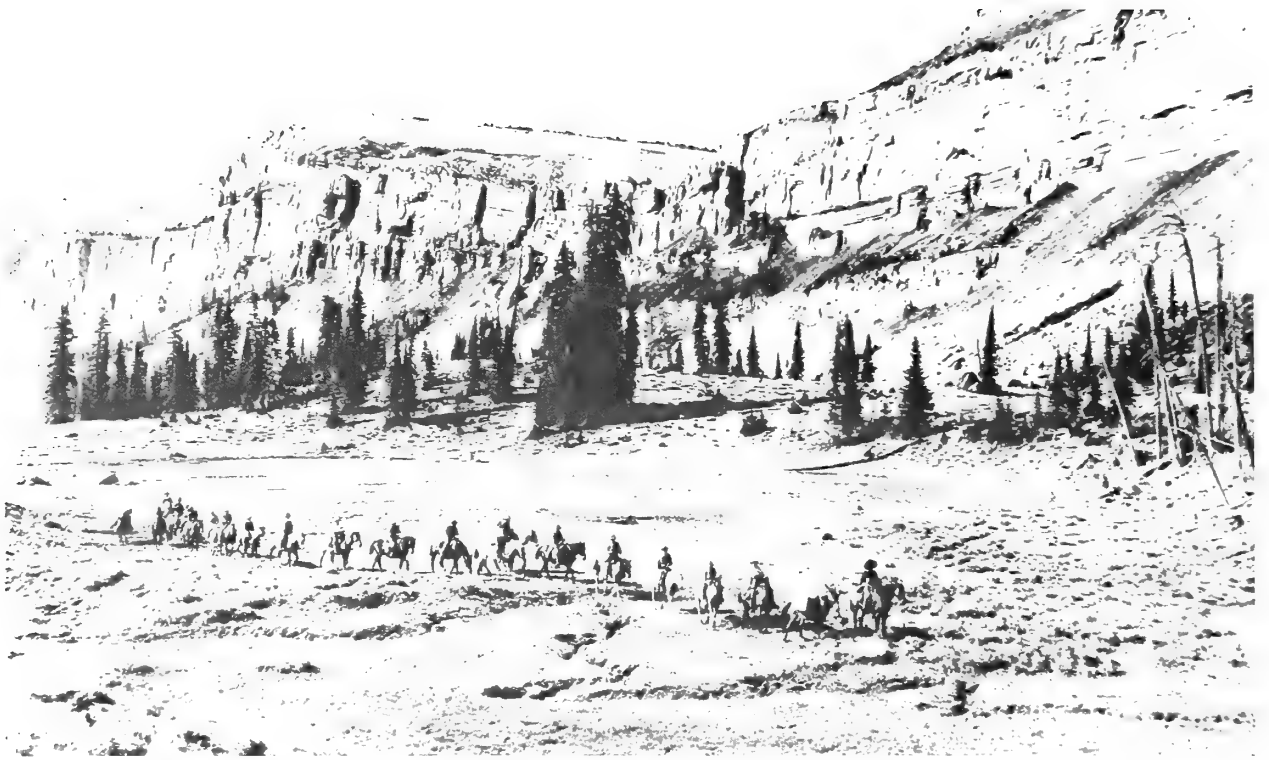


Figure 2.--Some areas set aside for recreation, esthetic enjoyment, and scientific study have little impact on timber supply.



Figure 3.--Some areas set aside for recreation, esthetic enjoyment, and scientific study have a significant impact on timber supply.



Table 2.--Total forest land and commercial forest land in the Rocky Mountain States, 1970

State	Total forest land	CFL <sup>1</sup>	Percent	Commercial forest land	
				National Forest unregulated	National Forest deferred
- - - Thousand acres - - -			- - - - - Thousand acres - - - - -		
North. Rocky Mt. States:					
Idaho	21,638.2	14,196.9	65.61	995.5	735.6
Montana	22,777.6	15,850.6	69.59	132.8	641.1
Western S. Dakota	1,399.4	1,253.8	89.60	56.6	--
Wyoming	10,085.1	3,255.8	32.28	926.5	121.9
Total	55,900.3	34,557.1	61.82	2,111.4	1,498.6
South. Rocky Mt. States:					
Arizona	18,583.7	3,636.8	19.57	53.1	10.3
Colorado	22,534.7	9,039.5	40.11	2,544.2	702.4
Nevada	7,660.6	127.6	1.67	1.0	--
New Mexico	18,313.7	5,605.2	30.61	131.2	48.6
Utah	15,288.1	3,618.8	23.67	205.8	22.0
Total	82,380.8	22,027.9	26.74	2,935.3	783.3
Total Rocky Mts.	138,281.1	56,585.0	40.92	5,046.7	2,281.9

<sup>1</sup>These commercial forest land areas do not include National Forest unregulated and deferred acreages. For the Rocky Mountain States, the area of commercial forest land plus the area of National Forest unregulated land totals 61.6 million acres.

reflect their impact on future timber supplies. While not all the 2.3 million acres presently under consideration for Wilderness or the 5 million acres in the unregulated category may actually be withdrawn, the possibility is there. Other public agencies, faced with the same changing use pressures as the Forest Service, are likely to reduce their commercial timber base areas also.

Shifting ownerships and the consequent rarity of long-range plans make it difficult to project the future availability of timber on private lands. However, it is apparent that a substantial and increasing number of owners hold these lands for purposes that exclude timber cutting. As much as 50 percent of the privately owned forest land now classed as commercial may be out of the timber base by 1980.

After 1980 the area suitable and available for timber production is expected to stabilize.

In total, the area of forest land that can be relied upon as a planning base for timber supply is less than the 66 million acres shown in Timber Trends in the United States<sup>4</sup> for 1962. After 1980 we expect the actual timber base area will stabilize at about 47.5 million acres.

<sup>4</sup> U. S. Forest Service. Timber trends in the United States. For. Serv. Resour. Rep. 17, 235 p., illus. Govt. Print. Off., Wash., D. C. 1965.

# Who Owns What, Where

THE TYPICAL ACRE OF COMMERCIAL FOREST LAND IN THE ROCKY MOUNTAIN STATES IS A SAWTIMBER STAND OF PONDEROSA PINE ON A NATIONAL FOREST.

## Location

The 61.6 million acres now officially classified as CFL (a little more than 12 percent of the total in the United States) are split about 60-40 between the northern and southern Rocky Mountain States. The Northern States not only have more acreage of CFL than the Southern States, but they also have a larger proportion of forest land in the commercial category (table 2). The proportion of forest area in CFL varies widely by State, from nearly all in western South Dakota to nearly none in Nevada.

More than half the Rocky Mountain total of commercial forest is in Idaho and Montana, whose 31.2 million acres (including "unregulated") represent 85 percent of the CFL in all four Northern States. Colorado, with more than 11 million acres, accounts for almost half the CFL in the southern region and has over twice as much as any other State in the region. Nevada has the least CFL of any State in the Rocky Mountain Section.

## Ownership

Little new can be said about the ownership of CFL in the Rocky Mountains. Nearly three-fourths of it is publicly owned or administered and most of that is under the administration of Federal agencies. The Forest Service has more of it than anyone else; its 35 million acres represent 61 percent of CFL in the Rocky Mountains and 83 percent of all publicly owned or administered CFL. More than half the Forest Service holdings are in Idaho and Montana.

The Bureau of Land Management and the Bureau of Indian Affairs are the other two Federal agencies managing CFL.<sup>5</sup> The BLM has most of its holdings in the Northern States while Indian lands are predominantly in the Southern. The combined holdings of these two agencies amount to slightly less than 5 million acres or 9 percent of the total.

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<sup>5</sup> Although Indian lands are listed as being in Federal ownership due to the nature of their Federal trusteeship and administration, they are in reality privately owned by the various tribes.

Most of the CFL is federally owned or administered, and the Forest Service has the biggest share of it.

Other public forest lands are largely State-owned, with the largest holdings in Montana and Idaho. There is more State-owned CFL in the Northern States than in the Southern.

Industrial holdings are minor.

Private holdings of CFL are largely farms; these are more common in the Southern States than in the Northern. Forest industry has only about 2.2 million acres of CFL, almost all of it in Idaho and Montana. In the Southern States, industrial holdings are insignificant.

#### Timber--Kinds and Sizes

Sawtimber stands dominate...

Sawtimber stands dominate the CFL in the Rocky Mountain States (fig. 3). Idaho and Montana have the largest areas of sawtimber stands, but Arizona, New Mexico, and Nevada have the highest proportions of sawtimber. There are some timber management problems inherent in such an imbalance of size classes; however, stand-size classification alone can be misleading in terms of diameter distribution, simply because of the way stand sizes are defined.<sup>6</sup> For example, in the ponderosa pine forests of Arizona and New Mexico, smaller diameter classes are common in stands that are classed as sawtimber on the basis of crown occupancy. In the Southwest, where selective cutting may not have a noticeable effect on stand-size classification for some years, establishment of regeneration is of more concern. Regeneration problems following cutting are common in other areas as well; in Colorado they are reflected in the comparatively high proportion (11 percent) of CFL considered to be nonstocked (fig. 4).

particularly in the Southwest.

Ponderosa pine and...

There are over 15 million acres of ponderosa pine, which makes it the most extensive type in the Rocky Mountains. It is dominant in the Southwest, the Black Hills of South Dakota, and the drier portions of Idaho and Montana.

Douglas-fir are major species used...

Douglas-fir occupies more than 12 million acres, mostly on the moister sites, and is widely distributed throughout the Rocky Mountain area. In terms of growing-stock volume, Douglas-fir overshadows ponderosa pine.

---

<sup>6</sup> Softwood 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 pole-timber trees, with sawtimber at least equal to pole-timber stocking.

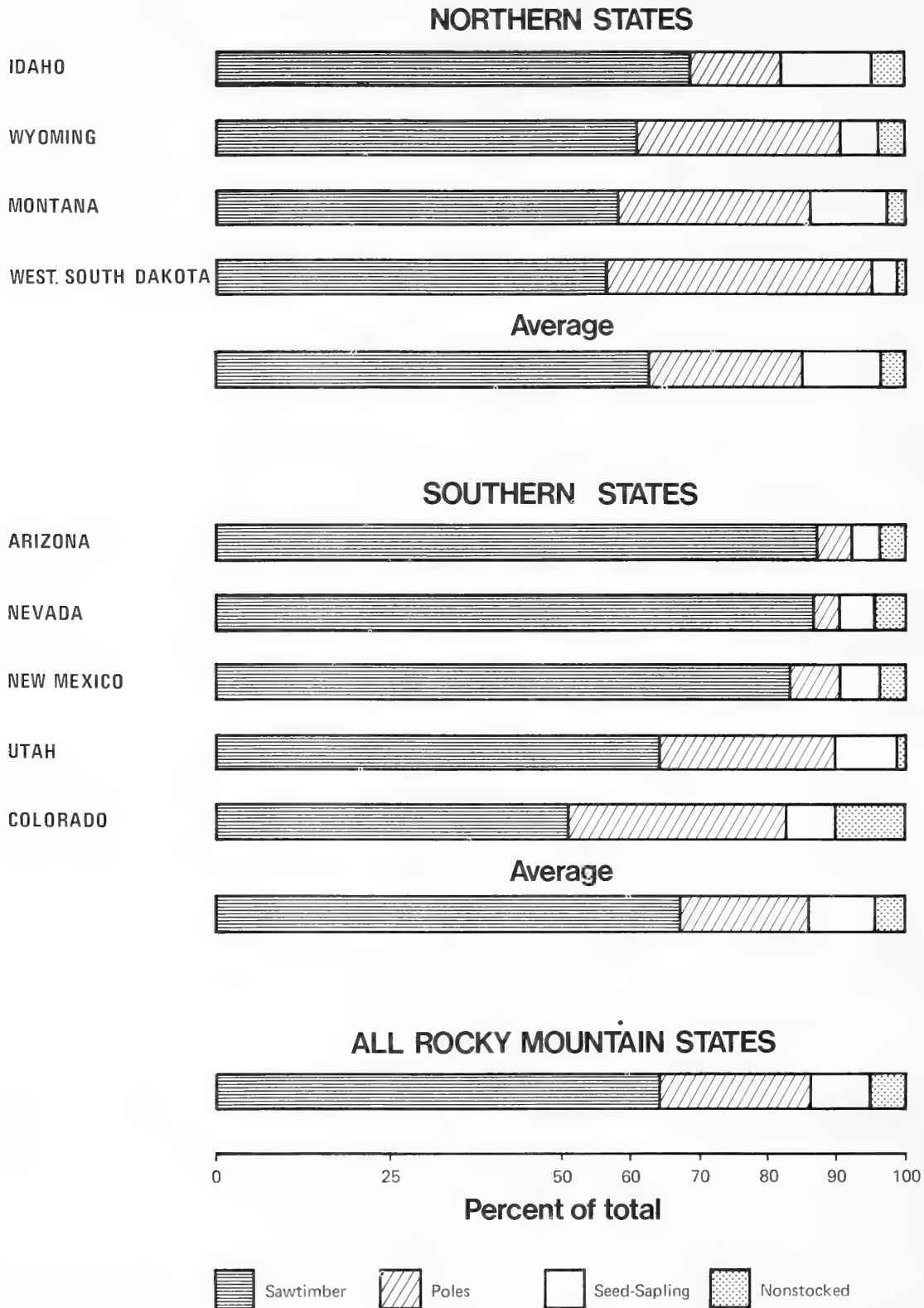


Figure 4.--Percent of commercial forest land by stand-size class, 1970.

but lodgepole  
pine occupies  
large areas.

Lodgepole pine occupies 10 million acres of CFL, much to the disappointment of many managers. In some areas it is a useful resource, in others it is regarded (rightly or wrongly) as a roadblock to progress. Small size and low vigor (the consequences of stagnation), as well as lack of markets, are commonly discussed in relation to this species. The fir-spruce type occupies about the same area of lodgepole pine but generally does not elicit the same reaction from forest managers. It is a more significant type in the North than in the South, both in terms of area and volume.

Hardwoods are relatively insignificant in both area and volume, consisting of mostly cottonwood and aspen in Colorado and Utah.

104 billion cubic  
feet is the same  
as...

In 1970, CFL in the Rocky Mountain States contained an estimated wood volume of 104 billion cubic feet. About 92 billion cubic feet of it was in growing stock trees, and 88 billion of it was in softwood timber. The sheer magnitude of such numbers certainly exercises the imagination; 104 billion cubic feet would cover an area of 1 square mile (640 acres) with wood to a height of 3,730 feet! (Or if you prefer, it would be enough wood to fill a reservoir 10 miles long, 3.7 miles wide, and 100 feet deep.)

780 billion gallons!?

Northern softwood  
sawtimber dominates.

The 88 billion cubic feet of softwood growing stock is about three-fourths sawtimber, estimated at 355 billion board feet (International 1/4-inch log rule). The bulk of it is in Montana and Idaho and leans heavily toward Douglas-fir (84 billion board feet) and ponderosa pine (66 billion). In the Northern States the Douglas-fir sawtimber volume is nearly twice that of any other species; in the Southern, spruce accounts for nearly as much volume as ponderosa pine but is generally in small diameter trees. About 60 percent of the ponderosa pine sawtimber is in trees 19 inches diameter breast height (d.b.h.) and larger, whereas only about one-third the spruce volume is in the larger diameter classes.

#### Noncommercial Forest Land

Arizona, New Mexico,  
and Utah have large  
areas of unproduc-  
tive pinyon-juniper.

The noncommercial forest land is made up of unproductive lands and those that for some reason are either unsuitable or unavailable for timber harvest. Most of the unproductive forest land is found in the southern Rocky Mountain States and consists largely of pinyon-juniper stands. Arizona, New Mexico, and Utah have the largest areas of unproductive forest; but Nevada has the largest proportion of unproductive land; in fact, only 2 percent of Nevada's forest land is considered productive.

# WHAT'S BEEN HAPPENING

## Removals

In the 1952-1970 period, removals from growing stock doubled...

Between 1952 and 1970, total removals of growing stock more than doubled to 1.1 billion cubic feet per year in the Rocky Mountain Survey Section (table 3). Sawtimber removals amounted to slightly more than 6 billion board feet in 1970 (table 4), of which only 50 million were hardwoods.

The greatest increase (as well as total volume removed) was on the National Forests, but industrial lands also supported a significant increase:

<u>Owner group or class</u>	<u>Percent change</u> (from 1952 to 1970)	<u>Percent of total</u>
<u>with the biggest increase from National Forests.</u>		
National Forest	+237	68
Other public	+8	8
Industry	+78	16
Other private	-23	8
All owners	+113	100

Industry relies heavily on publicly owned timber...

Roundwood products output accounted for about 93 percent of total removals during the 1950-1970 period, the remainder being logging residues (5 percent) and "other removals" (2 percent) associated with withdrawals of forest land for nontimber uses. There was no appreciable difference in the distribution of these components among owner groups, and no significant changes are expected in the future. The northern Rocky Mountain States are currently supplying about 76 percent of the roundwood products from growing stock.

By 1970, sawtimber products output totaled about 5.6 billion board feet, compared with only 3.0 billion in 1952 (table 4). National Forests and other public lands contributed nearly three-fourths of the output, which is about proportional to public ownership of productive forest land in the Rocky Mountains.

even while overcutting its own land.

Cutting on industrial lands increased (fig. 5) during the 1952-1970 period, and was well in excess of growth. Products output from nonindustrial private lands dropped significantly, and by 1970 accounted for less than 500 million board feet of sawtimber, compared with nearly 650 million in 1952.

Table 3.--Trends and projected changes in timber removals from growing stock by owner class in the Rocky Mountains

Owner class	Species group	1952	1962	1970	1980	1990	2000	2010	2020
----- Million cubic feet -----									
National Forest	Softwoods	228.3	411.8	763.3	756.2	751.0	746.5	742.8	740.0
	Hardwoods	1.7	2.3	11.4	18.4	23.6	28.1	31.8	34.6
	Total	230.0	414.1	774.7	774.6	774.6	774.6	774.6	774.6
Other public	Softwoods	79.1	85.6	85.6	51.6	75.9	111.6	111.6	111.6
	Hardwoods	.3	.4	.1	2.2	3.9	6.5	6.5	6.5
	Total	79.4	86.0	85.7	53.8	79.8	118.1	118.1	118.1
Forest industry	Softwoods	104.3	134.2	185.9	158.7	136.3	106.4	106.4	106.4
	Hardwoods	.1	.2	.1	1.6	1.5	1.2	1.2	1.2
	Total	104.4	134.4	186.0	160.3	137.8	107.6	107.6	107.6
Other private	Softwoods	121.3	106.2	93.4	61.5	112.9	186.1	186.1	186.1
	Hardwoods	.5	.6	.3	6.4	13.7	24.4	24.4	24.4
	Total	121.8	106.8	93.7	67.9	126.6	210.5	210.5	210.5
All owners	Softwoods	533.0	737.8	1,128.2	1,028.0	1,076.1	1,150.6	1,146.9	1,144.1
	Hardwoods	2.6	3.5	11.9	28.6	42.7	60.2	63.9	66.7
	Total	535.6	741.3	1,140.1	1,056.6	1,118.8	1,210.8	1,210.8	1,210.8

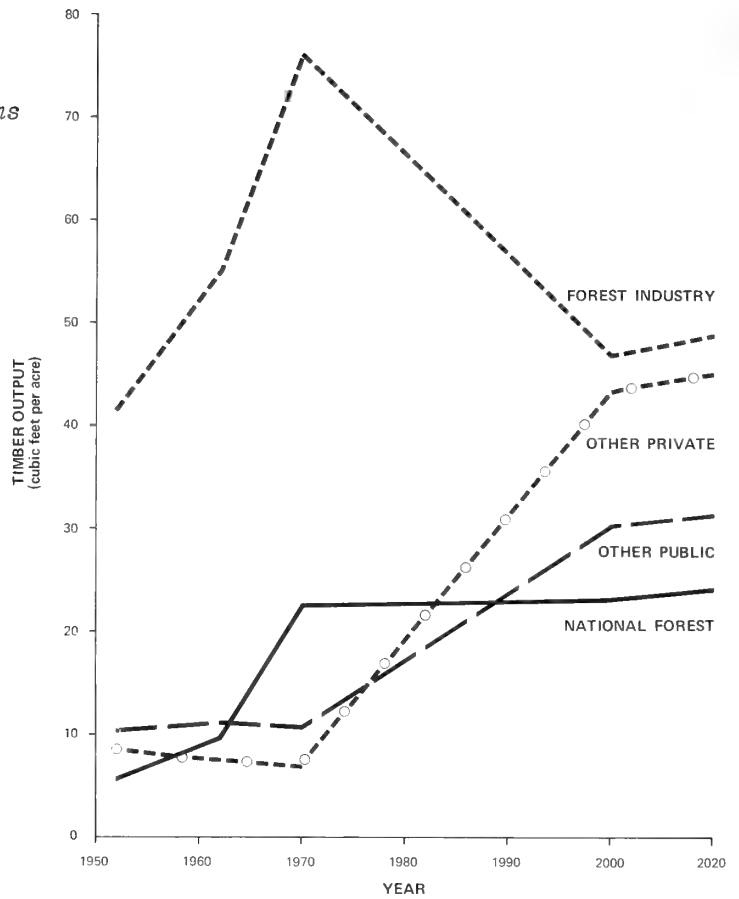
Table 4.--Trends and projected changes in components of sawtimber removals by owner class in the Rocky Mountains

Owner class	Component	1952	1962	1970	1980	1990	2000	2010	2020
----- Million board feet <sup>1</sup> -----									
National Forest	Timber products	1,283	2,260	3,676	3,651	3,469	3,315	3,186	3,081
	Logging residues	72	133	200	200	189	179	171	164
	Other removals <sup>2</sup>	27	45	89	134	173	207	240	271
	Total removals	1,382	2,438	3,974	3,985	3,831	3,701	3,597	3,516
Other public	Timber products	427	446	461	177	297	423	424	425
	Logging residues	27	28	29	13	18	24	24	23
	Other removals	8	9	9	47	17	24	23	23
	Total removals	462	483	499	237	332	471	471	471
Forest industry	Timber products	604	740	983	730	569	413	415	415
	Logging residues	38	46	62	46	34	24	23	22
	Other removals	12	15	19	41	32	23	23	23
	Total removals	654	801	1,064	817	635	460	461	460
Other private	Timber products	639	538	494	204	421	668	670	671
	Logging residues	40	34	31	15	25	38	36	35
	Other removals	13	10	10	55	23	37	37	37
	Total removals	692	582	535	274	469	743	743	743
All owners	Timber products	2,953	3,984	5,613	4,762	4,756	4,819	4,695	4,592
	Logging residues	177	241	322	274	266	265	254	244
	Other removals	60	79	137	277	245	291	323	354
	Total removals	3,190	4,304	6,072	5,313	5,267	5,375	5,272	5,190

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

<sup>2</sup>Other removals are assumed to come mainly from TSI work, and therefore much of the volume comes from trees smaller than sawtimber size. The direct conversions of cubic-foot volumes to board-foot volumes, therefore, are not particularly meaningful but are shown here for convenience.

Figure 5.--Trends and projections of timber products output by owner class in the Rocky Mountains.



The projected decrease in cutting on industrial lands and the sharp projected increase for nonindustrial private and "other public" owners are based on the assumption that by the year 2000, these owners will balance cut with growth.

## Mortality

Mortality in Rocky Mountain forests is high...

In 1970 the loss of growing-stock volume to mortality totaled some 613 million cubic feet (table 5), nearly three-fourths the volume that went into roundwood products. Sawtimber volume losses amounted to 2.5 billion board feet (table 6), almost half the roundwood products output from sawtimber. Theoretically, if all mortality could be salvaged, the annual timber supply could be increased by about 45 percent. Unfortunately, very little mortality is in fact salvaged, and it is unlikely that much of it could or will be.

mostly because of insects and fire.

Bark beetles can take most of the credit for the dead trees dotting the forest landscape. In the Northern States, Douglas-fir beetle and larch casebearer caused much of the 392-million-cubic-foot loss in 1970. In the Southern, mountain pine and spruce beetles accounted for a good



Table 5.--Annual mortality of growing stock on commercial forest land in the Rocky Mountain States by region and owner group, 1970

Region	: All owners	: National Forest	: Other public	: Forest industry	: Other private
- - - - - <i>Thousand cubic feet</i> - - - - -					
North. Rocky Mt. States	392,099	279,799	39,659	22,508	50,133
South. Rocky Mt. States	220,635	127,035	33,774	1,473	58,353
All Rocky Mt. States	612,734	406,834	73,433	23,981	108,486

Table 6.--Annual mortality of sawtimber on commercial forest land in the Rocky Mountain States by region and owner group, 1970

Region	: All owners	: National Forest	: Other public	: Forest industry	: Other private
- - <i>Thousand board feet, International 1/4-inch log rule</i> - -					
North. Rocky Mt. States	1,650,780	1,225,780	155,646	99,562	169,792
South. Rocky Mt. States	824,202	500,202	124,049	5,445	194,506
All Rocky Mt. States	2,474,982	1,725,982	279,695	105,007	364,298

portion of the roughly 221 million cubic feet of mortality. The losses to these insects are distributed about the same as the area of CFL--roughly 60 and 40 percent in the North and South, respectively.

The commercial species most affected are Douglas-fir, western larch, ponderosa pine, lodgepole pine, and Engelmann spruce.

In addition to the large volumes of timber lost to insects, in 1970 about 391 million board feet of sawtimber went up in smoke. It was a bad fire year, especially in Idaho and Montana, which sustained 95 percent of the loss. Over half the fires were started by lightning, but if people had been more careful, up to 164 million board feet might have been spared. In terms of the industrial pocketbook,

fire losses in 1970 were valued at between 12 and 16 million dollars.

There is a more subtle kind of mortality that has an important impact on timber supplies--suppression mortality. Trees that die from lack of sufficient light in overcrowded stands usually contain little volume, but in some areas they die in enormous numbers. While there is no salvable volume associated with the death of these trees, such losses represent useless growth that could have been redirected to trees in a position to grow to merchantability.

## Growth

The productive capability under present management of CFL in the Rocky Mountain States is reflected by the growth data. Gross growth of growing stock in 1970 totaled nearly 2 billion cubic feet, or about 35 cubic feet per acre (table 7). This is a conservative estimate because of an undetermined amount of suppression mortality.

With estimated mortality of about 11 cubic feet per acre, the average net annual growth of growing stock on the 56.6 million acres of CFL was about 24 cubic feet per acre in 1970 and for sawtimber, 90 board feet. The resulting 3.7 board foot-cubic foot ratio of growth carries the implication that much of the growth is occurring in the lower diameter classes, an outwardly good sign. However, closer examination reveals that much of the growth consists of small increments on large numbers of trees in small-diameter stands, many of which are stagnated (fig. 6). The value of such growth is open to serious question.

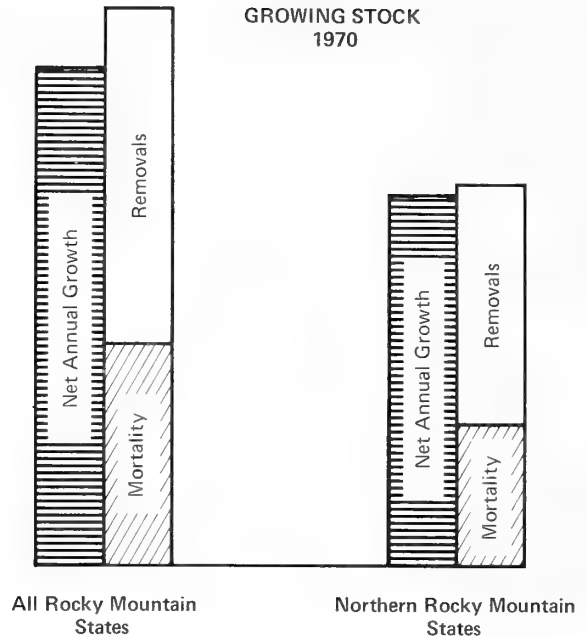
Nearly three-fourths of the net annual growing stock and sawtimber growth is in the Northern States (table 7 and 8). Putting it another way, roughly 60 percent of the area accounts for 75 percent of the net annual growth.

Table 7.--Gross and net annual growth of growing stock on commercial forest land in the Rocky Mountain States by region and owner group, 1970, in thousand cubic feet

Ownership	:North. Rocky Mt. States:		:South Rocky Mt. States:		: All Rocky Mt. States	
	: Gross	: Net	: Gross	: Net	: Gross	: Net
National Forest	823,667	543,868	365,809	238,774	1,189,476	782,642
Other public	172,713	133,054	67,696	33,922	240,409	166,976
Forest industry	126,307	103,799	3,422	1,949	129,729	105,748
Other private	288,380	238,247	125,882	67,529	414,262	305,776
All owners	1,411,067	1,018,968	562,809	342,174	1,973,876	1,361,142



Figure 6.--Although the growth per acre of this stagnated stand is at an acceptable level, the growth per stem is all but insignificant.



The growth picture in relation to total removals and mortality is not encouraging at the present time, particularly in the northern Rocky Mountain States. Removals (733.5 million cubic feet) plus mortality (392.1 million cubic feet) exceeded growth by some 106.6 million cubic feet in 1970. The situation suggests a real need for some "preventive medicine" that would substitute net growth for mortality. For example, early stocking control could transfer suppression mortality into the growth column.

In addition, the salvage of dead material deserves attention for several reasons: It could (1) help bring growth and removals into balance; (2) allow for increased wood supplies without reducing growing-stock inventory; (3) reduce costs of management activities such as fire protection and planting; and (4) help compensate for a dwindling land base for timber production.

Table 8.--Gross and net annual growth of sawtimber on commercial forest land in the Rocky Mountain States by region and owner group, 1970, in thousand board feet (International 1/4-inch rule)

Ownership	:North. Rocky Mt. States:		:South Rocky Mt. States:		: All Rocky Mt. States	
	: Gross	: Net	: Gross	: Net	: Gross	: Net
National Forest	3,265,264	2,039,484	1,566,281	1,066,079	4,831,545	3,105,563
Other public	629,492	473,846	217,102	93,053	846,594	566,899
Forest industry	543,462	443,900	9,876	4,431	553,338	448,331
Other private	967,046	797,254	357,022	162,516	1,324,068	959,770
All owners	5,405,264	3,754,484	2,150,281	1,326,079	7,555,545	5,080,563

# WHAT'S AHEAD

Projecting into the future is better than prophesying about it.

Prophecies are statements about the future made without data; it is their nature to be short, blunt, and usually devastating. Predictions, on the other hand, are made either with or without data and allow the brave and foolish to "stick their necks out."

Projections about future situations merely state what can be expected if certain well-founded assumptions hold true--but there is no guarantee that these assumptions will hold true.

Our look at the future is a projection, nothing more. It describes the probable consequences of continuing the current (1970) forestry posture in the Rocky Mountain States, assuming certain expected changes in the commercial timber base.

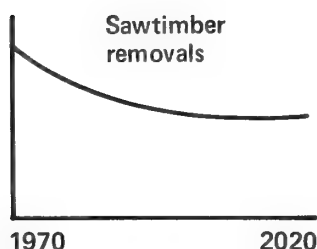
In 1970 about 70,000 acres were regenerated and 92,000 received timber stand improvement work. Other measures, such as commercial thinning and prescribed burning, are being increasingly used, but no good data are available on the extent and location of these activities.

Because we are unable to predict or prophesy the future levels of timber growing activity, protection, and utilization, our projections of future timber supplies are predicated on the assumption that forestry in the Rocky Mountains will continue about as it was in 1970. That is, regeneration and timber stand improvement efforts will remain about the same (70,000 and 92,000 acres, respectively), and the 1970 allowable cut of 775 million cubic feet will continue to be removed on an even-flow basis from the National Forests. For all other owners, we assumed that by the year 2000 removals will be brought into balance with growth.

In addition to assumptions about continuation of the 1970 level of management (regeneration and thinning), we made similar assumptions on the profiles of mortality and product removals. That is, we assumed the diameter distribution of trees cut or dying in the future would be about the same as in 1970.

# National Forests

There is a shortage of large trees...



and a lagging thinning program.

If cubic-foot removals are continued at the 1970 level of allowable cut and with current levels of management, sawtimber harvest will probably decrease 8 percent or more by the year 2000 (table 9). A possible exception is the Intermountain Region (Forest Service, Region 4), which has a relatively larger inventory of big trees. There simply aren't enough large trees to sustain the current sawtimber cut over the Rocky Mountain section far into the future.

Continuing removals at the 1970 rate would require cutting more heavily in the smaller diameter classes as old growth is liquidated. But even with heavier cutting in smaller diameter classes, a buildup in basal area of small trees with accompanying slow growth and significant suppression mortality appears inevitable without at least a fivefold increase in precommercial thinning (fig. 7). One of the most unattractive consequences of harvesting smaller diameter trees is lower quality saw logs and veneer logs.

There are some factors affecting future timber supplies and output of sawtimber from National Forests in the Rocky Mountains that are not apparent in the data.

Table 9.--Projected sawtimber removals on National Forest lands by Forest Service Regions<sup>1</sup>

Forest Service Region	1970 Removals, : million cu. ft. : (Projection base)	Projected sawtimber removals <sup>2</sup>				
		1970	1980	1990	2000	2020
----- Million board feet -----						
Northern	328	1,583.4	1,657.0	1,609.8	1,576.9	1,548.3
Rocky Mountain <sup>3</sup>	192	1,080.7	987.0	934.2	890.9	820.5
Intermountain <sup>4</sup>	143	668.5	772.8	756.8	739.2	708.8
Southwestern	112	641.5	568.0	530.2	493.5	438.3
Total	775	3,974.1	3,984.8	3,831.0	3,700.5	3,515.9

<sup>1</sup>Assuming 1970 level of management, removal of the allowable cubic-foot cut, no change in area of CFL, and 1970 relative prices and costs.

<sup>2</sup>Units are in International 1/4-inch rule. Sawtimber is defined to include trees 9 inches and larger d.b.h. (11 inches for hardwoods); this is not consistently used locally in defining allowable sawtimber cut.

<sup>3</sup>Allowable sawtimber removals in this region exceed actual cut.

<sup>4</sup>As explained in the text, because of data inadequacies, the projected increase in possible sawtimber removals for the Intermountain Region may not be realistic.

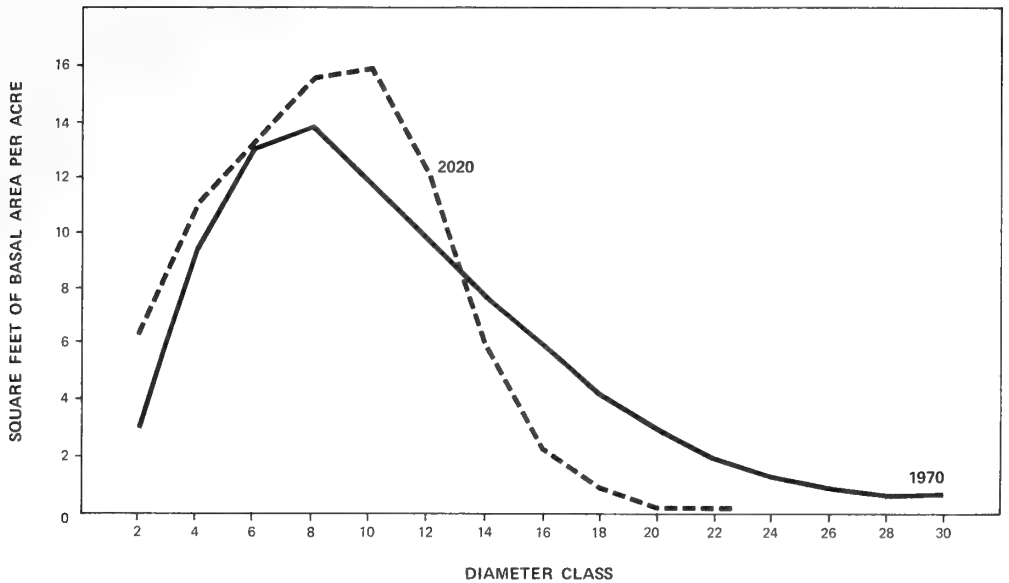


Figure 7.--Present (1970) and projected (2020) basal area per acre by diameter class. The projected stand table for 2020 assumes continuing management at the 1970 level.

Actual output will be affected by the speed with which sales can be accomplished...

and access to timber can be gained.

For example, since 1970, changes in utilization standards (reducing minimum diameter of sawtimber to 7 inches in some areas) have resulted in upward revisions of allowable sawtimber cut in the Northern Region (Forest Service, Region 1). However, actual removals have been some 200 million board feet below the allowable. One reason is that the requirement of the National Environmental Policy Act (NEPA) to provide impact statements for individual timber sales has slowed down contract letting. Another is current budgetary constraints that preclude the hiring of necessary manpower. The result is that timber sales in 1971 dropped to 1.1 billion board feet, a reduction of 500 million board feet from the previous year.

Still another factor that hinders meeting the allowable cut is the current moratorium on harvesting in roadless areas that contain much of the sawtimber volume. Also, in the Rocky Mountains the costs for roads and other facets of timber development are high. Depending on the difficulty of construction, the quality of the road, and the amount of timber serviced, costs could vary from \$10 to well over \$20 per thousand board feet. Not all such expenditures can be considered costs for timber extraction, however. Possible benefits from increased fire protection and enhanced recreation values should also be considered.

As of December 1972 there were some 11 million acres of CFL on nearly 27 million acres of roadless areas under

study for possible inclusion in the Wilderness System. Of that amount, however, only about 6 million acres were considered as favorably suited for Wilderness use; at stake is an annual allowable cut of about 154 million board feet of timber. This is a sizable amount, even though it represents less than 4 percent of the 1970 sawtimber removals.

However, any anguish over the prospect of such a "loss" should be tempered with the knowledge that on CFL in 1970, twice the amount of wood was left in the woods as logging residue, and about 12 times that much sawtimber (2.6 billion board feet) was lost to mortality.

In general, the projected trends in removals for National Forests under present management levels indicate:

1. The present level of sawtimber cut cannot be maintained, except perhaps in Region 4. Even there, however, because inventory data for some forests are nearly 10 years old and the Region has recently experienced serious insect problems and heavy timber losses, the mortality rates are probably understated and the projected increase in sawtimber removals may not materialize.

2. Continuing the current allowable cubic-foot cut will result in increasingly greater volumes coming from smaller size-classes.

3. In spite of increased removals of smaller material, there will be more volume in trees less than 12 inches d. b. h., unless there is a substantial increase in precommercial thinning. This will further aggravate the problems of overstocking and slow growth that already exist in many parts of the Rocky Mountains.

Sawtimber removals must drop...

harvested trees will be smaller...

yet the thinning problem will increase.

## **Other Owners**

Projections for other owner groups assumed a balance of growth and removals by the year 2000. On public lands this means an increase in removals, but with a larger portion coming from smaller trees.

Because removals from industrial lands have exceeded growth for at least two decades, these lands cannot be relied upon to provide much of the future sawlog output--the volumes simply are not there.

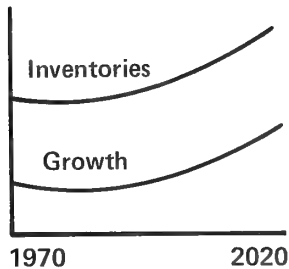
Other private lands could increase their contribution to a level that would equal growth, but considering the apparent reluctance of these owners to cut in the past, future prices will likely influence cutting rates.

Other owners can provide about one-third of the cubic-foot supply that will be available by 2000.



## **In Total**

Sawtimber removals will be lower and trees cut will be smaller, although cubic-foot inventories will increase.



National Forests will provide most of the timber, but administrative requirements may slow the pace at which output can be realized.

The net effect of maintaining the 1970 level of removals on National Forests and balancing removals and growth on other lands will be a gradual increase in growing-stock inventory. This will be due to increased growth on National Forests and removals below the expected net growth rate.

Continuing the level of management possible with current budgets would provide about 1.4 billion cubic feet (about 5.3 billion board feet of sawtimber) annually. However, maintaining that level of product removals would cause a reduction in sawtimber harvest because of the necessity of cutting smaller trees. In addition, stacking up basal area in smaller diameter classes will only add to already large areas of stagnated, low- or no-growth stands found throughout the Rocky Mountains.

Heavy reliance on National Forests for sawtimber supplies could be an important factor in timber output in the Rocky Mountains in the near future. Legislative requirements impose limitations on the speed with which sales can be accomplished under current manpower and funding. Also, the proximity of harvestable timber to markets may have some influence on sales at current prices. Indications are that, since 1970, sales and removals have dropped substantially in some Regions. Therefore, current and prospective financing for sale administration and road development on National Forests may be a key element in interpreting the timber supply outlook.

## **Opportunities for Increasing Timber Supplies**

Land use, utilization, and management activities...

Three basic factors will influence future timber supplies in the Rocky Mountains: (1) land-use policies and the effectiveness of coordinated programs for joint resource use; (2) technological advances in harvesting and utilization; and (3) the extent to which management activities (including protection and harvesting) can be and are applied. Adequate manpower, money, and ecologically and esthetically acceptable management practices are fundamental to successful timber-growing programs.

still hold the key to future timber supplies.

There is nothing particularly new about the preceding statements concerning timber supply. However, some of the implications in these statements are new, particularly

those regarding the influence the public holds in relation to land-use policies, and timber management and harvesting activities.

Land-use policies reflecting public goals will largely dictate the size and character of the timber-growing base, simply because three-fourths of the CFL in the Rocky Mountains is publicly owned. During the past few years the amount of land that could and should be included in the timber base for purposes of estimating allowable cut has received much judicial, emotional, and scientific attention. At present, there is no reason to expect the area of forest land suitable and available for timber production will be any greater than 47.5 million acres after 1980. Nor are there many reasons to think it will be less than that. Given this area to rely on, the timber supply will depend on what is done with that land.

The public's influence on timber supply does not end with land-use policies and the size of the timber-growing base, however. Public disagreement with the nature or consequences of timber management activities can effect delays and inefficiencies or even prevent getting the job done (fig. 8, 9).



Figure 8.--Some harvesting operations, such as this operation invite public attention.

Figure 9.--Some  
others don't.



For example, there are situations in which clearcutting is the most reasonable approach to harvest and regeneration without inordinately large dollar investments. However, the public's notable lack of enthusiasm for this practice can create problems for the timber manager. In some situations, rather than clearcut and regenerate naturally, a less severe harvesting scheme can be used and then seedlings planted. But the cost for this kind of operation is higher.

Getting nonstocked  
land into production  
would increase  
supplies, but right  
now...

On the other hand, a stand heavily infected with mistletoe cannot be replaced by a disease-free one unless the old stand is clearcut, the slash and debris burned, and the area planted.

At this point the size of the timber base is probably not as important as whether the land is in productive condition. In 1970 there were about 2.7 million acres of nonstocked productive land in the Rocky Mountains. If the lands were in production at even the present growth

rate of 24 cubic feet per acre per year, timber supplies would theoretically be increased by some 55 million cubic feet annually.

land is being cut faster than it can be regenerated.

Are the nonstocked areas awaiting regeneration likely to be back in production very soon? Probably not. The 2.7 million acres represent the backlog as of 1970. To generate the present level of roundwood output from the forest, about 247,000 acres are cut over annually. The present rate of regeneration of nonstocked land, including that cut over in the recent past, is about 82,000 acres. The planting and seeding efforts account for nearly 70,000 acres, and only about 12,000 acres are successfully regenerated naturally.

A sixfold increase in regeneration activities is needed.

If the current trend continues, the 2.7 million acres will blossom into more than 4 million acres of nonstocked land by 1980. To prevent this kind of galloping desolation would take a regeneration program about six times the magnitude of the 1970 program. Such an effort would, before 1980, eliminate the backlog and help assure more prompt regeneration of areas yet to be cut.

There are four basic ways to increase timber supplies...

With a fixed area of productive forest land, there are only a few ways in which output from that land can be increased over a given period of time. First, the rotation can be shortened by reducing the regeneration period. Second, early stocking control and other measures can shorten the precommercial growing period. Third, losses from fire, insects, and diseases can be decreased. Fourth, better utilization at the mills and more careful harvesting operations in the woods can reduce waste.

Shorten the rotation, shorten precommercial growing period, reduce losses, and improve utilization.

In terms of shortening the rotation, regeneration cycles are important and have been discussed somewhat already. Assuring that cutover areas are regenerated in 5 years or less could help considerably. Precommercial thinnings are lagging and an effort even five times as great as the current one probably would not be adequate. Increases in commercial thinnings are possible but there are nagging problems of stand accessibility, proximity to markets, and merchantability.

Insect, disease, and fire losses, if reduced, could substantially increase available supplies. The potential size of such increases has already been indicated by current loss figures.

It must be remembered that activities such as regeneration, thinning, and insect and disease control are more relevant to long-run timber supplies than to short-run supplies. The so-called "allowable-cut effect" can make it

possible to increase removals as soon as cultural treatments are initiated. Such increases could only be as large as the expected increase in growth per year resulting from the treatments. However, short-run capture of the expected growth increase requires a sufficient volume of wood in large-diameter trees. Without a large quantity of wood being "stored on the stump," there is no way to increase removals without cutting into growing-stock inventory. Thus, Rocky Mountain States, being without large volumes of big sawtimber trees, cannot capture the full "allowable-cut effect" to increase short-run timber supplies, even if massive investments in timber culture activities are made.

The best opportunity for increasing timber supply in the short run is to increase the level of utilization. Better harvesting methods could capture more of the material presently left unused or destroyed in the woods. New technology could make more material available for harvest, and more of the wood harvested convertible to usable products.

Readers expecting some magical numbers of probable or even possible future timber supplies from the Rocky Mountain States are due for a disappointment. Whatever sustainable timber supply level can be achieved in the future is obscured by a number of "ifs."

Future supplies hinge on several definable but unpredictable factors, such as:

1. How the public views and expresses its goals for publicly owned forest land.
2. How Congress interprets those goals, and reacts to provide both dollars and manpower.
3. How managers interpret the same goals and plan for their accomplishment.
4. How effectively the funds provided by Congress are used for timber management activities and in meeting environmental goals.
5. How private owners view their productive land and the incentives they have for contributing more to the timber supply.

Once the smoke has cleared on the land-use issue and planning is underway to get the most out of the forest with the money provided, the effective use of money will depend upon how well alternative projects are evaluated.

To design a good program for increasing timber supply within the constraints of NEPA and multiple use, management requires good planning information.

The need to evaluate alternative programs for timber output in relation to land-use policy is well recognized. However, the kinds of resource inventories required to provide appropriate information and the high cost of obtaining and evaluating that information are not so well recognized. Present inventories do not deal adequately with the question of availability of forest land for timber use, which is basic to realistic timber supply appraisals. Nor do these inventories provide the kind of data necessary to make meaningful evaluations of the consequences of alternative resource management programs.

This is true for all forest resources, not just timber. One of the key issues in forest land management is being able to demonstrate how manipulating one resource affects the others. For example, will attempts to produce more wood on an area result in more, less, or the same amount of forage? Will such attempts degrade or enhance water quality? Answering such questions requires resource data unlike that which has been gathered in the past.

It is a bit presumptuous to get excited about the possible consequences of certain programs and policies if the consequences are estimated from some general data that were not intended to be used for such purposes. About the best that can be done is to define the general direction the present program is heading.

To increase timber supplies, forest land managers, the public, and Congress will have to become more serious about it.

If money, manpower, and technology are available and used effectively, chances are good that future timber supplies can be increased in the Rocky Mountain States in spite of the reduction in the size of the timber base. At the same time, the value of nontimber resources can be greatly enhanced. But it is obvious that more thoughtful management effort will be needed to meet these goals, as well as a greater commitment on the part of the public and the Congress.

# **APPENDIX**

## **Glossary**

### **Forest Survey Tables 10–55**

# Glossary

## Land Use Classes

### Forest land

Land at least 16.7 percent stocked by forest trees of any size, or formerly having had such tree cover, and not currently developed for nonforest use. (Note: Stocking is measured by comparison of basal area and/or number of trees, by age or size and spacing with specified standards. The minimum area for classification of forest land is 1 acre. Roadside, streamside, and shelterbelt strips of timber must have a crown width of at least 120 feet to qualify as forest land. Unimproved roads and trails, streams, or other bodies of water or clearings in forest areas shall be classed as forest if less than 120 feet in width.) Also see definitions for land area, commercial forest land, stocking, unproductive forest land, and water.

### Commercial forest land

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

### Deferred forest land

National Forest lands that meet productivity standards for commercial forest, but are under study for possible inclusion in the Wilderness System.

### Unregulated forest land

Portions of commercial forest land and the noncommercial forest land which will not be utilized for sustained timber production.

### Noncommercial forest land

(1) Unproductive forest land incapable of yielding crops of industrial wood because of adverse site conditions, and (2) productive-reserved forest land.

### Productive-reserved forest land

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



Unproductive forest land

Forest land incapable of producing 20 cubic feet per acre of industrial wood under natural conditions, because of adverse site conditions. (Note: Adverse conditions include sterile soils, dry climate, poor drainage, high elevation, steepness, and rockiness.)

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 areas used for crops, 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 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.)

Ownership Classes

Ownership

Property owned by one owner, regardless of the number of parcels in a specified area.

National Forest land

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

Bureau of Land Management lands

Federal land administered by the Bureau of Land Management.

Indian lands

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

Miscellaneous Federal lands

Federal lands other than National Forest lands, lands administered by the Bureau of Land Management, and Indian lands.

Other Federal lands

Federal lands other than National Forest lands, including lands administered by the Bureau of Land Management, Bureau of Indian Affairs, and other Federal agencies.

State, County, and municipal lands

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

<u>Other public</u>	All federal lands other than National Forest lands, and State, county, and municipal lands.
<u>Farmer-owned lands</u>	Lands owned by farm operators. (Note: These exclude land leased by farm operators from nonfarm owners, such as railroad companies and States.)
<u>Forest industry lands</u>	Lands owned by companies or individuals operating wood-using plants.
	<u>Forest Type and Tree Species</u>
<u>Forest types</u>	A classification of forest land based upon the species forming a plurality of live-tree stocking. (Note: Types shall be determined on the basis of species plurality of all live trees that contribute to stocking; that is, up to a maximum of 16 percent at each plot point based upon a 10-point location.)
<u>Major forest type</u>	A grouping of local forest types into about 10 eastern and 10 western groups. The groupings are based upon similar and associated species.
<u>Commercial species</u>	Tree species presently or prospectively suitable for industrial wood products. (Note: Excludes species of typically small size, poor form, or inferior quality, such as hawthorn and sumac, scrub willow and alder.)
<u>Noncommercial species</u>	Tree species of typically small size, poor form, or inferior quality which normally do not develop into trees suitable for industrial wood products.
<u>Softwoods</u>	Coniferous trees, usually evergreen having needles or scalelike leaves.
<u>Hardwoods</u>	Dicotyledonous trees, usually broad-leaved and deciduous.
	<u>Class of Timber</u>
<u>Growing-stock trees</u>	Live trees of commercial species meeting specified standards of quality or vigor; excludes cull trees.
<u>Rough trees</u>	(1) Live trees of commercial species that do not contain at least one 12-foot saw log or two noncontiguous saw logs, each 8 feet long or longer--now or prospectively--and/or do not meet Regional specifications for freedom from defect primarily because of roughness or poor form; (2) all live trees of noncommercial species.

<u>Rotten trees</u>	Live trees of commercial species that do not contain at least one 12-foot saw log, or two noncontiguous saw logs, each 8 feet long or longer--now or prospectively--and/or do not meet Regional specifications for freedom from defect primarily because of rot; that is, when more than 50 percent of the cull volume in a tree is rotten.
<u>Cull</u>	Portions of a tree that are unusable for industrial wood products because of rot, form, or other defect.
<u>Salvable dead trees</u>	Standing or down dead trees that are considered merchantable by Regional standards.
<u>Mortality trees</u>	Trees formerly growing stock dying from natural causes during a specified period, usually annually.
<u>Diameters and Size Classes</u>	
<u>Diameter classes</u>	A classification of trees based on diameter outside bark, measured at breast height (4-1/2 feet above the ground). (Note: d. b. h. is the common abbreviation for diameter at breast height. Two-inch diameter classes are commonly used in Forest Survey, with the even inch the approximate midpoint for a class. For example, the 6-inch class includes trees 5.0 through 6.9 inches d. b. h., inclusive.)
<u>Tree size class</u>	A classification of trees based on diameter at breast height, including sawtimber trees, poletimber trees, and saplings and seedlings.
<u>Seedlings</u>	Live trees less than 1.0 inch in d. b. h.
<u>Saplings</u>	Trees 1.0 to 5.0 inches in d. b. h.
<u>Poletimber trees</u>	Trees at least 5.0 inches in d. b. h., but smaller than sawtimber size.
<u>Sawtimber trees</u>	Trees exceeding poletimber size. In the Intermountain States, the minimum d. b. h. for softwood sawtimber is 9.0 inches, and 11.0 inches for hardwoods.
<u>Volume</u>	
<u>Net volume</u>	Gross volume less deductions for rot, sweep, or other defect affecting use for timber products.

Growing-stock  
volume

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

International  
1/4-inch rule

The standard board-foot log rule adopted nationally by the Forest Service for the presentation of Forest Survey volume statistics.

Growth and Mortality

Gross growth

Annual increase in net volume of trees in the absence of cutting and mortality. Includes ingrowth and accretion.

Net annual  
growth

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

Ingrowth

The number or net volume of trees that grow large enough during a specified year to qualify as saplings, poletimber, or sawtimber. The measurement is at the size of entry into the size class.

Accretion

Annual increase in net volume of trees in a size class, and the increase in net volume of trees after reaching a measured size class during the year.

Mortality

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

Timber Cut

Allowable cut

The volume of timber that could be cut on commercial forest land during a given period under specified management plans aimed at sustained production of timber products.

Timber re-  
movals

The net volume of growing stock trees removed from the inventory by harvesting, cultural operations, such as timber-stand improvement, land clearing, or changes in land use.

Timber products

Roundwood products and plant byproducts. (Note: Timber products output includes roundwood products cut from growing stock on commercial forest land, and from other sources, such as cull tree, salvable dead trees, limbs, and saplings, or from trees on noncommercial and nonforest lands, and from plant byproducts.)

Roundwood products

Logs, bolts, or other round sections cut from trees for industrial or consumer uses. (Note: Includes saw logs, veneer logs and bolts, cooperage logs and bolts, pulpwood, fuelwood, piling, poles, hewn ties, mine timbers, and various other round, split, or hewn products.)

Plant residues

Wood materials from manufacturing plants not utilized for some product. (Note: Includes slabs, edgings, trimmings, miscuts, sawdust, shavings, veneer cores and clippings, and pulp screenings.)

Logging residues

The unused portions of trees cut or killed by logging.

Other removals

The net volume of growing-stock trees removed from the inventory by cultural operations, such as timber-stand improvements, land clearing, and changes in land use.

Rotation

The period of years between establishment of a stand of timber and the time when it is considered ready for cutting and regeneration.

Quality

Industrial wood

All roundwood products, except fuelwood.

Site

Site class

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

Site classifications are based upon the mean annual growth of growing stock (not including thinnings) attainable in fully stocked stands at culmination of mean annual growth. Height-age relationships are usually used as indicators of the specified volume-site class.

Stand Size Classes

Stand-size class

A classification of forest land based on the size class of growing stock trees on the area, that is, sawtimber, poletimber, or seedlings and saplings.

(Note: Only those trees that contribute to no more than 16 percent stocking at a plot point, based upon a 10-point location, will be considered in determining stand-size class.)

Sawtimber stands

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

Poletimber stands

b. Stands at least 16.7 percent stocked with growing stock trees in which half or more of this stocking is in poletimber and/or sawtimber trees, and with poletimber stocking exceeding that of sawtimber.

Sapling-seeding stands

c. Stands at least 16.7 percent stocked with growing stock trees in which more than half of the stocking is saplings and/or seedlings.

Nonstocked land

d. Commercial forest land less than 16.7 percent stocked with growing-stock trees.

# Forest Survey Tables 10-55

Table 10.--LAND AREAS IN THE ROCKY MOUNTAIN STATES, BY LAND CLASS, 1970

State	Total		Commercial forest land area				Noncommercial forest land area				Nonforest land area	
	land area	forest land area	Total	Commercial	Deferred	Unregulated	Total	Unproductive	Productive	Unproductive	land area	Nonforest area
								reserved	reserved			
----- Thousand acres -----												
<b>North. Rocky Mt. States:</b>												
North Idaho	12,555.6	10,189.0	8,449.5	8,172.2	210.2	67.1	1,739.5	369.5	863.1	506.9	2,366.6	
South Idaho	40,357.5	11,449.2	7,478.5	6,024.7	525.4	928.4	3,970.7	275.1	973.8	2,721.8	28,908.3	
Western Montana	15,784.7	12,604.6	10,097.7	9,929.2	100.0	68.5	2,506.9	763.3	894.5	849.1	3,180.1	
Eastern Montana	77,390.5	10,173.0	6,526.8	5,921.4	541.1	64.3	3,646.2	424.1	495.6	2,726.5	67,217.5	
Western South Dakota	6,878.8	1,399.4	1,310.4	1,253.8	--	56.6	89.0	4.7	15.7	68.6	5,479.4	
Wyoming	62,211.3	10,085.1	4,304.2	3,255.8	121.9	926.5	5,780.9	505.8	2,711.9	2,563.2	52,126.2	
<b>Total</b>	<b>215,178.4</b>	<b>55,900.3</b>	<b>38,167.1</b>	<b>34,557.1</b>	<b>1,498.6</b>	<b>2,111.4</b>	<b>17,733.2</b>	<b>2,342.5</b>	<b>5,954.6</b>	<b>9,436.1</b>	<b>159,278.1</b>	
<b>South. Rocky Mt. States:</b>												
Arizona	72,587.3	18,583.7	3,700.2	3,636.8	10.3	53.1	14,883.5	875.2	546.8	13,461.5	54,003.6	
Colorado	66,412.1	22,534.7	12,286.1	9,039.5	702.4	2,544.2	10,248.6	455.9	537.5	9,255.2	43,877.4	
Nevada	70,322.8	7,660.6	128.6	127.6	--	1.0	7,532.0	66.6	5.9	7,459.5	62,662.2	
New Mexico	77,703.2	18,313.7	5,785.0	5,605.2	48.6	131.2	12,528.7	513.1	584.5	11,431.1	59,389.5	
Utah	52,540.7	15,288.1	3,846.6	3,618.8	22.0	205.8	11,441.5	65.1	232.1	11,144.3	37,252.6	
<b>Total</b>	<b>339,566.1</b>	<b>82,380.8</b>	<b>25,746.5</b>	<b>22,027.9</b>	<b>783.3</b>	<b>2,935.3</b>	<b>56,634.3</b>	<b>1,975.9</b>	<b>1,906.8</b>	<b>52,751.6</b>	<b>257,185.3</b>	
<b>Total all Rocky Mountain States</b>	<b>554,744.5</b>	<b>138,281.1</b>	<b>63,913.6</b>	<b>56,585.0</b>	<b>2,281.9</b>	<b>5,046.7</b>	<b>74,367.5</b>	<b>4,318.4</b>	<b>7,861.4</b>	<b>62,187.7</b>	<b>416,463.4</b>	

<sup>1</sup>From U.S. Bureau of the Census, Land and Water Area of the United States, 1970.

Table 11.--AREA OF COMMERCIAL FOREST LAND IN THE NORTHERN ROCKY MOUNTAIN STATES BY OWNERSHIP CLASS, 1970

Ownership class	North Idaho	South Idaho	W. Montana	E. Montana	Western S. Dakota	Wyoming	Total
----- <i>Thousand acres</i> -----							
National Forest	4,686.5	5,049.3	6,175.0	3,424.7	901.0	1,772.5	22,009.0
BLM	178.8	322.4	155.4	322.6	5.6	393.8	1,378.6
Indian	42.8	8.7	371.2	249.0	--	123.8	795.5
Misc. federal	7.7	--	2.7	50.4	4.0	--	64.8
State	651.3	209.7	437.2	92.3	62.2	110.6	1,563.3
County and municipal	18.9	--	2.3	2.4	--	--	23.6
Forest industry	777.6	169.1	1,041.0	14.4	17.2	54.3	2,073.6
Farmer	631.0	146.1	468.7	1,483.7	222.8	619.8	3,572.1
Misc. private	1,177.6	119.4	1,275.7	281.9	41.0	181.0	3,076.6
All ownerships	8,172.2	6,024.7	9,929.2	5,921.4	1,253.8	3,255.8	34,557.1

Table 12.--AREA OF COMMERCIAL FOREST LAND IN THE SOUTHERN ROCKY MOUNTAIN STATES BY OWNERSHIP CLASS, 1970

Ownership class	Arizona	Colorado	Nevada	New Mexico	Utah	Total
----- <i>Thousand acres</i> -----						
National Forest	2,294.7	5,166.6	54.4	2,808.0	2,407.8	12,731.5
BLM	2.0	413.1	--	76.4	154.0	645.5
Indian	1,140.2	102.8	--	613.7	157.2	2,013.9
Miscellaneous federal	--	4.6	--	8.9	--	13.5
State	32.1	188.9	3.4	171.1	239.0	634.5
County and municipal	1.5	45.1	1.2	--	--	47.8
Forest industry	--	14.7	8.3	137.1	--	160.1
Farmer	81.8	2,635.9	1.8	1,549.8	537.8	4,807.1
Miscellaneous private	84.5	467.8	58.5	240.2	123.0	974.0
All ownerships	3,636.8	9,039.5	127.6	5,605.2	3,618.8	22,027.9



Table 13. -- AREA OF COMMERCIAL FOREST LAND IN THE ROCKY MOUNTAIN STATES  
BY STAND-VOLUME CLASS AND OWNER GROUP, 1970

State and stand volume class <sup>1</sup>	owner groups:			National Forest:			Other public:			Forest industry:			Other private:		
	All	Forest	Other	Forest	Other	Public	Forest	Other	Public	Forest	Other	Forest	Other	Private	
----- Thousand acres -----															
<b>North. Rocky Mt. States:</b>															
<b>North Idaho:</b>															
Less than 1,500 bd. ft.	1,766.5	933.4	172.6	99.0	561.5										
1,500 to 4,999 bd. ft.	1,171.8	649.6	110.3	76.4	335.5										
More than 5,000 bd. ft.	5,223.9	3,103.5	616.6	602.2	911.6										
All classes	8,172.2	4,686.5	899.5	777.6	1,808.6										
<b>South Idaho:</b>															
Less than 1,500 bd. ft.	826.4	698.0	77.2	14.7	36.5										
1,500 to 4,999 bd. ft.	1,290.5	1,002.4	159.5	48.0	80.6										
More than 5,000 bd. ft.	3,907.8	3,348.9	304.1	106.4	148.4										
All classes	6,024.7	5,049.3	540.8	169.1	265.5										
<b>Western Montana:</b>															
Less than 1,500 bd. ft.	1,924.7	1,433.4	121.2	84.3	285.8										
1,500 to 4,999 bd. ft.	2,821.7	1,395.2	400.3	291.4	734.8										
More than 5,000 bd. ft.	5,182.8	3,346.4	447.3	665.3	723.8										
All classes	9,929.2	6,175.0	968.8	1,041.0	1,744.4										
<b>Eastern Montana:</b>															
Less than 1,500 bd. ft.	1,825.5	977.5	244.2	8.1	595.7										
1,500 to 4,999 bd. ft.	1,946.2	1,014.8	268.8	4.7	657.9										
More than 5,000 bd. ft.	2,149.7	1,432.4	203.7	1.6	512.0										
All classes	5,921.4	3,424.7	716.7	14.4	1,765.6										
<b>Western South Dakota:</b>															
Less than 1,500 bd. ft.	544.2	330.3	32.1	10.8	171.0										
1,500 to 4,999 bd. ft.	651.4	512.5	39.7	6.4	92.8										
More than 5,000 bd. ft.	58.2	58.2	--	--	--										
All classes	1,253.8	901.0	71.8	17.2	263.8										
<b>Wyoming:</b>															
Less than 1,500 bd. ft.	934.2	451.2	215.0	15.5	252.5										
1,500 to 4,999 bd. ft.	1,431.7	465.9	407.3	31.0	527.5										
More than 5,000 bd. ft.	889.9	855.4	5.9	7.8	20.8										
All classes	3,255.8	1,772.5	628.2	54.3	800.8										
<b>Total Northern Rocky Mountain States:</b>															
Less than 1,500 bd. ft.	7,821.5	4,823.8	862.3	232.4	1,903.0										
1,500 to 4,999 bd. ft.	9,313.3	5,040.4	1,385.9	457.9	2,429.1										
More than 5,000 bd. ft.	17,422.3	12,144.8	1,577.6	1,383.3	2,316.6										
All classes	34,557.1	22,009.0	3,825.8	2,073.6	6,648.7										
<b>International 1/4-inch rule.</b>															
<b>South. Rocky Mt. States:</b>															
<b>Arizona:</b>															
Less than 1,500 bd. ft.	467.8	409.7	11.6	--	46.5										
1,500 to 4,999 bd. ft.	1,133.7	831.0	182.9	--	119.8										
More than 5,000 bd. ft.	2,035.3	1,054.0	981.3	--	--										
All classes	3,636.8	2,294.7	1,175.8	--	166.3										
<b>Colorado:</b>															
Less than 1,500 bd. ft.	3,897.3	1,864.2	296.0	8.4	1,728.7										
1,500 to 4,999 bd. ft.	1,537.1	1,076.7	96.6	2.4	361.4										
More than 5,000 bd. ft.	3,605.1	2,225.7	361.9	3.9	1,013.6										
All classes	9,039.5	5,166.6	754.5	14.7	3,103.7										
<b>Nevada:</b>															
Less than 1,500 bd. ft.	14.1	7.8	0.1	1.3	4.9										
1,500 to 4,999 bd. ft.	25.0	12.3	0.8	1.7	10.2										
More than 5,000 bd. ft.	88.5	34.3	3.7	5.3	45.2										
All classes	127.6	54.4	4.6	8.3	60.3										
<b>New Mexico:</b>															
Less than 1,500 bd. ft.	1,042.8	644.7	133.7	17.8	246.6										
1,500 to 4,999 bd. ft.	3,262.3	1,202.8	509.5	113.8	1,436.2										
More than 5,000 bd. ft.	1,300.1	960.5	226.9	5.5	107.2										
All classes	5,605.2	2,808.0	870.1	137.1	1,790.0										
<b>Utah:</b>															
Less than 1,500 bd. ft.	1,053.3	611.7	172.4	--	269.2										
1,500 to 4,999 bd. ft.	957.5	726.5	83.0	--	148.0										
More than 5,000 bd. ft.	1,608.0	1,069.6	294.8	--	243.6										
All classes	3,618.8	2,407.8	550.2	--	660.8										
<b>Total Southern Rocky Mountain States:</b>															
Less than 1,500 bd. ft.	6,475.3	3,538.1	613.8	27.5	2,295.9										
1,500 to 4,999 bd. ft.	6,915.6	3,849.3	872.8	117.9	2,075.6										
More than 5,000 bd. ft.	8,637.0	5,344.1	1,868.6	14.7	1,409.6										
All classes	22,027.9	12,731.5	3,355.2	160.1	5,781.1										
<b>Total all Rocky Mount. States:</b>															
Less than 1,500 bd. ft.	14,296.8	8,361.9	1,476.1	259.9	4,198.9										
1,500 to 4,999 bd. ft.	16,228.9	8,889.7	2,258.7	575.8	4,504.7										
More than 5,000 bd. ft.	26,059.3	17,488.9	3,446.2	1,398.0	3,726.2										
All classes	56,585.0	34,740.5	7,181.0	2,233.7	12,429.8										

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

Table 14. --AREA OF COMMERCIAL FOREST LAND IN NORTH IDAHO BY OWNER GROUP, FOREST TYPE, STAND-SIZE CLASS, AND SITE CLASS, 1970

Forest type and stand-size class	National Forest						Other public					
	Site class					Total	Site class					Total
	165+	120-164	85-119	50-84	20-49		165+	120-164	85-119	50-84	20-49	
----- Thousand acres -----												
<b>Douglas-fir:</b>												
Sawtimber	105.9	203.6	170.4	61.0	25.2	566.1	6.9	23.4	54.7	79.8	30.8	195.6
Poletimber	38.1	72.7	66.6	21.3	7.9	206.6	--	--	13.0	6.0	--	19.0
Sapling and seedling	20.3	58.5	68.6	17.9	19.4	184.7	--	--	24.2	6.0	9.9	36.4
Nonstocked	19.1	42.5	51.4	19.7	11.9	144.6	--	--	--	--	2.0	9.0
Total	183.4	377.3	357.0	119.9	64.4	1,102.0	6.9	23.4	91.9	91.8	46.0	260.0
<b>Hemlock:</b>												
Sawtimber	5.6	29.4	31.6	43.8	48.9	159.3	--	--	27.9	--	--	27.9
Poletimber	4.6	2.7	7.8	4.6	5.7	25.4	--	--	--	--	6.0	6.0
Sapling and seedling	.1	.4	.3	6.7	9.0	16.5	--	--	--	6.2	--	6.2
Nonstocked	.5	1.6	1.7	4.9	4.9	13.6	--	--	--	--	6.5	6.5
Total	10.8	34.1	41.4	60.0	68.5	214.8	--	--	27.9	6.2	12.5	46.6
<b>Ponderosa pine:</b>												
Sawtimber	32.1	58.2	71.8	16.3	13.8	192.2	--	8.5	27.2	27.5	13.1	76.3
Poletimber	8.2	13.2	4.3	1.3	.4	27.4	--	--	10.1	--	--	10.1
Sapling and seedling	.8	1.8	1.1	.3	.2	4.2	--	--	--	6.9	--	6.9
Nonstocked	1.7	3.5	3.9	1.0	.9	11.0	--	--	--	--	1.9	1.9
Total	42.8	76.7	81.1	18.9	15.3	234.8	--	8.5	37.3	34.4	15.0	95.2
<b>White pine:</b>												
Sawtimber	96.3	112.5	47.0	17.2	1.6	274.6	--	27.7	28.5	--	--	56.2
Poletimber	39.8	31.0	15.7	8.8	--	95.3	--	--	--	--	--	--
Sapling and seedling	15.5	25.4	12.5	4.6	--	58.0	--	13.0	--	--	--	13.0
Nonstocked	15.7	11.3	8.8	4.4	.5	40.7	--	--	--	--	--	--
Total	167.3	180.2	84.0	35.0	2.1	468.6	--	40.7	28.5	--	--	69.2
<b>Lodgepole pine:</b>												
Sawtimber	19.3	39.1	31.2	16.3	9.8	115.7	--	--	--	--	--	--
Poletimber	42.4	109.8	148.4	87.9	49.9	438.4	--	--	--	6.2	6.6	12.8
Sapling and seedling	31.8	66.7	82.8	45.7	24.6	251.6	--	--	--	--	3.7	3.7
Nonstocked	4.9	15.9	21.5	20.0	14.7	77.0	--	--	--	--	--	--
Total	98.4	231.5	283.9	169.9	99.0	882.7	--	--	--	6.2	10.3	16.5
<b>Larch:</b>												
Sawtimber	55.0	104.8	66.4	21.1	3.8	251.1	--	12.4	--	--	--	12.4
Poletimber	52.7	61.1	37.7	14.7	1.1	167.3	--	--	--	--	13.0	13.0
Sapling and seedling	22.5	55.9	21.6	1.8	.1	101.9	--	--	--	--	--	--
Nonstocked	11.9	14.1	10.6	2.2	--	38.8	--	--	--	--	--	--
Total	142.1	235.9	136.3	39.8	5.0	559.1	--	12.4	--	--	13.0	25.4
<b>True firs:</b>												
Sawtimber	60.1	107.1	157.7	109.9	49.0	483.8	--	43.7	115.5	83.7	6.2	249.1
Poletimber	9.4	16.2	36.4	24.8	9.0	95.8	--	--	--	--	--	--
Sapling and seedling	5.0	17.0	45.1	19.1	7.5	93.7	--	10.7	9.7	8.7	--	29.1
Nonstocked	5.1	12.9	17.6	9.7	3.9	49.2	--	--	--	--	--	--
Total	79.6	153.2	256.8	163.5	69.4	722.5	--	54.4	125.2	92.4	6.2	278.2
<b>Fir-spruce</b>												
Sawtimber	18.9	34.9	99.9	53.7	12.7	220.1	--	6.0	--	--	--	6.0
Poletimber	5.4	15.2	15.7	6.3	3.7	46.3	--	--	--	--	--	--
Sapling and seedling	4.9	24.0	40.8	17.4	8.5	95.6	--	--	--	--	--	--
Nonstocked	2.8	9.3	16.6	7.5	5.2	41.4	--	--	--	--	--	--
Total	32.0	83.4	173.0	84.9	30.1	403.4	--	6.0	--	--	--	6.0
<b>Other softwoods:<sup>1</sup></b>												
Sawtimber	5.3	28.2	20.7	6.3	5.3	65.8	--	9.1	34.9	27.4	9.1	80.5
Poletimber	2.5	2.6	3.4	1.2	.9	10.6	--	--	--	7.7	--	7.7
Sapling and seedling	1.6	5.0	6.3	1.7	1.6	16.2	--	--	6.9	--	--	6.9
Nonstocked	.6	1.8	2.4	.6	.6	6.0	--	--	--	--	--	--
Total	10.0	37.6	32.8	9.8	8.4	98.6	--	9.1	41.8	35.1	9.1	95.1
<b>Aspen:</b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--
<b>Other hardwoods:<sup>2</sup></b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	7.3	--	7.3
Total	--	--	--	--	--	--	--	--	--	7.3	--	7.3
<b>All forest types:</b>												
Sawtimber	398.5	717.8	696.7	345.6	170.1	2,328.7	6.9	130.8	288.7	218.4	59.2	704.0
Poletimber	203.1	324.5	336.0	170.9	78.6	1,113.1	--	--	23.1	19.9	25.6	68.6
Sapling and seedling	102.5	254.7	279.1	115.2	70.9	822.4	--	23.7	40.8	27.8	9.9	102.2
Nonstocked	62.3	112.9	134.5	70.0	42.6	422.3	--	--	--	7.3	17.4	24.7
Total	766.4	1,409.9	1,446.3	701.7	362.2	4,686.5	6.9	154.5	352.6	273.4	112.1	899.5

<sup>1</sup>Principally western redcedar.  
<sup>2</sup>Principally birch and cottonwood.

Table 14 (con.)

Forest type and stand-size class	Forest industry						Other private					
	Site class					Total	Site class					Total
	165+	120-164	85-119	50-84	20-49		165+	120-164	85-119	50-84	20-49	
----- Thousand acres -----												
<b>Douglas-fir:</b>												
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
Poetimber	--	--	--	--	6.5	6.5	--	--	--	--	6.6	6.6
Sapling and seedling	--	--	7.7	14.2	--	21.9	--	--	15.0	48.9	6.9	70.8
Nonstocked	--	--	--	19.5	--	19.5	--	--	6.9	33.5	9.0	49.4
<b>Total</b>	<b>15.4</b>	<b>50.2</b>	<b>37.0</b>	<b>80.7</b>	<b>12.7</b>	<b>196.0</b>	<b>10.7</b>	<b>27.8</b>	<b>193.3</b>	<b>290.1</b>	<b>50.3</b>	<b>572.2</b>
<b>Hemlock:</b>												
Sawtimber	--	6.1	--	6.2	6.0	18.3	--	9.3	9.0	--	20.4	38.7
Poetimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	12.4	--	--	6.5	18.9
Nonstocked	--	--	--	--	--	--	--	9.0	--	--	--	9.0
<b>Total</b>	<b>--</b>	<b>6.1</b>	<b>--</b>	<b>6.2</b>	<b>6.0</b>	<b>18.3</b>	<b>--</b>	<b>30.7</b>	<b>9.0</b>	<b>--</b>	<b>26.9</b>	<b>66.6</b>
<b>Ponderosa pine:</b>												
Sawtimber	--	8.2	1.0	25.3	.9	35.4	--	7.3	68.4	139.0	43.0	257.7
Poetimber	--	--	--	--	--	--	--	10.8	--	--	--	10.8
Sapling and seedling	--	--	--	--	6.5	6.5	--	--	--	7.7	--	7.7
Nonstocked	--	--	--	--	--	--	--	--	6.9	31.5	29.7	68.1
<b>Total</b>	<b>--</b>	<b>8.2</b>	<b>1.0</b>	<b>25.3</b>	<b>7.4</b>	<b>41.9</b>	<b>--</b>	<b>18.1</b>	<b>75.3</b>	<b>178.2</b>	<b>72.7</b>	<b>344.3</b>
<b>White pine:</b>												
Sawtimber	--	30.7	9.8	9.8	--	50.3	--	7.6	13.1	--	--	20.7
Poetimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	9.0	--	9.0
Nonstocked	--	--	--	--	--	--	--	--	--	--	6.5	6.5
<b>Total</b>	<b>--</b>	<b>30.7</b>	<b>9.8</b>	<b>9.8</b>	<b>--</b>	<b>50.3</b>	<b>--</b>	<b>7.6</b>	<b>13.1</b>	<b>9.0</b>	<b>6.5</b>	<b>36.2</b>
<b>Lodgepole pine:</b>												
Sawtimber	--	6.0	--	--	--	6.0	--	--	6.2	24.7	--	30.9
Poetimber	--	--	--	--	--	--	6.2	--	12.2	33.4	12.9	64.7
Sapling and seedling	--	--	--	--	--	--	--	--	17.6	--	19.1	36.7
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>6.0</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>6.0</b>	<b>6.2</b>	<b>--</b>	<b>36.0</b>	<b>58.1</b>	<b>32.0</b>	<b>132.3</b>
<b>Larch:</b>												
Sawtimber	--	19.8	9.4	--	--	29.2	13.1	58.7	21.5	15.3	--	108.6
Poetimber	--	--	--	--	--	--	--	--	9.8	22.1	--	31.9
Sapling and seedling	--	--	--	--	--	--	--	--	8.4	16.5	--	24.9
Nonstocked	--	--	--	--	--	--	--	--	--	13.0	--	13.0
<b>Total</b>	<b>--</b>	<b>19.8</b>	<b>9.4</b>	<b>--</b>	<b>--</b>	<b>29.2</b>	<b>13.1</b>	<b>58.7</b>	<b>39.7</b>	<b>66.9</b>	<b>--</b>	<b>178.4</b>
<b>True firs:</b>												
Sawtimber	--	34.4	83.4	131.1	7.7	256.6	--	31.7	86.5	66.2	46.7	231.1
Poetimber	--	--	--	6.9	--	6.9	--	7.3	--	--	--	7.3
Sapling and seedling	--	9.9	25.3	7.7	--	42.9	--	--	--	25.8	10.3	36.1
Nonstocked	--	--	--	--	--	--	--	--	6.2	--	--	6.2
<b>Total</b>	<b>--</b>	<b>44.3</b>	<b>108.7</b>	<b>145.7</b>	<b>7.7</b>	<b>306.4</b>	<b>--</b>	<b>39.0</b>	<b>92.7</b>	<b>92.0</b>	<b>57.0</b>	<b>280.7</b>
<b>Fir-spruce:</b>												
Sawtimber	--	--	7.7	--	--	7.7	--	6.1	--	6.9	--	13.0
Poetimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	6.5	6.5
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>7.7</b>	<b>--</b>	<b>--</b>	<b>7.7</b>	<b>--</b>	<b>6.1</b>	<b>--</b>	<b>6.9</b>	<b>6.5</b>	<b>19.5</b>
<b>Other softwoods:</b>												
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
Poetimber	--	--	--	--	--	--	--	--	7.3	--	6.2	13.5
Sapling and seedling	--	--	--	7.7	--	7.7	--	6.2	7.3	--	--	13.5
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>15.3</b>	<b>6.2</b>	<b>28.5</b>	<b>42.7</b>	<b>22.9</b>	<b>115.6</b>	<b>6.2</b>	<b>21.2</b>	<b>46.9</b>	<b>38.5</b>	<b>14.9</b>	<b>127.7</b>
<b>Aspen:</b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poetimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	6.2	6.2
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>6.2</b>	<b>6.2</b>
<b>Other hardwoods:</b>												
Sawtimber	--	--	6.2	--	--	6.2	--	--	--	6.2	7.3	13.5
Poetimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	6.2	24.8	31.0
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>6.2</b>	<b>--</b>	<b>--</b>	<b>6.2</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>12.4</b>	<b>32.1</b>	<b>44.5</b>
<b>All forest types:</b>												
Sawtimber	30.7	161.6	175.3	254.4	43.7	665.7	30.0	163.5	408.4	504.5	153.9	1,260.3
Poetimber	--	--	--	6.9	6.5	13.4	6.2	18.1	29.3	55.5	25.7	134.8
Sapling and seedling	--	9.9	33.0	29.6	6.5	79.0	--	18.6	48.3	114.1	80.3	261.3
Nonstocked	--	--	--	19.5	--	19.5	--	9.0	20.0	78.0	45.2	152.2
<b>Total</b>	<b>30.7</b>	<b>171.5</b>	<b>208.3</b>	<b>310.4</b>	<b>56.7</b>	<b>777.6</b>	<b>36.2</b>	<b>209.2</b>	<b>506.0</b>	<b>752.1</b>	<b>305.1</b>	<b>1,808.6</b>

Table 15.--AREA OF COMMERCIAL FOREST LAND IN SOUTH IDAHO BY OWNER GROUP, FOREST TYPE, STAND-SIZE CLASS, AND SITE CLASS, 1970

Forest type and stand-size class	National Forest						Other public					
	Site class					Total	Site class					Total
	165+	120-164	85-119	50-84	20-49		165+	120-164	85-119	50-84	20-49	
----- Thousand acres -----												
<b>Douglas-fir:</b>												
Sawtimber	7.5	18.3	103.9	657.5	1,142.9	1,930.1	--	11.4	37.8	140.7	60.4	250.3
Poletimber	--	--	--	4.3	46.3	50.6	--	--	--	--	4.3	4.3
Sapling and seedling	--	--	--	2.8	79.4	82.2	--	3.7	3.8	--	3.8	11.3
Nonstocked	--	--	--	--	28.4	28.4	--	--	--	4.3	3.8	8.1
Total	7.5	18.3	103.9	664.6	1,297.0	2,091.3	--	15.1	41.6	145.0	72.3	274.0
<b>Hemlock:</b>												
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
<b>Ponderosa pine:</b>												
Sawtimber	--	8.7	50.3	234.7	183.1	476.8	--	3.8	30.9	60.7	15.2	110.6
Poletimber	--	.1	.6	3.3	4.8	8.8	--	--	--	3.8	--	3.8
Sapling and seedling	--	--	--	21.4	26.1	47.5	--	--	--	7.6	3.6	11.2
Nonstocked	--	--	--	2.6	15.2	17.8	--	--	--	--	3.7	3.7
Total	--	8.8	50.9	262.0	229.2	550.9	--	3.8	30.9	72.1	22.5	129.3
<b>White Pine:</b>												
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
<b>Lodgepole pine:</b>												
Sawtimber	--	--	--	100.9	602.5	703.4	--	--	3.8	8.1	15.2	27.1
Poletimber	--	--	--	27.9	185.4	213.3	--	--	--	8.1	16.8	24.9
Sapling and seedling	2.3	--	--	12.0	300.6	314.9	--	--	--	--	--	--
Nonstocked	--	--	--	--	12.8	12.8	--	--	--	--	--	--
Total	2.3	--	--	140.8	1,101.3	1,244.4	--	--	3.8	16.2	32.0	52.0
<b>Larch:</b>												
Sawtimber	1.9	2.2	9.1	51.7	9.8	74.7	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	10.6	10.6	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	1.9	2.2	9.1	51.7	20.4	85.3	--	--	--	--	--	--
<b>True Firs:</b>												
Sawtimber	2.9	2.0	18.4	193.4	362.5	579.2	--	3.8	22.8	22.8	3.8	53.2
Poletimber	--	--	--	2.5	53.9	56.4	--	--	--	--	--	--
Sapling and seedling	--	--	.2	9.7	47.4	57.3	--	--	3.7	3.8	--	7.5
Nonstocked	--	--	--	--	4.9	4.9	--	--	--	--	--	--
Total	2.9	2.0	18.6	205.6	468.7	697.8	--	3.8	26.5	26.6	3.8	60.7
<b>Fir-spruce</b>												
Sawtimber	--	9.0	74.3	80.1	86.6	250.0	--	--	--	--	--	--
Poletimber	--	--	--	.1	5.7	5.8	--	--	--	--	--	--
Sapling and seedling	--	.1	.2	.5	6.2	7.0	--	--	--	--	--	--
Nonstocked	--	--	--	--	2.6	2.6	--	--	--	--	--	--
Total	--	9.1	74.5	80.7	101.1	265.4	--	--	--	--	--	--
<b>Other softwoods:<sup>1</sup></b>												
Sawtimber	--	--	--	10.3	26.1	36.4	--	--	--	--	--	--
Poletimber	--	--	--	--	14.1	14.1	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	31.2	31.2	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	10.3	71.4	81.7	--	--	--	--	--	--
<b>Aspen:</b>												
Sawtimber	--	--	--	.7	11.2	11.9	--	--	--	--	--	--
Poletimber	--	--	--	--	17.5	17.5	--	--	--	--	8.6	8.6
Sapling and seedling	--	--	--	--	2.7	2.7	--	--	--	4.3	--	4.3
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	.7	31.4	32.1	--	--	--	4.3	8.6	12.9
<b>Other hardwoods:<sup>2</sup></b>												
Sawtimber	--	--	--	--	.4	.4	--	--	--	3.8	3.8	7.6
Poletimber	--	--	--	--	--	--	--	--	--	--	4.3	4.3
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	.4	.4	--	--	--	3.8	8.1	11.9
<b>All forest types:</b>												
Sawtimber	12.3	40.2	256.0	1,329.3	2,425.1	4,062.9	--	19.0	95.3	236.1	98.4	448.8
Poletimber	--	.1	.6	38.1	327.7	366.5	--	--	--	11.9	34.0	45.9
Sapling and seedling	2.3	.1	.4	46.4	504.2	553.4	--	3.7	7.5	15.7	7.4	34.3
Nonstocked	--	--	--	2.6	63.9	66.5	--	--	--	4.3	7.5	11.8
Total	14.6	40.4	257.0	1,416.4	3,320.9	5,049.3	--	22.7	102.8	268.0	147.3	540.8

<sup>1</sup>Principally whitebark-limber pine.<sup>2</sup>Principally cottonwood.

Table 15 (con.)

Forest type and stand-size class	Forest industry						Other private					
	Site class					Total	Site class					Total
	165+	120-164	85-119	50-84	20-49		165+	120-164	85-119	50-84	20-49	
----- Thousand acres -----												
<b>Douglas-fir:</b>												
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
<b>Hemlock:</b>												
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
<b>Ponderosa pine:</b>												
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	--	3.7
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
<b>White pine:</b>												
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
<b>Lodgepole pine:</b>												
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
<b>Larch:</b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--
<b>True firs:</b>												
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
<b>Fir-spruce</b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--
<b>Other softwoods:<sup>1</sup></b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--
<b>Aspen:</b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	1.0	1.0	--	--	--	--	5.0	5.0
Sapling and seedling	--	--	--	.5	--	.5	--	--	--	2.5	--	2.5
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	.5	1.0	1.5	--	--	--	2.5	5.0	7.5
<b>Other hardwoods:<sup>2</sup></b>												
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
<b>All forest types:</b>												
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 16. -- AREA OF COMMERCIAL FOREST LAND IN WESTERN MONTANA BY OWNER GROUP, FOREST TYPE, STAND-SIZE CLASS, AND SITE CLASS, 1970

Forest type and stand-size class	National Forest						Other public					
	Site class						Site class					
	165+	120-164	85-119	50-84	20-49	Total	165+	120-164	85-119	50-84	20-49	Total
----- Thousand acres -----												
<b>Douglas-fir:</b>												
Sawtimber	6.4	235.6	442.8	220.7	131.2	1,036.7	--	--	16.8	140.0	119.5	276.3
Poletimber	6.3	56.1	176.1	51.6	27.5	317.6	--	--	1.7	5.1	56.0	62.8
Sapling and seedling	.8	21.0	121.2	45.2	16.0	204.2	--	--	--	11.6	--	11.6
Nonstocked	( <sup>1</sup> )	5.1	7.3	1.0	1.8	15.2	--	--	--	.4	1.5	1.9
Total	13.5	317.8	747.4	318.5	176.5	1,573.7	--	--	18.5	157.1	177.0	352.6
<b>Hemlock:</b>												
Sawtimber	--	11.0	24.1	10.0	14.3	59.4	--	--	.5	1.0	.5	2.0
Poletimber	5.5	3.1	8.7	--	--	17.3	--	--	--	--	--	--
Sapling and seedling	--	.1	( <sup>1</sup> )	--	--	.1	--	--	--	--	--	--
Nonstocked	.1	.9	.9	.8	1.0	3.7	--	--	--	--	( <sup>1</sup> )	( <sup>1</sup> )
Total	5.6	15.1	33.7	10.8	15.3	80.5	--	--	.5	1.0	.5	2.0
<b>Ponderosa pine:</b>												
Sawtimber	8.1	34.2	55.1	80.2	56.7	234.3	--	--	28.6	95.1	66.0	189.7
Poletimber	7.3	16.5	5.3	10.2	11.3	50.6	--	--	1.7	4.6	22.9	29.2
Sapling and seedling	--	4.5	15.8	6.5	1.1	27.9	--	--	--	--	4.9	4.9
Nonstocked	--	--	--	.1	1.2	1.3	--	--	--	.2	1.9	2.1
Total	15.4	55.2	76.2	97.0	70.3	314.1	--	--	30.3	99.9	95.7	225.9
<b>White pine:</b>												
Sawtimber	2.8	14.2	6.6	1.9	--	25.5	--	--	1.8	.4	--	2.2
Poletimber	1.9	7.3	--	--	--	9.2	--	--	--	--	--	--
Sapling and seedling	--	3.0	--	--	--	3.0	--	--	--	--	--	--
Nonstocked	.1	.2	.2	--	--	.5	--	--	--	--	--	--
Total	4.8	24.7	6.8	1.9	--	38.2	--	--	1.8	.4	--	2.2
<b>Lodgepole pine:</b>												
Sawtimber	1.5	124.1	281.8	163.2	44.6	615.2	--	--	--	4.2	7.0	11.2
Poletimber	9.7	131.0	505.3	295.9	203.7	1,145.6	--	--	--	26.1	95.9	122.0
Sapling and seedling	2.1	25.6	144.1	57.3	104.0	333.1	--	--	--	--	52.4	52.4
Nonstocked	( <sup>1</sup> )	1.0	7.6	5.4	1.3	15.3	--	--	--	.2	.1	.3
Total	13.3	281.7	938.8	521.8	353.6	2,109.2	--	--	--	30.5	155.4	185.9
<b>Larch:</b>												
Sawtimber	62.2	110.1	120.1	77.0	0.5	369.9	6.6	14.5	21.9	57.7	18.2	118.9
Poletimber	25.6	59.8	59.7	22.6	--	167.7	--	--	--	14.1	--	14.1
Sapling and seedling	9.4	20.7	36.7	7.5	--	74.3	--	--	--	2.8	--	2.8
Nonstocked	5.3	8.6	10.3	5.0	--	29.2	--	--	--	2.8	--	2.8
Total	102.5	199.2	226.8	112.1	0.5	641.1	6.6	14.5	21.9	77.4	18.2	138.6
<b>True fir:</b>												
Sawtimber	9.0	94.7	234.9	115.9	116.6	571.1	--	--	1.7	3.6	2.9	8.2
Poletimber	--	27.6	50.5	36.0	37.7	151.8	--	--	( <sup>1</sup> )	( <sup>1</sup> )	.1	.1
Sapling and seedling	.6	34.1	74.2	23.9	36.1	168.9	--	--	.3	.5	.4	1.2
Nonstocked	.3	10.8	42.4	1.5	1.7	56.7	--	--	--	--	--	--
Total	9.9	167.2	402.0	177.3	192.1	948.5	--	--	2.0	4.1	3.4	9.5
<b>Fir spruce:</b>												
Sawtimber	10.2	72.8	87.0	67.4	23.1	260.5	--	1.0	4.9	19.1	12.9	37.9
Poletimber	--	20.0	11.5	.6	.8	32.9	--	--	( <sup>1</sup> )	.1	.2	.3
Sapling and seedling	1.2	10.9	32.2	8.6	2.6	55.5	--	--	--	.1	.5	.6
Nonstocked	.4	1.2	3.3	1.3	1.2	7.4	--	--	--	.7	2.8	3.5
Total	11.8	104.9	134.0	77.9	27.7	356.3	--	1.0	4.9	20.0	16.4	42.3
<b>Other Softwoods:<sup>2</sup></b>												
Sawtimber	3.0	12.8	15.7	20.5	33.8	85.8	--	--	1.5	2.0	.9	4.4
Poletimber	2.0	--	8.0	4.0	1.5	15.5	--	--	.4	.6	.3	1.3
Sapling and seedling	.9	1.9	4.4	4.4	.4	12.0	--	--	--	1.6	--	1.6
Nonstocked	--	--	--	.1	--	.1	--	--	--	--	--	--
Total	5.9	14.7	28.1	29.0	35.7	113.4	--	--	1.9	4.2	1.2	7.3
<b>Aspen:</b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	( <sup>1</sup> )	.1	.1
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	( <sup>1</sup> )	.1	.1
<b>Other hardwoods:<sup>3</sup></b>												
Sawtimber	--	--	--	--	--	--	--	--	--	.3	1.0	1.3
Poletimber	--	--	--	--	--	--	--	--	--	.2	.4	.6
Sapling and seedling	--	--	--	--	--	--	--	--	--	.1	.4	.5
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	.6	1.8	2.4
<b>All forest types:</b>												
Sawtimber	103.2	709.5	1,268.1	756.8	420.8	3,258.4	6.6	15.5	77.7	323.4	228.9	652.1
Poletimber	58.3	321.4	825.1	420.9	282.5	1,908.2	--	--	3.8	50.8	175.9	230.5
Sapling and seedling	15.0	121.8	428.6	153.4	160.2	879.0	--	--	.3	16.7	58.6	75.6
Nonstocked	6.2	27.8	72.0	15.2	8.2	129.4	--	--	--	4.3	6.3	10.6
Total	182.7	1,180.5	2,593.8	1,346.3	871.7	6,175.0	6.6	15.5	81.8	395.2	469.7	968.8

<sup>1</sup>Less than 0.05 thousand acres<sup>2</sup>Principally western redcedar and whitebark-limber pine.<sup>3</sup>Principally cottonwood.

Table 16 (con.)

Forest type and stand-size class	Forest industry						Other private					
	Site class					Total	Site class					Total
	165+	120-164	85-119	50-84	20-49		165+	120-164	85-119	50-84	20-49	
----- Thousand acres -----												
<b>Douglas fir:</b>												
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
<b>Total</b>	--	--	<b>15.5</b>	<b>127.2</b>	<b>140.4</b>	<b>283.1</b>	--	--	<b>30.0</b>	<b>257.3</b>	<b>334.6</b>	<b>621.9</b>
<b>Hemlock:</b>												
Sawtimber	--	--	.9	1.8	.8	3.5	--	--	.1	.1	( <sup>1</sup> )	.2
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	.3	.3
<b>Total</b>	--	--	<b>.9</b>	<b>1.8</b>	<b>.8</b>	<b>3.5</b>	--	--	<b>.1</b>	<b>.1</b>	<b>.3</b>	<b>.5</b>
<b>Ponderosa pine:</b>												
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
<b>Total</b>	--	--	<b>61.4</b>	<b>203.7</b>	<b>159.7</b>	<b>424.8</b>	--	--	<b>50.5</b>	<b>166.2</b>	<b>170.1</b>	<b>386.8</b>
<b>White pine:</b>												
Sawtimber	--	--	6.2	1.5	--	7.7	--	--	( <sup>1</sup> )	( <sup>1</sup> )	--	( <sup>1</sup> )
Poletimber	--	--	4.8	1.2	--	6.0	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	.5	.5	1.0	--	--	--	--	--	--
<b>Total</b>	--	--	<b>11.0</b>	<b>3.2</b>	<b>.5</b>	<b>14.7</b>	--	--	<b>(<sup>1</sup>)</b>	<b>(<sup>1</sup>)</b>	<b>--</b>	<b>(<sup>1</sup>)</b>
<b>Lodgepole pine:</b>												
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
<b>Total</b>	--	--	--	<b>21.1</b>	<b>85.6</b>	<b>106.7</b>	--	--	--	<b>70.4</b>	<b>278.4</b>	<b>348.8</b>
<b>Larch:</b>												
Sawtimber	8.1	17.9	26.9	71.3	22.5	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
<b>Total</b>	<b>8.1</b>	<b>17.9</b>	<b>26.9</b>	<b>96.6</b>	<b>22.5</b>	<b>172.0</b>	<b>11.5</b>	<b>25.6</b>	<b>38.6</b>	<b>181.9</b>	<b>32.3</b>	<b>289.9</b>
<b>True firs:</b>												
Sawtimber	--	--	--	.3	( <sup>1</sup> )	.3	--	--	.7	6.0	1.7	8.4
Poletimber	--	--	--	.1	.2	.5	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	<b>.1</b>	<b>.5</b>	<b>.8</b>	--	--	<b>.7</b>	<b>6.0</b>	<b>1.7</b>	<b>8.4</b>
<b>Fir spruce:</b>												
Sawtimber	--	.2	1.0	3.9	2.6	7.7	--	1.2	5.4	21.1	14.2	41.9
Poletimber	--	--	( <sup>1</sup> )	.1	.4	.5	--	--	.1	1.2	4.2	5.5
Sapling and seedling	--	--	--	--	--	--	--	--	--	.1	( <sup>1</sup> )	.1
Nonstocked	--	--	--	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	--	--	--	--	.2	.2
<b>Total</b>	--	<b>.2</b>	<b>1.0</b>	<b>4.0</b>	<b>3.0</b>	<b>8.2</b>	--	<b>1.2</b>	<b>5.5</b>	<b>22.4</b>	<b>18.6</b>	<b>47.7</b>
<b>Other softwoods:</b>												
Sawtimber	--	--	4.1	5.2	1.9	11.2	--	--	.6	.8	.2	1.6
Poletimber	--	--	1.4	2.3	1.2	4.9	--	--	.1	.1	( <sup>1</sup> )	.2
Sapling and seedling	--	--	--	6.2	--	6.2	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	.2	--	.2
<b>Total</b>	--	--	<b>5.5</b>	<b>13.7</b>	<b>3.1</b>	<b>22.3</b>	--	--	<b>.7</b>	<b>1.1</b>	<b>.2</b>	<b>2.0</b>
<b>Aspen:</b>												
Sawtimber	--	--	--	--	--	--	--	--	--	.2	.4	.6
Poletimber	--	--	--	--	--	--	--	--	--	1.1	3.0	4.1
Sapling and seedling	--	--	--	--	--	--	--	--	--	.3	.7	1.0
Nonstocked	--	--	--	( <sup>1</sup> )	.1	.1	--	--	--	.1	.1	.2
<b>Total</b>	--	--	--	<b>(<sup>1</sup>)</b>	<b>.1</b>	<b>.1</b>	--	--	--	<b>1.7</b>	<b>4.2</b>	<b>5.9</b>
<b>Other hardwoods:</b>												
Sawtimber	--	--	--	.7	1.9	2.6	--	--	--	7.8	21.0	28.8
Poletimber	--	--	--	.3	.8	1.1	--	--	--	.7	1.9	2.6
Sapling and seedling	--	--	--	.3	.8	1.1	--	--	--	.3	.8	1.1
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	<b>1.3</b>	<b>3.5</b>	<b>4.8</b>	--	--	--	<b>8.8</b>	<b>23.7</b>	<b>32.5</b>
<b>All forest types</b>												
Sawtimber	8.1	18.1	113.6	405.2	273.2	818.2	11.5	26.8	117.9	518.5	380.7	1,055.4
Poletimber	--	--	8.7	48.4	120.5	177.6	--	--	8.2	143.2	399.7	551.1
Sapling and seedling	--	--	--	15.3	19.5	34.8	--	--	--	46.7	72.3	119.0
Nonstocked	--	--	--	4.2	6.2	10.4	--	--	--	7.5	11.4	18.9
<b>Total</b>	<b>8.1</b>	<b>18.1</b>	<b>122.3</b>	<b>473.1</b>	<b>419.4</b>	<b>1,041.0</b>	<b>11.5</b>	<b>26.8</b>	<b>126.1</b>	<b>715.9</b>	<b>864.1</b>	<b>1,744.4</b>

Table 17.--AREA OF COMMERCIAL FOREST LAND IN EASTERN MONTANA BY OWNER GROUP, FOREST TYPE, STAND-SIZE CLASS, AND SITE CLASS, 1970

Forest type and stand-size class	National forest						Other public					
	Site class						Site class					
	165+	120-164	85-119	50-84	20-49	Total	165+	120-164	85-119	50-84	20-49	Total
----- Thousand acres -----												
<b>Douglas fir:</b>												
Sawtimber	5.3	55.7	166.2	234.4	164.7	626.3	--	--	--	44.2	102.7	146.9
Poletimber	--	2.9	49.5	81.5	67.0	200.9	--	--	--	5.1	54.7	59.8
Sapling and seedling	( <sup>1</sup> )	5.8	38.4	56.6	31.6	132.4	--	--	--	--	11.9	11.9
Nonstocked	.1	--	4.2	4.4	4.8	13.5	--	--	--	--	--	--
Total	5.4	64.4	258.3	376.9	268.1	973.1	--	--	--	49.3	169.3	218.6
<b>Hemlock:</b>												
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
<b>Ponderosa pine:</b>												
Sawtimber	5.2	5.2	7.5	51.1	37.1	106.1	--	--	--	22.4	165.0	187.4
Poletimber	--	--	1.9	20.9	15.0	37.8	--	--	--	--	53.3	53.3
Sapling and seedling	--	( <sup>1</sup> )	1.4	16.0	11.6	29.0	--	--	--	--	36.1	36.1
Nonstocked	--	--	2.3	27.7	25.1	55.1	--	--	--	--	23.7	23.7
Total	5.2	5.2	13.1	115.7	88.8	228.0	--	--	--	22.4	278.1	300.5
<b>White pine:</b>												
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
<b>Lodgepole pine:</b>												
Sawtimber	1.6	71.1	286.5	364.1	80.0	803.3	--	--	--	10.5	34.4	44.9
Poletimber	( <sup>1</sup> )	44.3	200.6	301.2	99.3	645.4	--	--	--	12.0	48.0	60.0
Sapling and seedling	--	16.7	84.2	71.4	46.8	219.1	--	--	--	--	16.9	16.9
Nonstocked	( <sup>1</sup> )	6.0	9.9	19.9	8.9	44.7	--	--	--	--	--	--
Total	1.6	138.1	581.2	756.6	235.0	1,712.5	--	--	--	22.5	99.3	121.8
<b>Larch:</b>												
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
<b>True firs:</b>												
Sawtimber	2.9	18.8	25.5	17.4	13.0	77.6	--	--	--	11.8	11.0	22.8
Poletimber	--	1.7	20.4	10.6	5.2	37.9	--	--	--	--	--	--
Sapling and seedling	--	3.5	2.9	14.1	13.1	33.6	--	--	--	--	--	--
Nonstocked	--	--	.9	--	--	.9	--	--	--	--	--	--
Total	2.9	24.0	49.7	42.1	31.3	150.0	--	--	--	11.8	11.0	22.8
<b>Fir spruce:</b>												
Sawtimber	.1	20.9	97.8	75.8	12.4	207.0	--	--	--	--	--	--
Poletimber	--	1.4	19.2	16.9	6.8	44.3	--	--	--	--	--	--
Sapling and seedling	--	.4	6.0	5.8	2.4	14.6	--	--	--	5.9	--	5.9
Nonstocked	--	.7	5.7	4.6	3.5	14.5	--	--	--	--	--	--
Total	.1	23.4	128.7	103.1	25.1	280.4	--	--	--	5.9	--	5.9
<b>Other softwoods:<sup>2</sup></b>												
Sawtimber	--	--	4.6	29.2	21.3	55.1	--	--	--	5.1	--	5.1
Poletimber	--	--	--	3.8	8.8	12.6	--	--	--	--	--	--
Sapling and seedling	--	--	3.3	( <sup>1</sup> )	9.7	13.0	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	7.9	33.0	39.8	80.7	--	--	--	5.1	--	5.1
<b>Aspen:</b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	5.1	--	5.1
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	6.1	6.1
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	5.1	6.1	11.2
<b>Other hardwoods:<sup>3</sup></b>												
Sawtimber	--	--	--	--	--	--	--	--	--	5.1	25.7	30.8
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	5.1	25.7	30.8
<b>All forest types:</b>												
Sawtimber	15.1	171.7	588.1	772.0	328.5	1,875.4	--	--	--	99.1	338.8	437.9
Poletimber	( <sup>1</sup> )	50.3	291.6	434.9	202.1	978.9	--	--	--	22.2	156.0	178.2
Sapling and seedling	( <sup>1</sup> )	26.4	136.2	163.9	115.2	441.7	--	--	--	5.9	71.0	76.9
Nonstocked	.1	6.7	23.0	56.6	42.3	128.7	--	--	--	--	23.7	23.7
Total	15.2	255.1	1,038.9	1,427.4	688.1	3,424.7	--	--	--	127.2	589.5	716.7

<sup>1</sup>Less than 0.05 thousand acres.<sup>2</sup>Principally whitebark-limber pine.<sup>3</sup>Principally cottonwood.



Table 17 (con.)

Forest type and stand-size class	Forest industry					Other private						
	Site class					Site class						
	165+	120-164	85-119	50-84	20-49	Total	165+	120-164	85-119	50-84	20-49	Total
Thousand acres												
<b>Douglas fir:</b>												
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	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	<b>3.2</b>	<b>3.2</b>	--	--	--	<b>124.0</b>	<b>416.6</b>	<b>540.6</b>
<b>Hemlock:</b>												
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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Ponderosa pine:</b>												
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
<b>Total</b>	--	--	--	--	<b>8.4</b>	<b>8.4</b>	--	--	--	<b>55.0</b>	<b>676.7</b>	<b>731.7</b>
<b>White pine:</b>												
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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Lodgepole pine:</b>												
Sawtimber	--	--	--	--	.4	.4	--	--	--	27.5	89.3	116.8
Poletimber	--	--	--	--	.4	.4	--	--	--	29.3	119.2	148.5
Sapling and seedling	--	--	--	--	.8	.8	--	--	--	--	41.2	41.2
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	<b>.4</b>	<b>1.6</b>	--	--	--	<b>56.8</b>	<b>249.7</b>	<b>306.5</b>
<b>Larch:</b>												
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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>True firs:</b>												
Sawtimber	--	--	--	--	.4	.4	--	--	--	28.3	26.8	55.1
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	<b>.4</b>	<b>.4</b>	--	--	--	<b>28.3</b>	<b>26.8</b>	<b>55.1</b>
<b>Fir spruce:</b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	.4	.4	--	--	--	14.4	--	14.4
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	<b>.4</b>	<b>.4</b>	--	--	--	<b>14.4</b>	--	<b>14.4</b>
<b>Other softwoods:</b>												
Sawtimber	--	--	--	--	--	--	--	--	--	12.5	--	12.5
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	--	--	--	--	--	<b>12.5</b>	--	<b>12.5</b>
<b>Aspen:</b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	12.5	--	12.5
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	14.9	14.9
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	--	--	--	--	--	<b>12.5</b>	<b>14.9</b>	<b>27.4</b>
<b>Other hardwoods:</b>												
Sawtimber	--	--	--	--	--	--	--	--	--	12.5	64.9	77.4
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	--	--	--	--	--	<b>12.5</b>	<b>64.9</b>	<b>77.4</b>
<b>All forest types:</b>												
Sawtimber	--	--	--	--	5.8	5.8	--	--	--	247.3	835.7	1,083.0
Poletimber	--	--	--	--	.4	3.1	3.5	--	--	54.3	384.4	438.7
Sapling and seedling	--	--	--	--	.4	3.1	3.5	--	--	14.4	172.1	186.5
Nonstocked	--	--	--	--	1.6	1.6	--	--	--	57.4	57.4	57.4
<b>Total</b>	--	--	--	--	<b>.8</b>	<b>13.6</b>	<b>14.4</b>	--	--	<b>316.0</b>	<b>1,449.6</b>	<b>1,765.6</b>

Table 18.—AREA OF COMMERCIAL FOREST LAND IN WESTERN SOUTH DAKOTA BY OWNER GROUP, FOREST TYPE, STAND-SIZE CLASS, AND SITE CLASS, 1970

Forest type and stand-size class	National Forest						Other public					
	Site class						Site 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>												
<b>Douglas-fir:</b>												
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
<b>Hemlock:</b>												
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
<b>Ponderosa pine:</b>												
Sawtimber	--	--	--	14.3	537.1	551.4	--	--	--	.9	38.7	39.6
Poletimber	--	--	--	1.8	280.4	282.2	--	--	--	--	30.4	30.4
Sapling and seedling	--	--	--	.8	33.4	34.2	--	--	--	--	1.6	1.6
Nonstocked	--	--	--	--	12.6	12.6	--	--	--	--	--	--
Total	--	--	--	16.9	863.5	880.4	--	--	--	.9	70.7	71.6
<b>White pine:</b>												
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
<b>Lodgepole pine:</b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--
<b>Larch:</b>												
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
<b>True firs:</b>												
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
<b>Fir-spruce:</b>												
Sawtimber	--	--	--	18.3	--	18.3	--	--	--	.2	--	.2
Poletimber	--	--	--	--	2.3	2.3	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	18.3	2.3	20.6	--	--	--	.2	--	.2
<b>Other softwoods:</b>												
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
<b>Aspen:</b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--
<b>Other hardwoods:</b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--
<b>All forest types:</b>												
Sawtimber	--	--	--	32.6	537.1	569.7	--	--	--	1.1	38.7	39.8
Poletimber	--	--	--	1.8	282.7	284.5	--	--	--	--	30.4	30.4
Sapling and seedling	--	--	--	.8	33.4	34.2	--	--	--	--	1.6	1.6
Nonstocked	--	--	--	--	12.6	12.6	--	--	--	--	--	--
Total	--	--	--	35.2	865.8	901.0	--	--	--	1.1	70.7	71.8

Table 18 (con.)

Forest type and stand-size class	Forest industry					Total	Other private					
	Site class	Site class	Site class	Site class	Site class		Site class	Site class	Site class	Site class	Site class	
	165+	120-164	85-119	50-84	20-49		165+	120-164	85-119	50-84	20-49	Total
Thousand acres												
<b>Douglas-fir:</b>												
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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Hemlock:</b>												
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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Ponderosa pine:</b>												
Sawtimber	--	--	--	.1	6.2	6.3	--	--	--	2.0	89.1	91.1
Poletimber	--	--	--	--	9.9	9.9	--	--	--	--	157.7	157.7
Sapling and seedling	--	--	--	--	.8	.8	--	--	--	--	9.8	9.8
Nonstocked	--	--	--	--	.1	.1	--	--	--	--	3.0	3.0
<b>Total</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>.1</b>	<b>17.0</b>	<b>17.1</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>2.0</b>	<b>259.6</b>	<b>261.6</b>
<b>White pine:</b>												
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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Lodgepole pine:</b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>
<b>Larch:</b>												
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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>True firs:</b>												
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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Fir-spruce:</b>												
Sawtimber	--	--	--	.1	--	.1	--	--	--	1.7	--	1.7
Poletimber	--	--	--	--	--	--	--	--	--	--	.5	.5
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>.1</b>	<b>--</b>	<b>.1</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>1.7</b>	<b>.5</b>	<b>2.2</b>
<b>Other softwoods:</b>												
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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Aspen:</b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>
<b>Other hardwoods:</b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>
<b>All forest types:</b>												
Sawtimber	--	--	--	.2	6.2	6.4	--	--	--	3.7	89.1	92.8
Poletimber	--	--	--	--	9.9	9.9	--	--	--	--	158.2	158.2
Sapling and seedling	--	--	--	--	.8	.8	--	--	--	--	9.8	9.8
Nonstocked	--	--	--	--	.1	.1	--	--	--	--	3.0	3.0
<b>Total</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>.2</b>	<b>17.0</b>	<b>17.2</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>3.7</b>	<b>260.1</b>	<b>263.8</b>

Table 19.—AREA OF COMMERCIAL FOREST LAND IN WYOMING BY OWNER GROUP, FOREST TYPE, STAND-SIZE CLASS, AND SITE CLASS, 1970

Forest type and stand-size class	National Forest						Other public					
	Site class						Site class					
	165+	120-164	85-119	50-84	20-49	Total	165+	120-164	85-119	50-84	20-49	Total
----- Thousand acres -----												
<b>Douglas-fir:</b>												
Sawtimber	--	--	5.3	35.7	37.0	78.0	--	--	15.5	52.7	31.5	99.7
Poletimber	--	--	--	2.6	12.9	15.5	--	--	--	4.4	13.5	17.9
Sapling and seedling	--	--	--	--	8.3	8.3	--	--	--	--	4.5	4.5
Nonstocked	--	--	--	--	4.6	4.6	--	--	--	--	11.9	11.9
Total	--	--	5.3	38.3	62.8	106.4	--	--	15.5	57.1	61.4	134.0
<b>Hemlock:</b>												
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
<b>Ponderosa pine:</b>												
Sawtimber	--	--	--	22.8	135.1	157.9	--	--	--	--	147.6	147.6
Poletimber	--	--	( <sup>1</sup> )	.2	23.3	23.5	--	--	.2	2.2	49.3	51.7
Sapling and seedling	--	--	--	--	1.6	1.6	--	--	--	--	11.6	11.6
Nonstocked	--	--	--	--	1.1	1.1	--	--	--	--	15.3	15.3
Total	--	--	( <sup>1</sup> )	23.0	161.1	184.1	--	--	.2	2.2	223.8	226.2
<b>White pine:</b>												
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
<b>Lodgepole pine:</b>												
Sawtimber	--	--	6.6	55.1	356.8	418.5	--	--	2.0	14.5	61.7	78.2
Poletimber	--	--	2.2	27.4	431.3	460.9	--	--	.1	1.8	25.1	27.0
Sapling and seedling	--	--	--	--	59.1	59.1	--	--	--	--	5.5	5.5
Nonstocked	--	--	--	--	43.7	43.7	--	--	--	--	8.1	8.1
Total	--	--	8.8	82.5	890.9	982.2	--	--	2.1	16.3	100.4	118.8
<b>Larch:</b>												
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
<b>True firs:</b>												
Sawtimber	--	--	--	39.1	39.8	78.9	--	--	--	--	--	--
Poletimber	--	--	--	2.6	2.3	4.9	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	6.0	6.0	--	--	--	--	--	--
Nonstocked	--	--	--	--	1.7	1.7	--	--	--	--	--	--
Total	--	--	--	41.7	49.8	91.5	--	--	--	--	--	--
<b>Fir-spruce:</b>												
Sawtimber	--	--	19.6	75.5	156.5	251.6	--	--	3.8	50.9	5.8	60.5
Poletimber	--	--	.2	2.1	45.1	47.4	--	--	9.1	9.1	.7	18.9
Sapling and seedling	--	--	--	--	9.4	9.4	--	--	--	--	3.2	3.2
Nonstocked	--	--	--	--	13.6	13.6	--	--	--	--	9.2	9.2
Total	--	--	19.8	77.6	224.6	322.0	--	--	12.9	60.0	18.9	91.8
<b>Other softwoods:<sup>2</sup></b>												
Sawtimber	--	--	--	4.5	16.2	20.7	--	--	--	.1	1.8	1.9
Poletimber	--	--	( <sup>1</sup> )	.2	3.5	3.7	--	--	--	--	1.1	1.1
Sapling and seedling	--	--	--	--	3.0	3.0	--	--	--	--	.3	.3
Nonstocked	--	--	--	--	5.4	5.4	--	--	--	--	.1	.1
Total	--	--	( <sup>1</sup> )	4.7	28.1	32.8	--	--	--	.1	3.3	3.4
<b>Aspen:</b>												
Sawtimber	--	--	--	--	( <sup>1</sup> )	( <sup>1</sup> )	--	--	.2	1.0	19.8	21.0
Poletimber	--	--	--	--	24.8	24.8	--	--	--	--	26.5	26.5
Sapling and seedling	--	--	--	--	28.6	28.6	--	--	--	--	4.7	4.7
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	53.4	53.4	--	--	.2	1.0	51.0	52.2
<b>Other hardwoods:</b>												
Sawtimber	--	--	--	--	( <sup>1</sup> )	( <sup>1</sup> )	--	--	--	--	.3	.3
Poletimber	--	--	--	--	.1	.1	--	--	--	--	1.1	1.1
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	.4	.4
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	.1	.1	--	--	--	--	1.8	1.8
<b>All forest types:</b>												
Sawtimber	--	--	31.5	232.7	741.4	1,005.6	--	--	21.5	119.2	268.5	409.2
Poletimber	--	--	2.4	35.1	543.3	580.8	--	--	9.4	17.5	117.3	144.2
Sapling and seedling	--	--	--	--	116.0	116.0	--	--	--	--	30.2	30.2
Nonstocked	--	--	--	--	70.1	70.1	--	--	--	--	44.6	44.6
Total	--	--	33.9	267.8	1,470.8	1,772.5	--	--	30.9	136.7	460.6	628.2

<sup>1</sup>Less than 0.05 thousand acres.<sup>2</sup>Principally whitebark-limber pine.

Table 19 (con.)

Forest type and stand-size class	Forest industry						Other private					
	Site class					Total	Site class					Total
	165+	120-164	85-119	50-84	20-49		165+	120-164	85-119	50-84	20-49	
<i>Thousand acres</i>												
<b>Douglas fir:</b>												
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
<b>Total</b>	<b>--</b>	<b>--</b>	<b>.4</b>	<b>1.8</b>	<b>1.7</b>	<b>3.9</b>	<b>--</b>	<b>--</b>	<b>7.1</b>	<b>27.3</b>	<b>27.3</b>	<b>61.7</b>
<b>Hemlock:</b>												
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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Ponderosa pine:</b>												
Sawtimber	--	--	--	--	29.4	29.4	--	--	--	--	367.7	367.7
Poletimber	--	--	--	.3	6.4	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
<b>Total</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>.3</b>	<b>37.2</b>	<b>37.5</b>	<b>--</b>	<b>--</b>	<b>.5</b>	<b>5.0</b>	<b>498.2</b>	<b>503.7</b>
<b>White pine:</b>												
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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Lodgepole pine:</b>												
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
<b>Total</b>	<b>--</b>	<b>--</b>	<b>.1</b>	<b>.8</b>	<b>4.6</b>	<b>5.5</b>	<b>--</b>	<b>--</b>	<b>1.6</b>	<b>12.2</b>	<b>82.3</b>	<b>96.1</b>
<b>Larch:</b>												
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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>True firs:</b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>
<b>Fir-spruce:</b>												
Sawtimber	--	--	.1	.7	.7	1.5	--	--	1.0	11.4	7.0	19.4
Poletimber	--	--	.1	.1	.4	.6	--	--	1.5	1.7	4.4	7.6
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	.8	.8
Nonstocked	--	--	--	--	--	--	--	--	--	--	.8	.8
<b>Total</b>	<b>--</b>	<b>--</b>	<b>.2</b>	<b>.8</b>	<b>1.1</b>	<b>2.1</b>	<b>--</b>	<b>--</b>	<b>2.5</b>	<b>13.1</b>	<b>13.0</b>	<b>29.6</b>
<b>Other softwoods:</b>												
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
<b>Total</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>.9</b>	<b>.9</b>	<b>--</b>	<b>--</b>	<b>.1</b>	<b>.8</b>	<b>16.9</b>	<b>17.8</b>
<b>Aspen:</b>												
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	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>3.9</b>	<b>3.9</b>	<b>--</b>	<b>--</b>	<b>.3</b>	<b>1.6</b>	<b>76.5</b>	<b>78.4</b>
<b>Other hardwoods:</b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	1.9	1.9
Poletimber	--	--	--	--	.5	.5	--	--	--	--	12.2	12.2
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	.4	.4
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>.5</b>	<b>.5</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>14.5</b>	<b>14.5</b>
<b>All forest types:</b>												
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
<b>Total</b>	<b>--</b>	<b>--</b>	<b>.7</b>	<b>3.7</b>	<b>49.9</b>	<b>54.3</b>	<b>--</b>	<b>--</b>	<b>12.1</b>	<b>60.0</b>	<b>728.7</b>	<b>800.8</b>

Table 20. — AREA OF COMMERCIAL FOREST LAND IN ARIZONA BY OWNER GROUP, FOREST TYPE, STAND-SIZE CLASS, AND SITE CLASS, 1970

Forest type and stand-size class	National Forest						Other public					
	Site class						Site class					
	165+	120-164	85-119	50-84	20-49	Total	165+	120-164	85-119	50-84	20-49	Total
----- Thousand acres -----												
<b>Douglas-fir:</b>												
Sawtimber	--	2.8	15.2	76.6	44.9	139.5	--	--	3.4	1.7	--	5.1
Poletimber	--	--	1.3	2.3	--	3.6	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	.3	.3	--	--	--	--	--	--
Nonstocked	--	--	--	--	3.7	3.7	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>2.8</b>	<b>16.5</b>	<b>78.9</b>	<b>48.9</b>	<b>147.1</b>	<b>--</b>	<b>--</b>	<b>3.4</b>	<b>1.7</b>	<b>--</b>	<b>5.1</b>
<b>Hemlock:</b>												
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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Ponderosa pine:</b>												
Sawtimber	--	6.7	13.4	459.9	1,172.5	1,652.5	--	--	98.2	458.5	491.3	1,048.0
Poletimber	--	--	--	13.9	124.5	138.4	--	--	--	1.8	--	1.8
Sapling and seedling	--	--	--	5.4	116.7	122.1	--	--	--	2.9	.7	3.6
Nonstocked	--	--	--	18.0	107.6	125.6	--	--	--	--	3.9	3.9
<b>Total</b>	<b>--</b>	<b>6.7</b>	<b>13.4</b>	<b>497.2</b>	<b>1,521.3</b>	<b>2,038.6</b>	<b>--</b>	<b>--</b>	<b>98.2</b>	<b>463.2</b>	<b>495.9</b>	<b>1,057.3</b>
<b>White pine:</b>												
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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Lodgepole pine:</b>												
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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Larch:</b>												
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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>True firs:</b>												
Sawtimber	--	--	11.0	36.1	1.1	48.2	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>11.0</b>	<b>36.1</b>	<b>1.1</b>	<b>48.2</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>
<b>Fir-spruce:</b>												
Sawtimber	--	--	13.3	.9	--	14.2	--	--	--	46.9	46.9	93.8
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	.4	.4	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>13.3</b>	<b>.9</b>	<b>.4</b>	<b>14.6</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>46.9</b>	<b>46.9</b>	<b>93.8</b>
<b>Other softwoods:</b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>
<b>Aspen:</b>												
Sawtimber	--	--	5.7	17.3	4.6	27.6	--	--	--	--	--	--
Poletimber	--	--	1.3	.5	2.9	4.7	--	--	--	--	19.6	19.6
Sapling and seedling	--	--	--	3.4	10.5	13.9	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>7.0</b>	<b>21.2</b>	<b>18.0</b>	<b>46.2</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>19.6</b>	<b>19.6</b>
<b>Other hardwoods:</b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>
<b>All Forest types:</b>												
Sawtimber	--	9.5	58.6	590.8	1,223.1	1,882.0	--	--	101.6	507.1	538.2	1,146.9
Poletimber	--	--	2.6	16.7	127.4	146.7	--	--	--	1.8	19.6	21.4
Sapling and seedling	--	--	--	8.8	127.5	136.3	--	--	--	2.9	.7	3.6
Nonstocked	--	--	--	18.0	111.7	129.7	--	--	--	--	3.9	3.9
<b>Total</b>	<b>--</b>	<b>9.5</b>	<b>61.2</b>	<b>634.3</b>	<b>1,589.7</b>	<b>2,294.7</b>	<b>--</b>	<b>--</b>	<b>101.6</b>	<b>511.8</b>	<b>562.4</b>	<b>1,175.8</b>

Table 20 (con.)

Forest type and stand-size class	Forest industry					Total	Other private					Total
	165+	120-164	85-119	50-84	20-49		165+	120-164	85-119	50-84	20-49	
Thousand acres												
<b>Douglas-fir:</b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	--	--	--	--	--	--	--	--
<b>Hemlock:</b>												
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
<b>Total</b>	0	0	0	0	0	0	0	0	0	0	0	0
<b>Ponderosa pine:</b>												
Sawtimber	--	--	--	--	--	--	--	--	71.9	47.9	119.8	--
Poletimber	--	--	--	--	--	--	--	--	1.4	--	6.0	7.4
Sapling and seedling	--	--	--	--	--	--	--	--	--	15.0	15.0	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	--	--	--	--	1.4	71.9	68.9	142.2
<b>White pine:</b>												
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
<b>Total</b>	0	0	0	0	0	0	0	0	0	0	0	0
<b>Lodgepole pine:</b>												
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
<b>Total</b>	0	0	0	0	0	0	0	0	0	0	0	0
<b>Larch:</b>												
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
<b>Total</b>	0	0	0	0	0	0	0	0	0	0	0	0
<b>True firs:</b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	--	--	--	--	--	--	--	--
<b>Fir-spruce:</b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	--	--	--	--	--	--	--	--
<b>Other softwoods:</b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	--	--	--	--	--	--	--	--
<b>Aspen:</b>												
Sawtimber	--	--	--	--	--	--	--	--	1.2	7.0	7.1	15.3
Poletimber	--	--	--	--	--	--	--	--	--	6.6	6.6	6.6
Sapling and seedling	--	--	--	--	--	--	--	--	--	1.8	.4	2.2
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	--	--	--	--	1.2	8.8	14.1	24.1
<b>Other hardwoods:</b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	--	--	--	--	--	--	--	--
<b>All forest types:</b>												
Sawtimber	--	--	--	--	--	--	--	--	1.2	78.9	55.0	135.1
Poletimber	--	--	--	--	--	--	--	--	1.4	--	12.6	14.0
Sapling and seedling	--	--	--	--	--	--	--	--	--	1.8	15.4	17.2
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	--	--	--	--	2.6	80.7	83.0	166.3

Table 21.—AREA OF COMMERCIAL FOREST LAND IN COLORADO BY OWNER GROUP, FOREST TYPE, STAND-SIZE CLASS, AND SITE CLASS, 1970

Forest type and stand-size class	National Forest					Other public					Total
	Site class					Site class					
	165+	120-164	85-119	50-84	20-49	165+	120-164	85-119	50-84	20-49	
----- Thousand acres -----											
<b>Douglas-fir:</b>											
Sawtimber	--	--	--	28.6	199.2	227.8	--	--	29.5	98.0	127.5
Poetimber	--	--	--	13.3	47.3	60.6	--	--	2.5	54.5	57.0
Sapling and seedling	--	--	--	4.5	1.3	5.8	--	--	--	.4	.4
Nonstocked	--	--	--	2.7	31.9	34.6	--	--	--	2.2	2.2
<b>Total</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>49.1</b>	<b>279.7</b>	<b>328.8</b>	<b>--</b>	<b>--</b>	<b>2.5</b>	<b>29.5</b>	<b>155.1</b>
<b>Hemlock:</b>											
Sawtimber	0	0	0	0	0	0	0	0	0	0	0
Poetimber	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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Ponderosa pine:</b>											
Sawtimber	--	--	--	16.4	306.3	322.7	--	--	4.3	164.0	168.3
Poetimber	--	--	--	--	33.4	33.4	--	--	--	39.4	39.4
Sapling and seedling	--	--	--	--	15.4	15.4	--	--	--	.1	.1
Nonstocked	--	--	--	4.1	174.0	178.1	--	--	--	.3	.3
<b>Total</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>20.5</b>	<b>529.1</b>	<b>549.6</b>	<b>--</b>	<b>--</b>	<b>4.3</b>	<b>203.8</b>	<b>208.1</b>
<b>White pine:</b>											
Sawtimber	0	0	0	0	0	0	0	0	0	0	0
Poetimber	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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Lodgepole pine:</b>											
Sawtimber	--	--	12.1	85.7	261.3	359.1	--	--	--	26.3	26.3
Poetimber	--	--	--	26.4	210.8	237.2	--	--	.8	69.4	70.2
Sapling and seedling	--	--	--	3.3	53.8	57.1	--	--	--	4.9	4.9
Nonstocked	--	--	--	1.7	7.9	9.6	--	--	--	.5	.5
<b>Total</b>	<b>--</b>	<b>--</b>	<b>12.1</b>	<b>117.1</b>	<b>533.8</b>	<b>663.0</b>	<b>--</b>	<b>--</b>	<b>.8</b>	<b>101.1</b>	<b>101.9</b>
<b>Larch:</b>											
Sawtimber	0	0	0	0	0	0	0	0	0	0	0
Poetimber	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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>True firs:</b>											
Sawtimber	--	--	64.4	319.4	723.7	1,107.5	--	--	--	1.4	1.4
Poetimber	--	--	--	26.3	65.0	91.3	--	--	--	1.1	1.1
Sapling and seedling	--	--	--	44.8	71.8	116.6	--	--	--	--	--
Nonstocked	--	--	--	78.5	112.9	191.4	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>64.4</b>	<b>469.0</b>	<b>973.4</b>	<b>1,506.8</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>2.5</b>	<b>2.5</b>
<b>Fir-spruce:</b>											
Sawtimber	--	--	66.1	112.9	253.9	432.9	--	--	8.5	14.5	32.9
Poetimber	--	--	10.5	32.6	74.0	117.1	--	--	.5	1.7	3.9
Sapling and seedling	--	--	--	--	10.0	10.0	--	--	--	--	.4
Nonstocked	--	--	--	--	180.8	180.8	--	--	--	--	3.6
<b>Total</b>	<b>--</b>	<b>--</b>	<b>76.6</b>	<b>145.5</b>	<b>518.7</b>	<b>740.8</b>	<b>--</b>	<b>--</b>	<b>9.0</b>	<b>16.2</b>	<b>40.8</b>
<b>Other softwoods:<sup>1</sup></b>											
Sawtimber	--	--	--	--	13.0	13.0	--	--	.7	4.5	5.2
Poetimber	--	--	--	--	--	--	--	--	.1	2.3	2.4
Sapling and seedling	--	--	--	--	.4	.4	--	--	--	.2	.2
Nonstocked	--	--	--	--	1.5	1.5	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>14.9</b>	<b>14.9</b>	<b>--</b>	<b>--</b>	<b>.8</b>	<b>7.0</b>	<b>7.8</b>
<b>Aspen:</b>											
Sawtimber	12.5	5.5	20.6	113.9	247.9	400.4	--	1.8	3.5	1.6	17.3
Poetimber	17.7	25.9	125.3	142.8	291.2	602.9	--	--	--	--	122.4
Sapling and seedling	--	--	6.9	58.5	137.6	203.0	--	--	--	--	14.0
Nonstocked	--	2.4	25.5	28.5	99.9	156.3	--	--	--	--	.2
<b>Total</b>	<b>30.2</b>	<b>33.8</b>	<b>178.3</b>	<b>343.7</b>	<b>776.6</b>	<b>1,362.6</b>	<b>--</b>	<b>1.8</b>	<b>3.5</b>	<b>1.6</b>	<b>153.9</b>
<b>Other hardwoods:<sup>2</sup></b>											
Sawtimber	--	--	--	--	.1	.1	--	--	--	19.8	19.8
Poetimber	--	--	--	--	--	--	--	--	--	.3	.3
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	.2	.2
<b>Total</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>.1</b>	<b>.1</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>20.3</b>	<b>20.3</b>
<b>All forest types:</b>											
Sawtimber	12.5	5.5	163.2	676.9	2,005.4	2,863.5	--	1.8	12.0	50.6	364.2
Poetimber	17.7	25.9	135.8	241.4	721.7	1,142.5	--	--	3.0	2.6	293.3
Sapling and seedling	--	--	6.9	111.1	290.3	408.3	--	--	--	--	20.0
Nonstocked	--	2.4	25.5	115.5	608.9	752.3	--	--	--	--	7.0
<b>Total</b>	<b>30.2</b>	<b>33.8</b>	<b>331.4</b>	<b>1,144.9</b>	<b>3,626.3</b>	<b>5,166.6</b>	<b>--</b>	<b>1.8</b>	<b>15.0</b>	<b>53.2</b>	<b>684.5</b>

<sup>1</sup>Principally limber pine.  
<sup>2</sup>Principally cottonwood.



Table 21 (con.)

Forest type and stand-size class	Forest industry						Other private					
	Site class						Site class					
	165+	120-164	85-119	50-84	20-49	Total	165+	120-164	85-119	50-84	20-49	Total
----- Thousand acres -----												
<b>Douglas-fir:</b>												
Sawtimber	--	--	--	--	--	--	--	--	62.2	--	206.5	268.7
Poetimber	--	--	--	--	--	--	--	--	5.4	--	116.9	122.3
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	2.0	2.0
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	5.4	62.2	325.4	393.0
<b>Hemlock:</b>												
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
<b>Ponderosa pine:</b>												
Sawtimber	--	--	--	--	--	--	--	--	13.7	--	525.4	539.1
Poetimber	--	--	--	--	--	--	--	--	--	--	367.2	367.2
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	.3	.3
Nonstocked	--	--	--	--	--	--	--	--	--	--	255.1	255.1
Total	--	--	--	--	--	--	--	--	13.7	1,148.0	1,161.7	1,161.7
<b>White pine:</b>												
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
<b>Lodgepole pine:</b>												
Sawtimber	--	--	--	--	1.7	1.7	--	--	--	--	71.9	71.9
Poetimber	--	--	--	.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
<b>Larch:</b>												
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
<b>True firs:</b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	1.6	1.6
Poetimber	--	--	--	--	--	--	--	--	--	--	4.9	4.9
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	6.5	6.5
<b>Fir-spruce:</b>												
Sawtimber	--	--	.3	.6	1.3	2.2	--	--	38.8	66.4	150.5	255.7
Poetimber	--	--	--	.1	.2	.3	--	--	4.4	14.2	32.9	51.5
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	1.5	1.5
Nonstocked	--	--	--	--	--	--	--	--	--	--	7.0	7.0
Total	--	--	.3	.7	1.5	2.5	--	--	43.2	80.6	191.9	315.7
<b>Other softwoods:<sup>1</sup></b>												
Sawtimber	--	--	--	--	--	--	--	--	1.9	--	13.0	14.9
Poetimber	--	--	--	--	--	--	--	--	1.0	--	23.9	24.9
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	.6	.6
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	2.9	--	37.5	40.4
<b>Aspen:</b>												
Sawtimber	--	--	--	--	.1	.1	--	4.6	9.1	4.1	45.0	62.8
Poetimber	--	--	--	--	--	--	--	--	--	--	591.3	591.3
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	110.9	110.9
Nonstocked	--	--	--	--	--	--	--	--	--	--	.4	.4
Total	--	--	--	--	.1	.1	--	4.6	9.1	4.1	747.6	765.4
<b>Other hardwoods:<sup>2</sup></b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	56.3	56.3
Poetimber	--	--	--	--	--	--	--	--	--	--	3.2	3.2
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	.3	.3
Total	--	--	--	--	--	--	--	--	--	--	59.8	59.8
<b>All forest types:</b>												
Sawtimber	--	--	.3	.6	3.1	4.0	--	4.6	47.9	148.3	1,070.2	1,271.0
Poetimber	--	--	--	.2	10.1	10.3	--	--	9.8	18.4	1,404.4	1,432.6
Sapling and seedling	--	--	--	--	.4	.4	--	--	--	--	135.9	135.9
Nonstocked	--	--	--	--	--	--	--	--	--	--	264.2	264.2
Total	--	--	.3	.8	13.6	14.7	--	4.6	57.7	166.7	2,874.7	3,103.7

Table 22.—AREA OF COMMERCIAL FOREST LAND IN NEVADA BY OWNER GROUP, FOREST TYPE, STAND-SIZE CLASS, AND SITE CLASS, 1970

Forest type and stand-size class	National Forest					Other public					Total
	165+	120-164	85-119	50-84	20-49	165+	120-164	85-119	50-84	20-49	
----- Thousand acres -----											
<b>Douglas-fir:</b>											
Sawtimber	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	2.9	2.9	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>2.9</b>	<b>2.9</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>
<b>Hemlock:</b>											
Sawtimber	--	--	--	--	1.6	1.6	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>1.6</b>	<b>1.6</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>
<b>Ponderosa pine:</b>											
Sawtimber	--	--	.8	3.5	11.1	15.4	--	--	1.0	1.7	2.7
Poletimber	--	--	--	--	.3	.3	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	.1	.1
Nonstocked	--	--	.2	1.3	2.7	4.4	--	--	--	.1	.1
<b>Total</b>	<b>--</b>	<b>--</b>	<b>.2</b>	<b>1.0</b>	<b>4.8</b>	<b>14.1</b>	<b>--</b>	<b>--</b>	<b>1.0</b>	<b>1.9</b>	<b>2.9</b>
<b>White pine:</b>											
Sawtimber	--	--	--	.6	--	.6	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>.6</b>	<b>--</b>	<b>.6</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>
<b>Lodgepole pine:</b>											
Sawtimber	--	--	--	--	1.1	1.1	--	--	.1	.1	.2
Poletimber	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>1.1</b>	<b>1.1</b>	<b>--</b>	<b>--</b>	<b>.1</b>	<b>.1</b>	<b>.2</b>
<b>Larch:</b>											
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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>True firs:</b>											
Sawtimber	--	.1	.8	.8	3.7	5.4	--	.1	.4	.4	.6
Poletimber	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	.5	.5	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>.1</b>	<b>.8</b>	<b>.8</b>	<b>4.2</b>	<b>5.9</b>	<b>--</b>	<b>.1</b>	<b>.4</b>	<b>.4</b>	<b>.6</b>
<b>Fir-spruce:</b>											
Sawtimber	--	--	--	--	10.2	10.2	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>10.2</b>	<b>10.2</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>
<b>Other softwoods:<sup>1</sup></b>											
Sawtimber	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	4.8	4.8	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>4.8</b>	<b>4.8</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>
<b>Aspen:</b>											
Sawtimber	--	--	--	--	6.5	6.5	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>6.5</b>	<b>6.5</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>
<b>Other hardwoods:<sup>2</sup></b>											
Sawtimber	--	--	--	--	.7	.7	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>.7</b>	<b>.7</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>
<b>All forest types:</b>											
Sawtimber	--	.1	1.6	4.9	34.9	41.5	--	.1	.4	1.5	2.4
Poletimber	--	--	--	--	3.2	3.2	--	--	--	--	--
Sapling and seedling	--	--	--	--	5.3	5.3	--	--	--	.1	.1
Nonstocked	--	.2	.2	1.3	2.7	4.4	--	--	--	.1	.1
<b>Total</b>	<b>--</b>	<b>.3</b>	<b>1.8</b>	<b>6.2</b>	<b>46.1</b>	<b>54.4</b>	<b>--</b>	<b>.1</b>	<b>.4</b>	<b>1.5</b>	<b>2.6</b>

<sup>1</sup>Principally whitebark-limber pine

<sup>2</sup>Principally cottonwood.

Table 22 (con.)

Forest type and stand-size class	Forest industry						Other private					
	Site class					Total	Site class					Total
	165+	120-164	85-119	50-84	20-49		165+	120-164	85-119	50-84	20-49	
----- Thousand acres -----												
<b>Douglas-fir:</b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	
Poletimber	--	--	--	--	--	--	--	--	--	--	--	
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	
Total	--	--	--	--	--	--	--	--	--	--	--	
<b>Hemlock:</b>												
Sawtimber	--	--	--	--	.1	.1	--	--	--	--	.7	
Poletimber	--	--	--	--	--	--	--	--	--	--	--	
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	
Total	--	--	--	--	.1	.1	--	--	--	--	.7	
<b>Ponderosa pine:</b>												
Sawtimber	--	--	.1	1.4	2.5	4.0	--	--	.9	10.4	15.9	
Poletimber	--	--	--	--	--	--	--	--	--	--	--	
Sapling and seedling	--	--	--	--	.3	.3	--	--	--	--	1.4	
Nonstocked	--	--	--	--	.1	.1	--	--	--	--	.7	
Total	--	--	.1	1.4	2.9	4.4	--	--	.9	10.4	18.0	
<b>White pine:</b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	
Poletimber	--	--	--	--	--	--	--	--	--	--	--	
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	
Total	--	--	--	--	--	--	--	--	--	--	--	
<b>Lodgepole pine:</b>												
Sawtimber	--	--	--	.1	.5	.6	--	--	--	.7	3.2	
Poletimber	--	--	--	--	--	--	--	--	--	--	--	
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	
Total	--	--	--	.1	.5	.6	--	--	--	.7	3.2	
<b>Larch:</b>												
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	
<b>True firs:</b>												
Sawtimber	--	.3	.7	.9	.9	2.8	--	2.2	9.0	6.9	6.9	
Poletimber	--	--	--	--	--	--	--	--	--	--	--	
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	
Nonstocked	--	--	--	--	.4	.4	--	--	--	--	1.4	
Total	--	.3	.7	.9	1.3	3.2	--	2.2	9.0	6.9	8.3	
<b>Fir-spruce:</b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	
Poletimber	--	--	--	--	--	--	--	--	--	--	--	
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	
Total	--	--	--	--	--	--	--	--	--	--	--	
<b>Other softwoods:<sup>1</sup></b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	
Poletimber	--	--	--	--	--	--	--	--	--	--	--	
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	
Total	--	--	--	--	--	--	--	--	--	--	--	
<b>Aspen:</b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	
Poletimber	--	--	--	--	--	--	--	--	--	--	--	
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	
Total	--	--	--	--	--	--	--	--	--	--	--	
<b>Other hardwoods:<sup>2</sup></b>												
Sawtimber	--	--	--	--	--	--	--	--	4	--	--	
Poletimber	--	--	--	--	--	--	--	--	--	--	--	
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	
Total	--	--	--	--	--	--	--	--	--	--	--	
<b>All Forest types:</b>												
Sawtimber	--	.3	.8	2.4	4.0	7.5	--	2.2	9.9	18.0	26.7	
Poletimber	--	--	--	--	--	--	--	--	--	--	--	
Sapling and seedling	--	--	--	--	.3	.3	--	--	--	--	1.4	
Nonstocked	--	--	--	--	.5	.5	--	--	--	--	2.1	
Total	--	.3	.8	2.4	4.8	8.3	--	2.2	9.9	18.0	30.2	

Table 23.--AREA OF COMMERCIAL FOREST LAND IN NEW MEXICO BY OWNER GROUP, FOREST TYPE, STAND-SIZE CLASS, AND SITE CLASS, 1970

Forest type and stand-size class	National Forest					Total	Other public					Total
	Site class						Site class					
	165+	120-164	85-119	50-84	20-49		165+	120-164	85-119	50-84	20-49	
----- <i>Thousand acres</i> -----												
<b>Douglas fir:</b>												
Sawtimber	--	--	22.8	167.8	294.8	485.4	--	--	--	21.2	47.2	68.4
Poletimber	--	--	--	5.8	19.2	25.0	--	--	--	--	7.8	7.8
Sapling and seedling	--	--	--	4.0	11.5	15.5	--	--	--	--	--	--
Nonstocked	--	--	--	26.3	11.0	37.3	--	--	--	--	--	--
Total	--	--	22.8	203.9	336.5	563.2	--	--	--	21.2	55.0	76.2
<b>Hemlock:</b>												
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
<b>Ponderosa pine:</b>												
Sawtimber	--	--	17.1	337.6	996.7	1,351.4	--	--	--	127.9	583.1	711.0
Poletimber	--	--	1.0	18.7	94.2	113.9	--	--	--	--	6.1	6.1
Sapling and seedling	--	--	--	13.1	115.2	128.3	--	4.4	--	4.4	4.4	13.2
Nonstocked	--	--	.2	19.5	142.4	162.1	--	--	--	--	3.3	3.3
Total	--	--	18.3	388.9	1,348.5	1,755.7	--	4.4	--	132.3	596.9	733.6
<b>White pine:</b>												
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
<b>Lodgepole pine:</b>												
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
<b>Larch:</b>												
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
<b>True firs:</b>												
Sawtimber	--	--	18.0	114.7	77.2	209.9	--	--	--	--	--	--
Poletimber	--	--	.1	13.7	9.6	23.4	--	--	--	--	--	--
Sapling and seedling	--	--	--	4.3	3.0	7.3	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	18.1	132.7	89.8	240.6	--	--	--	--	--	--
<b>Fir spruce:</b>												
Sawtimber	--	--	2.6	57.7	8.3	68.6	--	--	--	34.4	--	34.4
Poletimber	--	--	--	--	1.3	1.3	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	1.7	--	1.7	1.8	5.2
Nonstocked	--	--	--	--	25.1	25.1	--	--	--	--	--	--
Total	--	--	2.6	57.7	34.7	95.0	--	1.7	--	36.1	1.8	39.6
<b>Other softwoods:<sup>1</sup></b>												
Sawtimber	--	--	--	--	--	--	--	--	.2	1.4	3.6	5.2
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	.2	1.4	3.6	5.2
<b>Aspen:</b>												
Sawtimber	--	--	2.1	22.5	24.4	49.0	--	--	4.8	4.8	--	9.6
Poletimber	--	--	3.9	37.9	46.6	88.4	--	--	--	2.2	2.3	4.5
Sapling and seedling	--	--	2.9	2.9	10.3	16.1	--	.5	--	.5	.4	1.4
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	8.9	63.3	81.3	153.5	--	.5	4.8	7.5	2.7	15.5
<b>Other hardwoods:</b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--
<b>All forest types:</b>												
Sawtimber	--	--	62.6	700.3	1,401.4	2,164.3	--	--	5.0	189.7	633.9	828.6
Poletimber	--	--	5.0	76.1	170.9	252.0	--	--	--	2.2	16.2	18.4
Sapling and seedling	--	--	2.9	24.3	140.0	167.2	--	6.6	--	6.6	6.6	19.8
Nonstocked	--	--	.2	45.8	178.5	224.5	--	--	--	--	3.3	3.3
Total	--	--	70.7	846.5	1,890.8	2,808.0	--	6.6	5.0	198.5	660.0	870.1

<sup>1</sup>Principally limber pine.

Table 23 (con.)

Forest type and stand-size class	Forest industry					Other private						
	Site class					Site class						
	165+	120-164	85-119	50-84	20-49	Total	165+	120-164	85-119	50-84	20-49	Total
----- Thousand acres -----												
<b>Douglas-fir:</b>												
Sawtimber	--	--	--	8.3	18.6	26.9	--	--	--	105.2	234.6	339.8
Poletimber	--	--	--	--	3.7	3.7	--	--	--	--	46.3	46.3
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	8.3	22.3	30.6	--	--	--	105.2	280.9	386.1
<b>Hemlock:</b>												
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
<b>Ponderosa pine:</b>												
Sawtimber	--	--	--	12.5	57.2	69.7	--	--	--	158.3	722.0	880.3
Poletimber	--	--	--	--	2.4	2.4	--	--	--	--	30.9	30.9
Sapling and seedling	--	2.0	--	2.1	2.1	6.2	--	25.7	--	25.7	25.8	77.2
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	2.0	--	14.6	61.7	78.3	--	25.7	--	184.0	778.7	988.4
<b>White pine:</b>												
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
<b>Lodgepole pine:</b>												
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
<b>Larch:</b>												
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
<b>True firs:</b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--
<b>Fir-spruce:</b>												
Sawtimber	--	--	--	14.7	--	14.7	--	--	--	185.3	--	185.3
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	.8	--	.8	.8	2.4	--	10.3	--	10.3	10.3	30.9
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	.8	--	15.5	.8	17.1	--	10.3	--	195.6	10.3	216.2
<b>Other softwoods:<sup>1</sup></b>												
Sawtimber	--	--	.1	.7	1.6	2.4	--	--	1.0	8.5	21.4	30.9
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	.1	.7	1.6	2.4	--	--	1.0	8.5	21.4	30.9
<b>Aspen:</b>												
Sawtimber	--	--	2.7	2.8	--	5.5	--	--	53.6	53.6	--	107.2
Poletimber	--	--	--	1.2	1.2	2.4	--	--	--	23.0	22.9	45.9
Sapling and seedling	--	.3	--	.3	.2	.8	--	5.1	--	5.1	5.1	15.3
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	.3	2.7	4.3	1.4	8.7	--	5.1	53.6	81.7	28.0	168.4
<b>Other hardwoods:</b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--
<b>All forest types:</b>												
Sawtimber	--	--	2.8	39.0	77.4	119.2	--	--	54.6	510.9	978.0	1,543.5
Poletimber	--	--	--	1.2	7.3	8.5	--	--	--	23.0	100.1	123.1
Sapling and seedling	--	3.1	--	3.2	3.1	9.4	--	41.1	--	41.1	41.2	123.4
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	3.1	2.8	43.4	87.8	137.1	--	41.1	54.6	575.0	1,119.3	1,790.0

Table 24.—AREA OF COMMERCIAL FOREST LAND IN UTAH BY OWNER GROUP, FOREST TYPE, STAND-SIZE CLASS, AND SITE CLASS, 1970

Forest type and stand-size class	National Forest						Other public					
	Site class					Total	Site class					Total
	165+	120-164	85-119	50-84	20-49		165+	120-164	85-119	50-84	20-49	
----- Thousand acres -----												
<b>Douglas-fir:</b>												
Sawtimber	9.7	1.1	1.2	50.3	180.6	242.9	--	--	27.4	27.4	82.0	136.8
Poetimber	--	--	--	2.7	25.5	28.2	--	--	--	--	11.9	11.9
Sapling and seedling	--	--	--	--	2.6	2.6	--	--	--	--	17.9	17.9
Nonstocked	--	--	--	--	2.7	2.7	--	--	--	--	--	--
<b>Total</b>	<b>9.7</b>	<b>1.1</b>	<b>1.2</b>	<b>53.0</b>	<b>211.4</b>	<b>276.4</b>	<b>--</b>	<b>--</b>	<b>27.4</b>	<b>27.4</b>	<b>111.8</b>	<b>166.6</b>
<b>Hemlock:</b>												
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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Ponderosa pine:</b>												
Sawtimber	--	--	--	1.4	288.5	289.9	--	--	2.8	4.4	36.6	43.8
Poetimber	--	--	--	--	13.0	13.0	--	--	--	--	3.9	3.9
Sapling and seedling	--	--	--	--	23.8	23.8	--	--	--	--	4.2	4.2
Nonstocked	--	--	--	--	16.0	16.0	--	--	--	--	4.2	4.2
<b>Total</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>1.4</b>	<b>341.3</b>	<b>342.7</b>	<b>--</b>	<b>--</b>	<b>2.8</b>	<b>4.4</b>	<b>48.9</b>	<b>56.1</b>
<b>White pine:</b>												
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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Lodgepole pine:</b>												
Sawtimber	--	--	--	11.1	200.2	211.3	--	--	2.2	3.5	29.3	35.0
Poetimber	--	--	--	5.2	207.2	212.4	--	--	--	--	6.1	6.1
Sapling and seedling	--	--	--	--	29.5	29.5	--	--	--	--	4.8	4.8
Nonstocked	--	--	--	--	4.9	4.9	--	--	--	--	.3	.3
<b>Total</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>16.3</b>	<b>441.8</b>	<b>458.1</b>	<b>--</b>	<b>--</b>	<b>2.2</b>	<b>3.5</b>	<b>40.5</b>	<b>46.2</b>
<b>Larch:</b>												
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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>True firs:</b>												
Sawtimber	--	--	3.0	63.8	182.1	258.9	--	--	1.4	17.9	33.4	52.7
Poetimber	--	--	--	7.3	42.1	49.4	--	--	--	--	4.5	4.5
Sapling and seedling	--	--	--	4.7	1.8	6.5	--	--	--	--	6.8	6.8
Nonstocked	--	--	--	--	.6	.6	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>3.0</b>	<b>75.8</b>	<b>236.6</b>	<b>315.4</b>	<b>--</b>	<b>--</b>	<b>1.4</b>	<b>17.9</b>	<b>44.7</b>	<b>64.0</b>
<b>Fir-spruce:</b>												
Sawtimber	--	--	5.0	90.8	306.4	402.2	--	--	2.0	3.2	26.4	31.6
Poetimber	--	--	--	--	8.8	8.8	--	--	--	--	2.7	2.7
Sapling and seedling	--	--	--	--	13.6	13.6	--	--	--	--	4.1	4.1
Nonstocked	--	--	--	--	1.6	1.6	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>5.0</b>	<b>90.8</b>	<b>330.4</b>	<b>426.2</b>	<b>--</b>	<b>--</b>	<b>2.0</b>	<b>3.2</b>	<b>33.2</b>	<b>38.4</b>
<b>Other softwoods:<sup>1</sup></b>												
Sawtimber	--	--	--	--	12.9	12.9	--	--	.7	1.0	8.8	10.5
Poetimber	--	--	--	--	.7	.7	--	--	--	--	.9	.9
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	1.4	1.4
Nonstocked	--	--	--	--	.3	.3	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>13.9</b>	<b>13.9</b>	<b>--</b>	<b>--</b>	<b>.7</b>	<b>1.0</b>	<b>11.1</b>	<b>12.8</b>
<b>Aspen:</b>												
Sawtimber	--	--	--	9.2	140.8	150.0	--	--	--	--	67.4	67.4
Poetimber	--	--	--	12.1	361.9	374.0	--	--	--	--	72.7	72.7
Sapling and seedling	--	--	--	--	49.8	49.8	--	--	--	--	20.8	20.8
Nonstocked	--	--	--	--	1.3	1.3	--	--	--	--	5.2	5.2
<b>Total</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>21.3</b>	<b>553.8</b>	<b>575.1</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>166.1</b>	<b>166.1</b>
<b>Other hardwoods:</b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poetimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>
<b>All forest types:</b>												
Sawtimber	9.7	1.1	9.2	226.6	1,321.5	1,568.1	--	--	36.5	57.4	283.9	377.8
Poetimber	--	--	--	27.3	659.2	686.5	--	--	--	--	102.7	102.7
Sapling and seedling	--	--	--	4.7	121.1	125.8	--	--	--	--	60.0	60.0
Nonstocked	--	--	--	--	27.4	27.4	--	--	--	--	9.7	9.7
<b>Total</b>	<b>9.7</b>	<b>1.1</b>	<b>9.2</b>	<b>258.6</b>	<b>2,129.2</b>	<b>2,407.8</b>	<b>--</b>	<b>--</b>	<b>36.5</b>	<b>57.4</b>	<b>456.3</b>	<b>550.2</b>

<sup>1</sup>Principally limber pine.

Table 24 (con.)

Forest type and stand-size class	Forest industry					Total	Other private					
	Site class						Site class					
	165+	120-164	85-119	50-84	20-49		165+	120-164	85-119	50-84	20-49	Total
----- Thousand acres -----												
<b>Douglas fir:</b>												
Sawtimber	--	--	--	--	--	--	--	--	22.6	22.6	67.9	113.1
Poletimber	--	--	--	--	--	--	--	--	--	--	9.8	9.8
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	14.8	14.8
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	22.6	22.6	92.5	137.7
<b>Hemlock:</b>												
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
<b>Ponderosa pine:</b>												
Sawtimber	--	--	--	--	--	--	--	--	1.7	2.6	21.8	26.1
Poletimber	--	--	--	--	--	--	--	--	--	--	2.3	2.3
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	3.4	3.4
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	1.7	2.6	27.5	31.8
<b>White pine:</b>												
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
<b>Lodgepole pine:</b>												
Sawtimber	--	--	--	--	--	--	--	--	1.7	2.6	21.8	26.1
Poletimber	--	--	--	--	--	--	--	--	--	--	2.3	2.3
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	3.4	3.4
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	1.7	2.6	27.5	31.8
<b>Larch:</b>												
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
<b>True firs:</b>												
Sawtimber	--	--	--	--	--	--	--	--	1.1	14.8	27.6	43.5
Poletimber	--	--	--	--	--	--	--	--	--	--	3.8	3.8
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	5.7	5.7
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	1.1	14.8	37.1	53.0
<b>Fir-spruce:</b>												
Sawtimber	--	--	--	--	--	--	--	--	1.7	2.6	21.8	26.1
Poletimber	--	--	--	--	--	--	--	--	--	--	2.3	2.3
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	3.4	3.4
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	1.7	2.6	27.5	31.8
<b>Other softwoods:<sup>1</sup></b>												
Sawtimber	--	--	--	--	--	--	--	--	.6	.9	7.2	8.7
Poletimber	--	--	--	--	--	--	--	--	--	--	.8	.8
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	1.1	1.1
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	.6	.9	9.1	10.6
<b>Aspen:</b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	148.0	148.0
Poletimber	--	--	--	--	--	--	--	--	--	--	159.2	159.2
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	45.5	45.5
Nonstocked	--	--	--	--	--	--	--	--	--	--	11.4	11.4
Total	--	--	--	--	--	--	--	--	--	--	364.1	364.1
<b>Other hardwoods:</b>												
Sawtimber	--	--	--	--	--	--	--	--	--	--	--	--
Poletimber	--	--	--	--	--	--	--	--	--	--	--	--
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	--	--
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--
<b>All forest types:</b>												
Sawtimber	--	--	--	--	--	--	--	--	29.4	46.1	316.1	391.6
Poletimber	--	--	--	--	--	--	--	--	--	--	180.5	180.5
Sapling and seedling	--	--	--	--	--	--	--	--	--	--	77.3	77.3
Nonstocked	--	--	--	--	--	--	--	--	--	--	11.4	11.4
Total	--	--	--	--	--	--	--	--	29.4	46.1	585.3	660.8

Table 25.--NET VOLUME OF GROWING STOCK AND SAWTIMBER ON COMMERCIAL FOREST LAND IN THE ROCKY MOUNTAIN STATES  
BY SOFTWOODS AND HARDWOODS AND OWNER GROUP, 1970

State	: All owner : National : Other : Forest : Other					: All owner : National : Other : Forest : Other				
	: groups	: Forest	: public	: industry	: private	: groups	: Forest	: public	: industry	: private
----- Million cubic feet growing stock ----- Million board feet sawtimber <sup>1</sup> -----										
North. Rocky Mountain States:										
North Idaho:										
Softwoods	17,845.4	9,294.5	2,433.7	2,635.7	3,481.5	80,364.7	43,823.7	10,559.5	11,970.7	14,010.8
Hardwoods	113.2	36.2	5.0	15.6	56.4	276.5	114.5	--	42.1	119.9
All species	17,958.6	9,330.7	2,438.7	2,651.3	3,537.9	80,641.2	43,938.2	10,559.5	12,012.8	14,130.7
South Idaho:										
Softwoods	11,412.3	9,890.6	833.6	276.9	411.2	50,621.6	43,542.6	3,865.7	1,319.7	1,893.6
Hardwoods	126.4	48.2	43.7	12.1	22.4	403.1	102.1	164.5	55.0	81.5
All species	11,538.7	9,938.8	877.3	289.0	433.6	51,024.7	43,644.7	4,030.2	1,374.7	1,975.1
Western Montana:										
Softwoods	19,372.3	13,012.4	1,619.7	2,087.7	2,652.5	72,376.8	46,287.8	6,355.9	9,500.2	10,232.9
Hardwoods	77.7	28.3	7.6	6.1	35.7	230.5	72.5	29.6	20.8	107.6
All species	19,450.0	13,040.7	1,627.3	2,093.8	2,688.2	72,607.3	46,360.3	6,385.5	9,521.0	10,340.5
Eastern Montana:										
Softwoods	9,004.0	5,762.9	923.7	9.3	2,308.1	28,548.8	18,460.8	2,863.1	26.2	7,198.7
Hardwoods	196.0	4.8	54.1	--	137.1	862.1	9.1	241.0	--	612.0
All species	9,200.0	5,767.7	977.8	9.3	2,445.2	29,410.9	18,469.9	3,104.1	26.2	7,810.7
Western S. Dakota:										
Softwoods	1,001.1	753.7	55.4	11.8	180.2	3,434.7	2,624.7	194.7	38.4	576.9
Hardwoods	6.2	--	1.0	.3	4.9	9.0	--	1.4	.4	7.2
All species	1,007.3	753.7	56.4	12.1	185.1	3,443.7	2,624.7	196.1	38.8	584.1
Wyoming:										
Softwoods	4,471.2	3,077.0	576.4	60.7	757.1	16,040.4	11,325.4	1,951.7	220.0	2,543.3
Hardwoods	201.9	51.2	57.8	3.4	89.5	324.6	33.6	110.9	2.7	177.4
All species	4,673.1	3,128.2	634.2	64.1	846.6	16,365.0	11,359.0	2,062.6	222.7	2,720.7
Total Northern Rocky Mountain States:										
Softwoods	63,106.3	41,791.1	6,442.5	5,082.1	9,790.6	251,387.0	166,065.0	25,790.6	23,075.2	36,456.2
Hardwoods	721.4	168.7	169.2	37.5	346.0	2,105.8	331.8	547.4	121.0	1,105.6
All species	63,827.7	41,959.8	6,611.7	5,119.6	10,136.6	253,492.8	166,396.8	26,338.0	23,196.2	37,561.8
South. Rocky Mountain States:										
Arizona:										
Softwoods	4,583.8	3,028.9	1,449.3	--	105.6	20,902.7	13,816.7	6,727.2	--	358.8
Hardwoods	226.1	139.2	47.8	--	39.1	678.7	454.7	99.7	--	124.3
All species	4,809.9	3,168.1	1,497.1	--	144.7	21,581.4	14,271.4	6,826.9	--	483.1
Colorado:										
Softwoods	10,360.0	7,222.2	712.8	21.4	2,403.6	42,633.6	31,434.6	2,567.7	74.5	8,556.8
Hardwoods	1,907.1	1,132.2	149.9	.4	624.6	3,442.5	2,206.5	280.2	.8	955.0
All species	12,267.1	8,354.4	862.7	21.8	3,028.2	46,076.1	33,641.1	2,847.9	75.3	9,511.8
Nevada:										
Softwoods	237.4	74.0	9.0	15.5	138.9	1,319.5	373.5	51.1	86.3	808.6
Hardwoods	12.8	12.8	--	--	--	24.4	24.4	--	--	--
All species	250.2	86.8	9.0	15.5	138.9	1,343.9	397.9	51.1	86.3	808.6
New Mexico:										
Softwoods	5,735.2	2,810.8	1,346.8	112.9	1,464.7	24,054.6	12,181.6	5,876.5	430.3	5,566.2
Hardwoods	600.9	242.1	31.8	17.0	310.0	1,774.4	464.4	95.1	52.2	962.7
All species	6,336.1	3,052.9	1,378.6	129.9	1,774.7	25,829.0	12,646.0	5,971.6	482.5	6,528.9
Utah:										
Softwoods	3,689.1	2,935.2	411.7	--	342.2	14,809.1	11,710.1	1,685.9	--	1,413.1
Hardwoods	1,038.7	604.6	145.3	--	288.8	1,476.0	1,052.0	133.1	--	290.9
All species	4,727.8	3,539.8	557.0	--	631.0	16,285.1	12,762.1	1,819.0	--	1,704.0
Total Southern Rocky Mountain States:										
Softwoods	24,605.5	16,071.1	3,929.6	149.8	4,455.0	103,719.5	69,516.5	16,908.4	591.1	16,703.5
Hardwoods	3,785.6	2,130.9	374.8	17.4	1,262.5	7,196.0	4,202.0	608.1	53.0	2,332.9
All species	28,391.1	18,202.0	4,304.4	167.2	5,717.5	110,915.5	73,718.5	17,516.5	644.1	19,036.4
Total all Rocky Mountain States:										
Softwoods	87,711.8	57,862.2	10,372.1	5,231.9	14,245.6	355,106.5	235,581.5	42,699.0	23,666.3	53,159.7
Hardwoods	4,507.0	2,299.6	544.0	54.9	1,608.5	9,301.8	4,533.8	1,155.5	174.0	3,438.5
All species	92,218.8	60,161.8	10,916.1	5,286.8	15,854.1	364,408.3	240,115.3	43,854.5	23,840.3	56,598.2

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



Table 26. --NET VOLUME OF TIMBER ON COMMERCIAL FOREST LAND IN THE ROCKY MOUNTAIN STATES  
BY TIMBER CLASS AND SOFTWOODS AND HARDWOODS, 1970

State	All timber classes			Growing stock			Sound cull trees			Rotten cull trees			Salvable dead trees		
	All	Soft-	Hard-	All	Soft-	Hard-	All	Hard-	Soft-	All	Soft-	Hard-	All	Soft-	Hard-
	species	woods	woods	species	woods	woods	species	woods	woods	species	woods	woods	species	woods	woods
----- Million cubic feet -----															
North. Rocky Mt. States:															
North Idaho	19,443.7	19,296.5	147.2	17,958.6	17,845.4	113.2	436.4	410.5	25.9	456.7	451.5	5.2	592.0	589.1	2.9
South Idaho	12,119.8	11,937.9	181.9	11,538.7	11,412.3	126.4	135.6	111.3	24.3	97.5	74.3	23.2	348.0	340.0	8.0
West. Montana	22,357.1	22,260.3	96.8	19,450.0	19,372.3	77.7	399.1	384.4	14.7	481.4	478.2	3.2	2,026.6	2,025.4	1.2
East. Montana	10,824.8	10,601.5	223.3	9,200.0	9,004.0	196.0	447.2	438.7	8.5	203.5	193.9	9.6	974.1	964.9	9.2
West. S. Dakota	1,060.1	1,052.2	7.9	1,007.3	1,001.1	6.2	2.1	1.1	1.0	3.7	3.0	.7	47.0	47.0	--
Wyoming	5,412.5	5,161.2	251.3	4,673.1	4,471.2	201.9	86.7	82.4	4.3	75.6	55.5	20.1	577.1	552.1	25.0
Total North. Rocky Mt. States:	<u>71,218.0</u>	<u>70,309.6</u>	<u>908.4</u>	<u>63,827.7</u>	<u>63,106.3</u>	<u>721.4</u>	<u>1,507.1</u>	<u>1,428.4</u>	<u>78.7</u>	<u>1,318.4</u>	<u>1,256.4</u>	<u>62.0</u>	<u>4,564.8</u>	<u>4,518.5</u>	<u>46.3</u>
South. Rocky Mt. States:															
Arizona	5,218.5	4,861.7	356.8	4,809.9	4,583.8	226.1	199.4	132.1	67.3	75.8	17.0	58.8	133.4	128.8	4.6
Colorado	14,942.1	12,059.6	2,882.5	12,267.1	10,360.0	1,907.1	317.5	246.0	71.5	1,016.8	243.1	773.7	1,340.7	1,210.5	130.2
Nevada	278.4	254.4	24.0	250.2	237.4	12.8	6.3	4.4	1.9	11.5	3.6	7.9	10.4	9.0	1.4
New Mexico	7,183.0	6,324.3	858.7	6,336.1	5,735.2	600.9	351.8	253.9	97.9	148.6	36.2	112.4	346.5	299.0	47.5
Utah	5,397.1	4,021.3	1,375.8	4,727.8	3,689.1	1,038.7	141.8	60.5	81.3	223.6	31.6	192.0	303.9	240.1	63.8
Total South. Rocky Mt. States:	<u>33,019.1</u>	<u>27,521.3</u>	<u>5,497.8</u>	<u>28,391.1</u>	<u>24,605.5</u>	<u>3,785.6</u>	<u>1,016.8</u>	<u>696.9</u>	<u>319.9</u>	<u>1,476.3</u>	<u>331.5</u>	<u>1,144.8</u>	<u>2,134.9</u>	<u>1,887.4</u>	<u>247.5</u>
Total all Rocky Mt. States:	<u>104,237.1</u>	<u>97,830.9</u>	<u>6,406.2</u>	<u>92,218.8</u>	<u>87,711.8</u>	<u>4,507.0</u>	<u>2,523.9</u>	<u>2,125.3</u>	<u>398.6</u>	<u>2,794.7</u>	<u>1,587.9</u>	<u>1,206.8</u>	<u>6,699.7</u>	<u>6,405.9</u>	<u>293.8</u>

Table 27.--NET VOLUME OF GROWING STOCK ON COMMERCIAL FOREST LAND IN THE NORTHERN  
ROCKY MOUNTAIN STATES BY DIAMETER CLASS AND SPECIES, 1970

State; diam. class (inches)	Total all species	Total softwoods	Douglas- fir	Ponderosa pine	Lodgepole pine	Western white pine	Engelmann spruce	True firs	Western larch	Western redcedar	Hemlock	Other softwoods	Total all hardwoods	Aspen	Other hardwoods
----- Million cubic feet -----															
North Idaho															
5.0-6.9	1,350.4	1,316.1	277.8	42.9	418.1	69.4	38.4	208.6	136.3	79.2	45.4	( <sup>1</sup> )	34.3	1.5	32.8
7.0-8.9	1,883.3	1,862.3	409.9	68.6	479.4	135.5	74.6	312.3	205.3	97.3	79.2	0.2	21.0	--	21.0
9.0-10.9	2,018.6	2,004.0	477.8	114.3	360.4	155.5	76.1	392.3	189.8	134.1	102.6	1.1	14.6	--	14.6
11.0-12.9	1,997.6	1,987.8	465.4	138.4	238.8	211.9	96.1	404.5	179.5	143.0	108.9	1.3	9.8	--	9.8
13.0-14.9	1,846.2	1,839.4	440.3	147.6	123.8	180.7	100.9	432.9	158.4	167.4	85.6	1.8	6.8	--	6.8
15.0-16.9	1,675.1	1,670.6	384.6	124.7	53.2	211.5	102.0	418.6	136.0	163.7	74.8	1.5	4.5	--	4.5
17.0-18.9	1,458.0	1,455.7	318.2	112.9	40.2	188.5	99.5	365.1	109.1	154.2	67.9	.1	2.3	--	2.3
19.0-20.9	1,212.5	1,209.3	255.2	82.1	18.9	199.2	72.5	314.9	70.3	143.2	48.8	4.7	3.2	--	3.2
21.0-22.9	1,044.0	1,040.7	205.9	59.1	12.3	174.1	65.0	280.4	83.0	121.8	38.0	1.1	3.3	--	3.3
23.0-24.9	876.9	874.6	156.3	41.0	8.4	143.5	64.0	260.0	63.1	104.3	34.0	( <sup>1</sup> )	2.3	--	2.3
25.0-26.9	745.0	742.6	127.9	31.9	1.0	119.1	54.0	236.1	43.2	93.4	36.0	( <sup>1</sup> )	2.4	--	2.4
27.0-28.9	609.3	608.0	102.2	23.3	( <sup>1</sup> )	105.8	44.2	189.7	28.2	83.6	31.0	( <sup>1</sup> )	1.3	--	1.3
29.0+	1,241.7	1,234.3	168.1	85.2	--	232.8	99.0	326.9	69.3	195.9	56.3	.8	7.4	--	7.4
Total	17,958.6	17,845.4	3,789.6	1,072.0	1,754.5	2,127.5	986.3	4,142.3	1,471.5	1,681.1	808.5	12.1	113.2	1.5	111.7

<sup>1</sup>Less than 0.05 million cubic feet.

Table 28.--NET VOLUME OF SAWTIMBER ON COMMERCIAL FOREST LAND IN THE NORTHERN  
ROCKY MOUNTAIN STATES BY DIAMETER CLASS AND SPECIES, 1970

State; diam. class (inches)	Total all species	Total softwoods	Douglas- fir	Ponderosa pine	Lodgepole pine	Western white pine	Engelmann spruce	True firs	Western larch	Western redcedar	Hemlock	Other softwoods	Total all hardwoods	Aspen	Other hardwoods
----- Million board feet, International 1/4-inch rule -----															
North Idaho															
9.0-10.9	9,675.3	9,675.3	2,226.7	414.6	1,795.8	827.0	380.0	1,875.3	1,073.9	642.6	433.0	6.4	0	0	0
11.0-12.9	10,365.5	10,307.3	2,327.6	623.6	1,307.0	1,163.7	535.7	2,089.1	1,034.9	689.5	529.4	6.8	58.2	--	58.2
13.0-14.9	9,679.9	9,641.2	2,251.7	731.9	678.6	998.5	563.7	2,267.9	901.3	810.2	428.1	9.3	38.7	--	38.7
15.0-16.9	9,207.5	9,179.7	2,100.8	672.3	297.6	1,224.3	583.2	2,268.5	801.8	815.7	408.2	7.3	27.8	--	27.8
17.0-18.9	8,080.1	8,065.4	1,757.3	630.0	223.0	1,095.7	567.0	1,996.4	642.1	778.9	374.7	.3	14.7	--	14.7
19.0-20.9	6,958.5	6,938.4	1,517.8	483.3	107.5	1,164.6	436.6	1,767.7	432.4	727.8	281.2	19.5	20.1	--	20.1
21.0-22.9	6,055.7	6,034.6	1,253.6	319.5	68.4	1,036.8	398.9	1,586.0	521.6	619.7	224.6	5.5	21.1	--	21.1
23.0-24.9	5,152.5	5,137.7	955.2	241.0	47.6	865.4	395.7	1,483.3	398.1	546.4	205.0	( <sup>1</sup> )	14.8	--	14.8
25.0-26.9	4,410.5	4,393.7	786.9	192.5	5.1	726.6	336.2	1,360.5	274.6	495.9	215.4	( <sup>1</sup> )	16.8	--	16.8
27.0-28.9	3,642.6	3,633.6	633.1	145.6	( <sup>1</sup> )	650.7	275.6	1,109.3	180.0	447.1	192.2	( <sup>1</sup> )	9.0	--	9.0
29.0+	7,413.1	7,357.8	1,046.6	560.2	--	1,417.2	623.3	1,895.1	446.1	1,037.3	327.7	4.3	55.3	--	55.3
Total	80,641.2	80,364.7	16,857.3	5,014.5	4,530.6	11,170.5	5,095.9	19,699.1	6,706.8	7,611.1	3,619.5	59.4	276.5	--	276.5

<sup>1</sup>Less than 0.05 million board feet.

Table 29. --NET VOLUME OF GROWING STOCK ON COMMERCIAL FOREST LAND IN THE NORTHERN  
ROCKY MOUNTAIN STATES BY DIAMETER CLASS AND SPECIES, 1970

State: diam. : class (inches):	Total all species:	Total softwoods:	Douglas: fir	Ponderosa: pine	Lodgepole: pine	Western white pine:	Engelmann: spruce	True firs	Western: larch	Western: redcedar:	Hemlock	Other softwoods:	Total all: hardwoods:	Aspen	Other hardwoods
<i>Million cubic feet</i>															
South Idaho															
5.0-6.9	1,033.8	1,022.3	173.8	17.3	560.7	--	31.1	210.5	.3	0	--	28.6	11.5	11.3	0.2
7.0-8.9	1,174.0	1,159.3	263.8	42.5	561.5	--	46.7	213.0	1.6	0	--	30.2	14.7	14.0	.7
9.0-10.9	1,193.4	1,172.3	274.5	54.3	502.7	--	74.7	241.2	1.7	0	--	23.2	21.1	16.4	4.7
11.0-12.9	1,058.1	1,034.7	319.7	66.3	337.1	--	80.3	211.4	4.6	0	--	15.3	23.4	15.4	8.0
13.0-14.9	951.7	933.9	359.2	88.2	185.9	--	90.8	191.2	4.3	0	--	14.3	17.8	7.4	10.4
15.0-16.9	888.3	878.4	386.3	79.6	104.7	--	114.1	173.4	10.0	0	--	10.3	9.9	1.1	8.8
17.0-18.9	762.5	754.6	361.2	79.6	51.8	--	114.5	134.2	3.5	0	--	9.8	7.9	.6	7.3
19.0-20.9	693.1	687.1	350.0	78.6	30.0	--	104.1	111.9	7.2	0	--	5.3	6.0	.2	5.8
21.0-22.9	621.4	616.9	313.8	106.4	11.3	--	98.7	75.7	5.0	0	--	6.0	4.5	--	4.5
23.0-24.9	554.4	551.2	267.3	109.2	6.0	--	97.4	63.5	3.2	0	--	4.6	3.2	--	3.2
25.0-26.9	500.1	497.6	240.6	128.3	3.6	--	77.6	41.6	3.1	0	--	2.8	2.5	--	2.5
27.0-28.9	410.6	408.8	196.6	120.7	2.1	--	53.5	29.2	3.6	0	--	3.1	1.8	--	1.8
29.0+	1,697.3	1,695.2	684.9	712.4	.8	--	177.7	103.2	8.8	0	--	7.4	2.1	.7	1.4
Total	11,538.7	11,412.3	4,191.7	1,683.4	2,358.2	--	1,161.2	1,800.0	56.9	0	--	160.9	126.4	67.1	59.3

Table 30. --NET VOLUME OF SAWTIMBER ON COMMERCIAL FOREST LAND IN THE NORTHERN  
ROCKY MOUNTAIN STATES BY DIAMETER CLASS AND SPECIES, 1970

State: diam. : class (inches):	Total all species:	Total softwoods:	Douglas: fir	Ponderosa: pine	Lodgepole: pine	Western white pine:	Engelmann: spruce	True firs	Western: larch	Western: redcedar:	Hemlock	Other softwoods:	Total all: hardwoods:	Aspen	Other hardwoods
<i>Million board feet, International 1/4-inch rule</i>															
South Idaho															
9.0-10.9	5,822.6	5,822.6	1,177.9	175.6	2,812.2	--	376.6	1,148.6	10.0	0	--	121.7	0	0	0
11.0-12.9	5,566.6	5,454.5	1,592.2	292.0	1,924.1	--	431.2	1,102.1	27.0	0	--	85.9	112.1	73.0	39.1
13.0-14.9	5,070.8	4,984.7	1,857.1	444.5	1,067.2	--	492.8	1,015.9	25.9	0	--	81.3	86.1	33.1	53.0
15.0-16.9	4,785.3	4,732.7	2,033.5	425.1	600.7	--	620.7	935.3	58.9	0	--	58.5	52.6	4.8	47.8
17.0-18.9	4,166.2	4,124.2	1,945.1	439.4	302.9	--	621.7	738.9	21.3	0	--	54.9	42.0	2.5	39.5
19.0-20.9	3,810.2	3,777.6	1,894.6	453.4	172.0	--	563.8	618.9	44.8	0	--	30.1	32.6	.8	31.8
21.0-22.9	3,575.5	3,551.0	1,790.7	626.3	65.0	--	566.0	437.3	31.4	0	--	34.3	24.5	--	24.5
23.0-24.9	3,187.3	3,169.3	1,522.2	635.5	34.9	--	558.9	370.2	21.2	0	--	26.4	18.0	--	18.0
25.0-26.9	2,870.3	2,855.9	1,369.7	737.5	21.6	--	445.0	246.1	19.8	0	--	16.2	14.4	--	14.4
27.0-28.9	2,351.4	2,341.4	1,115.7	694.9	12.1	--	304.3	173.5	23.3	0	--	17.6	10.0	--	10.0
29.0+	9,818.5	9,807.7	3,864.2	4,215.7	4.9	--	1,004.9	620.3	56.4	0	--	41.3	10.8	2.8	8.0
Total	51,024.7	50,621.6	20,162.9	9,139.9	7,017.6	--	5,985.9	7,407.1	340.0	0	--	568.2	403.1	117.0	286.1

Table 31.--NET VOLUME OF GROWING STOCK ON COMMERCIAL FOREST LAND IN THE NORTHERN  
ROCKY MOUNTAIN STATES BY DIAMETER CLASS AND SPECIES, 1970

State; diam. class (inches)	Total all species	Total softwoods	Douglas- fir	Ponderosa- pine	Lodgepole- pine	Western white pine	Engelmann- spruce	True firs	Western: larch	Western: redcedar	Hemlock	Other softwoods	Total all: hardwoods	Aspen	Other hardwoods
----- Million cubic feet -----															
Western Montana															
5.0-6.9	2,613.4	2,601.3	401.5	31.6	1,534.0	14.5	98.7	292.2	163.1	25.7	16.5	23.5	12.1	6.5	5.6
7.0-8.9	3,117.2	3,105.1	552.9	88.9	1,620.0	22.7	165.5	355.5	201.2	25.3	25.7	47.4	12.1	6.7	5.4
9.0-10.9	2,838.1	2,830.3	612.0	107.0	1,235.9	34.7	177.6	325.6	214.4	24.1	31.2	67.8	7.8	4.0	3.8
11.0-12.9	2,341.1	2,331.8	689.0	164.2	657.6	45.7	189.9	260.1	219.4	24.8	30.3	50.8	9.3	4.4	4.9
13.0-14.9	1,897.8	1,891.0	669.8	177.7	284.8	35.4	195.8	226.1	220.2	18.6	31.0	31.6	6.8	1.7	5.1
15.0-16.9	1,499.5	1,490.3	557.6	173.2	102.8	36.0	193.5	124.8	227.0	21.2	29.1	25.1	9.2	.9	8.3
17.0-18.9	1,253.7	1,247.1	470.2	154.0	29.6	34.7	171.0	94.4	226.5	22.7	30.9	13.1	6.6	1.1	5.5
19.0-20.9	1,023.0	1,021.1	383.8	143.8	8.3	30.1	131.3	61.0	206.8	20.8	26.2	9.0	1.9	.3	1.6
21.0-22.9	821.1	812.6	287.7	131.0	5.1	21.6	98.5	37.4	180.9	16.1	23.5	10.8	8.5	--	8.5
23.0-24.9	547.5	545.2	181.7	87.0	3.0	18.6	64.6	19.6	132.4	12.5	19.3	6.5	2.3	( <sup>1</sup> )	2.3
25.0-26.9	428.6	428.1	130.3	82.8	.1	16.5	44.3	9.8	116.6	9.9	16.8	1.0	.5	--	.5
27.0-28.9	336.5	336.5	90.3	73.5	.1	12.1	40.6	7.2	89.6	6.9	12.5	3.7	--	--	--
29.0+	732.5	731.9	147.8	145.5	--	29.2	112.6	2.7	228.2	42.2	20.2	3.5	.6	--	.6
Total	19,450.0	19,372.3	5,174.6	1,560.2	5,481.3	351.8	1,683.9	1,816.4	2,426.3	270.8	313.2	293.8	77.7	25.6	52.1

<sup>1</sup>Less than 0.05 million cubic feet.

Table 32.--NET VOLUME OF SAWTIMBER ON COMMERCIAL FOREST LAND IN THE NORTHERN  
ROCKY MOUNTAIN STATES BY DIAMETER CLASS AND SPECIES, 1970

State; diam. class (inches)	Total all species	Total softwoods	Douglas- fir	Ponderosa- pine	Lodgepole- pine	Western white pine	Engelmann- spruce	True firs	Western: larch	Western: redcedar	Hemlock	Other softwoods	Total all: hardwoods	Aspen	Other hardwoods
----- Million board feet, International 1/4-inch rule -----															
Western Montana															
9.0-10.9	12,659.6	12,659.6	2,395.2	361.1	5,738.4	164.1	869.0	1,509.7	1,105.5	106.0	115.7	294.9	0	0	0
11.0-12.9	11,313.0	11,268.4	3,201.2	713.3	3,221.2	229.8	988.7	1,260.1	1,148.8	117.5	136.0	251.8	44.6	20.7	23.9
13.0-14.9	9,993.3	9,959.9	3,445.9	990.8	1,474.7	183.1	1,069.6	1,171.2	1,226.6	93.5	144.7	159.8	33.4	8.4	25.0
15.0-16.9	8,299.4	8,253.1	3,057.8	1,010.2	560.0	206.8	1,076.8	656.4	1,293.2	111.4	148.2	132.3	46.3	4.4	41.9
17.0-18.9	7,152.0	7,118.9	2,651.5	939.8	166.9	198.4	958.7	516.9	1,339.4	117.2	161.3	68.8	33.1	5.3	27.8
19.0-20.9	5,958.9	5,947.4	2,213.0	929.2	43.8	174.9	729.0	337.6	1,219.5	111.2	143.7	45.5	11.5	2.0	9.5
21.0-22.9	4,838.6	4,796.2	1,717.2	796.5	30.0	126.6	549.0	208.8	1,093.0	87.9	129.4	57.8	42.4	--	42.4
23.0-24.9	3,229.7	3,217.4	1,071.6	536.5	16.3	108.3	372.5	111.9	787.9	68.7	109.0	34.7	12.3	.2	12.1
25.0-26.9	2,565.0	2,561.7	770.2	528.1	.6	96.1	269.9	56.5	684.4	55.4	96.0	4.5	3.3	--	3.3
27.0-28.9	2,027.0	2,027.0	535.3	478.5	.2	71.8	249.9	40.4	520.1	37.3	73.3	20.2	--	--	--
29.0+	4,570.8	4,567.2	908.8	994.0	--	172.2	738.9	15.3	1,370.2	235.8	115.2	16.8	3.6	--	3.6
Total	72,607.3	72,376.8	21,967.7	8,278.0	11,252.1	1,732.1	7,872.0	5,884.8	11,788.6	1,141.9	1,372.5	1,087.1	230.5	41.0	189.5

Table 33.--NET VOLUME OF GROWING STOCK ON COMMERCIAL FOREST LAND IN THE NORTHERN  
ROCKY MOUNTAIN STATES BY DIAMETER CLASS AND SPECIES, 1970

State; diam. : class (inches):	Total all species:	Total softwoods:	Douglas- fir	Ponderosa : pine	Lodgepole: : pine	Western : white pine	Engelmann: : spruce	True : firs	Western: : larch	Western : : redcedar	Hemlock	Other : softwoods:	Total all: : hardwoods:	Aspen : hardwoods	Other : hardwoods
<i>Million cubic feet</i>															
Eastern Montana															
5.0-6.9	1,390.6	1,387.3	233.4	90.8	876.4	0	21.4	116.4	0	0	--	48.9	3.3	3.0	.3
7.0-8.9	1,827.0	1,816.6	328.2	92.2	1,076.0	0	94.8	173.4	0	0	--	52.0	10.4	8.2	2.2
9.0-10.9	1,602.1	1,585.3	357.0	126.6	870.1	0	90.4	96.6	0	0	--	44.6	16.8	8.2	8.6
11.0-12.9	1,254.3	1,232.1	313.0	135.5	586.4	0	95.8	67.8	0	0	--	33.6	22.2	4.5	17.7
13.0-14.9	983.6	959.7	320.7	97.5	364.5	0	106.0	53.9	0	0	--	17.1	23.9	--	23.9
15.0-16.9	683.3	658.9	263.7	95.2	172.1	0	94.0	21.8	0	0	--	12.1	24.4	1.1	23.3
17.0-18.9	464.8	442.1	214.7	64.2	67.5	0	80.4	10.8	0	0	--	4.5	22.7	--	22.7
19.0-20.9	315.1	295.0	166.6	41.3	31.8	0	49.1	3.2	0	0	--	3.0	20.1	.8	19.3
21.0-22.9	222.9	205.7	123.1	28.4	10.8	0	39.6	2.4	0	0	--	1.4	17.2	--	17.2
23.0-24.9	159.1	144.9	89.1	14.8	7.2	0	32.8	.4	0	0	--	.6	14.2	--	14.2
25.0-26.9	110.2	99.0	53.2	10.8	--	0	34.3	.1	0	0	--	.6	11.2	--	11.2
27.0-28.9	70.3	61.8	29.2	13.7	--	0	18.7	.1	0	0	--	.1	8.5	--	8.5
29.0+	116.7	115.6	71.5	5.8	--	0	37.5	.2	0	0	--	.6	1.1	--	1.1
Total	9,200.0	9,004.0	2,563.4	816.8	4,062.8	0	794.8	547.1	0	0	--	219.1	196.0	25.8	170.2

Table 34.--NET VOLUME OF SAWTIMBER ON COMMERCIAL FOREST LAND IN THE NORTHERN  
ROCKY MOUNTAIN STATES BY DIAMETER CLASS AND SPECIES, 1970

State; diam. : class (inches):	Total all species:	Total softwoods:	Douglas- fir	Ponderosa : pine	Lodgepole: : pine	Western : white pine	Engelmann: : spruce	True : firs	Western: : larch	Western : : redcedar	Hemlock	Other : softwoods:	Total all: : hardwoods:	Aspen : hardwoods	Other : hardwoods
<i>Million board feet, International 1/4-inch rule</i>															
Eastern Montana															
9.0-10.9	6,925.7	6,925.7	1,310.4	348.0	4,251.5	0	421.8	407.9	0	0	--	186.1	0	0	0
11.0-12.9	5,880.5	5,768.3	1,354.3	488.0	2,994.6	0	480.0	308.7	0	0	--	142.7	112.2	23.3	88.9
13.0-14.9	4,905.7	4,782.6	1,506.6	415.6	1,972.4	0	556.6	256.1	0	0	--	75.3	123.1	--	123.1
15.0-16.9	3,535.3	3,410.0	1,343.0	449.5	948.7	0	509.0	107.4	0	0	--	52.4	125.3	5.5	119.8
17.0-18.9	2,498.2	2,379.9	1,148.6	322.3	376.9	0	460.7	51.7	0	0	--	19.7	118.3	--	118.3
19.0-20.9	1,746.8	1,641.5	932.0	214.7	177.7	0	290.0	14.8	0	0	--	12.3	105.3	4.3	101.0
21.0-22.9	1,257.3	1,166.0	710.7	144.5	62.8	0	229.9	11.4	0	0	--	6.7	91.3	--	91.3
23.0-24.9	907.3	832.0	514.4	75.6	40.8	0	196.5	2.1	0	0	--	2.6	75.3	--	75.3
25.0-26.9	630.4	571.2	308.1	53.4	--	0	206.2	.8	0	0	--	2.7	59.2	--	59.2
27.0-28.9	406.0	359.9	172.1	67.5	--	0	119.4	.5	0	0	--	.4	46.1	--	46.1
29.0+	717.7	711.7	427.5	33.5	--	0	248.0	1.0	0	0	--	1.7	6.0	--	6.0
Total	29,410.9	28,548.8	9,727.7	2,612.6	10,825.4	0	3,718.1	1,162.4	0	0	--	502.6	862.1	33.1	829.0

Table 35.--NET VOLUME OF GROWING STOCK ON COMMERCIAL FOREST LAND IN THE NORTHERN ROCKY MOUNTAIN STATES BY DIAMETER CLASS AND SPECIES, 1970

State; diam. class (inches)	Total all species	Total softwoods	Douglas fir	Ponderosa pine	Lodgepole pine	Western white pine	White spruce	True firs	Western larch	Western redcedar	Hemlock	Other softwoods	Total all hardwoods	Aspen	Other hardwoods
----- Million cubic feet -----															
Western															
S. Dakota															
5.0-6.9	133.9	131.3	0	128.5	--	0	2.8	0	0	0	0	0	2.6	--	2.6
7.0-8.9	177.0	175.9	0	170.8	--	0	5.1	0	0	0	0	0	1.1	--	1.1
9.0-10.9	148.4	147.4	0	143.1	--	0	4.3	0	0	0	0	0	1.0	--	1.0
11.0-12.9	151.7	150.2	0	144.0	--	0	6.2	0	0	0	0	0	1.5	--	1.5
13.0-14.9	131.1	131.1	0	122.4	--	0	8.7	0	0	0	0	0	--	--	--
15.0-16.9	102.2	102.2	0	95.8	--	0	6.4	0	0	0	0	0	--	--	--
17.0-18.9	72.2	72.2	0	69.1	--	0	3.1	0	0	0	0	0	--	--	--
19.0-20.9	42.6	42.6	0	39.7	--	0	2.9	0	0	0	0	0	--	--	--
21.0-22.9	24.6	24.6	0	20.4	--	0	4.2	0	0	0	0	0	--	--	--
23.0-24.9	12.8	12.8	0	10.8	--	0	2.0	0	0	0	0	0	--	--	--
25.0-26.9	7.9	7.9	0	7.9	--	0	--	0	0	0	0	0	--	--	--
27.0-28.9	2.6	2.6	0	2.6	--	0	--	0	0	0	0	0	--	--	--
29.0+	.3	.3	0	.3	--	0	--	0	0	0	0	0	--	--	--
Total	1,007.3	1,001.1	0	955.4	--	0	45.7	0	0	0	0	0	6.2	--	6.2

Table 36.--NET VOLUME OF SAWTIMBER ON COMMERCIAL FOREST LAND IN THE NORTHERN ROCKY MOUNTAIN STATES BY DIAMETER CLASS AND SPECIES, 1970

State; diam. class (inches)	Total all species	Total softwoods	Douglas fir	Ponderosa pine	Lodgepole pine	Western white pine	White spruce	True firs	Western larch	Western redcedar	Hemlock	Other softwoods	Total all hardwoods	Aspen	Other hardwoods
----- Million board feet, International 1/4-inch rule -----															
Western															
S. Dakota															
9.0-10.9	730.4	730.4	0	704.3	--	0	26.1	0	0	0	0	0	0	0	0
11.0-12.9	722.0	713.0	0	680.4	--	0	32.6	0	0	0	0	0	9.0	--	9.0
13.0-14.9	620.8	620.8	0	576.9	--	0	43.9	0	0	0	0	0	--	--	--
15.0-16.9	518.3	518.3	0	484.1	--	0	34.2	0	0	0	0	0	--	--	--
17.0-18.9	371.8	371.8	0	355.6	--	0	16.2	0	0	0	0	0	--	--	--
19.0-20.9	226.4	226.4	0	211.0	--	0	15.4	0	0	0	0	0	--	--	--
21.0-22.9	127.9	127.9	0	105.0	--	0	22.9	0	0	0	0	0	--	--	--
23.0-24.9	67.4	67.4	0	57.6	--	0	9.8	0	0	0	0	0	--	--	--
25.0-26.9	41.6	41.6	0	41.6	--	0	--	0	0	0	0	0	--	--	--
27.0-28.9	15.1	15.1	0	15.1	--	0	--	0	0	0	0	0	--	--	--
29.0+	2.0	2.0	0	2.0	--	0	--	0	0	0	0	0	--	--	--
Total	3,443.7	3,434.7	0	3,233.6	--	0	201.1	0	0	0	0	0	9.0	--	9.0

Table 37. --NET VOLUME OF GROWING STOCK ON COMMERCIAL FOREST LAND IN THE NORTHERN  
ROCKY MOUNTAIN STATES BY DIAMETER CLASS AND SPECIES, 1970

State; diam. class (inches)	Total all species	Total softwoods	Douglas- fir	Ponderosa- pine	Lodgepole- pine	Western white pine	Engelmann spruce	True firs	Western larch	Western redcedar	Hemlock	Other softwoods	Total all hardwoods	Aspen	Other hardwoods
----- Million cubic feet -----															
Wyoming															
5.0-6.9	678.0	626.2	51.7	47.0	418.5	0	43.0	58.8	0	0	0	7.2	51.8	51.7	.1
7.0-8.9	780.7	721.5	29.4	91.3	435.4	0	65.9	74.3	0	0	0	25.2	59.2	50.4	8.8
9.0-10.9	811.2	770.5	72.3	128.0	403.6	0	57.8	85.6	0	0	0	23.2	40.7	40.5	.2
11.0-12.9	690.4	664.1	39.8	149.0	270.4	0	113.1	59.8	0	0	0	32.0	26.3	4.1	22.2
13.0-14.9	524.3	505.8	40.2	126.2	187.4	0	78.3	46.4	0	0	0	27.3	18.5	18.2	.3
15.0-16.9	389.9	384.7	32.7	88.1	109.2	0	106.1	32.5	0	0	0	16.1	5.2	5.2	--
17.0-18.9	274.3	274.2	29.0	58.0	70.0	0	83.3	19.3	0	0	0	14.6	.1	.1	--
19.0-20.9	174.6	174.5	27.7	33.4	29.2	0	73.1	5.1	0	0	0	6.0	.1	.1	--
21.0-22.9	120.7	120.7	25.7	17.6	9.1	0	58.7	4.4	0	0	0	5.2	( <sup>1</sup> )	( <sup>b</sup> )	--
23.0-24.9	76.3	76.3	20.5	9.0	3.4	0	39.2	2.0	0	0	0	2.2	--	--	--
25.0-26.9	54.1	54.1	6.1	4.3	3.1	0	36.1	3.5	0	0	0	1.0	--	--	--
27.0-28.9	35.5	35.5	12.7	1.1	1.8	0	18.8	1.0	0	0	0	.1	--	--	--
29.0+	63.1	63.1	17.2	4.7	.5	0	39.5	.9	0	0	0	.3	--	--	--
Total	4,673.1	4,471.2	405.0	757.7	1,941.6	0	812.9	393.6	0	0	0	160.4	201.9	170.3	31.6

<sup>1</sup>Less than 0.05 million cubic feet.

Table 38. --NET VOLUME OF SAWTIMBER ON COMMERCIAL FOREST LAND IN THE NORTHERN  
ROCKY MOUNTAIN STATES BY DIAMETER CLASS AND SPECIES, 1970

State; diam. class (inches)	Total all species	Total softwoods	Douglas- fir	Ponderosa- pine	Lodgepole- pine	Western white pine	Engelmann spruce	True firs	Western larch	Western redcedar	Hemlock	Other softwoods	Total all hardwoods	Aspen	Other hardwoods
----- Million board feet, International 1/4-inch rule -----															
Wyoming															
9.0-10.9	3,794.4	3,794.4	322.8	408.3	2,178.2	0	323.4	417.8	0	0	0	143.9	0	0	0
11.0-12.9	3,391.4	3,242.2	177.4	562.0	1,472.3	0	551.0	299.9	0	0	0	179.6	149.2	26.4	122.8
13.0-14.9	2,691.7	2,561.3	186.9	534.6	1,036.4	0	413.7	242.0	0	0	0	147.7	130.4	128.0	2.4
15.0-16.9	2,089.7	2,046.3	162.1	417.5	628.7	0	570.8	175.0	0	0	0	92.2	43.4	43.4	--
17.0-18.9	1,502.8	1,501.7	148.8	297.2	410.3	0	460.9	105.5	0	0	0	79.0	1.1	1.1	--
19.0-20.9	954.9	954.6	146.7	179.1	164.3	0	402.4	29.0	0	0	0	33.1	.3	.3	--
21.0-22.9	629.6	629.4	156.2	73.1	52.3	0	292.1	26.0	0	0	0	29.7	.2	.2	--
23.0-24.9	434.7	434.7	115.7	44.6	18.6	0	230.3	12.3	0	0	0	13.2	--	--	--
25.0-26.9	312.7	312.7	35.8	22.1	18.1	0	211.4	19.6	0	0	0	5.7	--	--	--
27.0-28.9	203.8	203.8	70.5	7.3	9.9	0	109.4	6.3	0	0	0	.4	--	--	--
29.0+	359.3	359.3	96.2	25.6	3.1	0	227.1	5.2	0	0	0	2.1	--	--	--
Total	16,365.0	16,040.4	1,619.1	2,571.4	5,992.2	0	3,792.5	1,338.6	0	0	0	726.6	324.6	199.4	125.2

Table 39.--NET VOLUME OF GROWING STOCK ON COMMERCIAL FOREST LAND IN THE SOUTHERN  
ROCKY MOUNTAIN STATES BY DIAMETER CLASS AND SPECIES, 1970

State; diam. : class (inches):	Total : all species :	Total : softwoods :	Douglas- fir :	Ponderosa- pine :	Lodgepole: pine :	Western : white pine :	Engelmann: spruce :	True : firs :	Other : softwoods:	Total all : hardwoods :	Aspen :	Other : hardwoods
<i>Million cubic feet</i>												
Arizona												
5.0-6.9	201.9	174.7	15.9	135.6	--	--	10.9	9.7	2.6	27.2	27.2	--
7.0-8.9	251.7	218.5	16.1	175.9	--	--	13.2	11.0	2.3	33.2	33.2	--
9.0-10.9	331.2	298.2	19.4	239.5	--	--	18.7	18.6	2.0	33.0	33.0	--
11.0-12.9	393.9	354.4	23.1	270.5	--	--	35.6	20.9	4.3	39.5	39.5	--
13.0-14.9	421.3	387.9	24.4	302.7	--	--	36.7	20.7	3.4	33.4	33.4	--
15.0-16.9	458.4	434.5	27.1	338.7	--	--	44.0	21.7	3.0	23.9	23.9	--
17.0-18.9	470.5	452.4	27.8	366.1	--	--	36.6	17.9	4.0	18.1	18.1	--
19.0-20.9	452.6	443.1	24.2	364.9	--	--	32.7	17.1	4.2	9.5	9.5	--
21.0-22.9	403.3	398.1	20.8	337.8	--	--	25.7	11.0	2.8	5.2	5.2	--
23.0-24.9	373.0	371.3	29.0	310.6	--	--	15.6	13.4	2.7	1.7	1.7	--
25.0-26.9	316.2	315.1	22.1	269.4	--	--	11.6	9.6	2.4	1.1	1.1	--
27.0-28.9	263.4	263.2	16.8	226.0	--	--	4.5	14.5	1.4	0.2	0.2	--
29.0+	472.5	472.4	66.2	350.6	--	--	8.4	43.8	3.4	0.1	0.1	--
Total	4,809.9	4,583.8	332.9	3,688.3	--	--	294.2	229.9	38.5	226.1	226.1	--

Table 40.--NET VOLUME OF SAWTIMBER ON COMMERCIAL FOREST LAND IN THE SOUTHERN  
ROCKY MOUNTAIN STATES BY DIAMETER CLASS AND SPECIES, 1970

State; diam. : class (inches):	Total : all species :	Total : softwoods :	Douglas- fir :	Ponderosa- pine :	Lodgepole: pine :	Western : white pine :	Engelmann: spruce :	True : firs :	Other : softwoods:	Total all : hardwoods :	Aspen :	Other : hardwoods
<i>Million board feet, International 1/4-inch rule</i>												
Arizona												
9.0-10.9	852.3	852.3	83.7	570.0	--	--	106.0	81.8	10.8	0	0	0
11.0-12.9	1,536.6	1,340.3	110.1	918.4	--	--	188.2	100.8	22.8	196.3	196.3	--
13.0-14.9	1,875.5	1,704.5	125.3	1,255.1	--	--	199.5	106.6	18.0	171.0	171.0	--
15.0-16.9	2,197.8	2,074.2	143.3	1,553.9	--	--	244.9	116.0	16.1	123.6	123.6	--
17.0-18.9	2,381.0	2,286.6	150.6	1,806.0	--	--	210.0	97.9	22.1	94.4	94.4	--
19.0-20.9	2,381.4	2,330.8	124.2	1,899.7	--	--	189.9	93.6	23.4	50.6	50.6	--
21.0-22.9	2,193.4	2,165.9	111.6	1,832.0	--	--	147.7	59.7	14.9	27.5	27.5	--
23.0-24.9	2,068.7	2,060.5	158.3	1,726.6	--	--	92.2	68.8	14.6	8.2	8.2	--
25.0-26.9	1,786.0	1,780.5	122.9	1,523.4	--	--	68.9	52.3	13.0	5.5	5.5	--
27.0-28.9	1,503.1	1,501.9	95.5	1,293.7	--	--	27.4	77.6	7.7	1.2	1.2	--
29.0+	2,805.6	2,805.2	382.1	2,129.1	--	--	51.7	224.1	18.2	0.4	0.4	--
Total	21,581.4	20,902.7	1,607.6	16,507.9	--	--	1,526.4	1,079.2	181.6	678.7	678.7	--



Table 41. --NET VOLUME OF GROWING STOCK ON COMMERCIAL FOREST LAND IN THE SOUTHERN  
ROCKY MOUNTAIN STATES BY DIAMETER CLASS AND SPECIES, 1970

State; diam. : class (inches):	Total : all species :	Total : softwoods :	Douglas- fir :	Ponderosa: pine :	Lodgepole: pine :	Western : white pine :	Engelmann: spruce :	True : firs :	Other : softwoods:	Total all : hardwoods :	Aspen :	Other hardwoods
----- Million cubic feet -----												
Colorado												
5.0-6.9	1,949.0	1,662.0	221.5	44.9	658.6	0	361.1	335.1	40.8	287.0	285.9	1.1
7.0-8.9	1,819.8	1,306.0	111.2	54.2	454.3	0	375.1	293.6	17.6	513.8	504.5	9.3
9.0-10.9	1,734.1	1,319.4	103.7	53.3	375.3	0	504.5	259.0	23.6	414.7	399.8	14.9
11.0-12.9	1,543.3	1,264.6	87.3	85.5	327.9	0	540.9	207.2	15.8	278.7	256.7	22.0
13.0-14.9	1,336.6	1,144.6	93.4	90.5	246.7	0	536.7	161.5	15.8	192.0	178.3	13.7
15.0-16.9	1,087.6	978.5	97.5	77.1	134.8	0	518.4	138.8	11.9	109.1	98.8	10.3
17.0-18.9	836.8	778.3	75.3	57.1	53.4	0	474.3	111.5	6.7	58.5	50.5	8.0
19.0-20.9	607.0	580.2	62.4	58.5	31.5	0	356.0	67.5	4.3	26.8	21.8	5.0
21.0-22.9	447.6	435.8	50.9	49.4	6.5	0	287.0	40.5	1.5	11.8	6.3	5.5
23.0-24.9	334.2	325.6	23.6	45.3	4.8	0	222.7	27.9	1.3	8.6	4.4	4.2
25.0-26.9	213.4	210.1	24.6	30.2	--	0	142.2	12.9	.2	3.3	.1	3.2
27.0-28.9	154.0	151.2	15.6	23.4	.4	0	98.4	13.2	.2	2.8	.3	2.5
29.0+	203.7	203.7	37.6	45.5	--	0	105.7	14.9	--	--	--	--
<b>Total</b>	<b>12,267.1</b>	<b>10,360.0</b>	<b>1,004.6</b>	<b>714.9</b>	<b>2,294.2</b>	<b>0</b>	<b>4,523.0</b>	<b>1,683.6</b>	<b>139.7</b>	<b>1,907.1</b>	<b>1,807.4</b>	<b>99.7</b>

Table 42. --NET VOLUME OF SAWTIMBER ON COMMERCIAL FOREST LAND IN THE SOUTHERN  
ROCKY MOUNTAIN STATES BY DIAMETER CLASS AND SPECIES, 1970

State; diam. : class (inches):	Total : all species :	Total : softwoods :	Douglas- fir :	Ponderosa: pine :	Lodgepole: pine :	Western : white pine :	Engelmann: spruce :	True : firs :	Other : softwoods:	Total all : hardwoods :	Aspen :	Other hardwoods
----- Million board feet, International 1/4-inch rule -----												
Colorado												
9.0-10.9	7,642.8	7,642.8	582.8	117.7	2,301.2	0	3,054.7	1,446.0	140.4	--	--	--
11.0-12.9	8,174.8	6,809.2	439.3	306.7	1,844.4	0	3,046.9	1,090.4	81.5	1,365.6	1,284.4	81.2
13.0-14.9	7,363.4	6,407.4	517.7	449.0	1,420.3	0	3,060.3	876.4	83.7	956.0	900.0	56.0
15.0-16.9	6,183.5	5,625.9	572.7	431.3	790.4	0	2,995.2	772.8	63.5	557.6	514.7	42.9
17.0-18.9	4,863.7	4,557.7	457.1	346.9	321.2	0	2,764.4	628.7	39.4	306.0	272.2	33.8
19.0-20.9	3,558.5	3,427.9	390.5	363.7	192.7	0	2,073.1	381.4	26.5	130.6	109.4	21.2
21.0-22.9	2,657.9	2,600.7	343.9	229.1	41.5	0	1,736.5	241.5	8.2	57.2	33.4	23.8
23.0-24.9	2,042.0	1,998.7	152.1	244.8	32.8	0	1,393.7	166.4	8.9	43.3	25.5	17.8
25.0-26.9	1,316.2	1,302.0	156.2	170.1	--	0	900.1	74.7	.9	14.2	.8	13.4
27.0-28.9	950.6	938.6	97.0	134.7	2.6	0	623.7	79.1	1.5	12.0	2.0	10.0
29.0+	1,322.7	1,322.7	238.6	297.8	--	0	698.0	88.3	--	--	--	--
<b>Total</b>	<b>46,076.1</b>	<b>42,633.6</b>	<b>3,947.9</b>	<b>3,091.8</b>	<b>6,947.1</b>	<b>0</b>	<b>22,346.6</b>	<b>5,845.7</b>	<b>454.5</b>	<b>3,442.5</b>	<b>3,142.4</b>	<b>300.1</b>

Table 43.--NET VOLUME OF GROWING STOCK ON COMMERCIAL FOREST LAND IN THE SOUTHERN  
ROCKY MOUNTAIN STATES BY DIAMETER CLASS AND SPECIES, 1970

State; diam. class (inches)	Total all species	Total softwoods	Douglas- fir	Ponderosa & Jeffrey pine	Lodgepole: pine	Western white pine	Engelmann: spruce	True firs	Other <sup>1</sup> softwoods	Total all hardwoods	Aspen	Other <sup>2</sup> hardwoods
<i>Million cubic feet</i>												
Nevada												
5.0-6.9	7.3	4.3	(1)	.4	.1	.1	.5	1.8	1.4	3.0	3.0	--
7.0-8.9	8.0	5.8	--	1.6	.7	.2	1.1	1.7	.5	2.2	2.2	--
9.0-10.9	11.2	9.1	--	2.7	1.1	.1	1.5	3.3	.4	2.1	2.1	--
11.0-12.9	15.5	11.7	--	4.4	1.7	.3	1.8	2.8	.7	3.8	3.4	.4
13.0-14.9	14.3	12.6	--	5.3	2.1	.5	.8	3.5	.4	1.7	1.5	.2
15.0-16.9	16.9	16.9	--	6.9	1.4	.5	2.5	4.6	1.0	(1)	(1)	--
17.0-18.9	16.6	16.6	--	7.5	.8	.4	.9	5.3	1.7	(1)	(1)	--
19.0-20.9	17.4	17.4	--	7.2	1.1	.8	1.7	5.6	1.0	(1)	(1)	--
21.0-22.9	17.6	17.6	--	6.3	1.4	.5	1.6	6.2	1.6	(1)	--	(,)
23.0-24.9	17.6	17.6	--	7.0	.8	.7	1.5	5.8	1.8	--	--	--
25.0-26.9	16.3	16.3	--	5.9	.7	1.3	1.6	6.1	.7	--	--	--
27.0-28.9	15.9	15.9	--	4.5	.6	1.1	2.7	5.9	1.1	--	--	--
29.0+	75.6	75.6	--	19.2	1.4	7.0	1.7	43.6	2.7	--	--	--
Total	250.2	237.4	(1)	78.9	13.9	13.5	19.9	96.2	15.0	12.8	12.2	0.6

<sup>1</sup>Less than 0.05 million cubic feet.

Table 44.--NET VOLUME OF SAWTIMBER ON COMMERCIAL FOREST LAND IN THE SOUTHERN  
ROCKY MOUNTAIN STATES BY DIAMETER CLASS AND SPECIES, 1970

State; diam. class (inches)	Total all species	Total softwoods	Douglas- fir	Ponderosa & Jeffrey pine	Lodgepole: pine	Western white pine	Engelmann: spruce	True firs	Other <sup>1</sup> softwoods	Total all hardwoods	Aspen	Other <sup>2</sup> hardwoods
<i>Million board feet, International 1/4-inch rule</i>												
Nevada												
9.0-10.9	34.4	34.4	--	5.0	6.6	.5	7.1	13.5	1.7	0	0	0
11.0-12.9	68.2	51.7	--	14.4	9.4	1.5	9.6	13.6	3.2	16.5	14.7	1.8
13.0-14.9	68.5	61.3	--	23.3	11.5	2.7	4.2	17.8	1.8	7.2	6.4	.8
15.0-16.9	89.7	89.5	--	35.2	8.4	2.4	12.6	24.9	6.0	.2	.2	--
17.0-18.9	94.4	94.1	--	42.2	4.6	2.1	4.8	30.9	9.5	.3	.3	--
19.0-20.9	102.4	102.2	--	42.9	6.3	5.1	8.5	33.8	5.6	.2	.2	--
21.0-22.9	106.5	106.5	--	38.5	8.9	3.0	8.5	38.1	9.5	(1)	--	(1)
23.0-24.9	107.5	107.5	--	42.2	5.1	4.6	8.6	36.3	10.7	--	--	--
25.0-26.9	98.4	98.4	--	34.5	3.8	7.8	8.7	39.0	4.6	--	--	--
27.0-28.9	93.6	93.6	--	26.7	3.2	6.6	14.4	36.0	6.7	--	--	--
29.0+	480.3	480.3	--	124.1	8.8	43.5	9.0	278.5	16.4	--	--	--
Total	1,343.9	1,319.5	--	429.0	76.6	79.8	96.0	562.4	75.7	24.4	21.8	2.6

<sup>1</sup>Less than 0.05 million board feet.

Table 45.--NET VOLUME OF GROWING STOCK ON COMMERCIAL FOREST LAND IN THE SOUTHERN  
ROCKY MOUNTAIN STATES BY DIAMETER CLASS AND SPECIES, 1970

State; diam. class (inches)	Total : all species	Total : softwoods	Douglas- fir	Ponderosa : pine	Lodgepole: pine	Western : white pine	Engelmann: spruce	True : firs	Other : softwoods	Total all : hardwoods	Aspen	Other : hardwoods
----- Million cubic feet -----												
New Mexico												
5.0-6.9	523.0	418.2	77.8	163.4	0	0	55.6	102.9	18.5	104.8	104.8	--
7.0-8.9	547.7	428.0	94.7	177.2	0	0	58.0	71.5	26.6	119.7	119.7	--
9.0-10.9	511.3	404.0	79.1	161.5	0	0	73.7	75.4	14.3	107.3	107.3	--
11.0-12.9	621.7	527.2	98.3	218.4	0	0	90.1	85.9	34.5	94.5	94.5	--
13.0-14.9	609.4	543.3	114.2	255.8	0	0	72.7	77.2	23.4	66.1	66.1	--
15.0-16.9	724.1	675.3	102.5	407.2	0	0	82.8	61.2	21.6	48.8	48.8	--
17.0-18.9	685.6	652.8	94.8	426.0	0	0	70.5	53.1	8.4	32.8	32.8	--
19.0-20.9	558.6	541.1	91.2	363.7	0	0	41.3	34.8	10.1	17.5	17.5	--
21.0-22.9	456.9	447.6	65.3	308.2	0	0	33.2	34.4	6.5	9.3	9.3	--
23.0-24.9	362.9	362.8	60.3	257.6	0	0	20.5	22.7	1.7	0.1	0.1	--
25.0-26.9	272.8	272.8	35.4	214.2	0	0	6.3	13.6	3.3	--	--	--
27.0-28.9	197.5	197.5	32.1	146.6	0	0	3.8	11.5	3.5	--	--	--
29.0+	264.6	264.6	85.4	144.3	0	0	5.6	26.1	3.2	--	--	--
Total	6,336.1	5,735.2	1,031.1	3,244.1	0	0	614.1	670.3	175.6	600.9	600.9	--

Table 46.--NET VOLUME OF SAWTIMBER ON COMMERCIAL FOREST LAND IN THE SOUTHERN  
ROCKY MOUNTAIN STATES BY DIAMETER CLASS AND SPECIES, 1970

State; diam. class (inches)	Total : all species	Total : softwoods	Douglas- fir	Ponderosa : pine	Lodgepole: pine	Western : white pine	Engelmann: spruce	True : firs	Other : softwoods	Total all : hardwoods	Aspen	Other : hardwoods
----- Million board feet, International 1/4-inch rule -----												
New Mexico												
9.0-10.9	1,598.0	1,598.0	441.7	323.5	0	0	444.2	302.0	86.6	0	0	0
11.0-12.9	2,622.1	2,091.8	499.4	626.5	0	0	445.5	359.2	161.2	530.3	530.3	--
13.0-14.9	2,835.2	2,445.6	646.5	940.3	0	0	381.2	364.1	113.5	389.6	389.6	--
15.0-16.9	3,533.4	3,243.2	600.2	1,773.9	0	0	448.9	309.0	111.2	290.2	290.2	--
17.0-18.9	3,490.6	3,294.0	590.7	1,990.0	0	0	387.5	280.4	45.4	196.6	196.6	--
19.0-20.9	2,929.2	2,820.8	547.5	1,807.7	0	0	222.7	187.0	55.9	108.4	108.4	--
21.0-22.9	2,458.0	2,399.3	380.0	1,623.3	0	0	178.4	180.8	36.8	58.7	58.7	--
23.0-24.9	1,995.0	1,994.4	358.3	1,398.6	0	0	111.5	116.2	9.8	0.6	0.6	--
25.0-26.9	1,523.9	1,523.9	210.6	1,189.9	0	0	32.2	72.0	19.2	--	--	--
27.0-28.9	1,115.8	1,115.8	198.4	818.4	0	0	19.5	60.1	19.4	--	--	--
29.0+	1,527.8	1,527.8	495.2	844.0	0	0	32.5	137.2	18.9	--	--	--
Total	25,629.0	24,054.6	4,968.5	13,336.1	0	0	2,704.1	2,368.0	677.9	1,574.4	1,574.4	--

Table 47.--NET VOLUME OF GROWING STOCK ON COMMERCIAL FOREST LAND IN THE SOUTHERN  
ROCKY MOUNTAIN STATES BY DIAMETER CLASS AND SPECIES, 1970

State; diam. : class (inches):	Total : all species :	Total : softwoods :	Douglas- : fir :	Ponderosa : pine :	Lodgepole : pine :	Western : white pine :	Engelmann : spruce :	True : firs :	Other : softwoods :	Total all : hardwoods :	Aspen :	Other : hardwoods
<i>Million cubic feet</i>												
Utah												
5.0-6.9	698.2	463.0	62.4	5.2	210.4	0	81.9	95.7	7.4	235.2	235.2	--
7.0-8.9	734.1	460.6	64.5	16.4	176.3	0	107.4	91.9	4.1	273.5	273.5	--
9.0-10.9	648.5	453.8	61.7	19.5	153.5	0	111.1	101.9	6.1	194.7	194.7	--
11.0-12.9	535.1	376.1	67.2	21.5	98.0	0	97.5	88.0	3.9	159.0	158.9	0.1
13.0-14.9	468.5	376.3	74.9	25.4	89.8	0	102.1	78.3	5.8	92.2	92.1	0.1
15.0-16.9	378.0	336.1	83.4	29.6	57.7	0	98.4	59.9	7.1	41.9	41.9	( <sup>1</sup> )
17.0-18.9	315.8	293.6	80.4	24.4	25.3	0	95.8	64.7	3.0	22.2	22.2	( <sup>1</sup> )
19.0-20.9	247.7	237.7	66.3	29.0	16.1	0	79.1	44.9	2.3	10.0	10.0	( <sup>1</sup> )
21.0-22.9	167.9	163.0	46.5	24.2	7.4	0	51.8	30.0	3.1	4.9	4.9	( <sup>1</sup> )
23.0-24.9	140.9	137.5	39.8	20.7	2.5	0	52.0	19.3	3.2	3.4	3.4	--
25.0-26.9	105.3	104.2	23.1	21.2	1.9	0	40.2	17.2	0.6	1.1	1.1	( <sup>1</sup> )
27.0-28.9	77.5	76.9	18.6	19.4	0.8	0	26.4	9.8	1.9	0.6	0.6	--
29.0+	210.3	210.3	52.0	64.3	0.3	0	61.1	31.6	1.0	--	--	--
Total	4,727.8	3,689.1	740.8	320.8	840.0	0	1,004.8	733.2	49.5	1,038.7	1,038.5	0.2

<sup>1</sup>Less than 0.05 million cubic feet.

Table 48.--NET VOLUME OF SAWTIMBER ON COMMERCIAL FOREST LAND IN THE SOUTHERN  
ROCKY MOUNTAIN STATES BY DIAMETER CLASS AND SPECIES, 1970

State; diam. : class (inches):	Total : all species :	Total : softwoods :	Douglas- : fir :	Ponderosa : pine :	Lodgepole : pine :	Western : white pine :	Engelmann : spruce :	True : firs :	Other : softwoods :	Total all : hardwoods :	Aspen :	Other : hardwoods
<i>Million board feet, International 1/2-inch rule</i>												
Utah												
9.0-10.9	2,393.7	2,393.7	339.3	50.2	819.9	0	577.8	561.6	44.9	0	0	0
11.0-12.9	2,542.6	1,864.3	300.6	75.2	534.7	0	512.3	421.6	19.9	678.3	678.1	0.2
13.0-14.9	2,337.4	1,936.8	367.1	115.3	482.2	0	546.8	396.0	29.4	400.6	400.4	0.2
15.0-16.9	1,954.0	1,761.9	421.2	153.4	312.3	0	523.9	313.7	37.4	192.1	192.0	0.1
17.0-18.9	1,681.2	1,575.2	425.4	134.5	138.3	0	515.2	344.6	17.2	106.0	105.9	0.1
19.0-20.9	1,338.1	1,292.6	371.1	153.5	88.0	0	422.5	244.0	13.5	45.5	45.4	0.1
21.0-22.9	953.3	927.5	269.8	134.2	41.2	0	293.6	171.0	17.7	25.8	25.8	( <sup>1</sup> )
23.0-24.9	805.9	788.1	223.0	128.4	13.9	0	295.3	109.2	18.3	17.8	17.8	--
25.0-26.9	601.3	595.1	130.3	126.8	10.3	0	225.8	98.5	3.4	6.2	6.2	( <sup>1</sup> )
27.0-28.9	446.7	443.0	105.1	118.8	4.5	0	148.0	56.1	10.5	3.7	3.7	--
29.0+	1,230.9	1,230.9	294.7	406.0	1.9	0	342.5	180.0	5.8	--	--	--
Total	16,285.1	14,809.1	3,247.6	1,596.3	2,447.2	0	4,403.7	2,896.3	218.0	1,476.0	1,475.3	0.7

<sup>1</sup>Less than 0.05 million board feet.

Table 49.--NET ANNUAL GROWTH OF GROWING STOCK AND SAWTIMBER ON COMMERCIAL FOREST LAND IN THE ROCKY MOUNTAIN STATES BY SOFTWOODS AND HARDWOODS AND OWNER GROUP, 1970

State	All owner groups	National Forest	Other public	Forest industry	Other private	All owner groups	National Forest	Other public	Forest industry	Other private
----- Thousand cubic feet growing stock -----						----- Thousand board feet sawtimber <sup>1</sup> -----				
North. Rocky Mt. States:										
North Idaho:										
Softwoods	347,209	91,709	64,465	67,421	123,614	1,327,768	400,768	218,207	281,772	427,021
Hardwoods	3,694	694	144	346	2,510	5,379	2,379	--	680	2,320
All species	350,903	92,403	64,609	67,767	126,124	1,333,147	403,147	218,207	282,452	429,341
South Idaho:										
Softwoods	149,772	116,872	18,008	5,928	8,964	664,319	523,319	76,994	25,841	38,165
Hardwoods	2,288	388	1,081	256	563	7,680	680	3,829	1,275	1,896
All species	152,060	117,260	19,089	6,184	9,527	671,999	523,999	80,823	27,116	40,061
Western Montana:										
Softwoods	334,582	227,482	27,369	28,299	51,432	1,173,354	738,354	113,346	129,050	192,604
Hardwoods	1,280	480	122	136	542	4,673	673	862	813	2,325
All species	335,862	227,962	27,491	28,435	51,974	1,178,027	739,027	114,208	129,863	194,929
Eastern Montana:										
Softwoods	105,062	58,862	13,208	184	32,808	300,046	187,046	32,218	529	80,253
Hardwoods	2,218	118	588	--	1,512	8,168	168	2,226	--	5,774
All species	107,280	58,980	13,796	184	34,320	308,214	187,214	34,444	529	86,027
Western S. Dakota:										
Softwoods	26,910	19,310	1,536	369	5,695	98,815	78,815	4,437	958	14,605
Hardwoods	200	--	31	10	159	--	--	--	--	--
All species	27,110	19,310	1,567	379	5,854	98,815	78,815	4,437	958	14,605
Wyoming:										
Softwoods	42,754	26,654	5,815	800	9,485	160,345	106,345	20,496	2,891	30,613
Hardwoods	2,999	1,299	687	50	963	3,937	937	1,231	91	1,678
All species	45,753	27,953	6,502	850	10,448	164,282	107,282	21,727	2,982	32,291
Total N. Rocky Mt. States:										
Softwoods	1,006,289	540,889	130,401	103,001	231,998	3,724,647	2,034,647	465,698	441,041	783,261
Hardwoods	12,679	2,979	2,653	798	6,249	29,837	4,837	8,148	2,859	13,993
All species	1,018,968	543,868	133,054	103,799	238,247	3,754,484	2,039,484	473,846	443,900	797,254

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

Table 50.--NET ANNUAL GROWTH OF GROWING STOCK AND SAWTIMBER ON COMMERCIAL FOREST LAND IN THE ROCKY MOUNTAIN STATES BY SOFTWOODS AND HARDWOODS AND OWNER GROUP, 1970

State	All owner groups	National Forest	Other public	Forest industry	Other private	All owner groups	National Forest	Other public	Forest industry	Other private
----- Thousand cubic feet growing stock -----						----- Thousand board feet sawtimber <sup>1</sup> -----				
South. Rocky Mt. States:										
Arizona:										
Softwoods	66,239	50,639	13,393	--	2,207	289,445	231,445	51,677	--	6,323
Hardwoods	5,036	3,436	853	--	747	16,850	13,850	1,225	--	1,775
All species	71,275	54,075	14,246	--	2,954	306,295	245,295	52,902	--	8,098
Colorado:										
Softwoods	123,393	86,793	7,955	212	28,433	609,698	472,698	31,602	618	104,780
Hardwoods	33,945	23,845	1,907	5	8,188	62,036	46,036	2,742	6	13,252
All species	157,338	110,638	9,862	217	36,621	671,734	518,734	34,344	624	118,032
Nevada:										
Softwoods	2,052	652	105	186	1,109	10,102	3,102	540	948	5,512
Hardwoods	241	241	--	--	--	310	310	--	--	--
All species	2,293	893	105	186	1,109	10,412	3,412	540	948	5,512
New Mexico:										
Softwoods	65,888	38,588	9,118	1,257	16,925	226,625	170,625	22,031	2,334	31,635
Hardwoods	9,173	2,973	-99	289	6,010	25,891	14,891	-789	525	11,264
All species	75,061	41,561	9,019	1,546	22,935	252,516	185,516	21,242	2,859	42,899
Utah:										
Softwoods	25,598	27,198	-972	--	-628	75,409	104,409	-16,201	--	-12,799
Hardwoods	10,609	4,409	1,662	--	4,538	9,713	8,713	226	--	774
All species	36,207	31,607	690	--	3,910	85,122	113,122	-15,975	--	-12,025
Total S. Rocky Mt. States:										
Softwoods	283,170	203,870	29,599	1,655	48,046	1,211,279	982,279	89,649	3,900	135,451
Hardwoods	59,004	34,904	4,323	294	19,483	114,800	83,800	3,404	531	27,065
All species	342,174	238,774	33,922	1,949	67,529	1,326,079	1,066,079	93,053	4,431	162,516
Total all Rocky Mt. States:										
Softwoods	1,289,459	744,759	160,000	104,656	280,044	4,935,926	3,016,926	555,347	444,941	918,712
Hardwoods	71,683	37,883	6,976	1,092	25,732	144,637	88,637	11,552	3,390	41,058
All species	1,361,142	782,642	166,976	105,748	305,776	5,080,563	3,105,563	566,899	448,331	959,770

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

Table 51.--ANNUAL MORTALITY OF GROWING STOCK AND SAWTIMBER ON COMMERCIAL FOREST LAND IN THE ROCKY MOUNTAIN STATES BY SOFTWOODS AND HARDWOODS AND OWNER GROUP, 1970

State	Thousand cubic feet growing stock					Thousand board feet sawtimber <sup>1</sup>				
	All owner groups	National Forest	Other public	Forest industry	Other private	All owner groups	National Forest	Other public	Forest industry	Other private
North. Rocky Mt. States:										
North Idaho:										
Softwoods	112,252	82,352	12,854	6,965	10,081	549,599	416,599	62,920	33,092	36,988
Hardwoods	391	191	--	200	--	1,604	604	--	1,000	--
All species	112,643	82,543	12,854	7,165	10,081	551,203	417,203	62,920	34,092	36,988
South Idaho:										
Softwoods	87,931	76,831	6,154	1,982	2,964	415,581	373,581	23,477	7,273	11,250
Hardwoods	1,220	620	326	115	159	2,928	928	1,087	384	529
All species	89,151	77,451	6,480	2,097	3,123	418,509	374,509	24,564	7,657	11,779
Western Montana:										
Softwoods	110,040	80,140	6,734	12,862	10,304	418,939	292,939	28,333	56,667	41,000
Hardwoods	481	281	14	9	177	1,171	1,171	--	--	--
All species	110,521	80,421	6,748	12,871	10,481	420,110	294,110	28,333	56,667	41,000
Eastern Montana:										
Softwoods	51,831	22,331	8,513	58	20,929	159,402	72,402	25,110	175	61,715
Hardwoods	1,504	4	433	--	1,067	6,006	6	1,733	--	4,267
All species	53,335	22,335	8,946	58	21,996	165,408	72,408	26,843	175	65,982
Western South Dakota:										
Softwoods	1,282	982	81	14	205	5,512	4,512	282	46	672
Hardwoods	--	--	--	--	--	--	--	--	--	--
All species	1,282	982	81	14	205	5,512	4,512	282	46	672
Wyoming:										
Softwoods	24,061	15,961	4,135	273	3,692	87,880	62,880	11,904	869	12,227
Hardwoods	1,106	106	415	30	555	2,158	158	800	56	1,144
All species	25,167	16,067	4,550	303	4,247	90,038	63,038	12,704	925	13,371
Total N. Rocky Mt. States:										
Softwoods	387,397	278,597	38,471	22,154	48,175	1,636,913	1,222,913	152,026	98,122	163,852
Hardwoods	4,702	1,202	1,188	354	1,958	13,867	2,867	3,620	1,440	5,940
All species	392,099	279,799	39,659	22,508	50,133	1,650,780	1,225,780	155,646	99,562	169,792

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

Table 52.--ANNUAL MORTALITY OF GROWING STOCK AND SAWTIMBER ON COMMERCIAL FOREST LAND IN THE ROCKY MOUNTAIN STATES BY SOFTWOODS AND HARDWOODS AND OWNER GROUP, 1970

State	Thousand cubic feet growing stock <sup>1</sup>					Thousand board feet sawtimber <sup>1</sup>				
	All owner groups	National Forest	Other public	Forest industry	Other private	All owner groups	National Forest	Other public	Forest industry	Other private
South. Rocky Mt. States:										
Arizona:										
Softwoods	13,907	6,907	6,133	--	867	64,145	32,145	28,036	--	3,964
Hardwoods	1,064	664	350	--	50	2,867	1,867	876	--	124
All species	14,971	7,571	6,483	--	917	67,012	34,012	28,912	--	4,088
Colorado:										
Softwoods	72,884	44,884	5,443	171	22,386	296,642	202,642	17,631	470	75,899
Hardwoods	17,503	10,803	1,188	5	5,507	37,392	27,392	1,701	4	8,295
All species	90,387	55,687	6,631	176	27,893	334,034	230,034	19,332	474	84,194
Nevada:										
Softwoods	1,587	487	41	96	963	8,885	2,885	213	511	5,276
Hardwoods	35	35	--	--	--	95	95	--	--	--
All species	1,622	522	41	96	963	8,980	2,980	213	511	5,276
New Mexico:										
Softwoods	39,420	17,820	6,719	1,059	13,822	155,731	72,731	25,819	4,068	53,113
Hardwoods	7,475	4,575	902	142	1,856	14,705	6,705	2,489	392	5,119
All species	46,895	22,395	7,621	1,201	15,678	170,436	79,436	28,308	4,460	58,232
Utah:										
Softwoods	48,934	30,834	9,917	--	8,183	210,382	129,382	44,376	--	36,624
Hardwoods	17,826	10,026	3,081	--	4,719	33,358	24,358	2,908	--	6,092
All species	66,760	40,860	12,998	--	12,902	243,740	153,740	47,284	--	42,716
Total S. Rocky Mt. States:										
Softwoods	176,732	100,932	28,253	1,326	46,221	735,785	439,785	116,075	5,049	174,876
Hardwoods	43,903	26,103	5,521	147	12,132	88,417	60,417	7,974	396	19,630
All species	220,635	127,035	33,774	1,473	58,353	824,202	500,202	124,049	5,445	194,506
Total All Rocky Mt. States:										
Softwoods	564,129	379,529	66,724	23,480	94,396	2,372,698	1,662,698	268,101	103,171	338,728
Hardwoods	48,605	27,305	6,709	501	14,090	102,284	63,284	11,594	1,836	25,570
All species	612,734	406,834	73,433	23,981	108,486	2,474,982	1,725,982	279,695	105,007	364,298

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

Table 53. --OUTPUT OF ROUNDWOOD PRODUCTS FROM TIMBERLANDS IN THE ROCKY MOUNTAIN STATES BY SOFTWOODS, HARDWOODS, AND OWNER GROUP, 1970

State	: All owner groups:	: National Forest :	: Other public :	: Forest industry :	: Other private :
----- <i>Thousand cubic feet</i> -----					
North. Rocky Mt. States:					
North Idaho					
Softwoods	236,132	121,136	26,683	58,088	30,225
Hardwoods	183	94	21	45	23
All species	236,315	121,230	26,704	58,133	30,248
South Idaho					
Softwoods	89,567	45,948	10,121	22,033	11,465
Hardwoods	70	36	8	17	9
All species	89,637	45,984	10,129	22,050	11,474
Western Montana					
Softwoods	248,588	111,119	15,413	85,763	36,293
Hardwoods	24	11	1	8	4
All species	248,612	111,130	15,414	85,771	36,297
Eastern Montana					
Softwoods	30,944	13,832	1,919	10,676	4,517
Hardwoods	3	1	--	1	1
All species	30,947	13,833	1,919	10,677	4,518
Western South Dakota					
Softwoods	15,124	12,281	1,573	106	1,164
Hardwoods	--	--	--	--	--
All species	15,124	12,281	1,573	106	1,164
Wyoming					
Softwoods	33,685	30,923	1,954	--	808
Hardwoods	--	--	--	--	--
All species	33,685	30,923	1,954	--	808
Total Northern Rocky Mountain States					
Softwoods	654,040	335,239	57,663	176,666	84,472
Hardwoods	280	142	30	71	37
All species	654,320	335,381	57,693	176,737	84,509
South. Rocky Mt. States:					
Arizona					
Softwoods	86,986	64,109	22,703	174	--
Hardwoods	7,194	5,302	1,878	14	--
All species	94,180	69,411	24,581	188	--
Colorado					
Softwoods	52,257	47,606	1,829	314	2,508
Hardwoods	1,885	1,717	66	11	91
All species	54,142	49,323	1,895	325	2,599
Nevada					
Softwoods	572	121	351	--	100
Hardwoods	--	--	--	--	--
All species	572	121	351	--	100
New Mexico					
Softwoods	46,790	31,818	6,503	5,615	2,854
Hardwoods	802	545	112	96	49
All species	47,592	32,363	6,615	5,711	2,903
Utah					
Softwoods	11,955	10,209	311	--	1,435
Hardwoods	436	373	11	--	52
All species	12,391	10,582	322	--	1,487
Total Southern Rocky Mountain States					
Softwoods	198,560	153,863	31,697	6,103	6,897
Hardwoods	10,317	7,937	2,067	121	192
All species	208,877	161,800	33,764	6,224	7,089
Total all Rocky Mountain States					
Softwoods	852,600	489,102	89,360	182,769	91,369
Hardwoods	10,597	8,079	2,097	192	229
All species	863,197	497,181	91,457	182,961	91,598
Percent of total	100.0	57.6	10.6	21.2	*10.6

Table 54.--REMOVALS FROM GROWING STOCK ON COMMERCIAL FOREST LAND IN THE ROCKY MOUNTAIN STATES BY ROUNDWOOD PRODUCTS, LOGGING RESIDUES, AND OTHER REMOVALS, 1970

State	P R O D U C T S										
	Total removals	All products	Saw logs	Veneer logs	Pulpwood	Commercial poles	Mine timbers	Miscellaneous industrial wood <sup>1</sup>	Posts, fuelwood: miscellaneous: farm timbers	Logging residues	Other removals
----- Thousand cubic feet -----											
North. Rocky Mt. States:											
North Idaho	259,010	229,416	191,445	25,021	8,370	2,208	1	2,130	241	26,956	2,638
South Idaho	98,244	87,020	72,617	9,491	3,174	838	1	808	91	10,224	1,000
Western Montana	292,043	248,379	210,787	32,072	1,460	720	1,640	573	1,127	39,142	4,522
Eastern Montana	32,361	26,926	26,239	--	182	90	204	71	140	4,872	563
Western S. Dakota	15,651	14,887	7,334	--	5,294	594	--	163	1,502	581	183
Wyoming	36,153	32,244	31,947	--	--	10	101	103	83	2,469	1,440
Total Northern Rocky Mountain States	733,462	638,872	540,369	66,584	18,480	4,460	1,947	3,848	3,184	84,244	10,346
South. Rocky Mt. States:											
Arizona	87,744	78,633	69,685	--	8,113	273	293	131	138	8,551	560
Colorado	58,989	49,895	38,887	5,299	754	337	2,034	913	1,671	4,753	4,341
Nevada	10	--	--	--	--	--	--	--	--	--	10
New Mexico	44,086	38,986	38,901	--	--	--	82	--	3	4,739	361
Utah	12,741	11,471	10,792	--	--	20	250	407	2	823	447
Total Southern Rocky Mountain States	203,570	178,985	158,265	5,299	8,867	630	2,659	1,451	1,814	18,866	5,719
Total all Rocky Mountain States	937,032	817,857	698,634	71,883	27,347	5,090	4,606	5,299	4,998	103,110	16,065

<sup>1</sup>Includes house logs, converter poles, piling, shingle bolts, excelsior bolts, match stock, charcoal wood, and similar items.

Table 55.--REMOVALS FROM SAWTIMBER ON COMMERCIAL FOREST LAND IN THE ROCKY MOUNTAIN STATES BY ROUNDWOOD PRODUCTS, LOGGING RESIDUES, AND OTHER REMOVALS, 1970

State	P R O D U C T S										
	Total removals	All products	Saw logs	Veneer logs	Pulpwood	Commercial poles	Mine timbers	Miscellaneous industrial wood <sup>1</sup>	Posts, fuelwood: miscellaneous: farm timbers	Logging residues	Other removals
----- Thousand board feet, International 1/4-inch rule -----											
North. Rocky Mt. States:											
North Idaho	1,526,499	1,424,966	1,194,166	160,180	46,195	10,271	--	13,170	984	85,041	16,492
South Idaho	579,017	540,504	452,960	60,758	17,522	3,896	--	4,995	373	32,257	6,256
Western Montana	1,635,237	1,487,053	1,267,714	197,964	7,129	3,329	4,497	2,901	3,519	120,780	27,404
Eastern Montana	178,912	160,466	157,805	--	887	415	560	361	438	15,035	3,411
Western S. Dakota	87,032	85,245	46,376	--	30,094	2,770	--	157	5,848	733	1,054
Wyoming	195,726	182,978	182,796	--	--	43	6	76	57	3,862	8,886
Total Northern Rocky Mountain States	4,202,423	3,881,212	3,301,817	418,902	101,827	20,724	5,063	21,660	11,219	257,708	63,503
South. Rocky Mt. States:											
Arizona	493,541	466,824	441,937	--	22,154	1,278	772	369	314	23,394	3,323
Colorado	341,110	301,794	242,797	33,950	4,206	1,566	5,183	4,998	9,094	12,898	26,418
Nevada	63	--	--	--	--	--	--	--	--	--	63
New Mexico	262,096	244,293	244,223	--	--	--	57	4	9	15,544	2,259
Utah	69,724	65,272	64,563	--	--	89	616	2	2	1,780	2,672
Total Southern Rocky Mountain States	1,166,534	1,078,183	993,520	33,950	26,360	2,933	6,628	5,373	9,419	53,616	34,735
Total all Rocky Mountain States	5,368,957	4,959,395	4,295,337	452,852	128,187	23,657	11,691	27,033	20,638	311,324	98,238

<sup>1</sup>Includes house logs, converter poles, piling, shingle bolts, excelsior bolts, match stock, charcoal wood, and similar items.



GREEN, ALAN W., and THEODORE S. SETZER

1974. The Rocky Mountain timber situation, 1970. USDA For. Serv. Resour. Bull. INT-10, 78 p., illus. (Intermountain Forest & Range Experiment Station, Ogden, Utah 84401.)

Presents highlights of the 1970 forest situation in the Rocky Mountain States. Describes the forest resource and the timber supply outlook; discusses some problems and opportunities for increasing timber output. Includes statistical tables: areas by land classes; ownership; growing stock volumes; net annual growth; mortality; roundwood products output; and logging residues.

OXFORD: 905

KEYWORDS: statistics (forest)

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