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TIMBER RESOURCE STATISTICS FOR OREGON

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ABSTRACT

Timber resource statistics as of January 1, 1973, for the State of Oregon show total land area, commercial timberland area, and growing stock and sawtimber inventory volumes by county and owner group. Growth and removals are shown by Forest Survey inventory unit for 1972. Each National Forest is updated to January 1, 1973, as well as each Bureau of Land Management District in western Oregon.

Keywords: Forest surveys (Oregon), resources (timber), statistics (timber).

PREFACE

For an area as large as Oregon, a complete field inventory of the timber resources is usually not possible within a single year nor is it feasible to reinventory every year to maintain current statistics. Yet, with rapid change in the forest situation, it is desirable to have current statistics readily available.

Statistics in this report update many of the 1970 statistics shown for the State of Oregon in the last national timber appraisal (USDA Forest Service 1973). The tables also show data for counties or county groups. Area and volume statistics are as of January 1, 1973; growth and removals are for 1972. These statistics were updated by Forest Survey, a nationwide project of the Forest Service.

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UPDATING PROCEDURES

The methods described here were used to update inventory data to January 1, 1973. Data were from field surveys made since 1962. National Forest lands were inventoried by National Forest Administration, the Bureau of Land Management inventoried its own lands in western Oregon, and all other lands were inventoried by Forest Survey. Data for all lands for the State were assembled by Forest Survey in five inventory unit reports (Berger 1968; Hazard and Metcalf 1964, 1965; Metcalf and Hazard 1964).^{1/}

A stand projection model, TRAS--Timber Resource Analysis System (Larson and Goforth 1970), used nationwide by Forest Survey, was used to update these data to January 1, 1973. This model projects stands by calculating annual change in numbers of trees by 2-inch diameter classes. Ingrowth and changes in the land base and in utilization are allowed for in the model. Results are annual statements of inventory volume, net growth, removals, and mortality in board and cubic feet.

Using this model, we updated each National Forest and Bureau of Land Management unit, as well as three ownership classes--other public, forest industry, and farmer and miscellaneous private--separately by inventory unit. In general, updating was done by extending to 1973 the updated 1970 estimates made for the study, "The Outlook for Timber in the United States" (USDA Forest Service 1973), except eastern Oregon and National Forests in western Oregon. The two inventory units in eastern Oregon were updated from the date of the latest inventory; 1964 for the Central Oregon unit, 1969 for the Blue Mountain unit. Data from 1972 inventories were used for the Willamette and Mount Hood National Forests in western Oregon.

In updating the "Outlook" data from 1970, we adjusted area and volume to account for changes since that time. Area was adjusted to account for nominal losses of commercial forest land for roads, powerlines, reservoirs, etc. Major shifts in public lands between ownerships or from one National Forest to another were also accounted for. Volume was reduced to account for timber cutting by ownership within inventory unit. Information on cut from private, county, and municipal and State lands came from the Oregon State Department of Forestry. Cut on other public lands came from the U. S. Department of the Interior--Bureau of Land Management and Bureau of Indian Affairs--and the National Forest Administration. With this information we reduced the volume for each county at the time of original inventory by the volume of cut from year to year through 1972. The residual volumes then provided the basis for determining county proportions as of 1973. The 1973 total inventory volumes by ownership for each inventory unit were then proportioned among the counties within units.

The inventory updating procedure provides estimates of total net annual growth for each ownership at the inventory unit level. The procedure assumes the same average growth rates for all counties within each ownership. Available information and

^{1/} Charles L. Bolsinger and John M. Berger. Timber resource statistics for the Blue Mountain area of Oregon. (In preparation for publication by the Pacific Northwest Forest and Range Experiment Station, Portland, Oregon.)

procedures are not considered adequate to allocate growth to counties. Use of the average growth rate for a survey unit appears reasonable in view of the general homogeneity of each unit with respect to growing conditions and stand characteristics.

Updated statistics are less reliable and less detailed than estimates provided by new inventories. Updating, in addition to carrying along the sampling errors associated with the original survey, does not allow for evaluation of some conditions that change from year to year. For instance, lack of data on annual cut and mortality by species precludes updating of volume and growth by species in greater detail than by softwood and hardwoods. Short-term updated statistics are, of course, generally more reliable than long-term ones. County statistics are subject to considerable sampling error. In general, the larger the forest area in the county, the more reliable the estimate.

METRIC CONVERSIONS

1,000 acres	= 404.71 hectares
1,000 cubic feet	= 28.3 cubic meters
1 cubic foot per acre	= 0.07 cubic meter per hectare
1 square-foot basal area per acre	= 0.2296 square meter per hectare
1 mile	= 1.609 kilometers
1 foot	= 30.480 centimeters
1 inch	= 2.540 centimeters

Table 1.--Land area by major class of land by inventory unit and county, Oregon, January 1, 1973

(In thousand acres)

Inventory unit and county	Total land area ^{1/}	Forest land					Nonforest land ^{2/}
		Total	Commercial	Productive reserved	Deferred	Unproductive	
WESTERN OREGON							
Northwest Oregon:							
Clackamas	1,206	924	881	1	3	39	282
Clatsop	515	487	462	5	--	20	28
Columbia	409	340	333	(3/)	--	7	69
Hood River	335	286	237	5	(3/)	44	49
Marion	746	397	341	12	--	44	349
Multnomah	271	127	111	1	--	15	144
Polk	470	273	271	1	--	1	197
Tillamook	714	644	637	6	--	1	70
Washington	458	249	249	(3/)	--	--	209
Yamhill	455	253	253	(3/)	--	--	202
Total	5,579	3,980	3,775	31	3	171	1,599
West-central Oregon:							
Benton	427	271	270	--	--	1	156
Lane	2,920	2,485	2,320	119	--	46	435
Lincoln	631	574	572	1	--	1	57
Linn	1,466	1,095	951	58	--	86	371
Total	5,444	4,425	4,113	178	--	134	1,019
Southwest Oregon:							
Coos	1,027	891	873	3	--	15	136
Curry	1,041	1,005	760	50	--	195	36
Douglas	3,240	2,870	2,763	2	--	105	370
Jackson	1,800	1,539	1,305	2	--	232	261
Josephine	1,040	922	795	5	--	122	118
Total	8,148	7,227	6,496	62	--	669	921
Total western Oregon	19,171	15,632	14,384	271	3	974	3,539
EASTERN OREGON							
Central Oregon:							
Crook	1,907	955	426	--	--	529	952
Deschutes	1,940	1,270	898	44	--	328	670
Gilliam	773	--	--	--	--	--	773
Jefferson	1,148	555	349	17	--	189	593
Klamath	3,821	2,958	2,435	194	46	283	863
Lake	5,268	1,551	1,210	13	--	328	3,717
Sherman	531	--	--	--	--	--	531
Wasco	1,524	550	414	1	--	135	974
Wheeler	1,092	507	312	2	--	193	585
Total	18,004	8,346	6,044	271	46	1,985	9,658
Blue Mountain:							
Baker	1,964	717	571	5	--	141	1,247
Grant	2,900	1,951	1,532	20	--	399	949
Harney	6,506	777	413	--	--	364	5,729
Malheur	6,311	97	7	--	--	90	6,214
Morrow	1,318	206	198	--	--	8	1,112
Umatilla	2,065	519	459	4	--	56	1,546
Union	1,301	754	652	10	4	88	547
Wallowa	2,034	981	706	72	5	198	1,053
Total	24,399	6,002	4,538	111	9	1,344	18,397
Total eastern Oregon	42,403	14,348	10,582	382	55	3,329	28,055
Total Oregon	61,574	29,980	24,966	653	58	4,303	31,594

^{1/} U.S. Bureau of the Census, Land and Water Area of the United States, 1960. (Revised July 1964.)

^{2/} Includes 158,000 acres classed as water by Forest Survey standards but defined as land by the Bureau of the Census.

^{3/} Less than 500 acres.

Table 2.--Area of commercial timberland by ownership class and by inventory unit and county, Oregon, January 1, 1973

(In thousand acres)

Inventory unit and county	All ownerships	National Forest	Other public	Forest industry	Farmer and miscellaneous private
WESTERN OREGON					
Northwest Oregon:					
Clackamas	881	468	96	117	200
Clatsop	462	--	142	225	95
Columbia	333	--	18	198	117
Hood River	237	155	43	24	15
Marion	341	140	50	38	113
Multnomah	111	53	4	--	54
Polk	271	1	38	134	98
Tillamook	637	89	347	128	73
Washington	249	--	95	8	146
Yamhill	253	26	41	92	94
Total	3,775	932	874	964	1,005
West-central Oregon:					
Benton	270	16	70	15	169
Lane	2,320	1,127	296	574	323
Lincoln	572	165	41	259	107
Linn	951	337	108	237	269
Total	4,113	1,645	515	1,085	868
Southwest Oregon:					
Coos	873	54	219	300	300
Curry	760	397	51	167	145
Douglas	2,763	882	648	724	509
Jackson	1,305	433	301	322	249
Josephine	795	302	268	63	162
Total	6,496	2,068	1,487	1,576	1,365
Total western Oregon	14,384	4,645	2,876	3,625	3,238
EASTERN OREGON					
Central Oregon:					
Crook	426	338	11	57	20
Deschutes	898	745	26	74	53
Gilliam	--	--	--	--	--
Jefferson	349	119	136	59	35
Klamath	2,435	1,293	115	699	328
Lake	1,210	870	4	263	73
Sherman	--	--	--	--	--
Wasco	414	153	199	15	47
Wheeler	312	134	9	80	89
Total	6,044	3,652	500	1,247	645
Blue Mountain:					
Baker	571	437	17	10	107
Grant	1,532	1,276	19	97	140
Harney	413	392	1	4	16
Malheur	7	3	4	(1/)	--
Morrow	198	111	1	48	38
Umatilla	459	282	27	49	101
Union	652	429	6	67	150
Wallowa	706	411	9	105	181
Total	4,538	3,341	84	380	733
Total eastern Oregon	10,582	6,993	584	1,627	1,378
Total Oregon	24,966	11,638	3,460	5,252	4,616

1/ Less than 500 acres.

Table 3.--Area of commercial timberland, net volume, net annual growth, and removals of growing stock and sawtimber, by ownership class and by softwoods and hardwoods, Oregon^{1/}

Ownership class		Growing stock			Sawtimber (International 1/4-inch rule)			Sawtimber (Scribner rule)		
Species	Area	Volume	Growth	Removals	Volume	Growth	Removals	Volume	Growth	Removal
	Thousand acres	Million cubic feet	-- Thousand cubic feet --		Million board feet	-- Thousand board feet --		Million board feet	-- Thousand board feet --	
WESTERN OREGON										
National Forest:	4,645									
Softwoods		28,099	182,700	432,700	165,668	1,071,000	2,774,400	133,492	866,000	2,256,000
Hardwoods		936	11,800	2,700	5,149	80,000	23,000	3,599	53,000	15,000
All species		29,035	194,500	435,400	170,817	1,151,000	2,797,400	137,091	919,000	2,271,000
Other public:	2,876									
Softwoods		10,977	142,300	234,500	64,502	735,000	1,588,000	55,971	613,000	1,431,000
Hardwoods		1,214	48,600	3,000	3,970	166,000	17,000	3,906	165,000	16,000
All species		12,191	190,900	237,500	68,472	901,000	1,605,000	59,877	778,000	1,447,000
Forest industry:	3,625									
Softwoods		9,147	160,700	517,400	52,527	635,000	3,229,000	41,641	468,000	2,601,000
Hardwoods		1,510	43,700	8,200	5,891	134,000	39,000	5,732	130,000	37,000
All species		10,657	204,400	525,600	58,418	769,000	3,268,000	47,373	598,000	2,638,000
Farmer and miscellaneous private:	3,238									
Softwoods		5,897	183,400	85,700	28,859	815,000	495,000	22,713	620,000	405,000
Hardwoods		2,764	68,800	1,300	9,771	299,000	6,000	9,517	292,000	6,000
All species		8,661	252,200	87,000	38,630	1,114,000	501,000	32,230	912,000	411,000
Total western Oregon:	14,384									
Softwoods		54,120	669,100	1,270,300	311,556	3,256,000	8,086,400	253,817	2,567,000	6,693,000
Hardwoods		6,424	172,900	15,200	24,781	679,000	85,000	22,754	640,000	74,000
All species		60,544	842,000	1,285,500	336,337	3,935,000	8,171,400	276,571	3,207,000	6,767,000
EASTERN OREGON										
National Forest:	6,993									
Softwoods		17,043	237,300	194,000	79,894	1,033,000	1,253,500	69,801	891,000	1,131,700
Hardwoods		8	--	--	22	--	--	19	--	--
All species		17,051	237,300	194,000	79,916	1,033,000	1,253,500	69,820	891,000	1,131,700
Other public:	584									
Softwoods		1,930	34,900	23,700	8,691	142,000	136,000	7,559	123,000	124,000
Hardwoods		1	--	--	2	--	--	2	--	--
All species		1,931	34,900	23,700	8,693	142,000	136,000	7,561	123,000	124,000
Forest industry:	1,627									
Softwoods		2,508	52,700	109,000	9,437	189,000	610,000	8,074	162,000	556,000
Hardwoods		1	--	--	--	--	--	--	--	--
All species		2,509	52,700	109,000	9,437	189,000	610,000	8,074	162,000	556,000
Farmer and miscellaneous private:	1,378									
Softwoods		1,637	51,600	22,900	5,247	179,600	124,000	4,367	150,500	111,000
Hardwoods		14	2/-100	--	43	400	--	42	500	--
All species		1,651	51,500	22,900	5,290	180,000	124,000	4,409	151,000	111,000
Total eastern Oregon:	10,582									
Softwoods		23,118	376,500	349,600	103,269	1,543,600	2,123,500	89,801	1,326,500	1,922,700
Hardwoods		24	2/-100	--	67	400	--	63	500	--
All species		23,142	376,400	349,600	103,336	1,544,000	2,123,500	89,864	1,327,000	1,922,700
Total Oregon:	24,966									
Softwoods		77,238	1,045,600	1,619,900	414,825	4,799,600	10,209,900	343,618	3,893,500	8,615,700
Hardwoods		6,448	172,800	15,200	24,848	679,400	85,000	22,817	640,500	74,000
All species		83,686	1,218,400	1,635,100	439,673	5,479,000	10,294,900	366,435	4,534,000	8,689,700

^{1/} As of January 1, 1973, for area and volume and for 1972 for growth and removals.

^{2/} Negative net growth is the result of mortality exceeding gross growth.

Table 4--Area of commercial timberland, net volume, net annual growth, and removals of growing stock, by ownership class and by softwoods and hardwoods, Oregon //

Ownership class	Species	Area	Volume	Growth	Removals

(Metric equivalents of area and cubic volumes of table 3)

WESTERN OREGON					
National Forest:	Softwoods	1,880	796	5,174	12,254
	Hardwoods		27	334	76
	All species		823	5,508	12,330
Other public:	Softwoods	1,164	311	4,030	6,641
	Hardwoods		34	1,376	85
	All species		345	5,406	6,726
Forest industry:	Softwoods	1,467	259	4,551	14,653
	Hardwoods		43	1,238	232
	All species		302	5,789	14,885
Farmer and miscellaneous private:	Softwoods	1,310	167	5,194	2,427
	Hardwoods		78	1,949	37
	All species		245	7,143	2,464
Total western Oregon:	Softwoods	5,821	1,533	18,949	35,975
	Hardwoods		182	4,897	430
	All species		1,715	23,846	36,405
EASTERN OREGON					
National Forest:	Softwoods	2,830	483	6,720	5,494
	Hardwoods		(2/)	--	--
	All species		483	6,720	5,494
Other public:	Softwoods	236	54	988	671
	Hardwoods		(2/)	--	--
	All species		54	988	671
Forest industry:	Softwoods	659	71	1,493	3,087
	Hardwoods		(2/)	--	--
	All species		71	1,493	3,087
Farmer and miscellaneous private:	Softwoods	558	46	1,461	649
	Hardwoods		1	(3/)-3	--
	All species		47	1,458	649
Total eastern Oregon:	Softwoods	4,283	654	10,662	9,901
	Hardwoods		1	(3/)-3	--
	All species		655	10,659	9,901
Total Oregon:	Softwoods	10,104	2,187	29,611	45,876
	Hardwoods		183	4,894	430
	All species		2,370	34,505	46,306

// As of January 1, 1973, for area and volume and for 1972 for growth and removals.

// Less than 50,000 cubic meters.

// Negative net growth is the result of mortality exceeding gross growth.

Table 5.--Area of commercial timberland, net volume, net annual growth, and removals of growing stock and sawtimber, by National Forest and by softwoods and hardwoods, Oregon ^{1/}

National Forest		Growing stock			Sawtimber (International 1/4-inch rule)			Sawtimber (Scribner rule)		
Species	Area	Volume	Growth	Removals	Volume	Growth	Removals	Volume	Growth	Removals
	Thousand acres	Million cubic feet	- Thousand cubic feet -		Million board feet	- Thousand board feet -		Million board feet	- Thousand board feet -	
Deschutes: Softwoods Hardwoods	1,268	2,742 --	38,600 --	25,000 --	13,543 --	212,000 --	160,000 --	12,128 --	190,000 --	143,000 --
All species		2,742	38,600	25,000	13,543	212,000	160,000	12,128	190,000	143,000
Fremont: Softwoods Hardwoods	928	1,894 --	23,700 --	25,200 --	9,088 --	89,000 --	157,000 --	7,959 --	76,000 --	142,000 --
All species		1,894	23,700	25,200	9,088	89,000	157,000	7,959	76,000	142,000
Klamath: ^{2/} Softwoods Hardwoods	26	89 5	900 200	-- --	504 7	3,000 --	-- --	472 7	3,000 --	-- --
All species		94	1,100	--	511	3,000	--	479	3,000	--
Malheur: Softwoods Hardwoods	1,179	2,674 1	38,500 --	31,800 --	12,746 1	144,000 --	210,000 --	11,141 1	122,000 --	190,000 --
All species		2,675	38,500	31,800	12,747	144,000	210,000	11,142	122,000	190,000
Mount Hood: Softwoods Hardwoods	877	5,499 33	42,400 500	51,000 100	30,439 102	240,000 3,000	376,900 --	24,714 71	198,000 2,000	321,700 --
All species		5,532	42,900	51,100	30,541	243,000	376,900	24,785	200,000	321,700
Ochoco: Softwoods Hardwoods	669	1,526 1	17,100 --	15,500 --	8,492 3	74,000 --	104,000 --	7,532 3	64,000 --	94,000 --
All species		1,527	17,100	15,500	8,495	74,000	104,000	7,535	64,000	94,000
Rogue River: ^{2/} Softwoods Hardwoods	501	2,423 30	18,800 200	42,100 --	13,117 44	96,000 --	262,000 --	10,435 44	76,000 --	218,000 --
All species		2,453	19,000	42,100	13,161	96,000	262,000	10,479	76,000	218,000
Siskiyou: ^{2/} Softwoods Hardwoods	721	2,765 321	19,100 5,900	45,300 400	16,708 1,316	75,000 63,000	296,000 4,000	13,636 930	57,000 16,000	243,000 3,000
All species		3,086	25,000	45,700	18,024	98,000	300,000	14,566	90,000	246,000
Siuslaw: Softwoods Hardwoods	587	3,677 517	37,100 4,200	64,700 2,200	24,110 3,589	259,000 50,000	439,000 19,000	19,407 2,489	217,000 33,000	361,000 12,000
All species		4,194	41,300	66,900	27,699	309,000	458,000	21,896	250,000	373,000
Umatilla: ^{3/} Softwoods Hardwoods	793	2,477 --	29,100 --	24,500 --	10,786 --	141,000 --	160,000 --	9,185 --	118,000 --	145,000 --
All species		2,477	29,100	24,500	10,786	141,000	160,000	9,185	118,000	145,000
Umpqua: Softwoods Hardwoods	872	5,534 3	32,200 --	85,200 --	31,589 11	184,000 --	523,000 --	25,113 7	147,000 --	409,000 --
All species		5,537	32,200	85,200	31,600	184,000	523,000	25,120	147,000	409,000
Wallowa-Whitman: Softwoods Hardwoods	1,172	3,111 2	53,600 --	38,800 --	12,899 9	212,000 --	255,000 --	11,000 7	180,000 --	230,000 --
All species		3,113	53,600	38,800	12,908	212,000	255,000	11,007	180,000	230,000
Willamette: Softwoods Hardwoods	1,234	8,835 31	42,600 800	155,600 --	53,353 89	279,000 4,000	953,000 --	43,427 59	227,000 2,000	772,000 --
All species		8,866	43,400	155,600	53,442	283,000	953,000	43,486	229,000	772,000
Winema: Softwoods Hardwoods	811	1,896 --	26,300 --	22,100 --	8,188 --	96,000 --	132,000 --	7,144 --	82,000 --	119,000 --
All species		1,896	26,300	22,100	8,188	96,000	132,000	7,144	82,000	119,000
All National Forests:	11,638									
Softwoods		45,142	420,000	626,700	245,562	2,104,000	4,027,900	203,293	1,757,000	3,387,700
Hardwoods		944	11,800	2,700	5,171	80,000	23,000	3,618	53,000	15,000
All species		46,086	431,800	629,400	250,733	2,184,000	4,050,900	206,911	1,810,000	3,402,700

^{1/} As of January 1, 1973, for area and volume and for 1972 for growth and removals. These figures show total volume and growth on every acre of the commercial forest land base in each National Forest. On some of these acres timber removals are limited because of other resource values and, on some Forests, may result in growth exceeding removals. For most Forests removals exceed growth and will until old-growth stands are replaced with young-growth forests. As a result, these figures, while providing point-in-time data, do not provide a basis for evaluating agency management objectives.

^{2/} Most of the Klamath National Forest and portions of the Rogue River and Siskiyou National Forests are in California.

^{3/} A portion of the Umatilla National Forest is in Washington.

Table 6.--Area of commercial timberland, net volume, net annual growth, and removals of growing stock and sawtimber, by Bureau of Land Management District and by softwoods and hardwoods, Oregon ^{1/}

District		Growing stock			Sawtimber (International 1/4-inch rule)			Sawtimber (Scribner rule)		
Species	Area	Volume	Growth	Removals	Volume	Growth	Removals	Volume	Growth	Removals
	Thousand acres	Million cubic feet	--- Thousand cubic feet ---	Million board feet	--- Thousand board feet ---	Million board feet	--- Thousand board feet ---	Million board feet	--- Thousand board feet ---	
Salem:	384									
Softwoods		2,021	31,600	44,600	12,914	199,000	329,000	11,300	173,000	303,000
Hardwoods		134	3,800	600	567	20,000	4,000	553	20,000	4,000
All species		2,155	35,400	45,200	13,481	219,000	333,000	11,853	193,000	307,000
Eugene:	309									
Softwoods		1,126	22,200	32,100	6,846	107,000	231,000	5,972	90,000	212,000
Hardwoods		88	3,600	--	260	12,000	--	281	13,000	--
All species		1,214	25,800	32,100	7,106	119,000	231,000	6,253	103,000	212,000
Roseburg:	387									
Softwoods		1,735	8,400	27,900	10,816	46,000	197,000	9,551	41,000	177,000
Hardwoods		137	3,000	100	410	7,000	--	400	7,000	--
All species		1,872	11,400	28,000	11,226	53,000	197,000	9,951	48,000	177,000
Coos Bay:	307									
Softwoods		1,637	13,400	31,600	10,704	66,000	228,000	9,748	58,000	213,000
Hardwoods		204	12,800	100	739	40,000	1,000	733	40,000	1,000
All species		1,841	26,200	31,700	11,443	106,000	229,000	10,481	98,000	214,000
Medford:	645									
Softwoods		2,511	16,600	56,600	13,265	81,000	329,000	11,869	72,000	302,000
Hardwoods		94	4,200	100	176	10,000	--	172	10,000	--
All species		2,605	20,800	56,700	13,441	91,000	329,000	12,041	82,000	302,000
All Districts:	2,032									
Softwoods		9,030	92,200	192,800	54,545	499,000	1,314,000	48,440	434,000	1,207,000
Hardwoods		657	27,400	900	2,152	89,000	5,000	2,139	90,000	5,000
All species		9,687	119,600	193,700	56,697	588,000	1,319,000	50,579	524,000	1,212,000

^{1/} As of January 1, 1973, for area and volume and for 1972 for growth and removals. Removals exceed growth on every District because Bureau of Land Management forests are predominantly old growth. This will continue until old-growth stands are replaced with young-growth forests. As a result, these figures, while providing point-in-time data, do not provide a basis for evaluating agency management objectives.

Table 7.--Net volume of growing stock and sawtimber on commercial timberland by ownership class and by softwoods and hardwoods, Northwest Oregon, January 1, 1973

Ownership class	Volume per acre	All species	Softwoods	Hardwoods
<i>Cubic feet - - - - - Million cubic feet - - - - -</i>				
All growing stock:				
National Forest	6,792	6,330	6,165	165
Other public	3,018	2,638	2,228	410
Forest industry	2,262	2,181	1,863	318
Farmer and miscellaneous private	3,290	3,306	2,178	1,128
All ownerships	3,829	14,455	12,434	2,021
<i>Board feet - - - - - Million board feet - - - - -</i>				
Sawtimber (International 1/4-inch rule):				
National Forest	38,516	35,897	34,988	909
Other public	15,467	13,518	12,219	1,299
Forest industry	9,472	9,131	8,166	965
Farmer and miscellaneous private	13,301	13,368	9,416	3,952
All ownerships	19,050	71,914	64,789	7,125
Sawtimber (Scribner rule):				
National Forest	30,749	28,658	27,938	720
Other public	12,810	11,196	9,932	1,264
Forest industry	7,249	6,988	6,049	939
Farmer and miscellaneous private	10,888	10,942	7,100	3,842
All ownerships	15,307	57,784	51,019	6,765

Table 8.--Net volume of growing stock and sawtimber on commercial
timberland by county and ownership class,
Northwest Oregon, January 1, 1973

County	All ownerships	National Forest	Other public	Forest industry	Farmer and miscellaneous private
----- Million cubic feet -----					
All growing stock:					
Clackamas	4,356	3,153	433	151	619
Clatsop	2,038	--	556	1,005	477
Columbia	691	--	46	302	343
Hood River	1,195	919	106	119	51
Marion	1,645	1,162	211	(1/)	272
Multnomah	628	369	24	(1/)	235
Polk	431	9	162	19	241
Tillamook	2,077	599	716	294	468
Washington	471	--	174	(1/)	297
Yamhill	923	119	310	291	303
All counties	14,455	6,330	2,638	2,181	3,306
----- Million board feet -----					
Sawtimber (International 1/4-inch rule):					
Clackamas	23,103	17,425	2,392	648	2,638
Clatsop	9,014	--	2,256	4,431	2,327
Columbia	2,357	--	179	941	1,237
Hood River	6,150	4,922	494	549	185
Marion	8,957	6,612	1,224	(1/)	1,121
Multnomah	3,272	2,070	133	(1/)	1,069
Polk	1,723	60	1,035	60	568
Tillamook	11,669	4,095	3,865	1,332	2,377
Washington	1,667	--	666	(1/)	1,001
Yamhill	4,002	713	1,274	1,170	845
All counties	71,914	35,897	13,518	9,131	13,368
Sawtimber (Scribner rule):					
Clackamas	18,398	13,840	2,007	479	2,072
Clatsop	7,112	--	1,813	3,397	1,902
Columbia	1,834	--	122	690	1,022
Hood River	4,897	3,978	379	403	137
Marion	7,247	5,301	1,000	(1/)	946
Multnomah	2,761	1,741	106	(1/)	914
Polk	1,533	49	920	50	514
Tillamook	9,367	3,192	3,214	1,037	1,924
Washington	1,295	--	526	(1/)	769
Yamhill	3,340	557	1,109	932	742
All counties	57,784	28,658	11,196	6,988	10,942

1/ Combined with farmer and miscellaneous private.

Table 9.--Net annual growth of growing stock and sawtimber on commercial timberland by ownership class and by softwoods and hardwoods, Northwest Oregon, 1972

Ownership class	Growth per acre	All species	Softwoods	Hardwoods
<i>Cubic feet - - - - - Thousand cubic feet - - - - -</i>				
All growing stock:				
National Forest	47	43,900	42,300	1,600
Other public	71	62,400	46,100	16,300
Forest industry	74	71,100	58,100	13,000
Farmer and miscellaneous private	126	126,500	87,400	39,100
All ownerships	81	303,900	233,900	70,000
<i>Board feet - - - - - Thousand board feet - - - - -</i>				
Sawtimber (International 1/4-inch rule):				
National Forest	277	258,000	244,000	14,000
Other public	341	298,000	235,000	63,000
Forest industry	331	319,000	268,000	51,000
Farmer and miscellaneous private	550	553,000	373,000	180,000
All ownerships	378	1,428,000	1,120,000	308,000
Sawtimber (Scribner rule):				
National Forest	221	206,000	195,000	11,000
Other public	285	249,000	188,000	61,000
Forest industry	256	247,000	197,000	50,000
Farmer and miscellaneous private	451	453,000	278,000	175,000
All ownerships	306	1,155,000	858,000	297,000

Table 10.--Removals from growing stock and sawtimber on commercial timberland by ownership class and by softwoods and hardwoods, Northwest Oregon, 1972

Ownership class	Removals per acre	All species	Softwoods	Hardwoods
<i>Cubic feet - - - - - Thousand cubic feet - - - - -</i>				
All growing stock:				
National Forest	64	59,800	59,000	800
Other public	58	50,500	49,300	1,200
Forest industry	151	145,300	141,200	4,100
Farmer and miscellaneous private	19	19,500	18,900	600
All ownerships	73	275,100	268,400	6,700
<i>Board feet - - - - - Thousand board feet - - - - -</i>				
Sawtimber (International 1/4-inch rule):				
National Forest	463	431,400	425,600	5,800
Other public	387	338,000	331,000	7,000
Forest industry	770	742,000	727,000	15,000
Farmer and miscellaneous private	98	98,000	95,000	3,000
All ownerships	426	1,609,400	1,578,600	30,800
Sawtimber (Scribner rule):				
National Forest	384	358,200	354,600	3,600
Other public	338	295,000	288,000	7,000
Forest industry	592	571,000	557,000	14,000
Farmer and miscellaneous private	77	77,000	74,000	3,000
All ownerships	345	1,301,200	1,273,600	27,600

Table 11.--Net volume of growing stock and sawtimber on commercial timberland by ownership class and by softwoods and hardwoods, West-central Oregon, January 1, 1973

Ownership class	Volume per acre	All species	Softwoods	Hardwoods
<i>Cubic feet - - - - - Million cubic feet - - - - -</i>				
All growing stock:				
National Forest	7,188	11,825	11,472	353
Other public	5,252	2,705	2,435	270
Forest industry	3,053	3,312	2,957	355
Farmer and miscellaneous private	2,924	2,538	1,906	632
All ownerships	4,955	20,380	18,770	1,610
<i>Board feet - - - - - Million board feet - - - - -</i>				
Sawtimber (International 1/4-inch rule):				
National Forest	44,349	72,954	70,485	2,469
Other public	30,757	15,840	14,988	852
Forest industry	17,321	18,793	17,466	1,327
Farmer and miscellaneous private	15,372	13,343	10,574	2,769
All ownerships	29,402	120,930	113,513	7,417
Sawtimber (Scribner rule):				
National Forest	35,794	58,881	57,248	1,633
Other public	26,883	13,845	12,989	856
Forest industry	14,010	15,201	13,912	1,289
Farmer and miscellaneous private	12,911	11,207	8,507	2,700
All ownerships	24,103	99,134	92,656	6,478

Table 12.--*Net volume of growing stock and sawtimber on commercial timberland by county and ownership class, West-central Oregon, January 1, 1973*

County	All ownerships	National Forest	Other public	Forest industry	Farmer and miscellaneous private
----- Million cubic feet -----					
All growing stock:					
Benton	1,191	72	414	22	683
Lane	11,509	8,045	1,291	1,360	813
Lincoln	2,503	1,107	380	858	158
Linn	5,177	2,601	620	1,072	884
All counties	20,380	11,825	2,705	3,312	2,538
----- Million board feet -----					
Sawtimber (International 1/4-inch rule):					
Benton	6,825	562	2,454	123	3,686
Lane	67,421	48,508	7,500	7,503	3,910
Lincoln	15,846	8,348	2,238	4,602	658
Linn	30,838	15,536	3,648	6,565	5,089
All counties	120,930	72,954	15,840	18,793	13,343
Sawtimber (Scribner rule):					
Benton	5,748	446	2,112	99	3,091
Lane	55,092	39,204	6,568	6,010	3,310
Lincoln	13,020	6,645	1,994	3,774	607
Linn	25,274	12,586	3,171	5,318	4,199
All counties	99,134	58,881	13,845	15,201	11,207

Table 13.--Net annual growth of growing stock and sawtimber on commercial timberland by ownership class and by softwoods and hardwoods, West-central Oregon, 1972

Ownership class	Growth per acre	All species	Softwoods	Hardwoods
<i>Cubic feet - - - - - Thousand cubic feet - - - - -</i>				
All growing stock:				
National Forest	45	73,700	70,300	3,400
Other public	112	57,800	47,900	9,900
Forest industry	70	75,500	62,800	12,700
Farmer and miscellaneous private	84	72,800	57,300	15,500
All ownerships	68	279,800	238,300	41,500
<i>Board feet - - - - - Thousand board feet - - - - -</i>				
Sawtimber (International 1/4-inch rule):				
National Forest	306	504,000	466,000	38,000
Other public	567	292,000	258,000	34,000
Forest industry	269	292,000	247,000	45,000
Farmer and miscellaneous private	532	375,000	289,000	86,000
All ownerships	356	1,463,000	1,260,000	203,000
Sawtimber (Scribner rule):				
National Forest	247	407,000	385,000	22,000
Other public	489	252,000	217,000	35,000
Forest industry	209	227,000	184,000	43,000
Farmer and miscellaneous private	358	311,000	227,000	84,000
All ownerships	291	1,197,000	1,013,000	184,000

Table 14.--Removals from growing stock and sawtimber on commercial timberland by ownership class and by softwoods and hardwoods, West-central Oregon, 1972

Ownership class	Removals per acre	All species	Softwoods	Hardwoods
<i>Cubic feet - - - - - Thousand cubic feet - - - - -</i>				
All growing stock:				
National Forest	126	206,700	205,300	1,400
Other public	115	59,100	58,200	900
Forest industry	145	157,500	155,700	1,800
Farmer and miscellaneous private	45	39,000	38,500	500
All ownerships	112	462,300	457,700	4,600
<i>Board feet - - - - - Thousand board feet - - - - -</i>				
Sawtimber (International 1/4-inch rule):				
National Forest	792	1,302,200	1,289,600	12,600
Other public	827	426,000	422,000	4,000
Forest industry	944	1,024,000	1,015,000	9,000
Farmer and miscellaneous private	275	239,000	237,000	2,000
All ownerships	727	2,991,200	2,963,600	27,600
Sawtimber (Scribner rule):				
National Forest	641	1,053,900	1,045,900	8,000
Other public	751	387,000	383,000	4,000
Forest industry	768	833,000	825,000	8,000
Farmer and miscellaneous private	228	198,000	196,000	2,000
All ownerships	601	2,471,900	2,449,900	22,000

Table 15.--Net volume of growing stock and sawtimber on commercial timberland by ownership class and by softwoods and hardwoods, Southwest Oregon, January 1, 1973

Ownership class	Volume per acre	All species	Softwoods	Hardwoods
<i>Cubic feet</i>		<i>- - - - - Million cubic feet - - - - -</i>		
All growing stock:				
National Forest	5,261	10,880	10,462	418
Other public	4,605	6,848	6,314	534
Forest industry	3,277	5,164	4,327	837
Farmer and miscellaneous private	2,064	2,817	1,813	1,004
All ownerships	3,958	25,709	22,916	2,793
<i>Board feet</i>		<i>- - - - - Million board feet - - - - -</i>		
Sawtimber (International 1/4-inch rule):				
National Forest	29,964	61,966	60,195	1,771
Other public	26,304	39,114	37,295	1,819
Forest industry	19,349	30,494	26,895	3,599
Farmer and miscellaneous private	8,732	11,919	8,869	3,050
All ownerships	26,109	143,493	133,254	10,239
Sawtimber (Scribner rule):				
National Forest	23,961	49,552	48,306	1,246
Other public	23,427	34,836	33,050	1,786
Forest industry	15,980	25,184	21,680	3,504
Farmer and miscellaneous private	7,385	10,081	7,106	2,975
All ownerships	18,419	119,653	110,142	9,511

Table 16.--Net volume of growing stock and sawtimber on commercial timberland by county and ownership class, Southwest Oregon, January 1, 1973

County	All ownerships	National Forest	Other public	Forest industry	Farmer and miscellaneous private
----- Million cubic feet -----					
All growing stock:					
Coos	3,479	328	1,426	831	894
Curry	2,974	1,863	224	494	393
Douglas	12,437	5,591	3,108	2,933	805
Jackson	4,410	2,040	1,106	824	440
Josephine	2,409	1,058	984	82	285
All counties	25,709	10,880	6,848	5,164	2,817
----- Million board feet -----					
Sawtimber (International 1/4-inch rule):					
Coos	20,296	2,202	8,489	4,944	4,661
Curry	16,383	10,571	1,300	3,106	1,406
Douglas	72,158	32,371	18,587	17,593	3,607
Jackson	22,172	10,659	5,569	4,464	1,480
Josephine	12,484	6,163	5,169	387	765
All counties	143,493	61,966	39,114	30,494	11,919
Sawtimber (Scribner rule):					
Coos	17,653	2,019	7,609	4,083	3,942
Curry	13,467	8,538	1,175	2,565	1,189
Douglas	59,886	25,802	16,505	14,528	3,051
Jackson	18,313	8,430	4,943	3,688	1,252
Josephine	10,334	4,763	4,604	320	647
All counties	119,653	49,552	34,836	25,184	10,081

Table 17.--*Net annual growth of growing stock and sawtimber on commercial timberland by ownership class and by softwoods and hardwoods, Southwest Oregon, 1972*

Ownership class	Growth per acre	All species	Softwoods	Hardwoods
<i>Cubic feet - - - - - Thousand cubic feet - - - - -</i>				
All growing stock:				
National Forest	37	76,900	70,100	6,800
Other public	48	70,700	48,300	22,400
Forest industry	37	57,800	39,800	18,000
Farmer and miscellaneous private	39	52,900	38,700	14,200
All ownerships	40	258,300	196,900	61,400
<i>Board feet - - - - - Thousand board feet - - - - -</i>				
Sawtimber (International 1/4-inch rule):				
National Forest	188	389,000	361,000	28,000
Other public	209	311,000	242,000	69,000
Forest industry	100	158,000	120,000	38,000
Farmer and miscellaneous private	136	186,000	153,000	33,000
All ownerships	161	1,044,000	876,000	168,000
Sawtimber (Scribner rule):				
National Forest	148	306,000	286,000	20,000
Other public	186	277,000	208,000	69,000
Forest industry	79	124,000	87,000	37,000
Farmer and miscellaneous private	108	148,000	115,000	33,000
All ownerships	132	855,000	696,000	159,000

Table 18.--Removals from growing stock and sawtimber on commercial timberland by ownership class and by softwoods and hardwoods, Southwest Oregon, 1972

Ownership class	Removals per acre	All species	Softwoods	Hardwoods
<i>Cubic feet</i>		<i>----- Thousand cubic feet -----</i>		
All growing stock:				
National Forest	82	168,900	168,400	500
Other public	86	127,900	127,000	900
Forest industry	141	222,800	220,500	2,300
Farmer and miscellaneous private	21	28,500	28,300	200
All ownerships	84	548,100	544,200	3,900
<i>Board feet</i>		<i>----- Thousand board feet -----</i>		
Sawtimber (International 1/4-inch rule):				
National Forest	514	1,063,800	1,059,200	4,600
Other public	566	841,000	835,000	6,000
Forest industry	953	1,502,000	1,487,000	15,000
Farmer and miscellaneous private	120	164,000	163,000	1,000
All ownerships	550	3,570,800	3,544,200	26,600
Sawtimber (Scribner rule):				
National Forest	415	858,900	855,500	3,400
Other public	514	765,000	760,000	5,000
Forest industry	783	1,234,000	1,219,000	15,000
Farmer and miscellaneous private	100	136,000	135,000	1,000
All ownerships	461	2,993,900	2,969,500	24,400

Table 19.--*Net volume of growing stock and sawtimber on commercial timberland by ownership class and by softwoods and hardwoods, Central Oregon, January 1, 1973*

Ownership class	Volume per acre	All species	Softwoods	Hardwoods
<i>Cubic feet - - - - - Million cubic feet - - - - -</i>				
All growing stock:				
National Forest	2,302	8,406	8,401	5
Other public	3,570	1,785	1,785	--
Forest industry	1,560	1,945	1,944	1
Farmer and miscellaneous private	1,085	700	697	3
All ownerships	2,124	12,836	12,827	9
<i>Board feet - - - - - Million board feet - - - - -</i>				
Sawtimber (International 1/4-inch rule):				
National Forest	11,340	41,304	41,292	12
Other public	16,156	8,078	8,078	--
Forest industry	5,983	7,461	7,461	--
Farmer and miscellaneous private	3,518	2,269	2,269	--
All ownerships	9,780	59,112	59,100	12
Sawtimber (Scribner rule):				
National Forest	10,025	36,613	36,602	11
Other public	14,070	7,035	7,035	--
Forest industry	5,157	6,431	6,431	--
Farmer and miscellaneous private	2,947	1,901	1,901	--
All ownerships	8,600	51,980	51,969	11

Table 20.--*Net volume of growing stock and sawtimber on commercial timberland by county and ownership class, Central Oregon, January 1, 1973*

County	All ownerships	National Forest	Other public	Forest industry	Farmer and miscellaneous private
----- Million cubic feet -----					
All growing stock:					
Crook	886	795	33	54	4
Deschutes	1,694	1,527	15	104	48
Jefferson	1,070	317	655	79	19
Klamath	4,791	3,107	274	983	427
Lake	2,223	1,635	2	583	3
Wasco	1,581	673	785	29	94
Wheeler ^{1/}	591	352	21	113	105
All counties	12,836	8,406	1,785	1,945	700
----- Million board feet -----					
Sawtimber (International 1/4-inch rule):					
Crook	4,590	4,293	160	124	13
Deschutes	7,667	7,066	35	403	163
Jefferson	5,500	1,889	3,286	304	21
Klamath	20,268	13,970	1,162	3,655	1,481
Lake	10,656	8,126	9	2,513	8
Wasco	7,683	3,929	3,323	99	332
Wheeler ^{1/}	2,748	2,031	103	363	251
All counties	59,112	41,304	8,078	7,461	2,269
Sawtimber (Scribner rule):					
Crook	4,100	3,842	145	102	11
Deschutes	6,799	6,288	29	349	133
Jefferson	4,892	1,724	2,891	260	17
Klamath	17,652	12,229	1,015	3,142	1,266
Lake	9,402	7,189	8	2,198	7
Wasco	6,720	3,521	2,855	78	266
Wheeler ^{1/}	2,415	1,820	92	302	201
All counties	51,980	36,613	7,035	6,431	1,901

^{1/} Includes Gilliam County.

Table 21.--*Net annual growth of growing stock and sawtimber on commercial timberland by ownership class and by softwoods and hardwoods, Central Oregon, 1972*

Ownership class	Growth per acre	All species	Softwoods	Hardwoods
<i>Cubic feet - - - - - Thousand cubic feet - - - - -</i>				
All growing stock:				
National Forest	31	111,900	111,900	--
Other public	64	32,200	32,200	--
Forest industry	36	45,400	45,400	(1/)
Farmer and miscellaneous private	36	23,400	23,400	--
All ownerships	35	212,900	212,900	(1/)
<i>Board feet - - - - - Thousand board feet - - - - -</i>				
Sawtimber (International 1/4-inch rule):				
National Forest	142	518,000	518,000	--
Other public	260	130,000	130,000	--
Forest industry	123	154,000	154,000	--
Farmer and miscellaneous private	109	70,000	70,000	--
All ownerships	144	872,000	872,000	--
Sawtimber (Scribner rule):				
National Forest	125	457,000	457,000	--
Other public	226	113,000	113,000	--
Forest industry	106	132,000	132,000	--
Farmer and miscellaneous private	91	59,000	59,000	--
All ownerships	126	761,000	761,000	--

^{1/} Less than 50,000 cubic feet.

Table 22.--Removals from growing stock and sawtimber on commercial timberland by ownership class and by softwoods and hardwoods, Central Oregon, 1972

Ownership class	Removals per acre	All species	Softwoods	Hardwoods
<i>Cubic feet - - - - - Thousand cubic feet - - - - -</i>				
All growing stock:				
National Forest	25	92,300	92,300	--
Other public	43	21,400	21,400	--
Forest industry	77	95,900	95,900	--
Farmer and miscellaneous private	13	8,500	8,500	--
All ownerships	36	218,100	218,100	--
<i>Board feet - - - - - Thousand board feet - - - - -</i>				
Sawtimber (International 1/4-inch rule):				
National Forest	160	584,200	584,200	--
Other public	246	123,000	123,000	--
Forest industry	430	536,000	536,000	--
Farmer and miscellaneous private	68	44,000	44,000	--
All ownerships	213	1,287,200	1,287,200	--
Sawtimber (Scribner rule):				
National Forest	144	526,700	526,700	--
Other public	224	112,000	112,000	--
Forest industry	392	489,000	489,000	--
Farmer and miscellaneous private	60	39,000	39,000	--
All ownerships	193	1,166,700	1,166,700	--

Table 23.--*Net volume of growing stock and sawtimber on commercial timberland by ownership class and by softwoods and hardwoods, Blue Mountain Oregon, January 1, 1973*

Ownership class	Volume per acre	All species	Softwoods	Hardwoods
<i>Cubic feet - - - - - Million cubic feet - - - - -</i>				
All growing stock:				
National Forest	2,588	8,645	8,642	3
Other public	1,738	146	145	1
Forest industry	1,484	564	564	--
Farmer and miscellaneous private	1,297	951	940	11
All ownerships	2,271	10,306	10,291	15
<i>Board feet - - - - - Million board feet - - - - -</i>				
Sawtimber (International 1/4-inch rule):				
National Forest	11,557	38,612	38,602	10
Other public	7,321	615	613	2
Forest industry	5,200	1,976	1,976	--
Farmer and miscellaneous private	4,121	3,021	2,978	43
All ownerships	9,745	44,224	44,169	55
Sawtimber (Scribner rule):				
National Forest	9,939	33,207	33,199	8
Other public	6,262	526	524	2
Forest industry	4,324	1,643	1,643	--
Farmer and miscellaneous private	3,422	2,508	2,466	42
All ownerships	8,348	37,884	37,832	52

Table 24.--Net volume of growing stock and sawtimber on commercial timberland by county and ownership class, Blue Mountain Oregon, January 1, 1973

County	All ownerships	National Forest	Other public	Forest industry	Farmer and miscellaneous private
----- Million cubic feet -----					
All growing stock:					
Baker	1,189	1,034	10	8	137
Grant	3,427	3,109	42	94	182
Harney	788	770	(1/)	4	14
Malheur	11	2	9	(2/)	--
Morrow	443	319	2	69	53
Umatilla	1,149	865	58	94	132
Union	1,691	1,328	10	127	226
Wallowa	1,608	1,218	15	168	207
All counties	10,306	8,645	146	564	951
----- Million board feet -----					
Sawtimber (International 1/4-inch rule):					
Baker	5,324	4,777	79	34	434
Grant	14,705	13,670	150	294	591
Harney	4,242	4,162	(1/)	12	68
Malheur	50	10	39	1	--
Morrow	1,741	1,262	6	280	193
Umatilla	4,754	3,634	246	347	527
Union	6,326	5,264	34	379	649
Wallowa	7,082	5,833	61	629	559
All counties	44,224	38,612	615	1,976	3,021
Sawtimber (Scribner rule):					
Baker	4,580	4,118	67	28	367
Grant	12,707	11,840	130	251	486
Harney	3,701	3,628	(1/)	11	62
Malheur	41	8	32	1	--
Morrow	1,469	1,075	5	224	165
Umatilla	4,024	3,080	210	288	446
Union	5,329	4,459	29	310	531
Wallowa	6,033	4,999	53	530	451
All counties	37,884	33,207	526	1,643	2,508

1/ Combined with Malheur County.

2/ Less than 500,000 cubic feet.

Table 25.--*Net annual growth of growing stock and sawtimber on commercial timberland by ownership class and by softwoods and hardwoods, Blue Mountain Oregon, 1972*

Ownership class	Growth per acre	All species	Softwoods	Hardwoods
	<i>Cubic feet</i>	- - - - -	<i>Thousand cubic feet</i>	- - - - -
All growing stock:				
National Forest	38	125,400	125,400	--
Other public	32	2,700	2,700	--
Forest industry	19	7,300	7,300	--
Farmer and miscellaneous private	38	28,100	28,200	$\frac{1}{-}$ 100
All ownerships	36	163,500	163,600	$\frac{1}{-}$ 100
	<i>Board feet</i>	- - - - -	<i>Thousand board feet</i>	- - - - -
Sawtimber (International 1/4-inch rule):				
National Forest	154	515,000	515,000	--
Other public	143	12,000	12,000	--
Forest industry	92	35,000	35,000	--
Farmer and miscellaneous private	150	110,000	109,600	400
All ownerships	148	672,000	671,600	400
Sawtimber (Scribner rule):				
National Forest	130	434,000	434,000	--
Other public	119	10,000	10,000	--
Forest industry	79	30,000	30,000	--
Farmer and miscellaneous private	126	92,000	91,500	500
All ownerships	125	566,000	565,500	500

$\frac{1}{-}$ Negative net growth is the result of mortality exceeding gross growth.

Table 26.--Removals from growing stock and sawtimber on commercial timberland by ownership class and by softwoods and hardwoods, Blue Mountain Oregon, 1972

Ownership class	Removals per acre	All species	Softwoods	Hardwoods
<i>Cubic feet - - - - - Thousand cubic feet - - - - -</i>				
All growing stock:				
National Forest	30	101,700	101,700	--
Other public	27	2,300	2,300	--
Forest industry	34	13,100	13,100	--
Farmer and miscellaneous private	20	14,400	14,400	--
All ownerships	29	131,500	131,500	--
<i>Board feet - - - - - Thousand board feet - - - - -</i>				
Sawtimber (International 1/4-inch rule):				
National Forest	200	669,300	669,300	--
Other public	155	13,000	13,000	--
Forest industry	195	74,000	74,000	--
Farmer and miscellaneous private	109	80,000	80,000	--
All ownerships	184	836,300	836,300	--
Sawtimber (Scribner rule):				
National Forest	181	605,000	605,000	--
Other public	143	12,000	12,000	--
Forest industry	176	67,000	67,000	--
Farmer and miscellaneous private	98	72,000	72,000	--
All ownerships	167	756,000	756,000	--

DEFINITIONS

Commercial Timberland

Forest land producing or capable of producing crops of industrial wood and not withdrawn from timber utilization by statute or administrative regulation.

Deferred Forest Land

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

Farmer and Miscellaneous Private Lands

Private lands other than those owned by forest industry.

Forest Industry Lands

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

Forest Land

Land at least 10 percent stocked by forest trees of any size, or formerly having had such tree cover and not currently developed for nonforest use. (Also see "Commercial Timberland," "Productive-reserved Forest Land," and "Unproductive Forest Land.") Includes chaparral areas and afforested acres. The minimum area for classification as 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, and clearings in forest areas are classed as forest land if less than 120 feet wide.

Growing Stock Volume

Net volume in cubic feet of live sawtimber and poletimber trees from stump to a minimum 4-inch stem top (of central stem) outside bark or to the point where the central stem breaks into limbs.

Hardwoods

Dicotyledonous trees, usually broad leaved and deciduous.

Land Area

a. Bureau of the Census. Area of dry land and land temporarily or partially covered by water such as marshes, swamps, and river flood plains (omitting tidal flats below mean high tide); streams, sloughs, estuaries, and canals less than one-eighth of a statute mile in width; and lakes, reservoirs, and ponds less than 40 acres in area.

b. Forest Survey. Same as the Bureau of the Census except minimum width of streams, etc., is 120 feet and minimum size of lakes, etc., is 1 acre.

National Forest Land

Federal lands which have been designated by Executive order or statute as National Forests and other lands under the administration of the Forest Service, including experimental areas and Bankhead-Jones Title III lands.

Net Annual Growth

The annual change in volume of sound wood in live sawtimber and poletimber trees resulting from natural causes.

Net Volume in Board Feet

The gross board-foot volume of trees less deductions for rot or other defect affecting use of lumber.

Net Volume in Cubic Feet

Gross volume in cubic feet less deductions for rot.

Nonforest Land

Land that has never supported forests and lands formerly forested but now developed for nonforest uses such as crops, improved pasture, residential areas, city parks, improved roads and adjoining rights-of-way, powerline clearings, and certain areas of water classified by the Bureau of the Census as land (see definition for "Land Area"). In forest areas, unimproved roads, streams, canals, and nonforest strips must be more than 120 feet wide, and clearings in forest areas must be more than 1 acre in size, to qualify as nonforest land.

Other Public Lands

Federal lands other than National Forests, including lands administered by the Bureau of Land Management and Bureau of Indian Affairs, and miscellaneous Federal agencies, and lands owned by States, counties, and local public agencies, or lands leased by these governmental units for more than 50 years.

Productive-reserved Forest Land

Productive public forest land withdrawn from timber utilization through statute or administrative regulation.

Removals

Volume of live sound timber removed from the growing stock inventory including timber products and logging residue.

Sawtimber Trees

Live trees of commercial species, at least 11.0 inches in diameter at breast height. Softwood trees must contain at least one 12-foot saw log with a top diameter of not less than 6 inches inside bark; hardwood trees must contain at least one 8-foot saw log with a top diameter of not less than 8 inches inside bark. At least 25 percent of the board-foot volume in a tree must be free of defect for either softwoods or hardwoods.

Sawtimber Volume

Net volume of the saw-log portion of live sawtimber trees in board feet.

Softwoods

Coniferous trees, usually evergreen, with needles or scalelike leaves.

Timber Removals

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

Unproductive Forest Land

Forest land incapable of yielding crops of industrial wood because of adverse site conditions. Includes sterile or poorly drained forest land, subalpine forests, and steep rocky areas where topographic conditions are likely to prevent management for timber production.

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