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TIMBER RESOURCE STATISTICS FOR WASHINGTON

JANUARY 1, 1973

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ABSTRACT

Timber resource statistics to January 1, 1973, for the State of Washington 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.

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

PREFACE

For an area as large as Washington, a complete 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 Washington 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; other lands, by Forest Survey. Data for all lands were assembled by Forest Survey and published for each of five inventory units in the State (Arbogast 1974; Bolsinger 1969, 1971; Hazard 1965; Howard 1973).

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. Land base changes, utilization, and ingrowth 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 each of 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), with the exception of the Inland Empire area in eastern Washington. The Inland Empire data used for the "Outlook" report were preliminary and have been modified.

In updating the "Outlook" report data from 1970, we adjusted area and volume to account for change since that time. Area was adjusted to account for nominal losses from 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 came from the annual timber harvest reports of the Washington Department of Natural Resources (State of Washington 1962-72), as well as from timber harvesting data compiled by National Forest Administration. The inventory volumes by ownership for each inventory unit were then proportioned among the counties within units. To determine proportions, we first 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.

The 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. Since the counties within a unit are generally homogeneous, the estimates of total growth for the ownership derived in this manner appear reasonable. Available information and procedures are not considered adequate to allocate growth to counties.

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 softwoods

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 estimates.

METRIC CONVERSIONS

1,000 acres	= 404.71 hectares
1,000 cubic feet	= 28.3 cubic meters
1 cubic foot per acre	= 0.7 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 county and inventory unit, Washington, January 1, 1973

(In thousand acres)

County and inventory unit	Total land area ^{1/}	Forest land				Nonforest land ^{2/}	
		Total	Commercial	Productive-- reserved	Deferred		Unproductive
WESTERN WASHINGTON							
Olympic Peninsula:							
Clallam	1,122	971	684	168	--	119	151
Grays Harbor	1,222	1,107	1,076	10	--	21	115
Jefferson	1,155	1,031	528	318	--	185	124
Mason	616	554	464	56	--	34	62
Thurston	457	298	282	1	--	15	159
Total	4,572	3,961	3,034	553	--	374	611
Puget Sound:							
Island	136	79	77	2	--	--	57
King	1,363	909	729	1	37	142	454
Kitsap	251	182	171	10	--	1	69
Pierce	1,073	741	558	94	--	89	332
San Juan	115	81	--	81	--	--	34
Skagit	1,111	843	567	56	--	220	268
Snohomish	1,343	995	676	50	18	251	348
Whatcom	1,361	944	435	155	--	354	417
Total	6,753	4,774	3,213	449	55	1,057	1,979
Southwest Washington:							
Clark	401	219	217	(3/)	--	2	182
Cowlitz	732	646	643	(3/)	--	3	86
Lewis	1,567	1,364	1,224	58	--	82	203
Pacific	581	535	518	2	--	15	46
Skamania	1,070	1,001	912	11	--	78	69
Wahkiakum	167	149	140	--	--	9	18
Total	4,518	3,914	3,654	71	--	189	604
Total western Washington	15,843	12,649	9,901	1,073	55	1,620	3,194
EASTERN WASHINGTON							
Central Washington:							
Benton	1,102	--	--	--	--	--	1,102
Chelan-Douglas	3,050	1,316	746	66	42	462	1,734
Grant	1,716	--	--	--	--	--	1,716
Kittitas	1,485	769	655	(3/)	14	100	716
Klickitat	1,221	556	503	1	--	52	665
Okanogan	3,393	2,275	1,618	203	--	454	1,118
Yakima	2,734	1,089	840	60	28	161	1,645
Total	14,701	6,005	4,362	330	84	1,229	8,696
Inland Empire:							
Adams	1,212	--	--	--	--	--	1,212
Asotin	405	65	55	(3/)	--	10	340
Columbia	551	172	125	1	--	46	379
Ferry	1,409	1,229	1,111	4	--	114	180
Franklin	806	--	--	--	--	--	806
Garfield	456	90	65	--	--	25	366
Lincoln	1,475	80	77	2	--	1	1,395
Pend Oreille	897	805	778	3	4	20	92
Spokane	1,125	438	408	28	--	2	687
Stevens	1,588	1,336	1,296	5	--	35	252
Walla Walla	811	15	13	--	--	2	796
Whitman	1,386	9	9	--	--	--	1,377
Total	12,121	4,239	3,937	43	4	255	7,882
Total eastern Washington	26,822	10,244	8,299	373	88	1,484	16,578
Total Washington	42,665	22,893	18,200	1,446	143	3,104	19,772

^{1/} U.S. Bureau of the Census, Land and Water Area of the United States, 1960. (Revised February 1965.)

^{2/} Includes 87,000 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 county and inventory unit,
Washington, January 1, 1973

(In thousand acres)

County and inventory unit	All ownerships	National Forest	Other public	Forest industry	Farmer and miscellaneous private
WESTERN WASHINGTON					
Olympic Peninsula:					
Clallam	684	178	183	217	106
Grays Harbor	1,076	130	263	484	199
Jefferson	528	122	201	115	90
Mason	464	103	63	223	75
Thurston	282	(1/)	74	93	115
Total	3,034	533	784	1,132	585
Puget Sound:					
Island	77	--	5	5	67
King	729	157	129	243	200
Kitsap	171	--	35	27	109
Pierce	558	113	82	201	162
Skagit	567	144	119	194	110
Snohomish	676	221	135	115	205
Whatcom	435	110	90	101	134
Total	3,213	745	595	886	987
Southwest Washington:					
Clark	217	1	54	44	118
Cowlitz	643	18	76	411	138
Lewis	1,224	325	109	543	247
Pacific	518	--	67	385	66
Skamania	912	692	76	90	54
Wahkiakum	140	--	29	90	21
Total	3,654	1,036	411	1,563	644
Total western Washington	9,901	2,314	1,790	3,581	2,216
EASTERN WASHINGTON					
Central Washington:					
Chelan-Douglas	746	549	48	65	84
Kittitas	655	265	86	109	195
Klickitat	503	10	125	194	174
Okanogan	1,618	765	554	29	270
Yakima	840	271	508	39	22
Total	4,362	1,860	1,321	436	745
Inland Empire:					
Asotin	55	24	3	--	28
Columbia	125	72	5	4	44
Ferry	1,111	408	529	46	128
Garfield	65	51	2	1	11
Lincoln	77	--	7	--	70
Pend Oreille	778	460	41	41	236
Spokane	408	--	21	24	363
Stevens	1,296	225	338	186	547
Walla Walla	13	--	1	--	12
Whitman	9	--	(1/)	--	9
Total	3,937	1,240	947	302	1,448
Total eastern Washington	8,299	3,100	2,268	738	2,193
Total Washington	18,200	5,414	4,058	4,319	4,409

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, Washington^{1/}

Ownership class		Growing stock			Sawtimber (International 1/4-inch rule)			Sawtimber (Scribner rule)		
Species	Area	Volume	Growth	Removals	Volume	Growth	Removals	Volume	Growth	Removals
	<i>Thousand acres</i>	<i>Million cubic feet</i>	<i>- Thousand cubic feet -</i>		<i>Million board feet</i>	<i>- - Thousand board feet - -</i>		<i>Million board feet</i>	<i>- - Thousand board feet - -</i>	
WESTERN WASHINGTON										
National Forest:	2,314									
Softwoods		15,027	78,100	150,300	90,224	449,000	1,008,000	71,394	345,000	815,000
Hardwoods		133	4,100	(2/)	606	17,000	(3/)	459	13,000	(3/)
All species		15,160	82,200	150,300	90,830	466,000	1,008,000	71,853	358,000	815,000
Other public:	1,790									
Softwoods		8,382	205,200	224,000	42,531	988,000	1,466,000	31,531	705,000	1,184,000
Hardwoods		1,064	52,500	5,800	2,899	146,000	23,000	2,808	142,000	22,000
All species		9,446	257,700	229,800	45,430	1,134,000	1,489,000	34,339	847,000	1,206,000
Forest industry:	3,581									
Softwoods		12,376	319,900	662,300	67,316	1,588,000	3,964,000	51,109	1,163,000	3,105,000
Hardwoods		2,035	92,300	35,300	5,711	309,000	119,000	5,545	301,000	114,000
All species		14,411	412,200	697,600	73,027	1,897,000	4,083,000	56,654	1,464,000	3,219,000
Farmer and miscellaneous private:	2,216									
Softwoods		4,906	201,100	166,900	21,845	960,000	835,000	15,590	685,000	615,000
Hardwoods		2,319	100,000	15,700	7,408	331,000	59,000	7,196	322,000	57,000
All species		7,225	301,100	182,600	29,253	1,291,000	894,000	22,786	1,007,000	672,000
Total western Washington:	9,901									
Softwoods		40,691	804,300	1,203,500	221,916	3,985,000	7,273,000	169,624	2,898,000	5,719,000
Hardwoods		5,551	248,900	56,800	16,624	803,000	201,000	16,008	778,000	193,000
All species		46,242	1,053,200	1,260,300	238,540	4,788,000	7,474,000	185,632	3,676,000	5,912,000
EASTERN WASHINGTON										
National Forest:	3,100									
Softwoods		8,275	94,800	81,800	37,298	397,100	513,000	32,129	339,500	452,000
Hardwoods		34	1,100	--	94	2,900	--	87	2,500	--
All species		8,309	95,900	81,800	37,392	400,000	513,000	32,216	342,000	452,000
Other public:	2,268									
Softwoods		4,818	61,100	75,600	20,687	291,500	440,000	17,860	251,400	403,000
Hardwoods		58	600	--	211	4,500	--	207	4,600	--
All species		4,876	61,700	75,600	20,898	296,000	440,000	18,067	256,000	403,000
Forest industry:	738									
Softwoods		1,341	32,100	24,300	5,145	127,700	135,000	4,352	106,700	121,000
Hardwoods		18	500	--	42	1,300	--	40	1,300	--
All species		1,359	32,600	24,300	5,187	129,000	135,000	4,392	108,000	121,000
Farmer and miscellaneous private:	2,193									
Softwoods		3,144	75,500	36,900	10,246	298,900	197,900	8,445	246,800	174,900
Hardwoods		65	1,700	--	87	1,100	100	82	1,200	100
All species		3,209	77,200	36,900	10,333	300,000	198,000	8,527	248,000	175,000
Total eastern Washington:	8,299									
Softwoods		17,578	263,500	218,600	73,376	1,115,200	1,285,900	62,786	944,400	1,150,900
Hardwoods		175	3,900	--	434	9,800	100	416	9,600	100
All species		17,753	267,400	218,600	73,810	1,125,000	1,286,000	63,202	954,000	1,151,000
Total Washington:	18,200									
Softwoods		58,269	1,067,800	1,422,100	295,292	5,100,200	8,558,900	232,410	3,842,400	6,869,900
Hardwoods		5,726	252,800	56,800	19,058	812,800	201,100	16,424	787,600	193,100
All species		63,995	1,320,600	1,478,900	312,350	5,913,000	8,760,000	248,834	4,630,000	7,063,000

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

^{2/} Less than 50,000 cubic feet.

^{3/} Less than 50,000 board feet.

Table 4.--Area of commercial timberland, net volume, net annual growth, and removals of growing stock, by ownership class and by softwoods and hardwoods, Washington^{1/}

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

Ownership class		Volume	Growth	Removals
Species	Area			
	Thousand hectares	Million cubic meters	- - - - Thousand cubic meters - - - -	
WESTERN WASHINGTON				
National Forest:	937			
Softwoods		425	2,200	4,300
Hardwoods		4	100	(2/)
All species		429	2,300	4,300
Other public:	724			
Softwoods		238	5,800	6,300
Hardwoods		30	1,500	200
All species		268	7,300	6,500
Forest industry:	1,449			
Softwoods		350	9,100	18,800
Hardwoods		58	2,600	1,000
All species		408	11,700	19,800
Farmer and miscellaneous private:	897			
Softwoods		139	5,700	4,700
Hardwoods		66	2,800	400
All species		205	8,500	5,100
Total western Washington:	4,007			
Softwoods		1,152	22,800	34,100
Hardwoods		158	7,000	1,600
All species		1,310	29,800	35,700
EASTERN WASHINGTON				
National Forest:	1,254			
Softwoods		234	2,700	2,300
Hardwoods		1	(2/)	--
All species		235	2,700	2,300
Other public:	918			
Softwoods		136	1,800	2,100
Hardwoods		2	(2/)	(2/)
All species		138	1,800	2,100
Forest industry:	299			
Softwoods		38	900	700
Hardwoods		(3/)	(2/)	--
All species		38	900	700
Farmer and miscellaneous private:	888			
Softwoods		89	2,100	1,000
Hardwoods		2	100	--
All species		91	2,200	1,000
Total eastern Washington:	3,359			
Softwoods		498	7,500	6,200
Hardwoods		5	100	(2/)
All species		503	7,600	6,200
Total Washington:	7,366			
Softwoods		1,650	30,300	40,300
Hardwoods		163	7,100	1,600
All species		1,813	37,400	41,900

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

^{2/} Less than 50,000 cubic meters.

^{3/} Less than 500,000 cubic meters.

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, Washington^{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 --	
Colville:	836									
Softwoods		1,330	20,900	11,800	4,973	90,000	68,000	4,257	78,000	62,200
Hardwoods		13	600	--	9	--	--	9	--	--
All species		1,343	21,500	11,800	4,982	90,000	68,000	4,266	78,000	62,200
Gifford Pinchot:	1,095									
Softwoods		6,797	54,800	68,000	38,631	341,000	440,000	29,939	261,000	352,000
Hardwoods		35	500	--	138	2,000	--	132	2,000	--
All species		6,832	55,300	68,000	38,769	343,000	440,000	30,071	263,000	352,000
Kaniksu: ^{2/}	257									
Softwoods		552	10,200	8,700	2,068	45,100	52,000	1,761	38,200	47,000
Hardwoods		6	200	--	32	900	--	27	800	--
All species		558	10,400	8,700	2,100	46,000	52,000	1,788	39,000	47,000
Mount Baker:	406									
Softwoods		3,189	10,200	23,800	19,243	51,000	158,000	15,509	40,000	131,000
Hardwoods		40	1,900	--	192	7,000	--	134	5,000	--
All species		3,229	12,100	23,800	19,435	58,000	158,000	15,643	45,000	131,000
Okanogan:	765									
Softwoods		1,675	16,800	19,000	7,236	66,300	126,000	6,106	55,600	109,000
Hardwoods		9	200	--	30	1,700	--	29	1,400	--
All species		1,684	17,000	19,000	7,266	68,000	126,000	6,135	57,000	109,000
Olympic:	533									
Softwoods		3,485	8,600	40,400	22,822	31,000	290,000	18,436	22,000	237,000
Hardwoods		38	1,200	(3/)	177	5,000	(4/)	127	4,000	(4/)
All species		3,523	9,800	40,400	22,999	36,000	290,000	18,563	26,000	237,000
Snoqualmie:	601									
Softwoods		3,027	16,500	30,000	17,386	80,700	198,000	14,215	67,700	162,000
Hardwoods		24	600	--	119	3,300	--	85	2,300	--
All species		3,051	17,100	30,000	17,505	84,000	198,000	14,300	70,000	162,000
Umatilla: ^{2/}	147									
Softwoods		460	5,400	2,700	2,007	26,000	18,000	1,709	22,000	16,000
Hardwoods		--	--	--	--	--	--	--	--	--
All species		460	5,400	2,700	2,007	26,000	18,000	1,709	22,000	16,000
Wenatchee:	774									
Softwoods		2,787	29,500	27,700	13,156	115,000	171,000	11,591	100,000	151,000
Hardwoods		2	--	--	3	(4/)	--	3	(4/)	--
All species		2,789	29,500	27,700	13,159	115,000	171,000	11,594	100,000	151,000
All National Forests:	5,414									
Softwoods		23,302	172,900	232,100	127,522	846,100	1,521,000	103,523	684,500	1,267,000
Hardwoods		167	5,200	(3/)	700	19,900	(4/)	546	15,500	(4/)
All species		23,469	178,100	232,100	128,222	866,000	1,521,000	104,069	700,000	1,267,000

^{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. These figures do not provide a basis for evaluating the current level of timber removals in terms of each forest's management objectives.

^{2/} Most of the Kaniksu National Forest is in Idaho, and most of the Umatilla National Forest is in Oregon.

^{3/} Less than 50,000 cubic feet.

^{4/} Less than 50,000 board feet.

^{5/} Includes salvage from 1970 fires.

Table 6.--*Net volume of growing stock and sawtimber on commercial timberland by ownership class and by softwoods and hardwoods, Olympic Peninsula, Washington, 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	6,610	3,523	3,485	38
Other public	5,820	4,563	4,168	395
Forest industry	4,261	4,823	3,996	827
Farmer and miscellaneous private	3,993	2,336	1,747	589
All ownerships	5,025	15,245	13,396	1,849
	<i>Board feet</i>	<i>----- Million board feet -----</i>		
Sawtimber (International 1/4-inch rule):				
National Forest	43,150	22,999	22,822	177
Other public	28,625	22,442	21,530	912
Forest industry	20,014	22,656	20,422	2,234
Farmer and miscellaneous private	16,552	9,683	7,714	1,969
All ownerships	25,636	77,780	72,488	5,292
Sawtimber (Scribner rule):				
National Forest	34,827	18,563	18,436	127
Other public	21,446	16,814	15,931	883
Forest industry	15,004	16,985	14,813	2,172
Farmer and miscellaneous private	12,629	7,388	5,482	1,906
All ownerships	19,693	59,750	54,662	5,088

Table 7.--*Net volume of growing stock and sawtimber on commercial timberland by county and by ownership class, Olympic Peninsula, Washington, January 1, 1973*

County	All ownerships	National Forest	Other public	Forest industry	Farmer and miscellaneous private
----- Million cubic feet -----					
All growing stock:					
Clallam	4,029	1,009	1,189	1,130	701
Grays Harbor	4,654	933	875	1,973	873
Jefferson	3,840	843	2,173	566	258
Mason	2,055	735	162	841	317
Thurston	667	3	164	313	187
All counties	15,245	3,523	4,563	4,823	2,336
----- Million board feet -----					
Sawtimber (International 1/4-inch rule):					
Clallam	21,155	6,377	5,597	5,853	3,328
Grays Harbor	22,530	6,461	3,830	8,468	3,771
Jefferson	21,437	5,449	11,983	3,129	876
Mason	10,095	4,693	474	3,774	1,154
Thurston	2,563	19	558	1,432	554
All counties	77,780	22,999	22,442	22,656	9,683
Sawtimber (Scribner rule):					
Clallam	16,122	4,938	4,159	4,461	2,564
Grays Harbor	17,164	5,357	2,707	6,229	2,871
Jefferson	16,654	4,361	9,200	2,417	676
Mason	7,849	3,890	318	2,771	870
Thurston	1,961	17	430	1,107	407
All counties	59,750	18,563	16,814	16,985	7,388

Table 8.--*Net annual growth of growing stock and sawtimber on commercial timberland by ownership class and by softwoods and hardwoods, Olympic Peninsula, Washington, 1972*

Ownership class	Growth per acre	All species	Softwoods	Hardwoods
<i>Cubic feet - - - - - Thousand cubic feet - - - - -</i>				
All growing stock:				
National Forest	18	9,800	8,600	1,200
Other public	138	108,000	83,400	24,600
Forest industry	146	165,700	121,600	44,100
Farmer and miscellaneous private	178	104,200	75,300	28,900
All ownerships	128	387,700	288,900	98,800
<i>Board feet - - - - - Thousand board feet - - - - -</i>				
Sawtimber (International 1/4-inch rule):				
National Forest	68	36,000	31,000	5,000
Other public	542	425,000	377,000	48,000
Forest industry	731	828,000	684,000	144,000
Farmer and miscellaneous private	725	424,000	332,000	92,000
All ownerships	565	1,713,000	1,424,000	289,000
Sawtimber (Scribner rule):				
National Forest	49	26,000	22,000	4,000
Other public	395	310,000	264,000	46,000
Forest industry	563	637,000	497,000	140,000
Farmer and miscellaneous private	547	320,000	231,000	89,000
All ownerships	426	1,293,000	1,014,000	279,000

Table 9.--Removals from growing stock and sawtimber on commercial timberland by ownership class and by softwoods and hardwoods, Olympic Peninsula, Washington, 1972

Ownership class	Removals per acre	All species	Softwoods	Hardwoods
<i>Cubic feet - - - - - Thousand cubic feet - - - - -</i>				
All growing stock:				
National Forest	76	40,400	40,400	(1/)
Other public	183	143,500	142,700	800
Forest industry	136	154,100	149,100	5,000
Farmer and miscellaneous private	99	57,800	53,300	4,500
All ownerships	130	395,800	385,500	10,300
<i>Board feet - - - - - Thousand board feet - - - - -</i>				
Sawtimber (International 1/4-inch rule):				
National Forest	544	290,000	290,000	(2/)
Other public	1,173	920,000	918,000	2,000
Forest industry	753	853,000	836,000	17,000
Farmer and miscellaneous private	497	291,000	272,000	19,000
All ownerships	776	2,354,000	2,316,000	38,000
Sawtimber (Scribner rule):				
National Forest	445	237,000	237,000	(2/)
Other public	936	734,000	732,000	2,000
Forest industry	568	644,000	628,000	16,000
Farmer and miscellaneous private	369	216,000	198,000	18,000
All ownerships	603	1,831,000	1,795,000	36,000
<u>1/</u> Less than 50,000 cubic feet.				
<u>2/</u> Less than 50,000 board feet.				

Table 10.--*Net volume of growing stock and sawtimber on commercial timberland by ownership class and by softwoods and hardwoods, Puget Sound, Washington, 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	6,851	5,104	5,039	65
Other public	4,615	2,746	2,373	373
Forest industry	3,210	2,844	2,347	497
Farmer and miscellaneous private	3,278	3,235	2,133	1,102
All ownerships	4,335	13,929	11,892	2,037
<i>Board feet</i>		<i>----- Million board feet -----</i>		
Sawtimber (International 1/4-inch rule):				
National Forest	41,314	30,779	30,474	305
Other public	19,570	11,644	10,504	1,140
Forest industry	13,797	12,224	11,006	1,218
Farmer and miscellaneous private	13,203	13,031	9,586	3,445
All ownerships	21,064	67,678	61,570	6,108
Sawtimber (Scribner rule):				
National Forest	32,961	24,556	24,344	212
Other public	14,163	8,427	7,321	1,106
Forest industry	10,209	9,045	7,866	1,179
Farmer and miscellaneous private	10,015	9,885	6,533	3,352
All ownerships	16,157	51,913	46,064	5,849

Table 11.--Net volume of growing stock and sawtimber on commercial timberland by county and by ownership class, Puget Sound, Washington, January 1, 1973

County	All ownerships	National Forest	Other public	Forest industry	Farmer and miscellaneous private
----- Million cubic feet -----					
All growing stock:					
Island-Kitsap	910	--	159	81	670
King	3,231	816	584	1,144	687
Pierce	1,666	676	303	438	249
Skagit	2,519	1,106	492	582	339
Snohomish	3,462	1,719	762	213	768
Whatcom	2,141	787	446	386	522
All counties	13,929	5,104	2,746	2,844	3,235
----- Million board feet -----					
Sawtimber (International 1/4-inch rule):					
Island-Kitsap	3,552	--	543	176	2,833
King	15,844	4,920	2,624	5,280	3,020
Pierce	8,132	4,117	1,283	1,865	867
Skagit	12,339	6,650	1,766	2,499	1,424
Snohomish	17,526	10,324	3,549	730	2,923
Whatcom	10,285	4,768	1,879	1,674	1,964
All counties	67,678	30,779	11,644	12,224	13,031
Sawtimber (Scribner rule):					
Island-Kitsap	2,520	--	363	126	2,031
King	11,976	3,864	1,902	3,907	2,303
Pierce	6,140	3,199	923	1,366	652
Skagit	9,604	5,384	1,219	1,872	1,129
Snohomish	13,740	8,279	2,632	555	2,274
Whatcom	7,933	3,830	1,388	1,219	1,496
All counties	51,913	24,556	8,427	9,045	9,885

Table 12.--*Net annual growth of growing stock and sawtimber on commercial timberland by ownership class and by softwoods and hardwoods, Puget Sound, Washington, 1972*

Ownership class	Growth per acre	All species	Softwoods	Hardwoods
<i>Cubic feet - - - - - Thousand cubic feet - - - - -</i>				
All growing stock:				
National Forest	26	19,500	17,100	2,400
Other public	146	86,700	75,000	11,700
Forest industry	105	93,400	74,600	18,800
Farmer and miscellaneous private	119	117,500	81,500	36,000
All ownerships	99	317,100	248,200	68,900
<i>Board feet - - - - - Thousand board feet - - - - -</i>				
Sawtimber (International 1/4-inch rule):				
National Forest	137	102,400	92,300	10,100
Other public	696	414,000	363,000	51,000
Forest industry	438	388,000	315,000	73,000
Farmer and miscellaneous private	566	559,000	433,000	126,000
All ownerships	455	1,463,400	1,203,300	260,100
Sawtimber (Scribner rule):				
National Forest	108	80,700	73,600	7,100
Other public	501	298,000	248,000	50,000
Forest industry	323	286,000	215,000	71,000
Farmer and miscellaneous private	430	424,000	301,000	123,000
All ownerships	339	1,088,700	837,600	251,100

Table 13.--Removals from growing stock and sawtimber on commercial timberland by ownership class and by softwoods and hardwoods, Puget Sound, Washington, 1972

Ownership class	Removals per acre	All species	Softwoods	Hardwoods
<i>Cubic feet - - - - - Thousand cubic feet - - - - -</i>				
All growing stock:				
National Forest	64	47,500	47,500	--
Other public	77	46,100	43,800	2,300
Forest industry	234	206,900	188,000	18,900
Farmer and miscellaneous private	86	84,800	76,100	8,700
All ownerships	120	385,300	355,400	29,900
<i>Board feet - - - - - Thousand board feet - - - - -</i>				
Sawtimber (International 1/4-inch rule):				
National Forest	422	314,100	314,100	--
Other public	462	275,000	267,000	8,000
Forest industry	1,212	1,074,000	1,013,000	61,000
Farmer and miscellaneous private	413	408,000	377,000	31,000
All ownerships	645	2,071,100	1,971,100	100,000
Sawtimber (Scribner rule):				
National Forest	343	255,300	255,300	--
Other public	365	217,000	210,000	7,000
Forest industry	919	814,000	755,000	59,000
Farmer and miscellaneous private	300	296,000	266,000	30,000
All ownerships	492	1,582,300	1,486,300	96,000

Table 14.--*Net volume of growing stock and sawtimber on commercial timberland by ownership class and by softwoods and hardwoods, southwest Washington, 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	6,306	6,533	6,503	30
Other public	5,200	2,137	1,841	296
Forest industry	4,315	6,744	6,033	711
Farmer and miscellaneous private	2,568	1,654	1,026	628
All ownerships	4,671	17,068	15,403	1,665
	<i>Board feet</i>	<i>- - - - - Million board feet - - - - -</i>		
Sawtimber (International 1/4-inch rule):				
National Forest	35,765	37,052	36,928	124
Other public	27,601	11,344	10,497	847
Forest industry	24,406	38,147	35,888	2,259
Farmer and miscellaneous private	10,154	6,539	4,545	1,994
All ownerships	25,474	93,082	87,858	5,224
Sawtimber (Scribner rule):				
National Forest	27,736	28,734	28,614	120
Other public	22,136	9,098	8,279	819
Forest industry	19,593	30,624	28,430	2,194
Farmer and miscellaneous private	8,561	5,513	3,575	1,938
All ownerships	20,243	73,969	68,898	5,071

Table 15.--*Net volume of growing stock and sawtimber on commercial timberland by county and by ownership class, southwest Washington, January 1, 1973*

County	All ownerships	National Forest	Other public	Forest industry	Farmer and miscellaneous private
----- Million cubic feet -----					
All growing stock:					
Clark	<u>1/</u> 257	2	94	104	<u>1/</u> 57
Cowlitz	3,014	120	426	2,148	320
Lewis	5,841	2,618	494	1,833	896
Pacific	<u>1/</u> 2,228	--	320	1,553	355
Skamania	<u>1/</u> 5,118	3,793	660	665	(<u>1/</u>)
Wahkiakum	610	--	143	441	26
All counties	17,068	6,533	2,137	6,744	1,654
----- Million board feet -----					
Sawtimber (International 1/4-inch rule)					
Clark	<u>1/</u> 933	5	401	340	<u>1/</u> 187
Cowlitz	17,440	726	2,673	12,671	1,370
Lewis	30,924	14,871	2,585	9,902	3,566
Pacific	<u>1/</u> 11,814	--	1,553	8,902	1,359
Skamania	<u>1/</u> 28,981	21,450	3,579	3,952	(<u>1/</u>)
Wahkiakum	2,990	--	553	2,380	57
All counties	93,082	37,052	11,344	38,147	6,539
Sawtimber (Scribner rule):					
Clark	<u>1/</u> 724	4	307	260	<u>1/</u> 153
Cowlitz	14,234	600	2,158	10,317	1,159
Lewis	23,972	10,996	2,066	7,881	3,029
Pacific	<u>1/</u> 9,562	--	1,269	7,165	1,128
Skamania	<u>1/</u> 23,150	17,134	2,860	3,156	(<u>1/</u>)
Wahkiakum	2,327	--	438	1,845	44
All counties	73,969	28,734	9,098	30,624	5,513

1/ Skamania County combined with Clark County in farmer and miscellaneous private ownership class.

Table 16.--*Net annual growth of growing stock and sawtimber on commercial timberland by ownership class and by softwoods and hardwoods, southwest Washington, 1972*

Ownership class	Growth per acre	All species	Softwoods	Hardwoods
	<i>Cubic feet</i>	<i>- - - - - Thousand cubic feet - - - - -</i>		
All growing stock:				
National Forest	51	52,900	52,400	500
Other public	153	63,000	46,800	16,200
Forest industry	98	153,100	123,700	29,400
Farmer and miscellaneous private	123	79,400	44,300	35,100
All ownerships	95	348,400	267,200	81,200
	<i>Board feet</i>	<i>- - - - - Thousand board feet - - - - -</i>		
Sawtimber (International 1/4-inch rule):				
National Forest	316	327,600	325,700	1,900
Other public	718	295,000	248,000	47,000
Forest industry	436	681,000	589,000	92,000
Farmer and miscellaneous private	478	308,000	195,000	113,000
All ownerships	441	1,611,600	1,357,700	253,900
Sawtimber (Scribner rule):				
National Forest	243	251,300	249,400	1,900
Other public	582	239,000	193,000	46,000
Forest industry	346	541,000	451,000	90,000
Farmer and miscellaneous private	408	263,000	153,000	110,000
All ownerships	354	1,294,300	1,046,400	247,900

Table 17.--Removals from growing stock and sawtimber on commercial timberland by ownership class and by softwoods and hardwoods, southwest Washington, 1972

Ownership class	Removals per acre	All species	Softwoods	Hardwoods
<i>Cubic feet - - - - - Thousand cubic feet - - - - -</i>				
All growing stock:				
National Forest	60	62,400	62,400	--
Other public	98	40,200	37,500	2,700
Forest industry	215	336,600	325,200	11,400
Farmer and miscellaneous private	62	40,000	37,500	2,500
All ownerships	131	479,200	462,600	16,600
<i>Board feet - - - - - Thousand board feet - - - - -</i>				
Sawtimber (International 1/4-inch rule):				
National Forest	390	403,900	403,900	--
Other public	715	294,000	281,000	13,000
Forest industry	1,379	2,156,000	2,115,000	41,000
Farmer and miscellaneous private	303	195,000	186,000	9,000
All ownerships	834	3,048,900	2,985,900	63,000
Sawtimber (Scribner rule):				
National Forest	311	322,700	322,700	--
Other public	620	255,000	242,000	13,000
Forest industry	1,127	1,761,000	1,722,000	39,000
Farmer and miscellaneous private	248	160,000	151,000	9,000
All ownerships	684	2,498,700	2,437,700	61,000

Table 18.--*Net volume of growing stock and sawtimber on commercial timberland by ownership class and by softwoods and hardwoods, central Washington, 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	3,198	5,948	5,933	15
Other public	2,402	3,173	3,166	7
Forest industry	1,773	773	771	2
Farmer and miscellaneous private	1,545	1,151	1,120	31
All ownerships	2,532	11,045	10,990	55
	<i>Board feet</i>	<i>- - - - - Million board feet - - - - -</i>		
Sawtimber (International 1/4-inch rule):				
National Forest	15,217	28,303	28,250	53
Other public	10,493	13,861	13,839	22
Forest industry	7,372	3,214	3,209	5
Farmer and miscellaneous private	6,236	4,646	4,606	40
All ownerships	11,468	50,024	49,904	120
Sawtimber (Scribner rule):				
National Forest	13,147	24,453	24,402	51
Other public	9,153	12,091	12,069	22
Forest industry	6,303	2,748	2,743	5
Farmer and miscellaneous private	5,298	3,947	3,909	38
All ownerships	9,913	43,239	43,123	116

Table 19.--*Net volume of growing stock and sawtimber on commercial timberland by county and by ownership class, central Washington, January 1, 1973*

County	All ownerships	National Forest	Other public	Forest industry	Farmer and miscellaneous private
----- Million cubic feet -----					
All growing stock:					
Chelan-Douglas	2,217	1,777	125	190	125
Kittitas	2,154	1,191	144	234	585
Klickitat	<u>1/881</u>	97	333	235	<u>1/216</u>
Okanogan	2,822	1,684	894	19	225
Yakima	<u>1/2,971</u>	1,199	1,677	95	<u>(1/)</u>
All counties	11,045	5,948	3,173	773	1,151
----- Million board feet -----					
Sawtimber (International 1/4-inch rule):					
Chelan-Douglas	9,913	8,036	521	849	507
Kittitas	<u>1/10,133</u>	6,045	515	979	2,594
Klickitat	<u>4,033</u>	609	1,624	960	<u>1/840</u>
Okanogan	<u>1/11,624</u>	7,266	3,574	79	705
Yakima	<u>1/14,321</u>	6,347	7,627	347	<u>(1/)</u>
All counties	50,024	28,303	13,861	3,214	4,646
Sawtimber (Scribner rule):					
Chelan-Douglas	8,702	7,109	435	731	427
Kittitas	<u>1/8,820</u>	5,316	439	841	2,224
Klickitat	<u>3,381</u>	448	1,424	810	<u>1/699</u>
Okanogan	<u>1/9,864</u>	6,135	3,063	69	597
Yakima	<u>1/12,472</u>	5,445	6,730	297	<u>(1/)</u>
All counties	43,239	24,453	12,091	2,748	3,947

^{1/} Yakima County combined with Klickitat County in farmer and miscellaneous private ownership class.

Table 20.--*Net annual growth of growing stock and sawtimber on commercial timberland by ownership class and by softwoods and hardwoods, central Washington, 1972*

Ownership class	Growth per acre	All species	Softwoods	Hardwoods
<i>Cubic feet</i>		<i>- - - - - Thousand cubic feet - - - - -</i>		
All growing stock:				
National Forest	32	58,600	58,300	300
Other public	26	33,800	33,700	100
Forest industry	28	12,200	12,200	--
Farmer and miscellaneous private	28	21,200	20,300	900
All ownerships	29	125,800	124,500	1,300
<i>Board feet</i>		<i>- - - - - Thousand board feet - - - - -</i>		
Sawtimber (International 1/4-inch rule):				
National Forest	128	238,000	236,000	2,000
Other public	116	153,000	152,500	500
Forest industry	119	52,000	52,000	--
Farmer and miscellaneous private	128	95,000	94,800	200
All ownerships	123	538,000	535,300	2,700
Sawtimber (Scribner rule):				
National Forest	109	203,000	201,300	1,700
Other public	100	132,000	131,600	400
Forest industry	101	44,000	44,000	--
Farmer and miscellaneous private	110	82,000	81,700	300
All ownerships	106	461,000	458,600	2,400

Table 21.--Removals from growing stock and sawtimber on commercial timberland by ownership class and by softwoods and hardwoods, central Washington, 1972

Ownership class	Removals per acre	All species	Softwoods	Hardwoods
<i>Cubic feet</i>		<i>- - - - - Thousand cubic feet - - - - -</i>		
All growing stock:				
National Forest	32	58,600	58,600	--
Other public	34	44,900	44,900	--
Forest industry	30	12,900	12,900	--
Farmer and miscellaneous private	23	16,800	16,800	--
All ownerships	31	133,200	133,200	--
<i>Board feet</i>		<i>- - - - - Thousand board feet - - - - -</i>		
Sawtimber (International 1/4-inch rule):				
National Forest	202	375,000	375,000	--
Other public	202	267,000	267,000	--
Forest industry	170	74,000	74,000	--
Farmer and miscellaneous private	129	96,000	96,000	--
All ownerships	186	812,000	812,000	--
Sawtimber (Scribner rule):				
National Forest	176	327,000	327,000	--
Other public	187	247,000	247,000	--
Forest industry	154	67,000	67,000	--
Farmer and miscellaneous private	117	87,000	87,000	--
All ownerships	167	728,000	728,000	--

Table 22.--*Net volume of growing stock and sawtimber on commercial timberland by ownership class and by softwoods and hardwoods, Inland Empire, Washington, January 1, 1973*

Ownership class	Volume per acre	All species	Softwoods	Hardwoods
<i>Cubic feet - - - - - Million cubic feet - - - - -</i>				
All growing stock:				
National Forest	1,904	2,361	2,342	19
Other public	1,798	1,703	1,652	51
Forest industry	1,940	586	570	16
Farmer and miscellaneous private	1,421	2,058	2,024	34
All ownerships	1,704	6,708	6,588	120
<i>Board feet - - - - - Million board feet - - - - -</i>				
Sawtimber (International 1/4-inch rule):				
National Forest	7,330	9,089	9,048	41
Other public	7,431	7,037	6,848	189
Forest industry	6,533	1,973	1,936	37
Farmer and miscellaneous private	3,928	5,687	5,640	47
All ownerships	6,042	23,786	23,472	314
Sawtimber (Scribner rule):				
National Forest	6,260	7,763	7,727	36
Other public	6,311	5,976	5,791	185
Forest industry	5,444	1,644	1,609	35
Farmer and miscellaneous private	3,163	4,580	4,536	44
All ownerships	5,071	19,963	19,663	300

Table 23.--*Net volume of growing stock and sawtimber on commercial timberland by county and by ownership class, Inland Empire, Washington, January 1, 1973*

County	All ownership	National Forest	Other public	Forest industry	Farmer and miscellaneous private
----- Million cubic feet -----					
All growing stock:					
Asotin	1/108	66	8	1/--	34
Columbia	365	260	9	13	83
Ferry	1,742	662	878	73	129
Garfield	158	134	1	2	21
Lincoln	85	--	7	--	78
Pend Oreille	1,495	842	87	120	446
Spokane	594	--	33	60	501
Stevens	2,138	397	677	318	746
Walla Walla	1/10	--	2	(1/)	8
Whitman	13	--	1	--	12
All counties	6,708	2,361	1,703	586	2,058
----- Million board feet -----					
Sawtimber (International 1/4-inch rule):					
Asotin	1/395	244	37	1/--	114
Columbia	1,623	1,174	29	1/62	358
Ferry	7,336	2,586	4,124	303	323
Garfield	650	589	5	4	52
Lincoln	274	--	29	--	245
Pend Oreille	4,737	3,090	263	441	943
Spokane	1,856	--	105	211	1,540
Stevens	6,807	1,406	2,426	952	2,023
Walla Walla	1/37	--	10	(1/)	27
Whitman	71	--	9	--	62
All counties	23,786	9,089	7,037	1,973	5,687
Sawtimber (Scribner rule):					
Asotin	1/330	207	33	1/--	90
Columbia	1,372	1,001	21	1/53	297
Ferry	6,302	2,223	3,559	260	260
Garfield	551	501	4	3	43
Lincoln	227	--	25	--	202
Pend Oreille	3,943	2,626	211	362	744
Spokane	1,518	--	87	179	1,252
Stevens	5,629	1,205	2,020	787	1,617
Walla Walla	1/31	--	8	(1/)	23
Whitman	60	--	8	--	52
All counties	19,963	7,763	5,976	1,644	4,580

1/ Walla Walla County combined with Columbia County in forest industry ownership class.

Table 24.--*Net annual growth of growing stock and sawtimber on commercial timberland by ownership class and by softwoods and hardwoods, Inland Empire, Washington, 1972*

Ownership class	Growth per acre	All species	Softwoods	Hardwoods
<i>Cubic feet - - - - - Thousand cubic feet - - - - -</i>				
All growing stock:				
National Forest	30	37,300	36,500	800
Other public	29	27,900	27,400	500
Forest industry	68	20,400	19,900	500
Farmer and miscellaneous private	39	56,000	55,200	800
All ownerships	36	141,600	139,000	2,600
<i>Board feet - - - - - Thousand board feet - - - - -</i>				
Sawtimber (International 1/4-inch rule):				
National Forest	131	162,000	161,100	900
Other public	151	143,000	139,000	4,000
Forest industry	255	77,000	75,700	1,300
Farmer and miscellaneous private	142	205,000	204,100	900
All ownerships	149	587,000	579,900	7,100
Sawtimber (Scribner rule):				
National Forest	112	139,000	138,200	800
Other public	131	124,000	119,800	4,200
Forest industry	212	64,000	62,700	1,300
Farmer and miscellaneous private	115	166,000	165,100	900
All ownerships	125	493,000	485,800	7,200

Table 25.--Removals from growing stock and sawtimber on commercial timberland by ownership class and by softwoods and hardwoods, Inland Empire, Washington, 1972

Ownership class	Removals per acre	All species	Softwoods	Hardwoods
<i>Cubic feet - - - - - Thousand cubic feet - - - - -</i>				
All growing stock:				
National Forest	19	23,200	23,200	--
Other public	32	30,700	30,700	--
Forest industry	38	11,400	11,400	--
Farmer and miscellaneous private	14	20,100	20,100	(1/)
All ownerships	22	85,400	85,400	(1/)
<i>Board feet - - - - - Thousand board feet - - - - -</i>				
Sawtimber (International 1/4-inch rule):				
National Forest	111	138,000	138,000	--
Other public	183	173,000	173,000	--
Forest industry	202	61,000	61,000	--
Farmer and miscellaneous private	70	102,000	101,900	100
All ownerships	120	474,000	473,900	100
Sawtimber (Scribner rule):				
National Forest	101	125,000	125,000	--
Other public	165	156,000	156,000	--
Forest industry	179	54,000	54,000	--
Farmer and miscellaneous private	61	88,000	87,900	100
All ownerships	107	423,000	422,900	100

1/ Less than 50,000 cubic feet.

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 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. The area of dry land and land temporarily or partly 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 for 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 U. S. Department of the Interior's 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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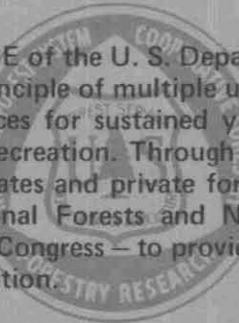
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