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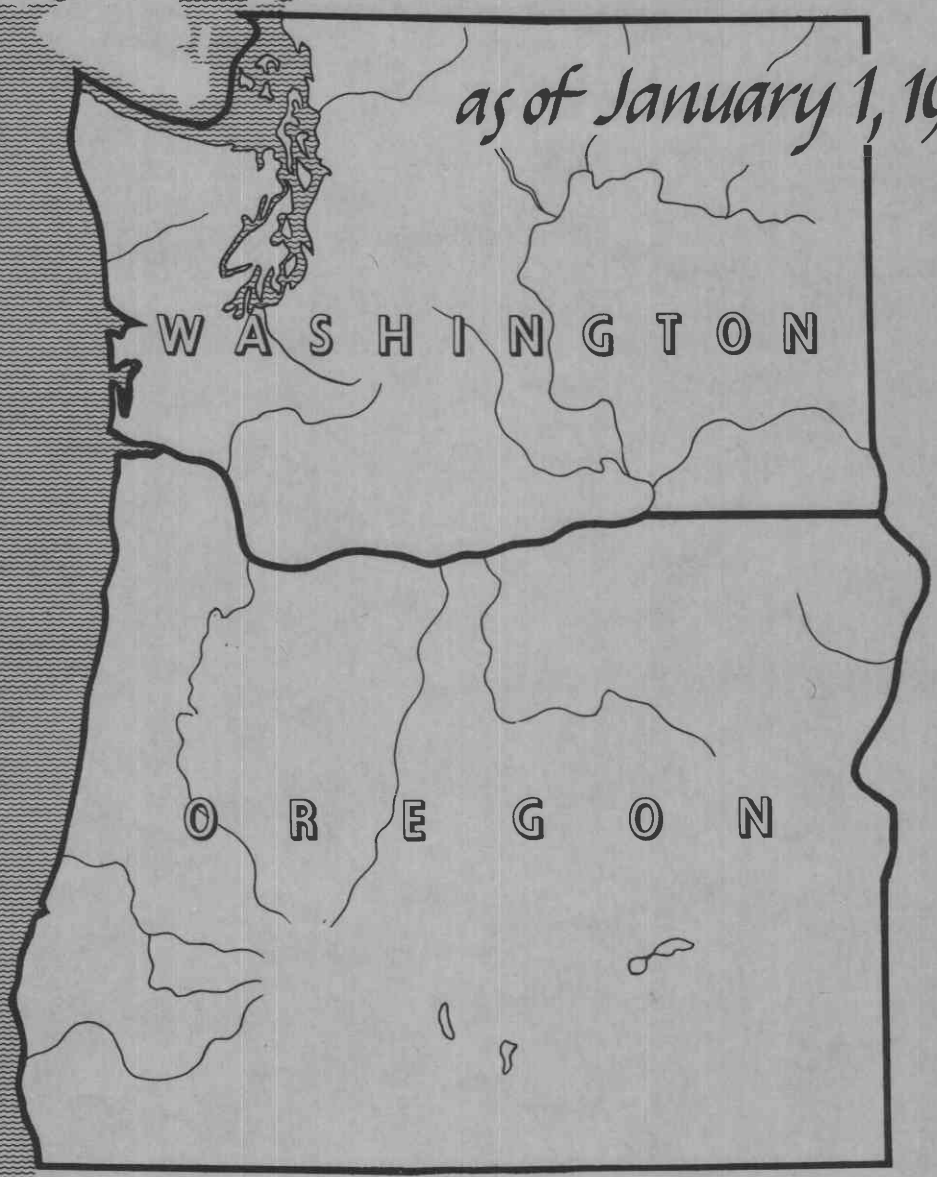
Timber Resource Statistics for the PACIFIC NORTHWEST



as of January 1, 1963

PACIFIC NORTHWEST
FOREST AND RANGE EXPERIMENT STATION
U.S. DEPT. OF AGRICULTURE · FOREST SERVICE

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PREPARED BY

THE DIVISION OF FOREST ECONOMICS RESEARCH

Carl A. Newport, Chief

FOREST SURVEY

Melvin E. Metcalf, Project Leader

Donald R. Gedney
John H. Beuter
John M. Berger
John W. Hazard
Richard L. Nielsen
Charles L. Bolsinger
Margaret C. O'Mara
Mable A. Northrup
Marion E. Simons
Carmen V. Wilson

FOREWORD

The report by the Forest Service on the national timber situation, "Timber Trends in the United States," presents timber resource data by States and broad regional groups. The timber resources of the Pacific Northwest (the States of Oregon and Washington) are a vital part of this national picture. Although only 9 percent of the total commercial forest land area of the 50 States is located in this area, it contains 42 percent of all the softwood sawtimber and 35 percent of all sawtimber in the Nation. In 1963, the Pacific Northwest produced 41 percent of all the softwood lumber and 84 percent of all the softwood plywood manufactured in the United States. In 1962, it produced 16 percent of the total woodpulp in the Nation.

Because of the tremendous importance of the timber resources of the Pacific Northwest to the Nation, it seems desirable to present data for this area in greater detail than is available in the national report. Statistics are presented here by half States and subregions as well as by States. These statistics are the basis for those presented in the national report.

The data presented here are as of January 1, 1963. More specific data for counties or county groups are also available. Such data are the result of the continuing reinventory by Forest Survey of about one-tenth of the Pacific Northwest area annually and are presented as of the date of the reinventory.

The subregions referred to in this report are: Douglas-fir subregion--all counties west of the crest of the Cascade Range in both Oregon and Washington plus Hood River County, Oreg.; ponderosa pine subregion--all counties east of the crest of the Cascade Range in both Oregon and Washington excluding Hood River County, Oreg.

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Table 1.--Land area by major classes of land and by region and State, January 1, 1963

(Thousand acres)

Region and State	Total land area[1]	Forest land				Cropland[2]	Pasture and range[2]	Other land
		Total	Commercial	Productive-reserved	Unproductive			
Western Oregon	19,202	15,858	15,082	261	515	1,770	730	844
Eastern Oregon	42,403	14,881	11,531	420	2,930	3,607	23,385	530
Total Oregon	61,605	30,739	26,613	681	3,445	5,377	24,115	1,374
Western Washington	15,874	13,061	10,950	981	1,130	799	528	1,486
Eastern Washington	26,812	9,989	8,560	331	1,098	7,112	8,551	1,160
Total Washington	42,686	23,050	19,510	1,312	2,228	7,911	9,079	2,646
Douglas-fir subregion	35,076	28,919	26,032	1,242	1,645	2,569	1,258	2,330
Ponderosa pine subregion	69,215	24,870	20,091	751	4,028	10,719	31,936	1,690
All regions	104,291	53,789	46,123	1,993	5,673	13,288	33,194	4,020

[1] Source: U.S. Bureau of the Census.
[2] Source: Census of Agriculture.

Table 2.--Area of commercial forest land by ownership, and by region and State, January 1, 1963

(Thousand acres)

Region and State	All ownerships	Federal					State[1]	County and municipal[1]	Forest industry				Farmer	Miscellaneous private
		Total	National Forest	Bureau of Land Management[1]	Indian[1]	Miscellaneous[1]			Total	Pulp and paper	Lumber	Other		
Western Oregon	15,082	7,320	5,085	2,227	8	--	731	137	3,532	1,042	2,199	291	1,677	1,685
Eastern Oregon	11,531	8,059	7,460	250	346	3	38	17	1,477	74	1,403	--	1,652	288
Total Oregon	26,613	15,379	12,545	2,477	354	3	769	154	5,009	1,116	3,602	291	3,329	1,973
Western Washington	10,950	3,075	2,752	23	234	66	1,339	187	3,789	1,313	2,361	115	867	1,693
Eastern Washington	8,560	5,084	3,408	164	1,452	60	662	12	612	38	574	--	1,700	490
Total Washington	19,510	8,159	6,160	187	1,686	126	2,001	199	4,401	1,351	2,935	115	2,567	2,183
Douglas-fir subregion	26,032	10,395	7,837	2,250	242	66	2,070	324	7,321	2,355	4,560	406	2,544	3,378
Ponderosa pine subregion	20,091	13,143	10,868	414	1,798	63	700	29	2,089	112	1,977	--	3,352	778
All regions	46,123	23,538	18,705	2,664	2,040	129	2,770	353	9,410	2,467	6,537	406	5,896	4,156

[1] Estimates derived by sampling methods; consequently, they may not agree exactly with official totals.

Table 3.--Area of commercial forest land by stand-size class and by region and State, January 1, 1963

(Thousand acres)

Region and State	All areas	Sawtimber stands			Pole-timber stands	Sapling and seedling stands	Non-stocked areas
		Total	Old growth	Young growth			
Western Oregon	15,082	9,483	3,934	5,549	1,469	3,400	730
Eastern Oregon	11,531	8,923	5,783	3,140	2,044	365	199
Total Oregon	26,613	18,406	9,717	8,689	3,513	3,765	929
Western Washington	10,950	5,730	2,156	3,574	2,971	1,790	459
Eastern Washington	8,560	6,081	3,273	2,808	1,670	634	175
Total Washington	19,510	11,811	5,429	6,382	4,641	2,424	634
Douglas-fir subregion	26,032	15,213	6,090	9,123	4,440	5,190	1,189
Ponderosa pine subregion	20,091	15,004	9,056	5,948	3,714	999	374
All regions	46,123	30,217	15,146	15,071	8,154	6,189	1,563

Table 4.--Area of commercial forest land by stand-volume class and by region and State, January 1, 1963

(Thousand acres)

Region and State	Stand volume per acre[1/]			
	Total	Less than 1,500 bd. ft.	1,500 to 5,000 bd. ft.	More than 5,000 bd. ft.
Western Oregon	15,082	3,488	2,050	9,544
Eastern Oregon	11,531	2,608	2,592	6,331
Total Oregon	26,613	6,096	4,642	15,875
Western Washington	10,950	3,467	1,777	5,706
Eastern Washington	8,560	2,458	1,795	4,307
Total Washington	19,510	5,925	3,572	10,013
Douglas-fir subregion	26,032	6,955	3,827	15,250
Ponderosa pine subregion	20,091	5,066	4,387	10,638
All regions	46,123	12,021	8,214	25,888

[1/] Net volume, International ¼-inch rule.

Table 5.--Commercial forest land area by stand-size class and stocking class of growing stock and by region and State, January 1, 1963

(Thousand acres)

Region and State	Stand-size and stocking classes																
	All stands					Sawtimber stands				Poletimber stands				Sapling and seedling stands			
	Total	70 percent or more	40-70 percent	10-40 percent	Non-stocked	Total	70 percent or more	40-70 percent	10-40 percent	Total	70 percent or more	40-70 percent	10-40 percent	Total	70 percent or more	40-70 percent	10-40 percent
Western Oregon	15,082	8,639	3,383	2,330	730	9,483	6,826	1,819	838	1,469	851	325	293	3,400	962	1,239	1,199
Eastern Oregon	11,531	6,679	3,324	1,329	199	8,923	5,259	2,617	1,047	2,044	1,205	600	239	365	215	107	43
Total Oregon	26,613	15,318	6,707	3,659	929	18,406	12,085	4,436	1,885	3,513	2,056	925	532	3,765	1,177	1,346	1,242
Western Washington	10,950	6,205	3,119	1,167	459	5,730	3,389	1,704	637	2,971	1,757	883	331	1,790	1,059	532	199
Eastern Washington	8,560	4,306	2,767	1,312	175	6,081	3,273	1,929	879	1,670	775	594	301	634	258	244	132
Total Washington	19,510	10,511	5,886	2,479	634	11,811	6,662	3,633	1,516	4,641	2,532	1,477	632	2,424	1,317	776	331
Douglas-fir subregion	26,032	14,844	6,502	3,497	1,189	15,213	10,215	3,523	1,475	4,440	2,608	1,208	624	5,190	2,021	1,771	1,398
Ponderosa pine subregion	20,091	10,985	6,091	2,641	374	15,004	8,532	4,546	1,926	3,714	1,980	1,194	540	999	473	351	175
All regions	46,123	25,829	12,593	6,138	1,563	30,217	18,747	8,069	3,401	8,154	4,588	2,402	1,164	6,189	2,494	2,122	1,573

Table 6.--Area of commercial forest land by forest type

(Thousand

Region and State	Total all types			Softwood											
				Total			Douglas-fir			Hemlock-Sitka spruce			Redwood		
	All ownerships	Public	Private	All ownerships	Public	Private	All ownerships	Public	Private	All ownerships	Public	Private	All ownerships	Public	Private
Western Oregon	15,082	8,188	6,894	12,625	7,581	5,044	9,709	5,695	4,014	1,366	636	730	10	3	7
Eastern Oregon	11,531	8,114	3,417	11,513	8,109	3,404	1,111	800	311	--	--	--	--	--	--
Total Oregon	26,613	16,302	10,311	24,138	15,690	8,448	10,820	6,495	4,325	1,366	636	730	10	3	7
Western Washington	10,950	4,601	6,349	9,675	4,383	5,292	5,711	2,167	3,544	2,899	1,334	1,565	--	--	--
Eastern Washington	8,560	5,758	2,802	8,497	5,731	2,766	2,972	2,048	924	--	--	--	--	--	--
Total Washington	19,510	10,359	9,151	18,172	10,114	8,058	8,683	4,215	4,468	2,899	1,334	1,565	--	--	--
Douglas-fir subregion	26,032	12,789	13,243	22,300	11,964	10,336	15,420	7,862	7,558	4,265	1,970	2,295	10	3	7
Ponderosa pine subregion	20,091	13,872	6,219	20,010	13,840	6,170	4,083	2,848	1,235	--	--	--	--	--	--
All regions	46,123	26,661	19,462	42,310	25,804	16,506	19,503	10,710	8,793	4,265	1,970	2,295	10	3	7

Table 7.--Proportion of commercial forest land area by ownership

(In

Region and State	Ownership and									
	All ownerships					National Forest				
	All classes	120 cu. ft. or more	85 to 120 cu. ft.	50 to 85 cu. ft.	Less than 50 cu.ft.	All classes	120 cu. ft. or more	85 to 120 cu. ft.	50 to 85 cu. ft.	Less than 50 cu.ft.
Western Oregon	100	60	19	16	5	100	52	23	20	5
Eastern Oregon	100	2	9	64	25	100	1	7	65	27
Total Oregon	100	35	15	37	13	100	22	14	46	18
Western Washington	100	61	19	15	5	100	33	27	28	12
Eastern Washington	100	6	21	50	23	100	4	15	63	18
Total Washington	100	37	20	31	12	100	17	20	47	16
Douglas-fir subregion	100	61	19	15	5	100	45	24	23	8
Ponderosa pine subregion	100	3	15	58	24	100	2	10	64	24
All regions	100	36	17	34	13	100	20	16	46	18

1/ Capacity for annual cubic-foot growth per acre.

and ownership and by region and State, January 1, 1963

acres)

types															Total hardwood types		
Ponderosa pine			White pine			Lodgepole pine			Larch			Fir-spruce					
All owner-ships	Public	Private	All owner-ships	Public	Private	All owner-ships	Public	Private	All owner-ships	Public	Private	All owner-ships	Public	Private	All owner-ships	Public	Private
159	134	25	198	190	8	146	116	30	4	4	--	1,033	803	230	2,457	607	1,850
7,418	4,889	2,529	54	43	11	1,408	1,094	314	388	327	61	1,134	956	178	18	5	13
7,577	5,023	2,554	252	233	19	1,554	1,210	344	392	331	61	2,167	1,759	408	2,475	612	1,863
3	3	--	26	23	3	46	32	14	--	--	--	990	824	166	1,275	218	1,057
3,467	2,156	1,311	111	93	18	732	516	216	471	342	129	744	576	168	63	27	36
3,470	2,159	1,311	137	116	21	778	548	230	471	342	129	1,734	1,400	334	1,338	245	1,093
162	137	25	224	213	11	192	148	44	4	4	--	2,023	1,627	396	3,732	825	2,907
10,885	7,045	3,840	165	136	29	2,140	1,610	530	859	669	190	1,878	1,532	346	81	32	49
11,047	7,182	3,865	389	349	40	2,332	1,758	574	863	673	190	3,901	3,159	742	3,813	857	2,956

classes and productivity classes and by region and State, January 1, 1963

percent)

productivity classes[1/]														
Other public					Forest industry					Farmer and miscellaneous private				
All classes	120 cu. ft. or more	85 to 120 cu. ft.	50 to 85 cu. ft.	Less than 50 cu.ft.	All classes	120 cu. ft. or more	85 to 120 cu. ft.	50 to 85 cu. ft.	Less than 50 cu.ft.	All classes	120 cu. ft. or more	85 to 120 cu. ft.	50 to 85 cu. ft.	Less than 50 cu.ft.
100	67	15	13	5	100	69	17	11	3	100	57	19	18	6
100	4	8	63	25	100	2	12	67	19	100	3	15	61	21
100	56	14	22	8	100	49	15	28	8	100	37	18	34	11
100	64	17	16	3	100	75	15	8	2	100	70	15	12	3
100	10	20	49	21	100	10	33	33	24	100	3	28	38	31
100	34	19	34	13	100	66	18	11	5	100	39	21	24	16
100	66	16	14	4	100	72	16	9	3	100	63	17	16	4
100	8	18	52	22	100	5	18	57	20	100	3	22	49	26
100	45	16	28	11	100	57	17	20	6	100	38	19	29	14

Table 8.--Net volume of timber on commercial forest land by class of timber, softwoods and hardwoods, and by region and State, January 1, 1963

(Million cubic feet)

Region and State	Total all timber			Growing-stock trees									Rough (sound cull) trees			Rotten cull trees			Salvable dead trees		
				Total			Sawtimber trees			Poletimber trees											
	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods
Western Oregon	73,473	66,796	6,677	69,522	63,635	5,887	62,254	58,723	3,531	7,268	4,912	2,356	951	244	707	196	171	25	2,804	2,746	58
Eastern Oregon	26,040	25,995	45	25,601	25,568	33	21,079	21,069	10	4,522	4,499	23	74	62	12	87	87	--	278	278	--
Total Oregon	99,513	92,791	6,722	95,123	89,203	5,920	83,333	79,792	3,541	11,790	9,411	2,379	1,025	306	719	283	258	25	3,082	3,024	58
Western Washington	56,182	51,267	4,915	53,497	48,755	4,742	45,488	42,747	2,741	8,009	6,008	2,001	188	60	128	389	372	17	2,108	2,080	28
Eastern Washington	20,291	20,047	244	19,401	19,191	210	14,283	14,202	81	5,118	4,989	129	271	244	27	190	184	6	429	428	1
Total Washington	76,473	71,314	5,159	72,898	67,946	4,952	59,771	56,949	2,822	13,127	10,997	2,130	459	304	155	579	556	23	2,537	2,508	29
Douglas-fir subregion	129,655	118,063	11,592	123,019	112,390	10,629	107,742	101,470	6,272	15,277	10,920	4,357	1,139	304	835	585	543	42	4,912	4,826	86
Ponderosa pine subregion	46,331	46,042	289	45,002	44,759	243	35,362	35,271	91	9,640	9,488	152	345	306	39	277	271	6	707	706	1
All regions	175,986	164,105	11,881	168,021	157,149	10,872	143,104	136,741	6,363	24,917	20,408	4,509	1,484	610	874	862	814	48	5,619	5,532	87

Table 9.--Net volume of growing stock on commercial forest land by ownership, softwoods and hardwoods, and by region and State, January 1, 1963

(Million cubic feet)

Region and State	All ownerships			National Forest			Other public			Forest industry			Farmer and miscellaneous private		
	All species	Softwoods	Hardwoods	All species	Softwoods	Hardwoods	All species	Softwoods	Hardwoods	All species	Softwoods	Hardwoods	All species	Softwoods	Hardwoods
Western Oregon	69,522	63,635	5,887	33,277	32,146	1,131	15,141	13,794	1,347	13,828	12,628	1,200	7,276	5,067	2,209
Eastern Oregon	25,601	25,568	33	18,474	18,467	7	1,476	1,474	2	2,898	2,898	--	2,753	2,729	24
Total Oregon	95,123	89,203	5,920	51,751	50,613	1,138	16,617	15,268	1,349	16,726	15,526	1,200	10,029	7,796	2,233
Western Washington	53,497	48,755	4,742	19,838	19,810	28	8,631	7,591	1,040	17,770	16,194	1,576	7,258	5,160	2,098
Eastern Washington	19,401	19,191	210	9,808	9,684	124	4,865	4,830	35	1,322	1,306	16	3,406	3,371	35
Total Washington	72,898	67,946	4,952	29,646	29,494	152	13,496	12,421	1,075	19,092	17,500	1,592	10,664	8,531	2,133
Douglas-fir subregion	123,019	112,390	10,629	53,115	51,956	1,159	23,772	21,385	2,387	31,598	28,822	2,776	14,534	10,227	4,307
Ponderosa pine subregion	45,002	44,759	243	28,282	28,151	131	6,341	6,304	37	4,220	4,204	16	6,159	6,100	59
All regions	168,021	157,149	10,872	81,397	80,107	1,290	30,113	27,689	2,424	35,818	33,026	2,792	20,693	16,327	4,366

Table 10.--Net volume of sawtimber by ownership, softwoods and hardwoods, and by region and State, January 1, 1963

(Million board feet, International ¼-inch rule)

Region and State	All ownerships			National Forest			Other public			Forest industry			Farmer and miscellaneous private		
	All species	Softwoods	Hardwoods	All species	Softwoods	Hardwoods	All species	Softwoods	Hardwoods	All species	Softwoods	Hardwoods	All species	Softwoods	Hardwoods
Western Oregon	410,837	390,502	20,335	205,196	201,270	3,926	89,229	85,169	4,060	83,014	78,045	4,969	33,398	26,018	7,380
Eastern Oregon	125,472	125,377	95	93,663	93,645	18	7,472	7,457	15	13,860	13,860	--	10,477	10,415	62
Total Oregon	536,309	515,879	20,430	298,859	294,915	3,944	96,701	92,626	4,075	96,874	91,905	4,969	43,875	36,433	7,442
Western Washington	291,362	277,355	14,007	122,651	122,512	139	44,306	41,424	2,882	96,080	91,226	4,854	28,325	22,193	6,132
Eastern Washington	81,703	81,306	397	43,389	43,155	234	21,447	21,382	65	5,843	5,806	37	11,024	10,963	61
Total Washington	373,065	358,661	14,404	166,040	165,667	373	65,753	62,806	2,947	101,923	97,032	4,891	39,349	33,156	6,193
Douglas-fir subregion	702,199	667,857	34,342	327,847	323,782	4,065	133,535	126,593	6,942	179,094	169,271	9,823	61,723	48,211	13,512
Ponderosa pine subregion	207,175	206,683	492	137,052	136,800	252	28,919	28,839	80	19,703	19,666	37	21,501	21,378	123
All regions	909,374	874,540	34,834	464,899	460,582	4,317	162,454	155,432	7,022	198,797	188,937	9,860	83,224	69,589	13,635

Table 11.--Net volume of growing stock on commercial forest

(Million

Region and State	Softwoods								
	All softwoods	Douglas-fir	Ponderosa and Jeffrey pines	True firs	Western hemlock	Sugar pine	Western white pine	Redwood	Sitka spruce
Western Oregon	63,635	42,818	772	5,158	7,859	819	599	40	1,202
Eastern Oregon	25,568	3,821	11,653	5,161	94	143	142	--	--
Total Oregon	89,203	46,639	12,425	10,319	7,953	962	741	40	1,202
Western Washington	48,755	16,389	16	7,890	18,595	--	319	--	526
Eastern Washington	19,191	6,374	4,450	3,324	660	--	245	--	--
Total Washington	67,946	22,763	4,466	11,214	19,255	--	564	--	526
Douglas-fir subregion	112,390	59,207	788	13,048	26,454	819	918	40	1,728
Ponderosa pine subregion	44,759	10,195	16,103	8,485	754	143	387	--	--
All regions	157,149	69,402	16,891	21,533	27,208	962	1,305	40	1,728

Table 12.--Net volume of sawtimber on commercial forest

(Million board feet,

Region and State	Softwoods								
	All softwoods	Douglas-fir	Ponderosa and Jeffrey pines	True firs	Western hemlock	Sugar pine	Western white pine	Redwood	Sitka spruce
Western Oregon	390,502	276,499	4,156	25,406	46,440	4,849	3,471	276	6,074
Eastern Oregon	125,377	17,049	69,509	20,676	330	567	824	--	--
Total Oregon	515,879	293,548	73,665	46,082	46,770	5,416	4,295	276	6,074
Western Washington	277,355	90,426	91	44,443	107,849	--	1,618	--	3,225
Eastern Washington	81,306	28,020	24,348	12,084	3,072	--	1,357	--	--
Total Washington	358,661	118,446	24,439	56,527	110,921	--	2,975	--	3,225
Douglas-fir subregion	667,857	366,925	4,247	69,849	154,289	4,849	5,089	276	9,299
Ponderosa pine subregion	206,683	45,069	93,857	32,760	3,402	567	2,181	--	--
All regions	874,540	411,994	98,104	102,609	157,691	5,416	7,270	276	9,299

land by species, and by region and State, January 1, 1963

cubic feet)

						Hardwoods				
Engelmann and other spruces	Western larch	Western redcedar	Incense-cedar	Lodgepole pine	Other softwoods	All hardwoods	Cottonwood and aspen	Red alder	Oak	Other western hardwoods
100	35	1,440	758	395	1,640	5,887	57	2,638	813	2,379
639	1,146	8	72	2,000	689	33	25	2	1	5
739	1,181	1,448	830	2,395	2,329	5,920	82	2,640	814	2,384
72	8	4,518	--	137	285	4,742	189	3,396	--	1,157
695	1,436	233	--	1,613	161	210	143	5	58	4
767	1,444	4,751	--	1,750	446	4,952	332	3,401	58	1,161
172	43	5,958	758	532	1,925	10,629	246	6,034	813	3,536
1,334	2,582	241	72	3,613	850	243	168	7	59	9
1,506	2,625	6,199	830	4,145	2,775	10,872	414	6,041	872	3,545

land by species, and by region and State, January 1, 1963

International ¼-inch rule)

						Hardwoods				
Engelmann and other spruces	Western larch	Western redcedar	Incense-cedar	Lodgepole pine	Other softwoods	All hardwoods	Cottonwood and aspen	Red alder	Oak	Other western hardwoods
532	263	7,983	4,484	1,636	8,433	20,335	387	10,064	2,474	7,410
2,942	5,789	24	301	4,023	3,343	95	88	--	--	7
3,474	6,052	8,007	4,785	5,659	11,776	20,430	475	10,064	2,474	7,417
390	54	27,183	--	409	1,667	14,007	981	9,199	--	3,827
2,688	5,785	877	--	2,545	530	397	352	3	37	5
3,078	5,839	28,060	--	2,954	2,197	14,404	1,333	9,202	37	3,832
922	317	35,166	4,484	2,045	10,100	34,342	1,368	19,263	2,474	11,237
5,630	11,574	901	301	6,568	3,873	492	440	3	37	12
6,552	11,891	36,067	4,785	8,613	13,973	34,834	1,808	19,266	2,511	11,249

Table 13.--Net volume of growing stock on commercial forest land by

(Million

Region and diameter class (inches)	Total all species	Softwoods				
		Total	Douglas-fir	Ponderosa and Jeffrey pines	Western white and sugar pines	Western hemlock
Western Oregon:						
5.0 - 7.0	1,853	1,044	511	7	14	137
7.0 - 9.0	2,459	1,673	811	13	23	260
9.0 - 11.0	2,956	2,195	1,087	22	39	374
11.0 - 13.0	3,135	2,407	1,344	30	39	372
13.0 - 15.0	3,556	2,964	1,711	29	63	485
15.0 - 17.0	3,907	3,317	1,839	42	60	576
17.0 - 19.0	3,717	3,241	1,818	45	74	556
19.0 - 29.0	16,968	16,050	9,764	213	399	2,701
29.0 - 39.0	13,239	13,038	9,194	190	327	1,522
39.0 and larger	17,732	17,706	14,739	181	380	876
Total	69,522	63,635	42,818	772	1,418	7,859
Eastern Oregon:						
5.0 - 7.0	1,212	1,195	166	261	2	1
7.0 - 9.0	1,624	1,621	275	343	4	1
9.0 - 11.0	1,686	1,683	276	413	6	3
11.0 - 13.0	1,661	1,656	285	442	34	5
13.0 - 15.0	1,700	1,700	266	539	22	10
15.0 - 17.0	1,702	1,702	269	615	27	11
17.0 - 19.0	1,660	1,660	238	711	21	12
19.0 - 29.0	8,114	8,110	1,149	4,331	101	41
29.0 - 39.0	4,724	4,724	560	3,092	27	8
39.0 and larger	1,518	1,517	337	906	41	2
Total	25,601	25,568	3,821	11,653	285	94
Oregon:						
5.0 - 7.0	3,065	2,239	677	268	16	138
7.0 - 9.0	4,083	3,294	1,086	356	27	261
9.0 - 11.0	4,642	3,878	1,363	435	45	377
11.0 - 13.0	4,796	4,063	1,629	472	73	377
13.0 - 15.0	5,256	4,664	1,977	568	85	495
15.0 - 17.0	5,609	5,019	2,108	657	87	587
17.0 - 19.0	5,377	4,901	2,056	756	95	568
19.0 - 29.0	25,082	24,160	10,913	4,544	500	2,742
29.0 - 39.0	17,963	17,762	9,754	3,282	354	1,530
39.0 and larger	19,250	19,223	15,076	1,087	421	878
Total	95,123	89,203	46,639	12,425	1,703	7,953
Western Washington:						
5.0 - 7.0	1,814	1,371	477	--	6	496
7.0 - 9.0	2,847	2,097	766	1	15	727
9.0 - 11.0	3,348	2,540	955	1	22	879
11.0 - 13.0	3,441	2,730	1,146	1	33	926
13.0 - 15.0	3,351	2,789	1,158	1	30	932
15.0 - 17.0	3,177	2,752	1,053	1	30	996
17.0 - 19.0	3,021	2,723	1,017	1	28	952
19.0 - 29.0	13,086	12,493	3,947	4	87	4,965
29.0 - 39.0	9,214	9,076	2,441	--	47	3,959
39.0 and larger	10,198	10,184	3,429	6	21	3,763
Total	53,497	48,755	16,389	16	319	18,595

species and diameter class and by region and State, January 1, 1963

cubic feet)

				Hardwoods				
True firs	Redwood	Spruce	Other softwoods	Total	Cottonwood and aspen	Red alder	Oaks	Other western hardwoods
184	--	45	146	809	--	259	137	413
245	--	60	261	786	3	271	144	368
334	3	39	297	761	--	325	124	312
273	3	84	262	728	3	381	77	267
338	2	68	268	592	2	335	42	213
384	2	111	303	590	11	358	66	155
371	3	90	284	476	6	286	58	126
1,527	11	349	1,086	918	21	361	140	396
981	7	150	667	201	8	60	23	110
521	9	306	694	26	3	2	2	19
5,158	40	1,302	4,268	5,887	57	2,638	813	2,379
250	--	71	444	17	12	2	1	2
341	--	50	607	3	2	--	--	1
356	--	57	572	3	2	--	--	1
377	--	57	456	5	4	--	--	1
436	--	62	365	--	--	--	--	--
432	--	61	287	--	--	--	--	--
413	--	58	207	--	--	--	--	--
1,639	--	175	674	4	4	--	--	--
767	--	37	233	--	--	--	--	--
150	--	11	70	1	1	--	--	--
5,161	--	639	3,915	33	25	2	1	5
434	--	116	590	826	12	261	138	415
586	--	110	868	789	5	271	144	369
690	3	96	869	764	2	325	124	313
650	3	141	718	733	7	381	77	268
774	2	130	633	592	2	335	42	213
816	2	172	590	590	11	358	66	155
784	3	148	491	476	6	286	58	126
3,166	11	524	1,760	922	25	361	140	396
1,748	7	187	900	201	8	60	23	110
671	9	317	764	27	4	2	2	19
10,319	40	1,941	8,183	5,920	82	2,640	814	2,384
213	--	8	171	443	3	328	--	112
341	--	16	231	750	7	575	--	168
421	--	21	241	808	14	619	--	175
383	--	36	205	711	10	569	--	132
419	--	33	216	562	13	440	--	109
445	--	31	196	425	19	313	--	93
480	--	32	213	298	24	195	--	79
2,344	--	156	990	593	65	325	--	203
1,671	--	128	830	138	30	32	--	76
1,173	--	137	1,655	14	4	--	--	10
7,890	--	598	4,948	4,742	189	3,396	--	1,157

Table 13.--Net volume of growing stock on commercial forest land by species and

(Million

Region and diameter class (inches)	Total all species	Softwoods				
		Total	Douglas-fir	Ponderosa and Jeffrey pines	Western white and sugar pines	Western hemlock
Eastern Washington:						
5.0 - 7.0	1,383	1,335	360	147	6	17
7.0 - 9.0	1,814	1,767	501	213	10	27
9.0 - 11.0	1,921	1,887	619	281	12	41
11.0 - 13.0	1,785	1,763	597	312	14	42
13.0 - 15.0	1,687	1,674	569	345	11	44
15.0 - 17.0	1,551	1,545	525	343	33	58
17.0 - 19.0	1,399	1,396	472	344	14	44
19.0 - 29.0	5,096	5,079	1,705	1,467	123	288
29.0 - 39.0	2,134	2,125	745	804	22	79
39.0 and larger	631	620	281	194	--	20
Total	19,401	19,191	6,374	4,450	245	660
Washington:						
5.0 - 7.0	3,197	2,706	837	147	12	513
7.0 - 9.0	4,661	3,864	1,267	214	25	754
9.0 - 11.0	5,269	4,427	1,574	282	34	920
11.0 - 13.0	5,226	4,493	1,743	313	47	968
13.0 - 15.0	5,038	4,463	1,727	346	41	976
15.0 - 17.0	4,728	4,297	1,578	344	63	1,054
17.0 - 19.0	4,420	4,119	1,489	345	42	996
19.0 - 29.0	18,182	17,572	5,652	1,471	210	5,253
29.0 - 39.0	11,348	11,201	3,186	804	69	4,038
39.0 and larger	10,829	10,804	3,710	200	21	3,783
Total	72,898	67,946	22,763	4,466	564	19,255
Douglas-fir subregion:						
5.0 - 7.0	3,667	2,415	988	7	20	633
7.0 - 9.0	5,306	3,770	1,577	14	38	987
9.0 - 11.0	6,304	4,735	2,042	23	61	1,253
11.0 - 13.0	6,576	5,137	2,490	31	72	1,298
13.0 - 15.0	6,907	5,753	2,869	30	93	1,417
15.0 - 17.0	7,084	6,069	2,892	43	90	1,572
17.0 - 19.0	6,738	5,964	2,835	46	102	1,508
19.0 - 29.0	30,054	28,543	13,711	217	486	7,666
29.0 - 39.0	22,453	22,114	11,635	190	374	5,481
39.0 and larger	27,930	27,890	18,168	187	401	4,639
Total	123,019	112,390	59,207	788	1,737	26,454
Ponderosa pine subregion:						
5.0 - 7.0	2,595	2,530	526	408	8	18
7.0 - 9.0	3,438	3,388	776	556	14	28
9.0 - 11.0	3,607	3,570	895	694	18	44
11.0 - 13.0	3,446	3,419	882	754	48	47
13.0 - 15.0	3,387	3,374	835	884	33	54
15.0 - 17.0	3,253	3,247	794	958	60	69
17.0 - 19.0	3,059	3,056	710	1,055	35	56
19.0 - 29.0	13,210	13,189	2,854	5,798	224	329
29.0 - 39.0	6,858	6,849	1,305	3,896	49	87
39.0 and larger	2,149	2,137	618	1,100	41	22
Total	45,002	44,759	10,195	16,103	530	754
All regions	168,021	157,149	69,402	16,891	2,267	27,208

diameter class and by region and State, January 1, 1963--Continued

cubic feet)

				Hardwoods				
True firs	Redwood	Spruce	Other softwoods	Total	Cottonwood and aspen	Red alder	Oaks	Other western hardwoods
283	--	40	482	48	13	3	29	3
325	--	57	634	47	31	1	15	--
348	--	69	517	34	29	--	5	--
335	--	71	392	22	16	--	5	1
318	--	76	311	13	9	--	4	--
276	--	73	237	6	5	1	--	--
230	--	80	212	3	3	--	--	--
868	--	147	481	17	17	--	--	--
267	--	55	153	9	9	--	--	--
74	--	27	24	11	11	--	--	--
3,324	--	695	3,443	210	143	5	58	4
496	--	48	653	491	16	331	29	115
666	--	73	865	797	38	576	15	168
769	--	90	758	842	43	619	5	175
718	--	107	597	733	26	569	5	133
737	--	109	527	575	22	440	4	109
721	--	104	433	431	24	314	--	93
710	--	112	425	301	27	195	--	79
3,212	--	303	1,471	610	82	325	--	203
1,938	--	183	983	147	39	32	--	76
1,247	--	164	1,679	25	15	--	--	10
11,214	--	1,293	8,391	4,952	332	3,401	58	1,161
397	--	53	317	1,252	3	587	137	525
586	--	76	492	1,536	10	846	144	536
755	3	60	538	1,569	14	944	124	487
656	3	120	467	1,439	13	950	77	399
757	2	101	484	1,154	15	775	42	322
829	2	142	499	1,015	30	671	66	248
851	3	122	497	774	30	481	58	205
3,871	11	505	2,076	1,511	86	686	140	599
2,652	7	278	1,497	339	38	92	23	186
1,694	9	443	2,349	40	7	2	2	29
13,048	40	1,900	9,216	10,629	246	6,034	813	3,536
533	--	111	926	65	25	5	30	5
666	--	107	1,241	50	33	1	15	1
704	--	126	1,089	37	31	--	5	1
712	--	128	848	27	20	--	5	2
754	--	138	676	13	9	--	4	--
708	--	134	524	6	5	1	--	--
643	--	138	419	3	3	--	--	--
2,507	--	322	1,155	21	21	--	--	--
1,034	--	92	386	9	9	--	--	--
224	--	38	94	12	12	--	--	--
8,485	--	1,334	7,358	243	168	7	59	9
21,533	40	3,234	16,574	10,872	414	6,041	872	3,545

Table 14.--Net volume of sawtimber on commercial forest land by

(Million board feet,

Region and diameter class (inches)	Total all species	Softwoods				
		Total	Douglas-fir	Ponderosa and Jeffrey pines	Western white and sugar pines	Western hemlock
Western Oregon:						
11.0 - 13.0	14,644	11,490	5,722	146	187	1,816
13.0 - 15.0	17,733	14,858	8,281	131	330	2,668
15.0 - 17.0	21,337	18,140	9,889	208	343	3,423
17.0 - 19.0	21,637	18,824	10,500	234	436	3,457
19.0 - 29.0	109,824	103,478	63,803	1,162	2,489	18,118
29.0 - 39.0	92,878	91,155	66,131	1,139	2,073	10,891
39.0 and larger	132,784	132,557	112,173	1,136	2,462	6,067
Total	410,837	390,502	276,499	4,156	8,320	46,440
Eastern Oregon:						
11.0 - 13.0	6,759	6,735	949	2,197	53	11
13.0 - 15.0	7,859	7,856	1,107	2,709	72	20
15.0 - 17.0	8,589	8,586	1,257	3,290	121	34
17.0 - 19.0	8,963	8,963	1,203	4,066	87	47
19.0 - 29.0	49,735	49,684	6,574	28,149	473	174
29.0 - 39.0	32,461	32,459	3,592	22,275	163	32
39.0 and larger	11,106	11,094	2,367	6,823	422	12
Total	125,472	125,377	17,049	69,509	1,391	330
Oregon:						
11.0 - 13.0	21,403	18,225	6,671	2,343	240	1,827
13.0 - 15.0	25,592	22,714	9,388	2,840	402	2,688
15.0 - 17.0	29,926	26,726	11,146	3,498	464	3,457
17.0 - 19.0	30,600	27,787	11,703	4,300	523	3,504
19.0 - 29.0	159,559	153,162	70,377	29,311	2,962	18,292
29.0 - 39.0	125,339	123,614	69,723	23,414	2,236	10,923
39.0 and larger	143,890	143,651	114,540	7,959	2,884	6,079
Total	536,309	515,879	293,548	73,665	9,711	46,770
Western Washington:						
11.0 - 13.0	13,393	10,623	4,458	3	131	3,606
13.0 - 15.0	15,491	12,896	5,354	3	136	4,308
15.0 - 17.0	15,832	13,715	5,248	5	148	4,965
17.0 - 19.0	16,817	15,154	5,664	7	156	5,296
19.0 - 29.0	83,067	79,304	25,053	24	549	31,515
29.0 - 39.0	65,718	64,732	17,402	--	336	28,246
39.0 and larger	81,044	80,931	27,247	49	162	29,913
Total	291,362	277,355	90,426	91	1,618	107,849
Eastern Washington:						
11.0 - 13.0	7,117	7,034	2,164	1,518	70	154
13.0 - 15.0	7,846	7,790	2,549	1,761	55	190
15.0 - 17.0	7,955	7,926	2,666	1,878	177	279
17.0 - 19.0	7,699	7,685	2,604	2,010	81	225
19.0 - 29.0	31,564	31,470	10,672	9,704	810	1,618
29.0 - 39.0	14,816	14,762	5,190	5,943	164	478
39.0 and larger	4,706	4,639	2,175	1,534	--	128
Total	81,703	81,306	28,020	24,348	1,357	3,072

species and diameter class and by region and State, January 1, 1963

International ¼-inch rule)

				Hardwoods				
True firs	Redwood	Spruce	Other softwoods	Total	Cottonwood and aspen	Red alder	Oaks	Other western hardwoods
1,361	11	245	2,002	3,154	13	1,681	340	1,120
1,819	10	281	1,338	2,875	9	1,651	230	985
2,180	10	436	1,651	3,197	62	1,963	361	811
2,146	15	416	1,620	2,813	35	1,707	343	728
9,155	77	2,049	6,625	6,346	162	2,540	987	2,657
5,553	52	887	4,429	1,723	76	507	195	945
3,192	101	2,292	5,134	227	30	15	18	164
25,406	276	6,606	22,799	20,335	387	10,064	2,474	7,410
1,431	--	258	1,836	24	22	--	--	2
1,862	--	317	1,769	3	3	--	--	--
2,026	--	375	1,483	3	1	--	--	2
1,791	--	372	1,397	--	--	--	--	--
8,506	--	1,265	4,543	51	51	--	--	--
4,018	--	279	2,100	2	--	--	--	2
1,042	--	76	352	12	11	--	--	1
20,676	--	2,942	13,480	95	88	--	--	7
2,792	11	503	3,838	3,178	35	1,681	340	1,122
3,681	10	598	3,107	2,878	12	1,651	230	985
4,206	10	811	3,134	3,200	63	1,963	361	813
3,937	15	788	3,017	2,813	35	1,707	343	728
17,661	77	3,314	11,168	6,397	213	2,540	987	2,657
9,571	52	1,166	6,529	1,725	76	507	195	947
4,234	101	2,368	5,486	239	41	15	18	165
46,082	276	9,548	36,279	20,430	475	10,064	2,474	7,417
1,489	--	136	800	2,770	38	2,220	--	512
1,936	--	158	1,001	2,595	58	2,035	--	502
2,219	--	153	977	2,117	92	1,563	--	462
2,673	--	173	1,185	1,663	137	1,086	--	440
14,877	--	997	6,289	3,763	414	2,064	--	1,285
11,921	--	913	5,914	986	214	231	--	541
9,328	--	1,085	13,147	113	28	--	--	85
44,443	--	3,615	29,313	14,007	981	9,199	--	3,827
1,233	--	259	1,636	83	57	--	21	5
1,394	--	332	1,509	56	40	--	16	--
1,333	--	356	1,237	29	26	3	--	--
1,183	--	413	1,169	14	14	--	--	--
4,869	--	829	2,968	94	94	--	--	--
1,617	--	332	1,038	54	54	--	--	--
455	--	167	180	67	67	--	--	--
12,084	--	2,688	9,737	397	352	3	37	5

Table 14.--Net volume of sawtimber on commercial forest land by species

(Million board feet,

Region and diameter class (inches)	Total all species	Softwoods				
		Total	Douglas-fir	Ponderosa and Jeffrey pines	Western white and sugar pines	Western hemlock
Washington:						
11.0 - 13.0	20,510	17,657	6,622	1,521	201	3,760
13.0 - 15.0	23,337	20,686	7,903	1,764	191	4,498
15.0 - 17.0	23,787	21,641	7,914	1,883	325	5,244
17.0 - 19.0	24,516	22,839	8,268	2,017	237	5,521
19.0 - 29.0	114,631	110,774	35,725	9,728	1,359	33,133
29.0 - 39.0	80,534	79,494	22,592	5,943	500	28,724
39.0 and larger	85,750	85,570	29,422	1,583	162	30,041
Total	373,065	358,661	118,446	24,439	2,975	110,921
Douglas-fir subregion:						
11.0 - 13.0	28,037	22,113	10,180	149	318	5,422
13.0 - 15.0	33,224	27,754	13,635	134	466	6,976
15.0 - 17.0	37,169	31,855	15,137	213	491	8,388
17.0 - 19.0	38,454	33,978	16,164	241	592	8,753
19.0 - 29.0	192,891	182,782	88,856	1,186	3,038	49,633
29.0 - 39.0	158,596	155,887	83,533	1,139	2,409	39,137
39.0 and larger	213,828	213,488	139,420	1,185	2,624	35,980
Total	702,199	667,857	366,925	4,247	9,938	154,289
Ponderosa pine subregion:						
11.0 - 13.0	13,876	13,769	3,113	3,715	123	165
13.0 - 15.0	15,705	15,646	3,656	4,470	127	210
15.0 - 17.0	16,544	16,512	3,923	5,168	298	313
17.0 - 19.0	16,662	16,648	3,807	6,076	168	272
19.0 - 29.0	81,299	81,154	17,246	37,853	1,283	1,792
29.0 - 39.0	47,277	47,221	8,782	28,218	327	510
39.0 and larger	15,812	15,733	4,542	8,357	422	140
Total	207,175	206,683	45,069	93,857	2,748	3,402
All regions	909,374	874,540	411,994	98,104	12,686	157,691

and diameter class and by region and State, January 1, 1963--Continued

International ¼-inch rule)

				Hardwoods				
True firs	Redwood	Spruce	Other softwoods	Total	Cottonwood and aspen	Red alder	Oaks	Other western hardwoods
2,722	--	395	2,436	2,853	95	2,220	21	517
3,330	--	490	2,510	2,651	98	2,035	16	502
3,552	--	509	2,214	2,146	118	1,566	--	462
3,856	--	586	2,354	1,677	151	1,086	--	440
19,746	--	1,826	9,257	3,857	508	2,064	--	1,285
13,538	--	1,245	6,952	1,040	268	231	--	541
9,783	--	1,252	13,327	180	95	--	--	85
56,527	--	6,303	39,050	14,404	1,333	9,202	37	3,832
2,850	11	381	2,802	5,924	51	3,901	340	1,632
3,755	10	439	2,339	5,470	67	3,686	230	1,487
4,399	10	589	2,628	5,314	154	3,526	361	1,273
4,819	15	589	2,805	4,476	172	2,793	343	1,168
24,032	77	3,046	12,914	10,109	576	4,604	987	3,942
17,474	52	1,800	10,343	2,709	290	738	195	1,486
12,520	101	3,377	18,281	340	58	15	18	249
69,849	276	10,221	52,112	34,342	1,368	19,263	2,474	11,237
2,664	--	517	3,472	107	79	--	21	7
3,256	--	649	3,278	59	43	--	16	--
3,359	--	731	2,720	32	27	3	11	2
2,974	--	785	2,566	14	14	--	--	--
13,375	--	2,094	7,511	145	145	--	--	--
5,635	--	611	3,138	56	54	--	--	2
1,497	--	243	532	79	78	--	--	1
32,760	--	5,630	23,217	492	440	3	37	12
102,609	276	15,851	75,329	34,834	1,808	19,266	2,511	11,249

Table 15.--Net volume of salvable dead sawtimber-size trees on commercial forest land, by softwoods and hardwoods and by region and State, January 1, 1963

(Million board feet, International ¼-inch rule)

Region and State	All species	Softwoods	Hardwoods
Western Oregon	19,589	19,277	312
Eastern Oregon	1,551	1,551	--
Total Oregon	21,140	20,828	312
Western Washington	14,191	13,964	227
Eastern Washington	2,360	2,354	6
Total Washington	16,551	16,318	233
Douglas-fir subregion	33,780	33,241	539
Ponderosa pine subregion	3,911	3,905	6
All regions	37,691	37,146	545

Table 16.--Net annual growth and cut of growing stock on commercial forest land, by softwoods and hardwoods and by region and State, 1962

(Thousand cubic feet)

Region and State	All species		Softwoods		Hardwoods	
	Growth	Cut	Growth	Cut	Growth	Cut
Western Oregon	595,000	1,337,879	502,180	1,319,284	92,820	18,595
Eastern Oregon	279,000	279,544	278,330	279,544	670	--
Total Oregon	874,000	1,617,423	780,510	1,598,828	93,490	18,595
Western Washington	1,137,000	720,727	965,846	682,145	171,154	38,582
Eastern Washington	304,000	181,840	300,693	181,840	3,307	--
Total Washington	1,441,000	902,567	1,266,539	863,985	174,461	38,582
Douglas-fir subregion	1,732,000	2,058,606	1,468,026	2,001,429	263,974	57,177
Ponderosa pine subregion	583,000	461,384	579,023	461,384	3,977	--
All regions	2,315,000	2,519,990	2,047,049	2,462,813	267,951	57,177

Table 17.--Net annual growth and cut of sawtimber on commercial forest land, by softwoods and hardwoods and by region and State, 1962

(Thousand board feet, International ¼-inch rule)

Region and State	All species		Softwoods		Hardwoods	
	Growth	Cut	Growth	Cut	Growth	Cut
Western Oregon	2,700,000	9,093,388	2,365,200	8,965,395	334,800	127,993
Eastern Oregon	955,000	1,702,004	953,338	1,702,004	1,662	--
Total Oregon	3,655,000	10,795,392	3,318,538	10,667,399	336,462	127,993
Western Washington	4,920,000	4,694,073	4,464,263	4,443,233	455,737	250,840
Eastern Washington	997,000	1,031,242	991,909	1,031,242	5,091	--
Total Washington	5,917,000	5,725,315	5,456,172	5,474,475	460,828	250,840
Douglas-fir subregion	7,620,000	13,787,461	6,829,463	13,408,628	790,537	378,833
Ponderosa pine subregion	1,952,000	2,733,246	1,945,247	2,733,246	6,753	--
All regions	9,572,000	16,520,707	8,774,710	16,141,874	797,290	378,833

Table 18.--Net annual growth and cut of growing stock on

(Thousand

Region and State	All species		Douglas-fir		Ponderosa and Jeffrey pines		Western white and sugar pines	
	Growth	Cut	Growth	Cut	Growth	Cut	Growth	Cut
Western Oregon	595,000	1,337,879	337,896	1,044,874	6,101	10,554	11,189	15,831
Eastern Oregon	279,000	279,544	46,129	57,865	93,317	176,112	2,282	1,398
Total Oregon	874,000	1,617,423	384,025	1,102,739	99,418	186,666	13,471	17,229
Western Washington	1,137,000	720,727	324,661	340,186	311	2,796	6,324	6,071
Eastern Washington	304,000	181,840	98,008	49,642	60,331	91,302	3,320	1,981
Total Washington	1,441,000	902,567	422,669	389,828	60,642	94,098	9,644	8,052
Douglas-fir subregion	1,732,000	2,058,606	662,557	1,385,060	6,412	13,350	17,513	21,902
Ponderosa pine subregion	583,000	461,384	144,137	107,507	153,648	267,414	5,602	3,379
All regions	2,315,000	2,519,990	806,694	1,492,567	160,060	280,764	23,115	25,281

Table 19.--Net annual growth and cut of sawtimber on

(Thousand board feet,

Region and State	All species		Douglas-fir		Ponderosa and Jeffrey pines		Western white and sugar pines	
	Growth	Cut	Growth	Cut	Growth	Cut	Growth	Cut
Western Oregon	2,700,000	9,093,388	1,674,719	7,100,592	25,172	71,723	50,389	107,585
Eastern Oregon	955,000	1,702,004	149,765	352,315	363,310	1,072,262	7,271	8,510
Total Oregon	3,655,000	10,795,392	1,824,484	7,452,907	388,482	1,143,985	57,660	116,095
Western Washington	4,920,000	4,694,073	1,455,504	2,215,840	1,468	18,217	26,032	39,545
Eastern Washington	997,000	1,031,242	347,764	281,529	271,170	517,787	15,115	11,240
Total Washington	5,917,000	5,725,315	1,803,268	2,497,369	272,638	536,004	41,147	50,785
Douglas-fir subregion	7,620,000	13,787,461	3,130,223	9,316,432	26,640	89,940	76,421	147,130
Ponderosa pine subregion	1,952,000	2,733,246	497,529	633,844	634,480	1,590,049	22,386	19,750
All regions	9,572,000	16,520,707	3,627,752	9,950,276	661,120	1,679,989	98,807	166,880

commercial forest land, by species and by region and State, 1962

cubic feet)

Western hemlock		True firs		Redwood		Spruce		Other western softwoods		Hardwoods	
Growth	Cut	Growth	Cut	Growth	Cut	Growth	Cut	Growth	Cut	Growth	Cut
62,015	150,398	40,703	71,241	318	--	10,273	6,596	33,685	19,790	92,820	18,595
1,309	--	71,873	30,191	--	--	8,899	839	54,521	13,139	670	--
63,324	150,398	112,576	101,432	318	--	19,172	7,435	88,206	32,929	93,490	18,595
368,381	201,642	156,299	71,897	--	--	11,848	9,823	98,022	49,730	171,154	38,582
11,295	1,872	56,903	20,512	--	--	11,866	1,746	58,970	14,785	3,307	--
379,676	203,514	213,202	92,409	--	--	23,714	11,569	156,992	64,515	174,461	38,582
430,396	352,040	197,002	143,138	318	--	22,121	16,419	131,707	69,520	263,974	57,177
12,604	1,872	128,776	50,703	--	--	20,765	2,585	113,491	27,924	3,977	--
443,000	353,912	325,778	193,841	318	--	42,886	19,004	245,198	97,444	267,951	57,177

commercial forest land, by species and by region and State, 1962

International ¼-inch rule)

Western hemlock		True firs		Redwood		Spruce		Other western softwoods		Hardwoods	
Growth	Cut	Growth	Cut	Growth	Cut	Growth	Cut	Growth	Cut	Growth	Cut
281,274	1,022,055	153,876	484,131	1,670	--	40,011	44,828	138,089	134,481	334,800	127,993
3,822	--	239,188	183,816	--	--	34,032	5,106	155,950	79,995	1,662	--
285,096	1,022,055	393,064	667,947	1,670	--	74,043	49,934	294,039	214,476	336,462	127,993
1,735,920	1,313,420	715,349	468,316	--	--	58,181	63,982	471,809	323,913	455,737	250,840
39,861	10,622	156,791	116,324	--	--	34,883	9,900	126,325	83,840	5,091	--
1,775,781	1,324,042	872,140	584,640	--	--	93,064	73,882	598,134	407,753	460,828	250,840
2,017,194	2,335,475	869,225	952,447	1,670	--	98,192	108,810	609,898	458,394	790,537	378,833
43,683	10,622	395,979	300,140	--	--	68,915	15,006	282,275	163,835	6,753	--
2,060,877	2,346,097	1,265,204	1,252,587	1,670	--	167,107	123,816	892,173	622,229	797,290	378,833

Table 20.--Net annual growth and cut of growing stock on commercial forest

(Thousand

Region and State	All ownerships						National Forest							
	All species		Softwoods		Hardwoods		All species		Softwoods		Hardwoods		All species	
	Growth	Cut	Growth	Cut	Growth	Cut	Growth	Cut	Growth	Cut	Growth	Cut	Growth	Cut
Western Oregon	595,000	1,337,879	502,180	1,319,284	92,820	18,595	65,000	422,484	62,872	420,869	2,128	1,615	161,000	238,258
Eastern Oregon	279,000	279,544	278,330	279,544	670	--	149,000	162,326	148,944	162,326	56	--	7,000	14,078
Total Oregon	874,000	1,617,423	780,510	1,598,828	93,490	18,595	214,000	584,810	211,816	583,195	2,184	1,615	168,000	252,336
Western Washington	1,137,000	720,727	965,846	682,145	171,154	38,582	54,000	177,157	53,924	176,922	76	235	254,000	81,298
Eastern Washington	304,000	181,840	300,693	181,840	3,307	--	123,000	65,769	121,445	65,769	1,555	--	51,000	43,738
Total Washington	1,441,000	902,567	1,266,539	863,985	174,461	38,582	177,000	242,926	175,369	242,691	1,631	235	305,000	125,036
Douglas-fir subregion	1,732,000	2,058,606	1,468,026	2,001,429	263,974	57,177	119,000	599,641	116,796	597,791	2,204	1,850	415,000	319,556
Ponderosa pine subregion	583,000	461,384	579,023	461,384	3,977	--	272,000	228,095	270,389	228,095	1,611	--	58,000	57,816
All regions	2,315,000	2,519,990	2,047,049	2,462,813	267,951	57,177	391,000	827,736	387,185	825,886	3,815	1,850	473,000	377,372

Table 21.--Net annual growth and cut of sawtimber on commercial forest land

(Thousand board feet,

Region and State	All ownerships						National Forest							
	All species		Softwoods		Hardwoods		All species		Softwoods		Hardwoods		All species	
	Growth	Cut	Growth	Cut	Growth	Cut	Growth	Cut	Growth	Cut	Growth	Cut	Growth	Cut
Western Oregon	2,700,000	9,093,388	2,365,200	8,965,395	334,800	127,993	380,000	2,870,704	369,556	2,863,380	10,444	7,324	780,000	1,619,259
Eastern Oregon	955,000	1,702,004	953,338	1,702,004	1,662	--	455,000	988,329	454,913	988,329	87	--	22,000	85,713
Total Oregon	3,655,000	10,795,392	3,318,538	10,667,399	336,462	127,993	835,000	3,859,033	824,469	3,851,709	10,531	7,324	802,000	1,704,972
Western Washington	4,920,000	4,694,073	4,464,263	4,443,233	455,737	250,840	260,000	1,152,249	259,705	1,151,077	295	1,172	1,110,000	530,298
Eastern Washington	997,000	1,031,242	991,909	1,031,242	5,091	--	428,000	372,982	425,692	372,982	2,308	--	175,000	248,046
Total Washington	5,917,000	5,725,315	5,456,172	5,474,475	460,828	250,840	688,000	1,525,231	685,397	1,524,059	2,603	1,172	1,285,000	778,344
Douglas-fir subregion	7,620,000	13,787,461	6,829,463	13,408,628	790,537	378,833	640,000	4,022,953	629,261	4,014,457	10,739	8,496	1,890,000	2,149,557
Ponderosa pine subregion	1,952,000	2,733,246	1,945,247	2,733,246	6,753	--	883,000	1,361,311	880,605	1,361,311	2,395	--	197,000	333,759
All regions	9,572,000	16,520,707	8,774,710	16,141,874	797,290	378,833	1,523,000	5,384,264	1,509,866	5,375,768	13,134	8,496	2,087,000	2,483,316

land, by ownership, softwoods and hardwoods, and by region and State, 1962

cubic feet)

Other public				Forest industry						Farmer and miscellaneous private					
Softwoods		Hardwoods		All species		Softwoods		Hardwoods		All species		Softwoods		Hardwoods	
Growth	Cut	Growth	Cut	Growth	Cut	Growth	Cut	Growth	Cut	Growth	Cut	Growth	Cut	Growth	Cut
148,426	234,513	12,574	3,745	188,835	598,441	173,389	594,830	15,446	3,611	180,165	78,696	117,493	69,072	62,672	9,624
6,991	14,078	9	--	53,640	70,668	53,640	70,668	--	--	69,360	32,472	68,755	32,472	605	--
155,417	248,591	12,583	3,745	242,475	669,109	227,029	665,498	15,446	3,611	249,525	111,168	186,248	101,544	63,277	9,624
223,394	72,842	30,606	8,456	494,849	309,202	450,967	296,376	43,882	12,826	334,151	153,070	237,561	136,005	96,590	17,065
50,633	43,738	367	--	27,214	22,206	26,885	22,206	329	--	102,786	50,127	101,730	50,127	1,056	--
274,027	116,580	30,973	8,456	522,063	331,408	477,852	318,582	44,211	12,826	436,937	203,197	339,291	186,132	97,646	17,065
371,820	307,355	43,180	12,201	683,684	907,643	624,356	891,206	59,328	16,437	514,316	231,766	355,054	205,077	159,262	26,689
57,624	57,816	376	--	80,854	92,874	80,525	92,874	329	--	172,146	82,599	170,485	82,599	1,661	--
429,444	365,171	43,556	12,201	764,538	1,000,517	704,881	984,080	59,657	16,437	686,462	314,365	525,539	287,676	160,923	26,689

by ownership, softwoods and hardwoods, and by region and State, 1962

International ¼-inch rule)

Other public				Forest industry						Farmer and miscellaneous private					
Softwoods		Hardwoods		All species		Softwoods		Hardwoods		All species		Softwoods		Hardwoods	
Growth	Cut	Growth	Cut	Growth	Cut	Growth	Cut	Growth	Cut	Growth	Cut	Growth	Cut	Growth	Cut
739,107	1,595,923	40,893	23,336	798,875	4,066,923	750,678	4,042,189	48,197	24,734	741,125	536,502	505,859	463,903	235,266	72,599
21,956	85,713	44	--	219,350	430,259	219,350	430,259	--	--	258,650	197,703	257,119	197,703	1,531	--
761,063	1,681,636	40,937	23,336	1,018,225	4,497,182	970,028	4,472,448	48,197	24,734	999,775	734,205	762,978	661,606	236,797	72,599
1,037,797	478,665	72,203	51,633	2,321,501	2,013,068	2,204,219	1,926,162	117,282	86,906	1,228,499	998,458	962,542	887,329	265,957	111,129
174,470	248,046	530	--	91,584	125,935	91,004	125,935	580	--	302,416	284,279	300,743	284,279	1,673	--
1,212,267	726,711	72,733	51,633	2,413,085	2,139,003	2,295,223	2,052,097	117,862	86,906	1,530,915	1,282,737	1,263,285	1,171,608	267,630	111,129
1,776,904	2,074,588	113,096	74,969	3,120,376	6,079,991	2,954,897	5,968,351	165,479	111,640	1,969,624	1,534,960	1,468,401	1,351,232	501,223	183,728
196,426	333,759	574	--	310,934	556,194	310,354	556,194	580	--	561,066	481,982	557,862	481,982	3,204	--
1,973,330	2,408,347	113,670	74,969	3,431,310	6,636,185	3,265,251	6,524,545	166,059	111,640	2,530,690	2,016,942	2,026,263	1,833,214	504,427	183,728

Table 22.--Annual mortality of growing stock and sawtimber on commercial forest land, by softwoods and hardwoods and by region and State, 1962

Region and State	Growing stock			Sawtimber		
	All species	Softwoods	Hardwoods	All species	Softwoods	Hardwoods
	Thousand cubic feet			Thousand board feet[1]		
Western Oregon	511,000	487,761	23,239	2,850,000	2,766,365	83,635
Eastern Oregon	261,000	260,664	336	1,260,000	1,259,042	958
Total Oregon	772,000	748,425	23,575	4,110,000	4,025,407	84,593
Western Washington	439,000	418,806	20,194	2,120,000	2,060,640	59,360
Eastern Washington	158,000	156,290	1,710	643,000	639,874	3,126
Total Washington	597,000	575,096	21,904	2,763,000	2,700,514	62,486
Douglas-fir subregion	950,000	906,567	43,433	4,970,000	4,827,005	142,995
Ponderosa pine subregion	419,000	416,954	2,046	1,903,000	1,898,916	4,084
All regions	1,369,000	1,323,521	45,479	6,873,000	6,725,921	147,079

[1] International ¼-inch rule.

Table 23.--Annual mortality of growing stock and sawtimber on commercial forest land by cause and by region and State, 1962

Region and State	Fire			Insects			Disease			Other[1]			Unknown		
	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods
	Thousand cubic feet														
Growing stock:															
Western Oregon	23,222	23,222	--	223,320	223,320	--	59,303	54,598	4,705	88,152	83,445	4,707	117,003	103,176	13,827
Eastern Oregon	4,735	4,735	--	126,321	126,321	--	23,038	22,971	67	71,703	71,633	70	35,203	35,004	199
Total Oregon	27,957	27,957	--	349,641	349,641	--	82,341	77,569	4,772	159,855	155,078	4,777	152,206	138,180	14,026
Western Washington	14,986	14,986	--	185,506	185,506	--	53,002	48,914	4,088	128,088	123,998	4,090	57,418	45,402	12,016
Eastern Washington	3,356	3,356	--	62,170	62,170	--	10,622	10,276	346	54,827	54,481	346	27,025	26,007	1,018
Total Washington	18,342	18,342	--	247,676	247,676	--	63,624	59,190	4,434	182,915	178,479	4,436	84,443	71,409	13,034
Douglas-fir subregion	38,208	38,208	--	408,826	408,826	--	112,305	103,512	8,793	216,240	207,443	8,797	174,421	148,578	25,843
Ponderosa pine subregion	8,091	8,091	--	188,491	188,491	--	33,660	33,247	413	126,530	126,114	416	62,228	61,011	1,217
All regions	46,299	46,299	--	597,317	597,317	--	145,965	136,759	9,206	342,770	333,557	9,213	236,649	209,589	27,060
	Thousand board feet[2]														
Sawtimber:															
Western Oregon	111,696	111,696	--	1,308,465	1,308,465	--	349,319	329,789	19,530	417,406	397,878	19,528	663,114	618,537	44,577
Eastern Oregon	22,868	22,868	--	609,818	609,818	--	111,217	110,994	223	346,148	345,924	224	169,949	169,438	511
Total Oregon	134,564	134,564	--	1,918,283	1,918,283	--	460,536	440,783	19,753	763,554	743,802	19,752	833,063	787,975	45,088
Western Washington	81,376	81,376	--	885,894	885,894	--	266,836	252,976	13,860	640,405	626,544	13,861	245,489	213,850	31,639
Eastern Washington	13,659	13,659	--	246,651	246,651	--	40,685	39,955	730	228,851	228,121	730	113,154	111,488	1,666
Total Washington	95,035	95,035	--	1,132,545	1,132,545	--	307,521	292,931	14,590	869,256	854,665	14,591	358,643	325,338	33,305
Douglas-fir subregion	193,072	193,072	--	2,194,359	2,194,359	--	616,155	582,765	33,390	1,057,811	1,024,422	33,389	908,603	832,387	76,216
Ponderosa pine subregion	36,527	36,527	--	856,469	856,469	--	151,902	150,949	953	574,999	574,045	954	283,103	280,926	2,177
All regions	229,599	229,599	--	3,050,828	3,050,828	--	768,057	733,714	34,343	1,632,810	1,598,467	34,343	1,191,706	1,113,313	78,393

[1] Weather, animals, suppression, etc.

[2] International ¼-inch rule.

Table 24.--Total output of timber products by products,

(Standard

Region and State	Saw logs			Veneer logs			Pulpwood			Total miscellaneous		
	All species	Softwoods	Hardwoods	All species	Softwoods	Hardwoods	All species	Softwoods	Hardwoods	All species	Softwoods	Hardwoods
	M bd. ft.[2]			M bd. ft.[2]			M cords			M cu. ft.		
Western Oregon	5,983,000	5,927,000	56,000	3,436,000	3,436,000	--	2,031	1,916	115	20,172	20,110	62
Eastern Oregon	1,729,000	1,729,000	--	--	--	--	97	97	--	1,806	1,806	--
Total Oregon	7,712,000	7,656,000	56,000	3,436,000	3,436,000	--	2,128	2,013	115	21,978	21,916	62
Western Washington	2,518,000	2,460,000	58,000	689,000	689,000	--	5,034	4,730	304	28,565	28,565	--
Eastern Washington	955,000	955,000	--	--	--	--	83	83	--	3,522	3,522	--
Total Washington	3,473,000	3,415,000	58,000	689,000	689,000	--	5,117	4,813	304	32,087	32,087	--
Douglas-fir subregion	8,501,000	8,387,000	114,000	4,125,000	4,125,000	--	7,065	6,646	419	48,737	48,675	62
Ponderosa pine subregion	2,684,000	2,684,000	--	--	--	--	180	180	--	5,328	5,328	--
All regions	11,185,000	11,071,000	114,000	4,125,000	4,125,000	--	7,245	6,826	419	54,065	54,003	62

[1] These estimates of total output include both roundwood and plant byproducts.

[2] International 1/4-inch rule. In case of saw logs, assumed to equal lumber tally.

[3] Includes hewn ties, excelsior bolts, shingle bolts, turnery and handle stock, shuttle blocks, chemical wood, farm timbers, and plant byproducts used for mulch, livestock bedding, etc.

Table 25.--Total roundwood production by source of material,

(Thousand

Region and State	All sources			Growing-stock trees		
	All species	Softwoods	Hardwoods	All species	Softwoods	Hardwoods
Western Oregon	1,493,320	1,475,075	18,245	1,219,630	1,202,403	17,227
Eastern Oregon	280,222	280,222	--	268,753	268,753	---
Total Oregon	1,773,542	1,755,297	18,245	1,488,383	1,471,156	17,227
Western Washington	716,897	680,789	36,108	650,671	615,563	35,108
Eastern Washington	181,775	181,775	--	171,306	171,306	--
Total Washington	898,672	862,564	36,108	821,977	786,869	35,108
Douglas-fir subregion	2,210,217	2,155,864	54,353	1,870,301	1,817,966	52,335
Ponderosa pine subregion	461,997	461,997	--	440,059	440,059	--
All regions	2,672,214	2,617,861	54,353	2,310,360	2,258,025	52,335

[1] Trees less than 5.0 inches in diameter on commercial forest land and trees on noncommercial and nonforest lands.

softwoods and hardwoods, and by region and State, 1962[1/]

units)

Miscellaneous industrial wood																			Fuelwood		
Cooperage			Piling			Poles			Posts			Mine timbers			Other industrial[3/]					
All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods
-- M bd. ft.[2/] --			--- M lin. ft. ---			--- M pieces ---			---- M pieces ----			--- M cu. ft. ---			----- M cu. ft. -----			------ M cords ------		
--	--	--	2,196	2,196	--	236	236	--	1,059	1,003	56	--	--	--	11,391	11,391	--	2,424	2,422	2
--	--	--	--	--	--	5	5	--	1,548	1,548	--	--	--	--	--	--	--	678	678	--
--	--	--	2,196	2,196	--	241	241	--	2,607	2,551	56	--	--	--	11,391	11,391	--	3,102	3,100	2
--	--	--	619	619	--	65	65	--	391	391	--	43	43	--	26,206	26,206	--	927	926	1
--	--	--	--	--	--	67	67	--	1,677	1,677	--	126	126	--	--	--	--	492	492	--
--	--	--	619	619	--	132	132	--	2,068	2,068	--	169	169	--	26,206	26,206	--	1,419	1,418	1
--	--	--	2,815	2,815	--	301	301	--	1,450	1,394	56	43	43	--	37,597	37,597	--	3,351	3,348	3
--	--	--	--	--	--	72	72	--	3,225	3,225	--	126	126	--	--	--	--	1,170	1,170	--
--	--	--	2,815	2,815	--	373	373	--	4,675	4,619	56	169	169	--	37,597	37,597	--	4,521	4,518	3

softwoods and hardwoods, and by region and State, 1962

cubic feet)

Cull trees			Dead trees			Other sources[1/]		
All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods
13,816	13,380	436	256,733	256,733	--	3,141	2,559	582
1,469	1,469	--	10,000	10,000	--	--	--	--
15,285	14,849	436	266,733	266,733	--	3,141	2,559	582
11,191	11,047	144	54,025	53,169	856	1,010	1,010	--
1,800	1,800	--	8,669	8,669	--	--	--	--
12,991	12,847	144	62,694	61,838	856	1,010	1,010	--
25,007	24,427	580	310,758	309,902	856	4,151	3,569	582
3,269	3,269	--	18,669	18,669	--	--	--	--
28,276	27,696	580	329,427	328,571	856	4,151	3,569	582

Table 26.--Timber cut from growing stock, by roundwood products and

(Thousand

Region and State	Total timber cut			Roundwood					
				Total			Saw logs		
	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods
Western Oregon	1,337,879	1,319,284	18,595	1,219,630	1,202,403	17,227	746,000	739,000	7,000
Eastern Oregon	279,544	279,544	--	268,753	268,753	--	267,000	267,000	--
Total Oregon	1,617,423	1,598,828	18,595	1,488,383	1,471,156	17,227	1,013,000	1,006,000	7,000
Western Washington	720,727	682,145	38,582	650,671	615,563	35,108	320,000	312,000	8,000
Eastern Washington	181,840	181,840	--	171,306	171,306	--	160,000	160,000	--
Total Washington	902,567	863,985	38,582	821,977	786,869	35,108	480,000	472,000	8,000
Douglas-fir subregion	2,058,606	2,001,429	57,177	1,870,301	1,817,966	52,335	1,066,000	1,051,000	15,000
Ponderosa pine subregion	461,384	461,384	--	440,059	440,059	--	427,000	427,000	--
All regions	2,519,990	2,462,813	57,177	2,310,360	2,258,025	52,335	1,493,000	1,478,000	15,000

1/ Includes hewn ties, box bolts, shingle logs, excelsior bolts, turnery bolts, chemical wood, and bolts for other miscellaneous products.

Table 27.--Timber cut from sawtimber, by roundwood products and

(Thousand board feet,

Region and State	Total timber cut			Roundwood					
				Total			Saw logs		
	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods
Western Oregon	9,093,388	8,965,395	127,993	8,312,000	8,192,629	119,371	5,074,000	5,025,000	49,000
Eastern Oregon	1,702,004	1,702,004	--	1,685,055	1,685,055	--	1,675,000	1,675,000	--
Total Oregon	10,795,392	10,667,399	127,993	9,997,055	9,877,684	119,371	6,749,000	6,700,000	49,000
Western Washington	4,694,073	4,443,233	250,840	4,586,686	4,341,686	245,000	2,245,000	2,194,000	51,000
Eastern Washington	1,031,242	1,031,242	--	1,010,000	1,010,000	--	939,000	939,000	--
Total Washington	5,725,315	5,474,475	250,840	5,596,686	5,351,686	245,000	3,184,000	3,133,000	51,000
Douglas-fir subregion	13,787,461	13,408,628	378,833	12,898,686	12,534,315	364,371	7,319,000	7,219,000	100,000
Ponderosa pine subregion	2,733,246	2,733,246	--	2,695,055	2,695,055	--	2,614,000	2,614,000	--
All regions	16,520,707	16,141,874	378,833	15,593,741	15,229,370	364,371	9,933,000	9,833,000	100,000

logging residues, softwoods and hardwoods, and by region and State, 1962

cubic feet)

products														
Veneer			Pulpwood			Other industrial[1/]			Fuelwood			Logging residues		
All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods
382,000	382,000	--	72,000	62,000	10,000	14,133	14,089	44	5,497	5,314	183	118,249	116,881	1,368
--	--	--	--	--	--	1,124	1,124	--	629	629	--	10,791	10,791	--
382,000	382,000	--	72,000	62,000	10,000	15,257	15,213	44	6,126	5,943	183	129,040	127,672	1,368
90,000	90,000	--	222,660	195,660	27,000	15,311	15,311	--	2,700	2,592	108	70,056	66,582	3,474
--	--	--	6,030	6,030	--	2,816	2,816	--	2,460	2,460	--	10,534	10,534	--
90,000	90,000	--	228,690	201,690	27,000	18,127	18,127	--	5,160	5,052	108	80,590	77,116	3,474
472,000	472,000	--	294,660	257,660	37,000	29,444	29,400	44	8,197	7,906	291	188,305	183,463	4,842
--	--	--	6,030	6,030	--	3,940	3,940	--	3,089	3,089	--	21,325	21,325	--
472,000	472,000	--	300,690	263,690	37,000	33,384	33,340	44	11,286	10,995	291	209,630	204,788	4,842

logging residues, softwoods and hardwoods, and by region and State, 1962

International ¼-inch rule)

products														
Veneer			Pulpwood			Other industrial			Fuelwood			Logging residues		
All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods
2,611,000	2,611,000	--	496,000	426,000	70,000	93,000	92,629	371	38,000	38,000	--	781,388	772,766	8,622
--	--	--	--	--	--	6,055	6,055	--	4,000	4,000	--	16,949	16,949	--
2,611,000	2,611,000	--	496,000	426,000	70,000	99,055	98,684	371	42,000	42,000	--	798,337	789,715	8,622
634,000	634,000	--	1,578,000	1,384,000	194,000	110,686	110,686	--	19,000	19,000	--	107,387	101,547	5,840
--	--	--	41,000	41,000	--	16,000	16,000	--	14,000	14,000	--	21,242	21,242	--
634,000	634,000	--	1,619,000	1,425,000	194,000	126,686	126,686	--	33,000	33,000	--	128,629	122,789	5,840
3,245,000	3,245,000	--	2,074,000	1,810,000	264,000	203,686	203,315	371	57,000	57,000	--	888,775	874,313	14,462
--	--	--	41,000	41,000	--	22,055	22,055	--	18,000	18,000	--	38,191	38,191	--
3,245,000	3,245,000	--	2,115,000	1,851,000	264,000	225,741	225,370	371	75,000	75,000	--	926,966	912,504	14,462

Table 28.--Total roundwood production from growing stock, by

(Standard

Region and State	Saw logs			Veneer logs			Pulpwood			Cooperage		
	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods
	M bd. ft.1/			M bd. ft.1/			M cords			M bd. ft.1/		
Western Oregon	5,074,000	5,025,000	49,000	2,611,000	2,611,000	--	809	694	115	--	--	--
Eastern Oregon	1,675,000	1,675,000	--	--	--	--	--	--	--	--	--	--
Total Oregon	6,749,000	6,700,000	49,000	2,611,000	2,611,000	--	809	694	115	--	--	--
Western Washington	2,245,000	2,194,000	51,000	634,000	634,000	--	2,478	2,174	304	--	--	--
Eastern Washington	939,000	939,000	--	--	--	--	67	67	--	--	--	--
Total Washington	3,184,000	3,133,000	51,000	634,000	634,000	--	2,545	2,241	304	--	--	--
Douglas-fir subregion	7,319,000	7,219,000	100,000	3,245,000	3,245,000	--	3,287	2,868	419	--	--	--
Ponderosa pine subregion	2,614,000	2,614,000	--	--	--	--	67	67	--	--	--	--
All regions	9,933,000	9,833,000	100,000	3,245,000	3,245,000	--	3,354	2,935	419	--	--	--

1/ International ¼-inch rule.

2/ Includes hewn ties, box bolts, shingle logs, excelsior bolts, turnery bolts, chemical wood, and bolts for other miscellaneous products.

Table 29.--Output of timber products from nongrowing-stock sources, by

Roundwood

Region and State	Total roundwood			Saw logs			Veneer logs			Pulpwood		
	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods
	M cu. ft.			M cu. ft.			M cu. ft.			M cu. ft.		
Western Oregon	273,690	272,672	1,018	133,000	132,000	1,000	121,000	121,000	--	--	--	--
Eastern Oregon	11,469	11,469	--	8,742	8,742	--	--	--	--	--	--	--
Total Oregon	285,159	284,141	1,018	141,742	140,742	1,000	121,000	121,000	--	--	--	--
Western Washington	66,226	65,226	1,000	39,000	38,000	1,000	8,000	8,000	--	--	--	--
Eastern Washington	10,469	10,469	--	2,769	2,769	--	--	--	--	--	--	--
Total Washington	76,695	75,695	1,000	41,769	40,769	1,000	8,000	8,000	--	--	--	--
Douglas-fir subregion	339,916	337,898	2,018	172,000	170,000	2,000	129,000	129,000	--	--	--	--
Ponderosa pine subregion	21,938	21,938	--	11,511	11,511	--	--	--	--	--	--	--
All regions	361,854	359,836	2,018	183,511	181,511	2,000	129,000	129,000	--	--	--	--

1/ From cull trees, dead trees, and other sources, including noncommercial forest land, nonforest land, and material less than 5.0 inches in diameter.

2/ Includes pulp chips from slabs and edgings, mill waste used for fuel, etc.

Table 30.--Roundwood production from nongrowing-stock sources, by

(Standard

Region and State	Saw logs			Veneer logs			Pulpwood			Cooperage		
	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods
	M bd. ft.1/			M bd. ft.1/			M cords			M bd. ft.1/		
Western Oregon	909,000	902,000	7,000	825,000	825,000	--	--	--	--	--	--	--
Eastern Oregon	54,000	54,000	--	--	--	--	--	--	--	--	--	--
Total Oregon	963,000	956,000	7,000	825,000	825,000	--	--	--	--	--	--	--
Western Washington	273,000	266,000	7,000	55,000	55,000	--	--	--	--	--	--	--
Eastern Washington	16,000	16,000	--	--	--	--	--	--	--	--	--	--
Total Washington	289,000	282,000	7,000	55,000	55,000	--	--	--	--	--	--	--
Douglas-fir subregion	1,182,000	1,168,000	7,000	880,000	880,000	--	--	--	--	--	--	--
Ponderosa pine subregion	70,000	70,000	7,000	--	--	--	--	--	--	--	--	--
All regions	1,252,000	1,238,000	14,000	880,000	880,000	--	--	--	--	--	--	--

1/ International ¼-inch rule.

2/ Includes hewn ties, box bolts, shingle logs, excelsior bolts, turnery bolts, chemical wood, and bolts for other miscellaneous products.

product, softwoods and hardwoods, and by region and State, 1962

units)

Piling			Poles			Posts			Mine timbers			Other industrial[2]			Fuelwood		
All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods
M lin. ft.			M pieces			M pieces			M cu. ft.			M cu. ft.			M cords		
2,196	2,196	--	236	236	--	748	708	40	--	--	--	5,696	5,696	--	61	59	2
--	--	--	5	5	--	929	929	--	--	--	--	--	--	--	7	7	--
2,196	2,196	--	241	241	--	1,677	1,637	40	--	--	--	5,696	5,696	--	68	66	2
619	619	--	65	65	--	254	254	--	43	43	--	13,103	13,103	--	30	29	1
--	--	--	67	67	--	1,037	1,037	--	126	126	--	--	--	--	27	27	--
619	619	--	132	132	--	1,291	1,291	--	169	169	--	13,103	13,103	--	57	56	1
2,815	2,815	--	301	301	--	1,002	962	40	43	43	--	18,799	18,799	--	91	88	3
--	--	--	72	72	--	1,966	1,966	--	126	126	--	--	--	--	34	34	--
2,815	2,815	--	373	373	--	2,968	2,928	40	169	169	--	18,799	18,799	--	125	122	3

type of material, softwoods and hardwoods, and by region and State, 1962

products[1]						Plant byproducts[2]								
Miscellaneous industrial			Fuelwood			Pulpwood			Miscellaneous industrial			Fuelwood		
All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods
M cu. ft.			M cu. ft.			M cords			M cu. ft.			M cords		
6,039	6,021	18	13,651	13,651	--	1,222	1,222	--	--	--	--	2,211	2,211	--
682	682	--	2,045	2,045	--	97	97	--	--	--	--	648	648	--
6,721	6,703	18	15,696	15,696	--	1,319	1,319	--	--	--	--	2,859	2,859	--
13,254	13,254	--	5,972	5,972	--	2,556	2,556	--	--	--	--	831	831	--
706	706	--	6,994	6,994	--	16	16	--	--	--	--	387	387	--
13,960	13,960	--	12,966	12,966	--	2,572	2,572	--	--	--	--	1,218	1,218	--
19,293	19,275	18	19,623	19,623	--	3,778	3,778	--	--	--	--	3,042	3,042	--
1,388	1,388	--	9,039	9,039	--	113	113	--	--	--	--	1,035	1,035	--
20,681	20,663	18	28,662	28,662	--	3,891	3,891	--	--	--	--	4,077	4,077	--

product, softwoods and hardwoods, and by region and State, 1962

units)

Piling			Poles			Posts			Mine timbers			Other industrial[2]			Fuelwood		
All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods	All species	Soft-woods	Hard-woods
M lin. ft.			M pieces			M pieces			M cu. ft.			M cu. ft.			M cords		
--	--	--	--	--	--	311	295	16	--	--	--	5,695	5,695	--	152	152	--
--	--	--	--	--	--	619	619	--	--	--	--	--	--	--	23	23	--
--	--	--	--	--	--	930	914	16	--	--	--	5,695	5,695	--	175	175	--
--	--	--	--	--	--	137	137	--	--	--	--	13,103	13,103	--	66	66	--
--	--	--	--	--	--	640	640	--	--	--	--	--	--	--	78	78	--
--	--	--	--	--	--	777	777	--	--	--	--	13,103	13,103	--	144	144	--
--	--	--	--	--	--	448	432	16	--	--	--	18,798	18,798	--	218	218	--
--	--	--	--	--	--	1,259	1,259	--	--	--	--	--	--	--	101	101	--
--	--	--	--	--	--	1,707	1,691	16	--	--	--	18,798	18,798	--	319	319	--

Table 31.--Volume of unused plant residues, by type of material, softwoods and hardwoods, and by region and State, 1962[1/]

(Thousand cubic feet)

Region and State	Total			Coarse[2/]			Fine[3/]		
	All species	Softwoods	Hardwoods	Total	Softwoods	Hardwoods	Total	Softwoods	Hardwoods
Western Oregon	168,810	161,418	7,392	83,519	80,979	2,540	85,291	80,439	4,852
Eastern Oregon	28,018	28,018	--	19,466	19,466	--	8,552	8,552	--
Total Oregon	196,828	189,436	7,392	102,985	100,445	2,540	93,843	88,991	4,852
Western Washington	27,308	26,399	909	13,410	13,055	355	13,898	13,344	554
Eastern Washington	6,748	6,748	--	5,596	5,596	--	1,152	1,152	--
Total Washington	34,056	33,147	909	19,006	18,651	355	15,050	14,496	554
Douglas-fir subregion	196,118	187,817	8,301	96,929	94,034	2,895	99,189	93,783	5,406
Ponderosa pine subregion	34,766	34,766	--	25,062	25,062	--	9,704	9,704	--
All regions	230,884	222,583	8,301	121,991	119,096	2,895	108,893	103,487	5,406

[1/] These estimates are for unused plant residues at primary manufacturing plants and are in addition to the byproducts used for pulpwood, etc., shown in other tables.

[2/] Unused material suitable for chipping, such as slabs, edgings and veneer cores, and trimmings.

[3/] Material such as sawdust and shavings.

Table 32.--Volume of unused plant residues, by industrial source and type of material and by region and State, 1962

(Thousand cubic feet)

Region and State	All industries			Lumber industry			Veneer and plywood industry			Other primary industries[1/]		
	Total	Coarse	Fine	Total	Coarse	Fine	Total	Coarse	Fine	Total	Coarse	Fine
Western Oregon	168,810	83,519	85,291	129,696	44,566	85,130	37,865	37,865	--	1,249	1,088	161
Eastern Oregon	28,018	19,466	8,552	27,205	18,653	8,552	813	813	--	--	--	--
Total Oregon	196,828	102,985	93,843	156,901	63,219	93,682	38,678	38,678	--	1,249	1,088	161
Western Washington	27,308	13,410	13,898	18,913	7,344	11,569	4,901	4,901	--	3,494	1,165	2,329
Eastern Washington	6,748	5,596	1,152	6,748	5,596	1,152	--	--	--	--	--	--
Total Washington	34,056	19,006	15,050	25,661	12,940	12,721	4,901	4,901	--	3,494	1,165	2,329
Douglas-fir subregion	196,118	96,929	99,189	148,609	51,910	96,699	42,766	42,766	--	4,743	2,253	2,490
Ponderosa pine subregion	34,766	25,062	9,704	33,953	24,249	9,704	813	813	--	--	--	--
All regions	230,884	121,991	108,893	182,562	76,159	106,403	43,579	43,579	--	4,743	2,253	2,490

[1/] Including cooperage, small dimension, excelsior, and other primary manufacturing plants.

DEFINITIONS OF TERMS

Commercial forest land.--Forest land which is producing or capable of producing crops of industrial wood and is not withdrawn from timber utilization by statute or administrative regulation. Includes areas suitable for management to grow crops of industrial wood and generally capable of producing in excess of 20 cubic feet per acre of annual growth. Includes both accessible and prospectively accessible areas and both operable and prospectively operable areas.

Commercial species.--Tree species presently or prospectively suitable for industrial wood products; excludes so-called weed species.

Cull trees.--Live trees that do not contain at least one merchantable saw log, now or prospectively, because of defect, rot, or species (also see sound cull trees and rotten cull trees).

Diameter classes.--A classification of trees based on diameter of the tree outside bark, measured at breast height (4-1/2 feet above the ground). D.b.h. is the common abbreviation for "diameter at breast height." Two-inch diameter classes in which the even inch is the approximate midpoint are used. For example, the 6-inch class includes trees 5.0 to 6.9 inches d.b.h. inclusive.

Farm.--A place operated as a unit of 10 or more acres from which the sale of agricultural products totaled $50 or more annually, or a place operated as a unit of less than 10 acres from which the sale of agricultural products totaled $250 or more annually during the previous year.

Farmer-owned lands.--Lands owned by operators of farms.

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 such tree cover and not currently developed for non-forest use. (Also see commercial forest land, noncommercial forest land, productive-reserved forest land, and unproductive forest land). Includes chaparral areas in the West and afforested areas. The minimum area for classification of forest land is 1 acre. Roadside, streamside, and shelterbelt strips of timber must have a crown width at least 120 feet wide to qualify as forest land. Unimproved roads and trails, streams, and clearings in forest areas are classed as forest if less than 120 feet in width.

Forest management.--The protection and management of forest lands for the production of timber and related products.

Forest types.--A classification of forest land based upon the species presently forming a plurality of stocking.

Growing-stock trees.--Live sawtimber trees, poletimber trees, saplings, and seedlings of commercial species meeting specified standards of quality or vigor that are now or may be expected to become suitable for use as industrial wood; excludes cull trees.

Indian lands.--Tribal lands held in fee and administered by the Federal Government and Indian trust allotments.

Industrial wood.--Commercial roundwood products such as saw logs and pulpwood, but excluding fuelwood and posts.

Land area.--(a) Census definition: The area of dry land and land temporarily or partially covered by water such as marshes, swamps, and river flood plains (omitting tidal flats below mean high tide); streams, sloughs, estuaries, and canals less than one-eighth of a statute mile in width; and lakes, reservoirs, and ponds less than 40 acres in area. (b) Forest Survey definition: Same as above except maximum width of streams, etc., is 120 feet and maximum size of lakes, etc., is 1 acre.

Logging residues.--The unused portions of growing stock or sawtimber trees cut or killed by harvesting timber, land clearing, or cultural operations.

Lumber producer.--A forest owner who manufactures lumber and uses a greater cubic volume of timber from his land for this purpose than for any other primary wood product that he may produce.

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

Miscellaneous private lands.--Privately owned lands other than forest industry or farmer-owned.

Mortality.--The volume of sound wood in live sawtimber and poletimber trees dying from natural causes during a specified period.

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

Net annual growth.--The annual change in volume of sound wood in live sawtimber and poletimber trees resulting from natural causes, i.e., increase in volume in absence of mortality and cutting, minus mortality, plus growth on mortality and growth on one-half the cut during a specified year.

Net volume.--Gross volume less deductions for defects:

> Growing stock. Gross cubic-foot volume less deductions for rot and missing sections.

Sawtimber. Gross board-foot volume less deductions for rot, sweep, crook, missing sections, and other defects that affect use for lumber.

Noncommercial forest land.--Unproductive forest land incapable of yielding crops of industrial wood because of adverse site conditions, and productive forest land withdrawn from commercial timber use through statute or administrative regulation.

Nonforest land.--Land that has never supported forests and lands formerly forested where use of timber is precluded by development for nonforest uses such as crops, improved pasture, residential areas, and city parks. Also includes improved roads and adjoining rights-of-way, powerline clearings, and certain areas of water classified by the U.S. Bureau of the Census as land. 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.

Nonstocked areas.--Commercial forest land less than 10 percent stocked with growing-stock trees.

Old-growth sawtimber stands.--Sawtimber stands in which 50 percent or more of the stand is in old-growth sawtimber trees.

Old-growth sawtimber trees.--Trees that have reached or passed the age of physiological maturity.

Other wood products producer.--A forest owner who manufactures one or more wood products other than lumber and/or pulp and who uses a greater cubic volume of timber from his land for such products than for lumber or pulp.

Ownership.--The property owned by one owner, regardless of the number of parcels that it may consist of, in a specified area such as a State or the United States as a whole.

Plant byproducts.--Wood residues from primary manufacturing that are used for products. Includes slabs, edgings, trimmings, miscuts, sawdust, shavings, veneer cores and clippings, and screenings at pulpmills.

Plant residues.--Wood materials from primary manufacturing plants that are not used for some product.

Poletimber stands.--Stands at least 10 percent stocked with growing-stock trees, with half or more of this stocking in sawtimber and/or poletimber trees, and with poletimber stocking exceeding that of sawtimber.

Poletimber trees.--Live trees 5.0 to 10.9 inches in diameter at breast height.

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

Productivity class.--A classification of forest land in terms of inherent capacity to grow crops of industrial wood under reasonably good forest management.

Pulp and paper producer.--A forest owner who manufactures woodpulp and uses a greater volume of timber from his land for this purpose than for any other primary wood product that he may produce.

Rotten cull trees.--Live trees of commercial species, 5.0 inches and larger in diameter at breast height, that do not contain at least one minimum saw log, now or prospectively, and have less than 25 percent of their volume in sound wood primarily because of rot (e.g., when more than 50 percent of cull volume in a tree is rotten).

Rough trees (sound cull trees).--Live trees, 5.0 inches or larger in diameter at breast height, that do not contain at least one minimum saw log, now or prospectively, and have less than 25 percent of their volume in usable form primarily because of roughness, poor form, or noncommercial species.

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

Salvable dead trees.--Standing or down dead trees, 11.0 inches or more in diameter at breast height, that contain at least one merchantable saw log and 25 percent or more of sound wood volume.

Saplings.--Live trees of commercial species, 1.0 to 5.0 inches in diameter at breast height and of good form and vigor.

Sapling-seedling stands.--Stands at least 10 percent stocked with growing-stock trees and with saplings and/or seedlings comprising more than half of this stocking.

Saw log.--A log meeting minimum approved log-grade specifications; or, for species for which approved log grades are lacking, a log at least 12 feet long if conifer or 8 feet long if hardwood, with a minimum d.i.b. of 6 inches, and with deduction for defect no greater than two-thirds the gross volume.

Saw-log portion.--That part of the bole of sawtimber trees between the stump and the saw log top.

Sawtimber stands.--Stands at least 10 percent stocked with growing-stock trees, with half or more of this stocking in sawtimber or poletimber trees, and with sawtimber stocking at least equal to poletimber stocking.

Sawtimber trees.--Live trees, 11.0 inches or larger in diameter at breast height, containing at least one minimum saw log.

Seedlings.--Established live trees of commercial species, less than 1.0 inch in diameter at breast height and of good form and vigor.

Stand-size class.--A classification of forest land based on the predominant size of timber present, that is, sawtimber, poletimber, saplings, and seedlings.

State, county, and municipal lands.--Lands owned by States, counties, and local public agencies, or lands leased by these governmental units for more than 50 years.

Stocking.--A measure of the degree to which area is occupied or utilized by trees of specified classes, including (1) all live trees, (2) growing-stock trees, and (3) desirable trees. Classification of forest land and forest types is based on stocking of all live trees. Stocking of growing-stock trees is used to determine stand size and age class.

Stocking standards.--The minimum number of well-spaced trees required to fully utilize the area by specified forest types and sites.

Timber cut from growing stock.--The volume of sound wood in live sawtimber and poletimber trees cut for forest products during a specified period, including both roundwood products and logging residues.

Timber cut from sawtimber.--The net board-foot volume of live sawtimber trees cut for forest products during a specified period, including both roundwood products and logging residues.

Timber products.--Roundwood products and byproducts of primary wood manufacturing plants. Includes saw logs, veneer logs and bolts, cooperage logs and bolts, pulpwood, fuelwood, piling, poles, posts, hewn ties, mine timbers, and other round, split, or hewn products.

Tree-size class.--A classification of growing-stock trees according to diameter at breast height outside bark, including sawtimber trees, poletimber trees, saplings, and seedlings.

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.

Upper-stem portion.--That part of the bole of sawtimber trees above the saw log top to a minimum top diameter of 4.0 inches outside bark, or to the point where the central stem breaks into limbs.

Volume of growing stock.--The cubic-foot volume of sound wood in the bole of noncull sawtimber and poletimber trees of commercial species from a 1-foot stump to a minimum 4.0-inch top outside bark or to the point where the central stem breaks into limbs.

Volume of salvable dead sawtimber-size trees.--Net volume of dead sawtimber-size trees, standing or down, that are considered merchantable by regional standards.

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

Young-growth sawtimber stands.--Sawtimber stands in which 50 percent or more of the stand is in young-growth sawtimber trees.

Young-growth sawtimber trees.--Trees that have not passed the age of physiological maturity.

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