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UNITED STATES DEPARTMENT OF AGRICULTURE
BULLETIN No. 232

Contribution from the Forest Service, HENRY S. GRAVES, Forester, in cooperation
with the Bureau of Crop Estimates, LEON M. ESTABROOK, Chief

Washington, D. C.

PROFESSIONAL PAPER

June 26, 1915.

THE
PRODUCTION OF LUMBER IN 1913

By

The Office of Industrial Investigations

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BULLETIN OF THE U.S. DEPARTMENT OF AGRICULTURE

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INTRODUCTION.

This bulletin presents statistics showing the production of lumber in the United States in 1913. A preliminary report issued in 1914 gave the basic information obtained in this census and it is the purpose of this publication to complete the record through a much more detailed presentation of the figures.

For several years previous to 1913 lumber production statistics were collected by the Bureau of the Census in cooperation with the Forest Service, but the figures for 1913 were collected by the Bureau of Crop Estimates of the Department of Agriculture in cooperation with the Forest Service. The work will be resumed by the Bureau of the Census for 1914.

It was necessary to rely chiefly upon correspondence in securing reports from the mills. As in former years, the New York statistics were furnished by the Conservation Commission of that State.

Attention is called to the fact that the statistics for different years are not exactly comparable on account of the varying number of small mills which made returns in the different years. In 1899 and 1909 the enumeration was exceptionally complete, special agents of the Bureau of the Census canvassing the mills in connection with the decennial census of manufacturers. Further, mills reporting less than 50,000 feet of lumber were omitted from the statistics for 1910 and later, and the census of 1904 was limited to merchant mills, thus excluding probably a somewhat larger proportion, while for the other years previous to 1910, except 1904, all mills for which reports were secured are included in the statistics. The figures for 1907, 1908, 1910, 1911, and 1912 were secured by correspondence methods which make the figures for those years more nearly comparable.

The census for 1913 is characterized by the grouping of mills into capacity classes and concentrating efforts upon an attempt to secure as complete a census as possible by correspondence from the mills in the larger classes, without attempting to follow up reports from thousands of small mills. It is believed that if the figures are separated in this manner in this and succeeding presentations of annual lumber statistics a ready means of comparison of the production of the mills in different years will be afforded, even though the number of small mills reporting may vary considerably.

Table 1 shows the lumber cut for each year since 1899 from which data have been compiled and the number of active mills reporting each year.

TABLE 1.—*Number of active mills reporting and quantity of lumber, 1899–1913.*

Year.	Number of active mills reporting.	Lumber (quantity, M feet b. m.).	Year.	Number of active mills reporting.	Lumber (quantity, M feet b. m.).
1913.....	¹ 21, 668	38, 387, 009	1908.....	31, 231	33, 224, 369
1912.....	29, 648	39, 158, 414	1907.....	28, 850	40, 256, 154
1911.....	28, 107	37, 003, 207	1906.....	22, 393	37, 550, 736
1910.....	31, 934	40, 018, 282	1904.....	18, 277	34, 135, 139
1909.....	48, 112	44, 509, 761	1899.....	31, 833	35, 084, 166

¹ In 1913 the number of active mills includes only those cutting lumber, while the figures for the other years include mills cutting lath and shingles as well as lumber.

In 1913, 21,394 mills reported a production of 38,387,009,000 board feet, as against 39,158,414,000 feet reported by 29,648 mills in 1912, and 37,003,207,000 feet reported by 28,107 mills in 1911. Although about 8,000 fewer mills reported in 1913 than in 1912 many were exclusively shingle mills, while most of the lumber mills not reporting were of small capacity and the inclusion of their reports would not change the total production in the same ratio.

The production in 1913 of nearly as much lumber as in 1912 is of special significance in view of the business conditions which have

existed in the industry. During the first three months of the year the lumber trade was much improved, but in the second quarter the demand for lumber fell off noticeably. Further weakening in the demand during the summer led to decreased production in the yellow-pine and Douglas-fir regions for short periods. The fall demand did not improve. In general the year was one of overproduction and slack business in the principal lumber manufacturing regions.

Notwithstanding temporary decreases in the production of yellow pine and Douglas fir, the reported cut of yellow pine was about seven-tenths of 1 per cent and of Douglas fir about $7\frac{1}{2}$ per cent greater in 1913 than in 1912. The cut of Douglas fir in 1913 was the largest ever reported, while the 1913 cut of yellow pine was second only to that of 1909. Had not enforced curtailment in the output of these two woods been necessary, the total lumber production of 1913 would undoubtedly have exceeded that of 1912. In fact, had not the cut of white pine, hemlock, spruce, oak, and maple declined in 1913, the increased cut of yellow pine, Douglas fir, cypress, and red gum in that year would have carried the total lumber production beyond that for 1912.

The increased cut of certain woods is reflected in the increased production of Washington, Oregon, and the lower Mississippi Valley States, while the decreased cut of other woods is reflected in the decreased production of the Northern, Central, and Atlantic States. The reported production of 4,592,055,000 feet in Washington in 1913 was the largest ever recorded for that State or any other State. The largest production previously reported by one State was that of 4,311,240,000 feet in 1890, by Michigan.

Of the total reported production of lumber, softwoods contributed 30,302,549,000 feet board measure in 1913, as against 30,526,416,000 feet in 1912, and 28,902,388,000 feet in 1911.

Table 2 shows the total production of lumber in 1913 by production classes of sawmills. It will be noted that mills having an annual production of less than 50,000 feet are not considered in this report. If reports from such mills had been included the total production would probably not have been increased by more than one-half of 1 per cent, since in 1909 when the production of such mills was included it was found that although there were 4,543 such mills they cut but three-tenths of 1 per cent of the total lumber produced. Table 2 shows the importance of the large sawmill in furnishing the country's supply of lumber, and it also shows how practically correct figures on lumber production can be secured by getting reports from mills of the largest two or three classes only.

FIG. 1.—Production of the different kinds of lumber, by States, for the calendar year 1913.

[The squares printed on the map represent the total production of lumber in the several States; the two parts of the squares separated by the vertical dividing lines represent the production of softwood (S) and hardwood (H), respectively.]

FIG. 1a.—Production of the different kinds of lumber, by States, for the calendar year 1913.

[The squares printed on the map represent the total production of lumber in the several States; the two parts of the squares separated by the vertical dividing lines represent the production of softwood (S) and hardwood (H), respectively.]

TABLE 2.—Total production of lumber in 1913 by production classes of sawmills.

Production group classes.	Number of mills reporting.	Per cent of total number of mills reporting.	Reported cut.	Per cent of total reported cut.
United States.....	21, 668	100. 0	Thousand board feet. 38, 387, 009	100. 0
Class 5—10,000 M board feet and over.....	974	4. 5	23, 211, 667	60. 5
Class 4—5,000 M to 10,000 M board feet.....	740	3. 4	4, 303, 122	11. 2
Class 3—1,000 M to 5,000 M board feet.....	3, 265	15. 1	6, 319, 753	16. 5
Class 2—500 M to 1,000 M board feet.....	3, 148	14. 5	2, 049, 642	5. 3
Class 1—50 M to 500 M board feet.....	13, 541	62. 5	2, 502, 825	6. 5

Table 3 shows the production by capacity classes, as does Table 2, but here the amounts are listed by kinds of woods. This table shows that the quantity of each kind of lumber sawed by the different capacity classes of sawmills indicates that about 60 per cent of the total lumber production in 1913 was sawed by mills cutting 10,000,000 feet and over annually. Some of these mills cut but one kind of wood, such as yellow pine or Douglas fir, but others cut several kinds, as in the case of hemlock and hardwood mills in the Lake States. The table, therefore, should not be interpreted to indicate the existence of mills of any class sawing any wood exclusively. Mills sawing 10,000,000 feet and over annually sawed in 1909, the only other year for which such figures are available, 19,125,123,000 feet, or 43 per cent of the total quantity of lumber cut in that year, while mills of the other classes produced somewhat larger proportions of the total lumber cut than in 1913.

TABLE 3.—Lumber sawed.

(M feet b. m.)

Kind of wood.	1913						Total 1912.	Total 1911.
	Mills sawing 10,000 M and over annually—Group 5.	Mills sawing 5,000 M to 10,000 M annually—Group 4.	Mills sawing 1,000 M to 5,000 M annually—Group 3.	Mills sawing 500 M to 1,000 M annually—Group 2.	Mills sawing 50 M to 500 M annually—Group 1.	Total.		
1. Yellow pine.....	9, 256, 536	1, 732, 716	2, 657, 104	676, 368	516, 639	14, 839, 363	14, 737, 052	12, 896, 706
2. Douglas fir.....	4, 771, 302	408, 387	286, 631	42, 959	46, 817	5, 556, 096	5, 175, 123	5, 054, 243
3. Oak.....	557, 414	486, 152	906, 194	494, 951	767, 007	3, 211, 718	3, 318, 952	3, 098, 444
4. White pine.....	1, 659, 990	147, 732	442, 551	140, 317	178, 046	2, 568, 636	3, 138, 227	3, 230, 584
5. Hemlock.....	1, 573, 094	245, 454	265, 776	80, 595	155, 063	2, 319, 982	2, 426, 554	2, 555, 308
6. Western pine.....	855, 385	127, 964	166, 701	43, 741	64, 737	1, 258, 528	1, 219, 444	1, 330, 700
7. Cypress.....	864, 700	108, 420	101, 494	14, 325	8, 308	1, 097, 247	997, 227	981, 527
8. Spruce.....	643, 752	132, 716	166, 243	54, 042	50, 063	1, 046, 816	1, 238, 600	1, 261, 728
9. Maple.....	429, 317	99, 198	184, 068	77, 033	111, 871	901, 487	1, 020, 864	951, 667
10. Red gum.....	277, 591	195, 056	205, 059	43, 480	51, 328	772, 514	694, 260	582, 967
11. Yellow poplar.....	185, 252	119, 647	169, 211	66, 862	79, 204	620, 176	623, 289	659, 475
12. Red wood.....	476, 527	26, 485	4, 250	1, 550	1, 459	510, 271	496, 796	489, 768
13. Chestnut.....	118, 791	76, 491	142, 563	79, 603	88, 354	505, 802	554, 230	529, 022
14. Larch.....	301, 796	46, 369	27, 594	6, 795	12, 719	395, 273	407, 064	368, 216
15. Birch.....	170, 376	49, 954	91, 736	29, 757	36, 916	378, 739	388, 272	432, 571
16. Beech.....	94, 641	29, 411	93, 866	56, 990	90, 593	365, 501	435, 250	403, 881
17. Cedar.....	277, 087	36, 341	30, 056	7, 546	7, 414	358, 444	329, 000	374, 925
18. Basswood.....	107, 515	35, 833	42, 777	23, 385	47, 592	257, 102	296, 717	304, 621
19. Elm.....	70, 369	22, 193	44, 222	21, 974	55, 774	214, 532	262, 141	236, 108
20. Cottonwood.....	88, 289	56, 459	38, 632	7, 522	18, 036	208, 938	227, 477	198, 629
21. Ash.....	52, 146	39, 695	63, 586	22, 010	30, 379	207, 816	234, 548	214, 398
22. Hickory.....	14, 726	12, 325	72, 047	27, 438	36, 444	162, 980	278, 757	240, 217

THE PRODUCTION OF LUMBER IN 1913.

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TABLE 3.—*Lumber sawed—Continued.*

Kind of wood.	1913						Total 1912.	Total 1911.
	Mills sawing 10,000 M and over an- nually— Group 5.	Mills sawing 5,000 M to 10,000 M an- nually— Group 4.	Mills sawing 1,000 M to 5,000 M an- nually— Group 3.	Mills sawing 500 M to 1,000 M an- nually— Group 2.	Mills sawing 50 M to 500 M an- nually— Group 1.	Total.		
23. Sugar pine.....	134,396	4,175	10,233	632	490	149,926	132,416	117,987
24. Tupelo.....	67,891	27,959	19,977	3,108	1,485	120,420	122,545	98,142
25. Balsam fir.....	34,241	7,438	24,889	13,233	13,951	93,752	84,261	83,375
26. White fir.....	75,346	4,683	5,020	1,255	1,805	88,109	122,613	124,307
27. Walnut.....	4,668	5,860	19,924	4,463	5,650	40,565	43,083	38,293
28. Mahogany.....	22,750	8,004	4,410	615	482	36,261	29,209	21,328
29. Sycamore.....	11,659	2,727	5,207	2,767	8,444	30,804	49,468	42,836
30. Lodgepole pine.....	5,205	802	12,925	1,020	6,161	20,106	22,039	33,014
31. Cherry.....	2,323	948	3,839	1,421	2,859	14,126	22,245	21,422
32. Buckeye.....	122	206	1,804	347	1,000	6,422	13,742	11,737
33. Locust.....	3,462	790	3,775	13	391	5,507	5,058	5,450
34. Willow.....	860	1,168	200	42	259	4,753	2,961	1,130
35. Cucumber.....	40	1,605	424	347	625	3,424	1,031	.....
36. Magnolia.....	510	399	1,297	220	106	3,268	122	2,418
37. Hackberry.....	640	239	277	260	669	2,115	157	.....
38. Butternut.....	10	.....	504	244	337	1,964	633	.....
39. Persimmon.....	.....	.....	1,125	175	594	1,904	1,577	.....
40. Dogwood.....	.....	.....	1,000	50	323	1,373	2,584	.....
41. Pecan.....	.....	75	367	162	486	1,090	.....	.....
42. Ebony.....	.....	1,000	.....	.....	.....	1,000	.....	.....
43. Spanish cedar.....	750	.....	.....	.....	.....	750	.....	.....
44. Alder.....	.....	.....	20	.....	505	525	.....	.....
45. Apple.....	.....	.....	.....	.....	269	269	178	.....
46. Silverbell.....	194	.....	.....	.....	.....	194	395	.....
47. Jenisero.....	.....	.....	100	.....	33	133	150	.....
48. Sassafras.....	4	45	50	15	12	126	16	.....
49. Eucalyptus.....	.....	.....	.....	.....	50	50	75	.....
50. Hornbeam.....	.....	.....	.....	.....	35	35	.....	.....
51. Bois d'Arc.....	.....	.....	25	.....	10	35	311	1,210
52. Madrona.....	.....	.....	.....	.....	25	25	.....	.....
53. Coffeetree.....	.....	.....	.....	5	.....	5	.....	.....
54. Mulberry.....	.....	1	.....	4	.....	5	1	.....
55. Crabapple.....	.....	.....	.....	.....	4	4	.....	.....
56. Ironwood.....	.....	.....	.....	1	.....	2	.....	.....
57. Chinquapin.....	.....	.....	.....	.....	1	1	.....	.....
Minor species, 1912 and 1911.....	.....	.....	.....	.....	.....	.....	1,700	4,853
Total.....	23,211,667	4,303,122	6,319,753	2,049,642	2,502,825	38,387,009	39,158,414	37,003,207

Table 4 shows the lumber production by States for the years 1913, 1912, and 1911, and also shows the number of active mills reporting in each year.

TABLE 4.—*Number of active lumber mills reporting and quantity of lumber sawed, by States, 1913, 1912, and 1911.*

State.	Number of active mills reporting.			Lumber sawed (M feet b. m.).			Number of mills reporting idle, 1913.
	1913	1912	1911	1913	1912	1911	
United States.....	21,668	29,648	28,107	38,387,009	39,158,414	37,003,207	4,674
Washington.....	469	788	777	4,592,053	4,099,775	4,064,754	51
Louisiana.....	408	460	502	4,161,560	3,876,211	3,566,456	75
Mississippi.....	679	952	908	2,610,581	2,381,898	2,041,615	162
Oregon.....	406	480	522	2,098,467	1,916,160	1,803,698	125
Texas.....	341	450	430	2,081,471	1,902,201	1,681,080	79
North Carolina.....	1,531	2,418	2,071	1,957,258	2,193,308	1,798,724	395
Arkansas.....	808	1,145	1,127	1,911,647	1,821,811	1,777,303	168
Alabama.....	816	1,249	1,112	1,523,936	1,378,151	1,226,212	214
Wisconsin.....	612	792	771	1,493,353	1,498,876	1,761,986	137
Virginia.....	1,574	2,126	2,005	1,273,953	1,569,997	1,359,790	348
West Virginia.....	678	961	994	1,219,559	1,318,732	1,387,786	153
Michigan.....	532	792	796	1,222,983	1,488,827	1,466,754	96
California.....	141	229	222	1,183,380	1,203,059	1,207,561	84
Minnesota.....	354	484	467	1,149,704	1,436,726	1,485,015	87
Florida.....	203	397	295	1,055,047	1,067,525	983,824	64

TABLE 4.—*Number of active lumber mills reporting and quantity of lumber sawed, by States, 1913, 1912, and 1911—Continued.*

State.	Number of active mills reporting.			Lumber sawed (M feet b. m.).			Number of mills reporting idle, 1913.
	1913.	1912	1911	1913	1912	1911	
Tennessee.....	1,155	1,567	1,536	872,311	932,572	914,579	225
Georgia.....	688	1,117	952	844,284	941,291	801,611	209
Maine.....	686	826	817	834,673	882,128	828,417	76
Pennsylvania.....	1,159	1,724	1,636	781,547	992,180	1,048,606	371
South Carolina.....	497	750	541	752,184	816,930	584,872	120
Idaho.....	161	202	209	652,616	713,575	765,670	57
Kentucky.....	1,061	1,386	1,452	541,531	641,296	632,415	249
New York.....	1,917	1,487	1,520	457,720	502,351	526,283	.....
Missouri.....	844	1,210	1,112	416,608	422,470	418,586	204
Ohio.....	826	1,156	1,009	414,943	499,834	427,161	151
Montana.....	109	118	126	357,974	272,174	228,416	33
Indiana.....	695	978	915	332,993	401,017	360,613	145
New Hampshire.....	305	441	397	309,424	479,499	388,619	64
Massachusetts.....	312	420	430	224,580	259,329	273,317	85
Vermont.....	363	507	498	194,647	235,983	239,254	63
Maryland.....	258	404	389	140,469	171,320	144,078	10
Oklahoma.....	113	200	174	140,284	168,806	143,869	28
Illinois.....	275	463	394	102,902	122,528	96,651	96
Connecticut.....	177	215	218	93,730	109,251	124,661	42
Arizona.....	14	12	12	77,363	76,287	73,139	0
Colorado.....	89	135	156	74,602	88,451	95,908	75
New Mexico.....	28	41	47	65,818	82,650	83,728	12
New Jersey.....	94	146	136	27,248	34,810	28,639	23
Iowa.....	111	157	160	21,676	46,593	59,974	28
South Dakota.....	15	28	28	19,103	20,986	13,046	11
Delaware.....	44	86	82	18,039	28,285	23,853	15
Rhode Island.....	15	22	20	14,984	14,421	9,016	4
Wyoming.....	57	56	75	12,940	13,560	33,309	17
Utah.....	39	59	62	5,403	9,055	10,573	20
All other States ¹	9	12	5	19,461	22,525	11,786	3

¹ Includes Kansas, Nebraska, and Nevada.

Table 5 shows the lumber production by kinds of wood for the years 1913, 1912, and 1911, and also the per cent of increase and the per cent of distribution for each year.

TABLE 5.—*Quantity of lumber sawed, with per cent of increase and per cent of distribution, by kinds of wood, 1913, 1912, and 1911.*

Kind of wood.	Quantity (M feet b. m.).			Percent of increase. ¹		Per cent of distribution.		
	1913	1912	1911	1912 to 1913	1911 to 1912	1913	1912	1911
Total.....	38,387,009	39,158,414	37,003,207	- 2.0	5.8	100.0	100.0	100.0
Yellow pine.....	14,839,363	14,737,052	12,896,706	.7	14.3	38.7	37.6	34.9
Douglas fir.....	5,556,096	5,175,123	5,054,243	7.4	2.4	14.5	13.2	13.7
Oak.....	3,211,718	3,313,952	3,098,444	- 3.2	7.1	8.4	8.5	8.4
White pine.....	2,568,636	3,138,227	3,230,584	-18.2	- 2.9	6.7	8.0	8.7
Hemlock.....	2,319,982	2,426,554	2,555,308	- 4.4	- 5.0	6.0	6.2	6.9
Western pine.....	1,258,528	1,219,444	1,330,700	3.2	- 8.4	3.3	3.1	3.6
Cypress.....	1,097,247	997,227	981,527	10.0	1.6	2.9	2.5	2.7
Spruce.....	1,046,816	1,238,600	1,261,728	-15.5	- 1.8	2.7	3.2	3.4
Maple.....	901,487	1,020,864	951,667	-11.7	7.3	2.4	2.6	2.6
Red gum.....	772,514	694,260	582,967	11.3	19.1	2.0	1.8	1.6
Yellow poplar.....	620,176	623,289	659,475	- 5	- 5.5	1.6	1.6	1.8
Redwood.....	510,271	496,796	489,768	2.7	1.4	1.3	1.3	1.3
Chestnut.....	505,802	554,230	529,022	- 8.7	4.8	1.3	1.4	1.4
Larch.....	395,273	407,064	368,216	- 2.9	10.6	1.0	1.0	1.0
Birch.....	378,739	388,272	432,571	- 2.5	-10.2	1.0	1.0	1.2
Beech.....	365,501	435,250	403,881	-16.0	7.8	1.0	1.1	1.1
Cedar.....	358,444	329,000	374,925	8.9	-12.2	.9	.8	1.0
Basswood.....	257,102	296,717	304,621	-13.4	- 2.6	.7	.8	.8
Elm.....	214,532	262,141	236,108	-18.2	11.0	.6	.7	.6
Cottonwood.....	208,938	227,477	198,629	- 8.1	14.5	.5	.6	.5
Ash.....	207,816	234,548	214,398	-11.4	9.4	.5	.6	.6
Hickory.....	162,980	278,757	240,217	-41.5	16.0	.4	.7	.6

¹ A minus sign (-) denotes decrease.

TABLE 5.—Quantity of lumber sawed, with per cent of increase and per cent of distribution, by kinds of wood, 1913, 1912, and 1911—Continued.

Kind of wood.	Quantity (M feet b. m.).			Per cent of increase.		Per cent of distribution.		
	1913	1912	1911	1912 to 1913	1911 to 1912	1913	1912	1911
Sugar pine.....	149,926	132,416	117,987	13.2	12.2	0.4	0.3	0.3
Tupelo.....	120,420	122,545	98,142	— 1.7	24.9	.3	.3	.3
Balsam fir.....	93,752	84,261	83,375	11.3	1.1	.2	.2	.2
White fir.....	88,109	122,613	124,307	—28.1	— 1.4	.2	.3	.3
Walnut.....	40,565	43,083	38,293	— 5.8	12.5	.1	.1	.1
Sycamore.....	30,804	49,468	42,836	—37.7	15.5	.1	.1	.1
Lodgepole pine.....	20,106	22,039	33,014	— 8.8	—33.2	.1	.1	.1
Minor species ¹	85,366	82,145	69,548	3.9	18.1	.2	.2	.2

¹ See Table 34 for kinds of wood included and quantities of the more important kinds.

YELLOW PINE.

Yellow-pine lumber is cut from a number of species growing east of the Rocky Mountains. Three of them furnish most of the material, although the minor species are cut to a limited extent. There is a growing tendency to purchase southern yellow pine under specifications which designate the quality of the wood desired for the purpose, irrespective of species, to avoid the present confusion at lumber inspection points. The several species with their ranges follow:

Longleaf pine (*Pinus palustris*) occurs on the coastal plains from extreme southeast Virginia to Texas, and in the whole Florida peninsula except the extreme southern part.

Shortleaf pine (*Pinus echinata*) has its range north of that of longleaf, as far as New York, but likewise extending from the Atlantic coast to Texas and Oklahoma, and running northward to southern Missouri, West Virginia, and New Jersey.

Loblolly pine (*Pinus taeda*) grows in approximately the same region as longleaf, as far north as New Jersey, but not in as large solid bodies and it is found farther north and west than longleaf pine. This and the two preceding species furnish the bulk of yellow-pine lumber.

Slash pine (*Pinus heterophylla*), sometimes called Cuban pine, ranges throughout Florida, northward to South Carolina, and westward to Mississippi.

Spruce pine (*Pinus glabra*) ranges through southern South Carolina, the southern portions of Georgia, Alabama, and Mississippi, southeastern Louisiana and northwestern Florida.

Pond pine (*Pinus serotina*) is found along the coast and a hundred miles or so inland from southern Virginia to western Florida, but not in the southern half of the Florida peninsula.

Sand pine (*Pinus clausa*) is confined almost wholly to Florida and southern Alabama.

Scrub pine (*Pinus virginiana*) occurs from northern New Jersey to southern Indiana and southward to central Georgia.

Pitch pine (*Pinus rigida*) occurs from Georgia to New Brunswick and westward to Tennessee and Ohio.

Table Mountain pine (*Pinus pungens*) grows among the Appalachian ranges from northeastern Pennsylvania to northern Georgia.

Longleaf pine is milled mostly in the Gulf States, including Georgia and Florida. The yellow pine produced by mills in Arkansas and the lumber known commercially as North Carolina pine and coming from Virginia, North Carolina, and South Carolina include both loblolly pine and shortleaf pine. Slash pine (*Pinus heterophylla*), a wood of many excellent qualities, is cut to some extent in Florida and other southeastern States and is usually sold along with longleaf pine.

There are a number of yellow pines in the West which are not in the same commercial group as those of the East and South. One of them, called western yellow pine (*Pinus ponderosa*) is specially reported in Table 11; the others are at present of little importance in the lumber output.

Table 6 shows the production of yellow pine by States in the year 1913 and also the number of active mills in each State.

TABLE 6.—Yellow-pine lumber sawed.

State.	Number of active mills reporting.	Quantity (M feet b. m.).	Per cent of distribution.
United States.....	7,639	14,839,363	100.0
Louisiana.....	299	3,092,375	20.8
Mississippi.....	540	2,224,711	15.0
Texas.....	317	2,024,231	13.7
North Carolina.....	1,522	1,515,102	10.2
Alabama.....	744	1,395,059	9.4
Arkansas.....	467	1,174,498	7.9
Florida.....	193	923,873	6.2
Virginia.....	1,023	810,362	5.5
Georgia.....	671	662,043	4.5
South Carolina.....	492	635,426	4.3
Oklahoma.....	55	120,860	.8
Maryland.....	165	65,143	.4
Tennessee.....	343	60,137	.4
Missouri.....	130	57,023	.4
All other States ¹	678	78,520	.5

¹ Includes establishments distributed as follows: Connecticut, 24; Delaware, 35; Illinois, 3; Indiana, 2; Iowa, 2; Kentucky, 195; Maine, 25; Massachusetts, 30; New Hampshire, 3; New Jersey, 46; Ohio, 25; Pennsylvania, 193; Rhode Island, 6; Vermont, 3; and West Virginia, 86.

DOUGLAS FIR.

Douglas fir (*Pseudotsuga taxifolia*) yields more lumber annually than any other single species of the United States. The best stands of timber are found in the northwestern coast States but Douglas fir is also cut to some extent in the Rocky Mountain region.

TABLE 7.—Douglas fir lumber sawed.

State.	Number of active mills reporting.	Quantity (M feet b. m.).	Per cent of distribution.
United States.....	980	5,556,096	100.0
Washington.....	393	3,615,430	65.1
Oregon.....	319	1,675,391	30.2
California.....	69	132,176	2.4
Idaho.....	108	67,112	1.2
Montana.....	68	63,494	1.1
All other States ¹	23	2,493	0.0

¹ Includes establishments distributed as follows: Arizona, 2; Colorado, 7; New Mexico, 2; Utah, 4; and Wyoming, 8.

OAK.

While the sawmill statistics group all oak timber as if it were cut from a single species, there are, in fact, 50 or more kinds of oak in the United States, divided nearly equally between white and red oaks, the two classes generally recognized commercially. The bulk of oak lumber is cut from less than a dozen species. The wood of the red oaks is usually tinged with red, hence the name. The largest part of the country's oak lumber is furnished by the following trees:

White oak (*Quercus alba*) is the common tree of the name in the eastern half of the United States. It is as widely dispersed as any other.

Post oak (*Quercus minor*) has practically the same range as common white oak but is less abundant.

Bur oak (*Quercus macrocarpa*) occurs from the northern Atlantic coast to the eastern base of the Rocky Mountains in Montana, and southward to Tennessee and Texas.

Overcup or forked-leaf white oak (*Quercus lyrata*) is the most important of the southern white oaks. Its best development is in the lower Mississippi Valley.

Cow or basket oak (*Quercus michauxii*) is confined principally to the States south of the Ohio and Potomac Rivers.

Chestnut oak (*Quercus prinus*) ranges through the northeastern States, extending a hundred miles or more westward of the Appalachian Mountains and southward to Alabama.

The foregoing are white oaks, and are so classed in the forest and at the mill yard. The six species which follow are red oaks:

The common red oak (*Quercus rubra*) is a northern tree ranging from Nova Scotia to Nebraska and along the mountains to northern Georgia.

Texas red oak or spotted oak (*Quercus texana*) furnishes the main supply of red oak lumber in the lower Mississippi Valley.

Pin oak (*Quercus palustris*) ranges from Massachusetts southwesterly to Oklahoma.

Scarlet oak (*Quercus coccinea*) is a northern and northeastern tree, its habitat being bounded westward and southward by Illinois, Tennessee, and North Carolina.

Yellow or black oak (*Quercus velutina*) is found in most States east of the Rocky Mountains, but is more abundant in the North than in the South.

Willow or peach oak (*Quercus phellos*) is of commercial importance in the Southern States only, but it grows naturally as far north as New York.

TABLE 8.—Oak lumber sawed.

State.	Number of active mills reporting.	Quantity (M feet b. m.).	Per cent of distribution.
United States.....	12,927	3,211,718	100.0
West Virginia.....	651	408,047	12.7
Tennessee.....	1,073	386,132	12.0
Arkansas.....	462	299,809	9.3
Kentucky.....	1,031	289,406	9.0
Virginia.....	1,158	255,109	7.9
Ohio.....	772	207,503	6.5
Missouri.....	784	197,787	6.2
North Carolina.....	1,007	172,972	5.4
Pennsylvania.....	919	166,936	5.2
Indiana.....	665	151,047	4.7
Mississippi.....	258	120,365	3.8
Louisiana.....	94	118,199	3.7
Alabama.....	383	67,655	2.1
Illinois.....	269	54,845	1.7
Georgia.....	328	45,294	1.4
Maryland.....	196	36,364	1.1
Texas.....	90	29,335	.9
Wisconsin.....	334	25,133	.8
New York.....	871	24,788	.8
South Carolina.....	158	20,816	.7
Connecticut.....	160	20,320	.6
Maine.....	153	16,161	.5
All other States ¹	1,111	97,695	3.0

¹ Includes establishments distributed as follows: California, 5; Delaware, 30; Florida, 7; Iowa, 92; Kansas, 5; Massachusetts, 176; Michigan, 201; Minnesota, 192; Nebraska, 1; New Hampshire, 156; New Jersey, 78; Oklahoma, 79; Oregon, 10; Rhode Island, 14; Vermont, 64; and Washington, 1.

WHITE PINE.

Lumbermen group several pines as white pine in the yards, and one or more of them are reported from 28 States. Two are not the white pines of the botanists, but the lumber frequently passes as such.

White pine (*Pinus strobus*) is the most used and the best known of the white pines. It is the familiar pine of this name of the Lake States, New York, New England, the eastern Canadian Provinces, and of the Appalachian region from Pennsylvania to Georgia. Users often call it soft pine.

Norway pine (*Pinus resinosa*), sometimes called red pine, is lumbered principally in the Lake States, but also farther east. Its range is nearly coextensive with white pine, but it does not follow the mountains much south of New York. Botanically it is closely related to the yellow pines. Certain grades are frequently marked as white pine but the wood has a large market under its own name.

Jack pine (*Pinus divaricata*) is small and of no great importance as lumber, yet it helps to swell the statistics of white pine. It is found from New Brunswick to northern Indiana and Minnesota, and northward almost to the Arctic Circle. It has many local names, among them scrub pine, black pine, and in some parts of Canada has been known as cypress for 200 years.

Western white pine (*Pinus monticola*) is the principal western wood included in the output of white-pine lumber. It occurs from Montana and Idaho to British Columbia and California, but the largest output is at present credited to Idaho. It is occasionally called silver pine.

There are other western pines belonging in the white class, the best known of which is sugar pine, which is separately listed in Table 27, and is discussed on a later page of this report.

TABLE 9.—*White pine lumber sawed.*

State.	Number of active mills reporting.	Quantity (M feet b. m.).	Per cent of distribution.
United States.....	4,071	2,568,636	100.0
Minnesota.....	139	1,027,265	40.0
Wisconsin.....	382	308,841	12.0
Maine.....	442	239,303	9.3
Idaho.....	38	227,845	8.9
New Hampshire.....	264	181,885	7.1
Massachusetts.....	280	121,739	4.7
Michigan.....	230	101,281	3.9
Washington.....	19	83,974	3.3
New York.....	1,028	66,201	2.6
Pennsylvania.....	478	57,102	2.2
North Carolina.....	162	40,710	1.6
Montana.....	16	24,606	1.0
Tennessee.....	113	17,391	0.7
Vermont.....	108	16,707	0.6
All other States ¹	372	53,786	2.1

¹ Includes establishments distributed as follows: Colorado, 2; Connecticut, 70; Georgia, 21; Indiana, 2; Iowa, 3; Kentucky, 20; Maryland, 10; Ohio, 2; Oregon, 7; Rhode Island, 13; South Carolina, 1; Virginia, 165; West Virginia, 49; and Wyoming, 7.

HEMLOCK.

Practically all of the hemlock that reaches market in the United States comes from one eastern and one western species. The former is known simply as hemlock (*Tsuga canadensis*). It is a northern tree, plentiful from Maine to Minnesota, and following the mountain ranges southward to the Carolinas and Tennessee. The other species is known as western hemlock (*Tsuga heterophylla*) and is found from Montana to the Pacific coast and southward to California. A scarcer western species is the Mountain hemlock (*Tsuga mertensiana*), sometimes called black hemlock. It occurs among the northern Rocky Mountains and westward to the Pacific. The Carolina hemlock (*Tsuga caroliniana*) is likewise a mountain tree and grows in Virginia, North Carolina, South Carolina, and Tennessee. The eastern and the western mountain hemlocks are not extensively lumbered. A reference to the States in Table 10 will reveal the output from the other two.

TABLE 10.—*Hemlock lumber sawed.*

State.	Number of active mills reporting.	Quantity (M feet b. m.).	Per cent of distribution.
United States.....	4,035	2,319,982	100.0
Wisconsin.....	351	664,636	28.7
Michigan.....	323	440,430	19.0
Pennsylvania.....	440	328,530	14.2
Washington.....	105	209,184	9.0
West Virginia.....	114	205,604	8.9
New York.....	1,481	121,867	5.3
Maine.....	355	72,868	3.1
Oregon.....	32	68,218	2.9
Tennessee.....	73	42,260	1.8

TABLE 10.—*Hemlock lumber sawed*—Continued.

State.	Number of active mills reporting.	Quantity (M feet b. m.).	Per cent of distribution.
North Carolina.....	43	37,681	1.6
Vermont.....	248	30,827	1.3
New Hampshire.....	183	30,727	1.3
All other States ¹	287	67,150	2.9

¹ Includes establishments distributed as follows: California, 1; Connecticut, 50; Georgia, 2; Idaho, 3; Kentucky, 49; Maryland, 10; Massachusetts, 108; Minnesota, 5; Montana, 3; New Jersey, 3; Ohio, 12; and Virginia, 41.

WESTERN PINE.

Western pine is the western yellow pine (*Pinus ponderosa*) which covers a range of a million square miles from the Rocky Mountains westward to the coast, and northward into Canada and southward into Mexico. It is frequently called California white pine, New Mexico white pine, and western soft pine. It is sufficiently soft and light to make it a strong competitor of white pine for many purposes.

TABLE 11.—*Western pine lumber sawed*.

State.	Number of active mills reporting.	Quantity (M feet b. m.).	Per cent of distribution.
United States.....	728	1,258,528	100.0
California.....	98	317,053	25.2
Oregon.....	142	216,665	17.2
Washington.....	141	192,663	15.3
Idaho.....	113	177,703	14.1
Montana.....	68	120,414	9.6
Arizona.....	14	76,346	6.1
New Mexico.....	28	64,404	5.1
Colorado.....	54	48,745	3.9
All other States ¹	70	44,535	3.5

¹ Includes establishments distributed as follows: Nevada, 1; South Dakota, 15; Utah, 27; and Wyoming, 27.

CYPRESS.

Bald cypress (*Taxodium distichum*) is the source of the cypress lumber sawed in the United States. It is a southern tree, ranging from Delaware to Texas near the coast, and along the valleys of rivers many miles inland. It follows the Mississippi and the Ohio into Missouri, Illinois, and Indiana.

TABLE 12.—*Cypress lumber sawed*.

State.	Number of active mills reporting.	Quantity (M feet b. m.).	Per cent of distribution.
United States.....	607	1,097,247	100.0
Louisiana.....	94	744,581	67.9
Florida.....	41	100,723	9.2
Georgia.....	57	74,818	6.8
South Carolina.....	43	39,895	3.6
Arkansas.....	98	35,964	3.3
Missouri.....	49	28,814	2.6
Mississippi.....	54	25,782	2.3
North Carolina.....	62	19,213	1.8
Tennessee.....	44	14,502	1.3
All other States ¹	65	12,955	1.2

¹ Includes establishments distributed as follows: Alabama, 6; Illinois, 15; Indiana, 2; Kentucky, 17; Maryland, 2; Oklahoma, 2; Texas, 8; and Virginia, 13.

SPRUCE.

While there are a number of spruces largely cut for lumber, two furnish the greater portion. Red spruce (*Picea rubens*) is the principal source of spruce lumber in New England, New York, and West Virginia, while Sitka spruce (*Picea sitchensis*) is lumbered on the northern Pacific coast. In the Northeast black spruce (*Picea mariana*) undoubtedly is cut to a small extent for lumber, while white spruce (*Picea canadensis*) furnishes practically all of the lumber cut in the Lake States. In the Rocky Mountain region Engelmann spruce (*Picea engelmanni*) is the source of spruce lumber. Table 13 shows the production of spruce by States.

TABLE 13.—*Spruce lumber sawed.*

State.	Number of active mills reporting.	Quantity (M feet b. m.).	Per cent of distribution.
United States.....	1,547	1,046,816	100.0
Maine.....	398	371,448	35.5
Washington.....	63	214,843	20.5
West Virginia.....	26	134,993	12.9
Oregon.....	26	74,198	7.1
Vermont.....	250	52,030	5.0
New Hampshire.....	127	43,890	4.2
Massachusetts.....	33	39,198	3.7
New York.....	325	35,490	3.4
Minnesota.....	89	31,883	3.1
Colorado.....	41	13,976	1.3
All other States ¹	169	34,864	3.3

¹ Includes establishments distributed as follows: Arizona, 1; California, 11; Connecticut, 2; Idaho, 7; Kentucky, 1; Michigan, 57; Montana, 17; New Mexico, 7; North Carolina, 2; Pennsylvania, 7; Tennessee, 1; Utah, 7; Virginia, 4; Wisconsin, 33; and Wyoming, 12.

MAPLE.

Several species of maple are cut for lumber in this country, but mills usually report them as one, or, at most, distinguish the wood as hard and soft. Maple lumber in the United States is sawed chiefly from the following species:

Sugar or hard maple (*Acer saccharum*) is more abundant than any other. It grows in all States east of the Mississippi River, and in the first tier of States west of that stream from Minnesota to Texas.

Silver or soft maple (*Acer saccharinum*) has approximately the same range as sugar maple.

Red maple (*Acer rubrum*) is found in all States east of Montana, Wyoming, and Texas.

Eastern species of minor importance are mountain maple (*Acer spicatum*), striped maple (*Acer pennsylvanicum*), and box elder (*Acer negundo*), while the Oregon maple (*Acer macrophyllum*) is cut in the Pacific Coast States.

TABLE 14.—*Maple lumber sawed.*

State.	Number of active mills reporting.	Quantity (M feet b. m.).	Per cent of distribution.
United States.....	5,060	901,487	100.0
Michigan.....	402	402,585	44.7
Wisconsin.....	359	127,965	14.2
New York.....	1,172	71,554	8.0
West Virginia.....	188	69,369	7.7
Pennsylvania.....	577	58,857	6.5
Ohio.....	499	36,272	4.0
Indiana.....	391	29,126	3.2
Vermont.....	234	27,913	3.1
Missouri.....	142	11,999	1.3
All other States ¹	1,096	65,847	7.3

¹ Includes establishments distributed as follows: Alabama, 4; Arkansas, 36; Connecticut, 54; Delaware, 5; Georgia, 4; Illinois, 90; Iowa, 42; Kansas, 1; Kentucky, 147; Louisiana, 2; Maine, 159; Maryland, 24; Massachusetts, 86; Minnesota, 33; Mississippi, 14; New Hampshire, 117; New Jersey, 15; North Carolina, 77; Oklahoma, 2; Oregon, 5; Rhode Island, 6; South Carolina, 9; Tennessee, 86; Texas, 2; Virginia, 75; and Washington, 1.

RED GUM.

There is but one red gum (*Liquidambar styraciflua*) in the United States. What is commercially known as "sap gum" is the sapwood of this tree. Its range is in the south, principally in the States of the lower Mississippi Valley; but on the Atlantic coast it grows northward to Connecticut, and in the Mississippi Valley to Missouri and Illinois. Its southwestern limit is in Texas and its southeastern in Florida.

TABLE 15.—*Red gum lumber sawed.*

State.	Number of active mills reporting.	Quantity (M feet b. m.).	Per cent of distribution.
United States.....	2,266	772,514	100.0
Arkansas.....	261	250,055	32.4
Mississippi.....	165	135,135	17.5
Louisiana.....	67	61,404	7.9
Missouri.....	124	59,378	7.7
Tennessee.....	275	55,620	7.2
North Carolina.....	167	38,879	5.0
South Carolina.....	62	31,440	4.1
Kentucky.....	263	23,943	3.1
Virginia.....	158	21,315	2.8
Georgia.....	69	19,367	2.5
Alabama.....	83	19,013	2.5
Texas.....	45	13,377	1.7
Florida.....	13	12,477	1.6
Indiana.....	182	11,491	1.5
All other States ¹	332	19,620	2.5

¹ Includes establishments distributed as follows: Delaware, 16; Illinois, 91; Maryland, 60; New Jersey, 9; New York, 2; Ohio, 75; Oklahoma, 7; Pennsylvania, 24; and West Virginia, 48.

YELLOW POPLAR.

Yellow poplar (*Liriodendron tulipifera*) is sometimes known as white wood, poplar, or tulip poplar. Its range extends from southern New England to southern Michigan, and southward to Arkansas and Florida. The best growth is found among the mountains of Tennessee, Kentucky, Virginia, and West Virginia.

TABLE 16.—*Yellow poplar lumber sawed.*

State.	Number of active mills reporting.	Quantity (M feet b. m.).	Per cent of distribution.
United States.....	4,099	620,176	100.0
West Virginia.....	393	156,188	25.2
Tennessee.....	678	112,666	18.2
Kentucky.....	607	81,207	13.1
Virginia.....	503	55,537	9.0
North Carolina.....	462	51,724	8.3
Ohio.....	311	47,904	7.7
Georgia.....	162	30,005	4.8
Alabama.....	148	25,015	4.0
Indiana.....	263	13,441	2.2
South Carolina.....	76	12,494	2.0
Pennsylvania.....	206	11,537	1.9
Mississippi.....	78	11,281	1.8
All other States ¹	212	11,177	1.8

¹Includes establishments distributed as follows: Arkansas, 10; Florida, 7; Illinois, 24; Louisiana, 5; Massachusetts, 11; Michigan, 18; Missouri, 12; New Jersey, 25; Connecticut, 33; Delaware, 8; and Maryland, 59.

REDWOOD.

Two closely related trees supply the redwood lumber on the market in this country. Both are confined to California, one in the Sierra Nevada Mountains and the other near the coast. The bigtree (*Sequoia washingtoniana*) is the largest tree species in this country, and that which is commonly known as redwood (*Sequoia sempervirens*) is but little smaller. Most of the lumber is cut from the latter. The whole cut is produced in California, and no tabulated statement is necessary to show it. The total cut in 1913 was 510,271,000 feet.

CHESTNUT.

There is only one species of chestnut (*Castanea dentata*) native in the United States. Its northern range extends from southern Maine to southern Michigan, thence to southern Indiana, central Kentucky, Tennessee, and Alabama. It grows southward in the Atlantic States to Georgia.

TABLE 17.—*Chestnut lumber sawed.*

State.	Number of active mills reporting.	Quantity (M feet b. m.).	Per cent of distribution.
United States.....	3,276	505,802	100.0
West Virginia.....	347	136,283	27.0
Pennsylvania.....	623	70,696	14.0
Tennessee.....	342	58,201	11.5
Connecticut.....	169	47,236	9.3
Virginia.....	307	46,573	9.2
North Carolina.....	164	44,129	8.7
Kentucky.....	234	21,444	4.2
Massachusetts.....	140	21,226	4.2
New York.....	577	16,684	3.3
Ohio.....	145	12,069	2.4
Maryland.....	90	11,254	2.2
New Jersey.....	55	10,129	2.0
All other States ¹	83	9,878	2.0

¹Includes establishments distributed as follows: Alabama, 7; Delaware, 2; Georgia, 8; Indiana, 21; Maine, 1; Michigan, 1; New Hampshire, 27; Rhode Island, 15; and Vermont, 1.

LARCH.

Two species of larch are cut into lumber, but the eastern species is generally called tamarack (*Larix laricina*). The latter is found in the northern tier of States from Minnesota to Maine and in eastern Canada. The western larch (*Larix occidentalis*) is native to Montana, Idaho, Washington, and British Columbia. Both are needle-leaf trees, which annually shed their foliage.

TABLE 18.—*Larch lumber sawed.*

State.	Number of active mills reporting.	Quantity (M feet b. m.).	Per cent of distribution.
United States.....	557	395,273	100.0
Montana.....	49	137,703	34.8
Idaho.....	50	119,714	30.3
Washington.....	54	39,277	9.9
Minnesota.....	112	35,455	9.0
Wisconsin.....	132	26,008	6.6
Oregon.....	31	21,228	5.4
Michigan.....	112	15,721	4.0
All other States ¹	17	167	.0

¹ Includes establishments distributed as follows: Indiana, 1; New Hampshire, 2; New York, 8; Iowa, 2; Maine, 2; Ohio, 1; and Vermont, 1.

BIRCH.

While there are several species of birch in the United States, two furnish the bulk of the lumber produced and the species are seldom separated in the trade. Yellow birch (*Betula lutea*) is the principal source of lumber in New England, New York, and the Lake States, while sweet birch (*Betula lenta*) is the principal species cut in Pennsylvania and West Virginia. The ranges of these species overlap and therefore each is cut to a small extent in the region where the other is most important. In northern New England paper birch (*Betula papyrifera*) is an important source of material for spools, toothpicks, and novelties, but a great deal is not cut into lumber.

Sweet or cherry birch (*Betula lenta*) ranges from Newfoundland to western Ontario and southward into Indiana and Illinois, and among the mountains to Kentucky and Tennessee. It is sometimes known as wintergreen birch.

Yellow birch (*Betula lutea*) has the same eastern range as the foregoing, but extends farther west and northwest.

River birch (*Betula nigra*) ranges over the Southern States, and is found in New England and New York. It is poorer in color and figure than the other birches, but is sometimes cut for lumber.

Paper birch (*Betula papyrifera*) is confined to the northern tier of States east of Minnesota principally, and is very abundant in Michigan, Wisconsin, New York, New England, and Canada.

Mountain birch (*Betula occidentalis*) is sawed in lumber to a moderate extent on the Pacific coast.

White birch (*Betula populifolia*) is a minor timber tree in New England and farther northeast in Canada.

TABLE 19.—*Birch lumber sawed.*

State.	Number of active mills reporting.	Quantity (M feet b. m.).	Per cent of distribution.
United States.....	2,218	378,739	100.0
Wisconsin.....	292	164,612	43.5
Michigan.....	161	51,814	13.7
Maine.....	262	40,842	10.8
Vermont.....	234	31,608	8.3
New York.....	549	28,569	7.5
West Virginia.....	67	16,899	4.4
New Hampshire.....	128	14,732	3.9
Pennsylvania.....	232	13,152	3.5
Minnesota.....	71	4,532	1.2
Massachusetts.....	60	3,733	1.0
Maryland.....	6	2,553	.7
All other States ¹	156	5,693	1.5

¹ Includes establishments distributed as follows: Arkansas, 3; California, 1; Connecticut, 31; Illinois, 10; Indiana, 11; Iowa, 10; Kentucky, 8; Missouri, 24; New Jersey 3; North Carolina, 20; Ohio, 8; Rhode Island, 1; Tennessee, 9; and Virginia, 17.

BEECH.

There is only one kind of beech native to the United States (*Fagus atropunicea*). It is found in all States east of the Mississippi, and from Missouri southward it is found west of that river. Beech lumber is cut in nearly all the hardwood-producing States.

TABLE 20.—*Beech lumber sawed.*

State.	Number of active mills reporting.	Quantity (M feet b. m.).	Per cent of distribution.
United States.....	3,696	365,501	100.0
Michigan.....	269	86,637	23.7
Indiana.....	470	54,827	15.0
New York.....	821	40,313	11.0
Pennsylvania.....	402	38,700	10.6
West Virginia.....	182	37,937	10.4
Ohio.....	492	33,763	9.2
Kentucky.....	348	26,026	7.1
Vermont.....	160	14,825	4.1
Tennessee.....	161	10,268	2.8
New Hampshire.....	74	6,908	1.9
All other States ¹	317	15,297	4.2

¹ Includes establishments distributed as follows: Alabama, 10; Arkansas, 2; Connecticut, 16; Georgia, 2; Illinois, 25; Iowa, 3; Louisiana, 3; Maine, 71; Maryland, 16; Massachusetts, 35; Minnesota, 2; Mississippi, 7; Missouri, 4; New Jersey, 3; North Carolina, 34; Rhode Island, 1; Texas, 3; Virginia, 53; and Wisconsin, 27.

CEDAR.

A number of species contributing to the country's lumber supply are grouped under the common name cedar, though the relationship between some of them is not very close.

Incense cedar (*Libocedrus decurrens*) grows among the mountains of Oregon and California.

Port Orford cedar (*Chamæcyparis lawsoniana*) is confined to a restricted area of northwestern California and southwestern Oregon.

Yellow cedar (*Chamæcyparis nootkatensis*) is a Pacific coast species extending from Alaska southward through British Columbia into Washington.

Red cedar (*Juniperus virginiana*) ranges through nearly the whole region east of the Rocky Mountains in the United States.

There are no fewer than 10 closely related cedars, usually called junipers, most of them being native to the Rocky Mountain region and farther west.

Northern white cedar (*Thuja occidentalis*), often called arborvitæ, is most abundant in the Lake States, but it extends to New England and southward along the Appalachian Mountains to eastern Tennessee.

Western red cedar (*Thuja plicata*) is much more used for shingles than for lumber in the States of Washington, Oregon, Idaho, and Montana, where the chief supply grows. It is called giant cedar and western cedar in commerce.

Southern white cedar (*Chamæcyparis thyoides*) ranges in deep swamps from New Jersey to Florida, and is called swamp cedar in some parts of its range and juniper in others. All cedars are valuable for poles and posts, and some of them are more used for these purposes than for lumber.

The most important contributions to the lumber supply are the following: Western red cedar (*Thuja plicata*), northern white cedar (*Thuja occidentalis*), and southern white cedar (*Chamæcyparis thyoides*). Red cedar (*Juniperus virginiana*) is of considerable importance as a material for pencils. In the Pacific Coast States incense cedar (*Libocedrus decurrens*), Port Orford cedar (*Chamæcyparis lawsoniana*), and yellow cedar (*Chamæcyparis nootkatensis*) are lumbered to a small extent.

TABLE 21.—Cedar lumber sawed.

State.	Number of active mills reporting.	Quantity (M feet b. m.).	Per cent of distribution.
United States.....	508	358,444	100.0
Washington.....	122	233,443	65.1
Idaho.....	12	23,307	6.5
California.....	28	22,056	6.2
Oregon.....	51	21,902	6.1
Virginia.....	7	16,558	4.6
Tennessee.....	44	7,982	2.2
Maine.....	46	7,005	2.0
North Carolina.....	59	5,167	1.5
Wisconsin.....	20	4,403	1.2
Kentucky.....	11	2,202	.6
All other States ¹	108	14,419	4.0

¹ Includes establishments distributed as follows: Alabama, 4; Arkansas, 3; Connecticut, 5; Delaware, 2; Indiana, 1; Maryland, 5; Massachusetts, 12; Michigan, 18; Minnesota, 11; Missouri, 2; Montana, 2; New Hampshire, 1; New Jersey, 21; New York, 4; Pennsylvania, 1; Rhode Island, 1; South Carolina, 7; Texas, 1; Vermont, 5; and West Virginia, 2.

BASSWOOD.

Three kinds of basswood contribute to the lumber cut of the country, but no distinction between them is made at the mill or in the market. Common basswood (*Tilia americana*) is best developed in the Lake States, white basswood (*Tilia heterophylla*) among the mountain ranges in West Virginia and southward, and downy basswood (*Tilia pubescens*) is found, though scarce, from North Carolina

to Arkansas. All three of these overlap the boundaries here named, and in some regions all are found occupying the same area. At least one-half of the States furnish basswood logs for sawmills.

TABLE 22.—*Basswood lumber sawed.*

State.	Number of active mills reporting.	Quantity (M feet b. m.).	Per cent of distribution.
United States.....	3,336	257,102	100.0
Wisconsin.....	375	91,670	35.7
Michigan.....	277	39,265	15.3
West Virginia.....	165	31,623	12.3
New York.....	1,183	24,818	9.6
Ohio.....	205	8,784	3.4
Tennessee.....	99	8,702	3.4
Kentucky.....	130	8,404	3.3
Minnesota.....	124	8,084	3.1
Virginia.....	74	6,231	2.4
North Carolina.....	65	6,180	2.4
Indiana.....	121	5,615	2.2
Vermont.....	128	5,317	2.1
Pennsylvania.....	174	5,237	2.0
All other States ¹	216	7,171	2.8

¹ Includes establishments distributed as follows: Alabama, 7; Arkansas, 1; Connecticut, 14; Georgia, 3; Illinois, 12; Iowa, 46; Kansas, 1; Louisiana, 2; Maine, 56; Maryland, 10; Massachusetts, 17; Mississippi, 2; Missouri, 23; New Hampshire, 17; New Jersey, 2; and Texas, 3.

ELM.

Lumbermen recognize soft and rock elm, the latter name being frequently applied to tough wood cut from any elm species. Soft gray or white elm (*Ulmus americana*) is most widely dispersed and is more abundant than all the others combined. It is found in all States east of the Rocky Mountains and furnishes the large part of the elm lumber reported.

Cork or the true rock elm (*Ulmus racemosa*) is found growing across the northern States from New England to Nebraska and as far south as Missouri and Tennessee.

Slippery elm (*Ulmus pubescens*) covers the eastern half of the United States, but is nowhere plentiful. It is often called red elm.

Wing elm (*Ulmus alata*) and cedar elm (*Ulmus crassifolia*) are confined to the States of the lower Mississippi.

TABLE 23.—*Elm lumber sawed.*

State.	Number of active mills reporting.	Quantity (M feet b. m.).	Per cent of distribution.
United States.....	3,034	214,532	100.0
Wisconsin.....	315	52,307	24.4
Michigan.....	305	45,415	21.2
Indiana.....	307	20,624	9.6
Ohio.....	322	19,345	9.0
Missouri.....	243	13,648	6.4
Arkansas.....	69	11,815	5.5
New York.....	758	11,016	5.1
Tennessee.....	124	9,219	4.3
Mississippi.....	43	6,750	3.1
Minnesota.....	35	5,752	2.7
Kentucky.....	93	3,760	1.8
Illinois.....	126	3,656	1.7
Iowa.....	82	3,263	1.5
Louisiana.....	22	2,860	1.3
All other States ¹	190	5,102	2.4

¹ Includes establishments distributed as follows: Alabama, 6; Connecticut, 7; Georgia, 5; Kansas, 4; Maine, 13; Maryland, 2; Massachusetts, 8; Nebraska, 1; New Hampshire, 4; New Jersey, 4; North Carolina, 11; Oklahoma, 16; Pennsylvania, 48; South Carolina, 4; Texas, 9; Vermont, 34; Virginia, 5; and West Virginia, 9.

COTTONWOOD.

Cottonwood lumber is cut from a group of trees which are known under various names in the regions where they grow. Among them are the common cottonwood, balm of Gilead, and aspen or popple, which are the most important east of the Rocky Mountains, and black cottonwood on the Pacific coast.

Common cottonwood (*Populus deltoides*) furnishes the bulk of the lumber. It is found in the whole country east of the Rocky Mountains and is lumbered in all parts of its range.

Swamp cottonwood (*Populus heterophylla*) is best developed in the lower Mississippi Valley States, but it grows naturally in the Atlantic States and in the Ohio Valley.

Aspen or popple (*Populus tremuloides*) is often designated as poplar in the Lake States, where much of it grows. It is found growing in various localities from Maine to California and far northward in British America. Saw logs cut from aspen are usually small.

Large-toothed aspen (*Populus grandidentata*) is not usually distinguished from the other. It ranges from Nova Scotia to Minnesota and along the mountains to Tennessee and North Carolina.

Balm of Gilead (*Populus balsamifera*) is commonly known as balm in the factory and lumberyard. Its range includes Maine and Oregon and most of the States between, and also a large part of British America.

Western or black cottonwood (*Populus trichocarpa*) ranges near the Pacific coast from Alaska to southern California. It is the largest of the cottonwoods.

Small quantities of lumber are cut from two foreign cottonwoods which have been introduced in this country, the white poplar (*Populus alba*), also called silver and English poplar, and the black or lombardy poplar (*Populus nigra*).

TABLE 24.—Cottonwood lumber sawed.

State.	Number of active mills reporting.	Quantity (M feet b. m.).	Per cent of distribution.
United States.....	1,004	208,938	100.0
Arkansas.....	48.	61,345	29.4
Mississippi.....	39	58,395	27.9
Louisiana.....	29	23,126	11.1
Tennessee.....	21	12,314	5.9
Minnesota.....	96	8,186	3.9
Texas.....	11	7,425	3.5
Missouri.....	103	7,175	3.4
Iowa.....	79	4,575	2.2
Michigan.....	45	3,095	1.5
Oklahoma.....	20	2,634	1.3
Florida.....	3	2,396	1.1
Kentucky.....	13	2,066	1.0
All other States ¹	497	16,206	7.8

¹ Includes establishments distributed as follows: Alabama, 2; Colorado, 2; Connecticut, 4; Georgia, 2; Idaho, 4; Illinois, 37; Indiana, 38; Kansas, 4; Maine, 29; Maryland, 1; Massachusetts, 7; Montana, 5; Nebraska, 2; New Hampshire, 13; New York, 202; North Carolina, 3; Ohio, 36; Oregon, 3; Pennsylvania, 3; South Carolina, 4; Utah, 5; Vermont, 48; Washington, 3; and Wisconsin, 40.

ASH.

Of more than a dozen species of ash growing in the United States three kinds of ash are important sources of lumber. White ash (*Fraxinus americana*) is the most valuable and is cut mostly in the central hardwood States and Northeast and to some extent in the Lake States. A great deal of the ash lumber cut in the Lake States comes from the black ash (*Fraxinus nigra*), while the same species is cut to considerable extent in the Northeast. Green ash (*Fraxinus lanceolata*) is the principal source of ash lumber in the Southern States. In the Pacific Coast States Oregon ash (*Fraxinus oregona*) is sometimes cut, while red ash (*Fraxinus pennsylvanica*) is used to a limited extent in the East.

TABLE 25.—Ash lumber sawed.

State.	Number of active mills reporting.	Quantity (M feet b. m.).	Per cent of distribution.
United States	3,348	207,816	100.0
Arkansas	92	31,019	14.9
Tennessee	170	22,943	11.0
Louisiana	47	17,473	8.4
Indiana	233	15,517	7.5
Ohio	295	12,967	6.2
Wisconsin	184	12,858	6.2
Missouri	87	10,969	5.3
New York	927	9,928	4.8
Mississippi	65	9,914	4.8
West Virginia	82	9,761	4.7
Kentucky	161	9,066	4.3
Michigan	184	8,681	4.2
Pennsylvania	186	5,742	2.8
Maine	92	3,514	1.7
Texas	20	3,371	1.6
Georgia	23	3,088	1.5
All other States ¹	500	21,005	10.1

¹ Includes establishments distributed as follows: Alabama, 18; California, 1; Connecticut, 51; Delaware, 1; Florida, 8; Illinois, 41; Iowa, 14; Kansas, 1; Maryland, 6; Massachusetts, 32; Minnesota, 67; New Hampshire, 21; New Jersey, 6; North Carolina, 65; Oklahoma, 17; Oregon, 4; Rhode Island, 6; South Carolina, 13; Vermont, 90; and Virginia, 38.

HICKORY.

Ten or more kinds of hickory are cut in this country, and the trees grow naturally nowhere else in the world. The wood of all species is valuable, but most of that in use is cut from five or six species, which are shagbark (*Hicoria ovata*), shellbark (*Hicoria lacini-osa*), pignut (*Hicoria glabra*), bitternut (*Hicoria minima*), and mock-ernut (*Hicoria alba*). One or more of these hickories are found in every State in the eastern part of the United States, and the wood is also abundant in Missouri and Arkansas. The hickory growing in the Ohio Valley and along tributary streams supplies the bulk of that in use. The industries which use the largest quantities of hickory secure it in the form of blanks, squares, or billets, rather than in the form of lumber.

TABLE 26.—*Hickory lumber sawed.*

State.	Number of active mills reporting.	Quantity (M feet b. m.).	Per cent of distribution.
United States	2,579	162,980	100.0
Arkansas	138	26,750	16.4
Tennessee	225	26,678	16.4
Kentucky	217	17,583	10.8
Ohio	362	15,545	9.5
Indiana	301	12,919	7.9
Louisiana	22	10,639	6.5
Mississippi	48	10,625	6.5
West Virginia	148	9,262	5.7
Missouri	159	8,020	4.9
Illinois	120	5,124	3.2
Pennsylvania	192	4,578	2.8
All other States ¹	647	15,257	9.4

¹ Includes establishments distributed as follows: Alabama, 35; Connecticut, 52; Delaware, 3; Florida, 2; Georgia, 28; Iowa, 22; Kansas, 3; Maine, 1; Maryland, 20; Massachusetts, 5; Michigan, 26; Minnesota, 4; New Hampshire, 1; New Jersey, 16; New York, 253; North Carolina, 77; Oklahoma, 11; Rhode Island, 2; South Carolina, 6; Texas, 9; Virginia, 64; and Wisconsin, 5.

SUGAR PINE.

Sugar pine (*Pinus lambertiana*), the largest pine in the United States, grows in California and Oregon, chiefly in the former State. The wood closely resembles white pine, and the uses of the two are similar. Botanically it is a white or soft pine.

TABLE 27.—*Sugar pine lumber sawed.*

State.	Number of active mills reporting.	Quantity (M feet b. m.).	Per cent of distribution.
United States	45	149,926	100.0
California	40	147,023	98.1
Oregon	5	2,903	1.9

TUPELO.

Four species contribute to the output of tupelo lumber, but the bulk of the product is cut from cotton gum (*Nyssa aquatica*). It is a tree which flourishes best in deep swamps in the coast region of the Southern States or along the lowlands of large rivers from southern Virginia to Texas.

Water gum (*Nyssa biflora*), ranging from Maryland to Florida and west to Alabama, and sour tupelo or wild limetree (*Nyssa ogeche*), found in South Carolina, Georgia, and Florida, are cut for lumber to a small extent.

Black gum or pepperidge (*Nyssa sylvatica*) ranges throughout the South and northward to Maine and Michigan, and is cut in North Carolina, Virginia, and other States north of the Ohio and Potomac Rivers.

TABLE 28.—*Tupelo* lumber sawed.

State.	Number of active mills reporting.	Quantity (M feet b. m.).	Per cent of distribution.
United States.....	241	120,420	100.0
Louisiana.....	47	71,046	59.0
North Carolina.....	24	10,726	8.9
Alabama.....	9	8,835	7.3
Florida.....	9	7,603	6.3
South Carolina.....	16	5,461	4.5
Virginia.....	10	5,202	4.3
Illinois.....	7	3,063	2.6
All other States ¹	119	8,484	7.1

¹ Includes establishments distributed as follows: Arkansas, 14; Connecticut, 1; Georgia, 6; Indiana, 11; Kentucky, 17; Mississippi, 15; Missouri, 9; Ohio, 6; Pennsylvania, 1; Tennessee, 26; Texas, 2, and West Virginia, 11.

BALSAM FIR.

One species furnishes practically all of the balsam-fir lumber produced. This species is the common balsam (*Abies balsamea*), which is lumbered in the Northeast, in Pennsylvania, and in the Lake States. This species is also cut in the southern Appalachian Mountains with frazer fir (*Abies fraseri*).

TABLE 29.—*Balsam* fir lumber sawed.

State.	Number of active mills reporting.	Quantity (M feet b. m.).	Per cent of distribution.
United States.....	509	93,752	100.0
Maine.....	243	67,007	71.5
Minnesota.....	76	10,058	10.7
Vermont.....	73	5,896	6.3
Michigan.....	40	4,113	4.4
New Hampshire.....	28	3,148	3.4
Wisconsin.....	34	2,764	2.9
All other States ¹	15	766	.8

¹ Includes establishments distributed as follows: Illinois, 1; Massachusetts, 4; and New York, 10.

WHITE FIR.

White fir (*Abies concolor*) is a distinct botanical species growing in practically all of the Western States and is the principal source of commercial white-fir lumber. Other species reported by sawmills under the same name are grand fir (*Abies grandis*), lovely fir (*Abies amabilis*), noble fir (*Abies nobilis*), and red fir (*Abies magnifica*).

TABLE 30.—*White* fir lumber sawed.

State.	Number of active mills reporting.	Quantity (M feet b. m.).	Per cent of distribution.
United States.....	126	88,109	100.0
California.....	36	47,695	54.1
Idaho.....	25	28,231	32.0
Oregon.....	25	7,735	8.8
Montana.....	6	2,330	2.7
Washington.....	13	1,323	1.5
All other States ¹	21	795	0.9

¹ Includes establishments distributed as follows: Arizona, 1; Colorado, 6; New Mexico, 1; Utah, 8; and Wyoming, 5.

WALNUT.

Although three walnut trees, exclusive of butternut, are native of the United States, the whole of the walnut lumber is cut from the common black walnut (*Juglans nigra*), which abounds throughout the eastern half of the country, extending from the Atlantic to the edge of the treeless plains west of the Mississippi River. The small Mexican walnut (*Juglans rupestris*) grows in Texas, and another, which is also small, is the California walnut (*Juglans californica*).

TABLE 31.—Walnut lumber sawed.

State.	Number of active mills reporting.	Quantity (M feet b. m.).	Per cent of distribution.
United States.....	895	40,565	100.0
Indiana.....	191	10,194	25.1
Ohio.....	107	7,164	17.6
Missouri.....	114	7,047	17.4
Tennessee.....	94	3,926	9.7
Illinois.....	31	3,890	9.6
Kentucky.....	110	3,450	8.5
Arkansas.....	10	2,064	5.1
All other States ¹	238	2,830	7.0

¹ Includes establishments distributed as follows: Alabama, 3; Connecticut, 2; Georgia, 2; Iowa, 27; Kansas, 3; Maryland, 8; Massachusetts, 5; Michigan, 9; Minnesota, 2; Nebraska, 1; New Jersey, 1; New York, 5; North Carolina, 27; Oklahoma, 10; Pennsylvania, 30; Rhode Island, 2; South Carolina, 1; Texas, 4; Virginia, 40; West Virginia, 50; and Wisconsin, 6.

SYCAMORE.

A single species of sycamore (*Platanus occidentalis*) furnishes the lumber of this name in the United States. It ranges from southern New England to Nebraska and southward to the Gulf of Mexico. One small species of sycamore in Arizona and another in California are seldom sawed for lumber.

TABLE 32.—Sycamore lumber sawed.

State.	Number of active mills reporting.	Quantity (M feet b. m.).	Per cent of distribution.
United States.....	659	30,804	100.0
Arkansas.....	31	11,663	37.9
Missouri.....	140	3,840	12.5
Tennessee.....	37	3,586	11.6
Indiana.....	129	3,519	11.4
Kentucky.....	84	2,652	8.6
Ohio.....	70	2,018	6.6
Illinois.....	64	1,309	4.2
All other States ¹	104	2,217	7.2

¹ Includes establishments distributed as follows: Alabama, 2; Connecticut, 3; Georgia, 6; Iowa, 2; Kansas, 3; Louisiana, 3; Maryland, 5; Michigan, 7; Mississippi, 4; New Jersey, 1; New York, 3; North Carolina, 17; Oklahoma, 15; Pennsylvania, 7; South Carolina, 3; Texas, 1; Virginia, 14; and West Virginia, 8.

LODGEPOLE PINE.

Lodgepole pine (*Pinus contorta*) is a slow-growing tree dispersed over much of the regions between the Rocky Mountains and the Pacific coast. It is inclined to take possession of tracts laid bare by fire, where it grows in heavy stands.

TABLE 33.—Lodgepole pine lumber sawed.

State.	Number of active mills reporting.	Quantity (M feet b. m.).	Per cent of distribution.
United States.....	82	20,106	100.0
Colorado.....	19	10,410	51.8
Wyoming.....	27	6,998	34.8
Montana.....	16	1,199	6.0
Idaho.....	16	1,009	5.0
Utah.....	4	490	2.4

MINOR SPECIES.

Some of the species listed in Table 34 are native, others foreign. Logs of the latter are brought to this country and are converted into lumber at sawmills located in the States designated in the table.

Mahogany (*Swietenia mahagoni*) comes from tropical America. Other woods passing for mahogany come from Africa, South America, India, and the Philippines.

Cherry (*Prunus serotina*) grows in western New York, Pennsylvania, and southward among the mountains, and westward to the States beyond the Mississippi.

Buckeye (*Æsculus octandra*) is the common tree cut for lumber of this name. It is often known as yellow buckeye. Ohio buckeye (*Æsculus glabra*) is occasionally cut for lumber; but the buckeye lumber frequently goes to market as "poplar saps," or as the sapwood of yellow poplar.

Locust (*Robinia pseudacacia*) has been widely planted, but its natural range lies in the region from Pennsylvania to Georgia. Honey locust (*Gleditsia tricanthos*) and water locust (*Gleditsia aquatica*) are sometimes listed as locust lumber in mill yards. Both are most plentiful south of the Ohio River and west of the mountains.

Black willow (*Salix nigra*) is the principal one of several willows occasionally sawed into lumber. It is best developed in the lower Mississippi Valley.

Cucumber (*Magnolia acuminata*) occurs from New York to Illinois and south to Alabama and Arkansas.

Magnolia (*Magnolia fatida*) is the tree known in the South as evergreen or laurel-leaved magnolia. The magnolia lumber of commerce is usually cut from this species, though there are three or four kindred species in the South which are sawed in small amounts.

Hackberry (*Celtis occidentalis*) and sugarberry (*Celtis mississippiensis*) are listed without distinction as hackberry lumber. Both occur in the lower Mississippi Valley States and westward, and hackberry is scattered over most of the United States east of the Rocky Mountains, but in many regions is very scarce.

Butternut (*Juglans cinerea*) ranges from New Brunswick to Georgia and from Dakota to Arkansas.

Persimmon (*Diospyros virginiana*) is found chiefly in the Southern States, but it grows northward to Kansas and Connecticut.

Dogwood (*Cornus florida*) is too small for saw logs, but is cut into billets suitable for shuttle makers. The principal supply comes from Tennessee, Kentucky, the Carolinas, and Virginia, but its range covers the eastern half of the United States.

Pecan (*Hicoria pecan*) is a hickory with wood inferior to the commercial hickories. It is a southern species more valuable for nuts than lumber.

Ebony is foreign. Several trees belonging to the same family as persimmon produce the wood.

Two alders are sawed for lumber—red alder (*Alnus oregona*) and white alder (*Alnus rhombifolia*)—both native of the Pacific coast.

Applewood is cut from many varieties of apple of planted stock.

Bois d'Arc, or Osage orange (*Toxylon pomiferum*), has been widely planted, but its native home is in Texas and Oklahoma.

Chinquapin (*Castanea pumila*) ranges from Pennsylvania to Florida and westward to Texas. Sometimes lumber which is listed as chinquapin is chinquapin oak (*Quercus acuminata*), which occupies much the same range.

Coffeetree (*Gymnocladus dioicus*) is found scattered over much of the eastern half of the United States, but is most abundant in Kentucky and Tennessee.

Crabapple is a term applied to a number of species in the eastern half of the country, but the sweet crab (*Pyrus coronaria*) is the best known.

Eucalyptus (*Eucalyptus globulus*) is an Australian tree which is growing successfully from plantings in California. More than 50 other species of eucalyptus are growing in California, several of which are sometimes converted into timber locally.

Hornbeam (*Ostrya virginiana*) is found from Nova Scotia to Texas.

Ironwood is a term applied to so many woods, both domestic and foreign, that the word is meaningless in determining the species referred to. It is often applied to *lignum-vitæ*.

Jenisero, prima vera, and white mahogany (*Tabebuia donnell-smithii*) are different names for the same species, which grows in southern Mexico and Central America.

Mulberry (*Morus rubra*) ranges through most of the eastern half of the United States.

Madrona (*Arbutus menziesii*) is a tree of the Pacific Coast States.

Sassafras (*Sassafras sassafras*) is native from Massachusetts to Texas, but is best developed in Tennessee, Kentucky, and Arkansas.

Silverbell (*Mohrodendron carolinum*) is found in the mountains of West Virginia and southward and westward to Florida and Texas.

TABLE 34.—*Minor species of lumber.*

Kind.	Quantity sawed (M feet b. m.).	Principal States reporting.
Total.....	85,366	
Mahogany.....	36,261	California, Illinois, Indiana, Kentucky, Louisiana, Massachusetts, Missouri, Ohio, and Pennsylvania.
Cherry.....	14,126	Alabama, Arkansas, Connecticut, Illinois, Indiana, Iowa, Kentucky, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, New Jersey, New York, North Carolina, Ohio, Oklahoma, Pennsylvania, Tennessee, Vermont, Virginia, West Virginia, and Wisconsin.
Buckeye.....	6,422	Illinois, Indiana, Iowa, Kentucky, Missouri, North Carolina, Ohio, Tennessee, Virginia, and West Virginia.
Locust.....	5,507	Alabama, Arkansas, Illinois, Indiana, Kentucky, Maryland, Mississippi, Missouri, New York, North Carolina, Pennsylvania, South Carolina, Tennessee, Virginia, and West Virginia.
Willow.....	4,753	Arkansas, Indiana, Iowa, Kentucky, Louisiana, Minnesota, Mississippi, Missouri, New York, Ohio, Pennsylvania, Texas, and Wisconsin.
Cucumber.....	3,424	Kentucky, Maryland, New York, North Carolina, Ohio, Pennsylvania, Tennessee, Virginia, and West Virginia.
Magnolia.....	3,268	Georgia, Louisiana, Mississippi, and Texas.
Hackberry.....	2,115	Arkansas, Illinois, Indiana, Iowa, Kansas, Kentucky, Minnesota, Mississippi, Missouri, Oklahoma, and Tennessee.
Butternut.....	1,964	Connecticut, Indiana, Iowa, Kentucky, Massachusetts, Michigan, Minnesota, Missouri, New Jersey, New York, North Carolina, Ohio, Pennsylvania, Tennessee, Vermont, Virginia, West Virginia, and Wisconsin.
Persimmon.....	1,904	Arkansas, Indiana, Mississippi, Missouri, North Carolina, South Carolina, Tennessee, and Virginia.
Dogwood.....	1,373	Arkansas, North Carolina, South Carolina, and Virginia.
Pecan.....	1,090	Arkansas, Illinois, Indiana, Kentucky, Louisiana, Mississippi, Missouri, Oklahoma, and Texas.
Ebony.....	1,000	Illinois.
All other kinds ¹	2,159	Alabama, Arkansas, California, Connecticut, Indiana, Kentucky, Louisiana, Massachusetts, Michigan, Missouri, New Jersey, New York, North Carolina, Pennsylvania, Oklahoma, Oregon, Tennessee, and Washington.

¹ Includes alder, apple, bois d'arc, chinquapin, coffeetree, crabapple, eucalyptus, hornbeam, ironwood, jenisero, madrona, mulberry, sassafras, silverbell, and Spanish cedar.

DETAILED SUMMARY.

Table 35 brings together all the figures which have been presented regarding the production of lumber, and shows separately for hardwoods and softwoods the amounts of each kind of wood cut in each State, together with totals for each kind of wood and each State.

TABLE 35.—Number of active lumber mills reporting and quantity of lumber sawed (*M feet b. m.*), by States, 1913.

State.	Num- ber of active mills report- ing.	Aggre- gate.	Softwoods.													Lodge- pole pine.	
			Total	Yellow pine.	Douglas fir.	White pine.	Hem- lock.	West- ern pine.	Cypress.	Spruce.	Red- wood.	Larch (tama- rack).	Cedar.	Sugar pine.	Balsam fir.		White fir.
Alabama.....	816	1,523,936	1,398,005	1,395,059					1,941	112			1,005				
Arizona.....	14	77,368		680				76,346								225	
Arkansas.....	808	1,911,647	1,210,570	1,174,498				317,053	35,964	1,814	510,271		108				
California.....	141	1,183,380	1,178,768	132,176			680	48,745		13,976			22,056	147,023		47,695	
Colorado.....	89	74,602	74,356													33	
Connecticut.....	177	93,730	18,125	1,393				4,931		75			100				
Delaware.....	44	18,039	13,753														
Florida.....	203	1,055,047	1,024,596	923,873					100,723								
Georgia.....	688	844,284	740,039	662,043				55	74,818				23,307				
Idaho.....	161	652,616	651,736					6,505	3,965	310		119,714	23,307			28,231	1,009
Illinois.....	275	102,902	4,510	410					3,965						135		
Indiana.....	695	332,993	239	17					185			20	8				
Iowa.....	111	21,676	5,045	22								7					
Kansas.....	6	509															
Kentucky.....	1,061	541,531	36,644	20,572				11,456	1,218	45			2,202				
Louisiana.....	408	4,161,590	3,836,956	3,092,375					744,581			100	7,005		67,007		
Maine.....	686	834,673	759,754	2,023				72,868		371,448							
Maryland.....	258	140,469	75,140	65,143				9,048	510								
Massachusetts.....	312	224,580	176,555	2,491				12,377		39,198			480		270		
Michigan.....	532	1,222,983	572,218					121,739		9,791		15,721	882		4,113		
Minnesota.....	334	1,149,704	1,106,911					440,475		31,883		35,455	1,775		10,058		
Mississippi.....	679	2,610,581	2,250,493	2,224,711					25,782								
Missouri.....	844	416,698	93,778	57,023					28,814				7,941				
Montana.....	109	357,974	357,747					298		7,623		137,703	80			2,330	1,199
New Hampshire.....	305	309,424	261,973	2,310				30,727		43,890		3	10				
New Jersey.....	94	27,248	8,564	7,184				275					1,105				
New Mexico.....	28	65,818	65,818														19
New York.....	1,917	457,720	223,968					66,201	121,867	1,344							
North Carolina.....	1,531	1,957,258	1,617,973	1,515,102				40,710	37,681	35,493		24	22		361		
Ohio.....	1,826	414,943	2,933	1,150				120	1,660	100		3	5,167				
Oklahoma.....	113	140,284	120,927	120,800													
Oregon.....	406	2,098,467	2,090,592	1,675,391				2,352	68,218	74,198		21,228	21,902	2,903		7,735	
Pennsylvania.....	1,159	781,547	15,271					57,102		159							
Rhode Island.....	15	14,984	14,984					4,430					25				
South Carolina.....	497	752,184	675,550	635,426									219				
South Dakota.....	15	19,103	19,103						39,895								
Tennessee.....	1,155	872,311	144,572	60,137													
Texas.....	341	2,081,471	2,025,984	2,024,231				17,391	42,260	2,300			7,982				
Utah.....	39	5,403	5,337														
Vermont.....	303	194,647	106,335	476				16,707	30,827	52,030		10	389		5,896	490	

State.	Total.	Oak.	Maple.	Red gum.	Yellow poplar.	Chestnut.	Brch.	Beech.	Bass. wood.	Elm.	Cotton-wood.	Ash.	Hickory.	Tupelo.	Walnut.	Sycamore.	Minor species.
Virginia.....	1,574	1,273	953	864	008	810	362	14,077	19,390	3,321	300	39,277	16,558	8,835	27	33	22
Washington.....	469	4,592	053	4,590	137	83,974	209,184	192,663	209,184	214,843	61,345	31,019	26,750	605	2,064	11,063	2,916
West Virginia.....	678	1,249	559	382	025	10,663	205,604	350	350	134,933	246	26,008	4,402	3	4	125	48
Wisconsin.....	612	1,493	353	1,015	591	308,841	694,636	3,236	3,236	8,939	236	26,008	4,402	3	4	125	48
Wyoming.....	57	12,940	12,940	582	644	644	582	18,577	18,577	1,375	246	26,008	4,402	3	4	125	48
All other States ¹	3	18,932	18,932	582	644	644	582	18,577	18,577	1,375	246	26,008	4,402	3	4	125	48
United States.....	21,663	38,357	38,009	30,302	549	14,839	363,556	5,006	2,568	636	2,319	982	1,258	528	1,097	247	1,046
Alabama.....	125,931	67,655	44	19,013	25,015	216	272	141	179	1,879	1,660	1,879	1,206	8,835	27	33	22
Arkansas.....	701,077	289,809	2,720	250,055	206	37	37	10	11,815	61,345	1,514	31,019	26,750	605	2,064	11,063	2,916
California.....	4,612	3,451															451
Colorado.....	236																
Connecticut.....	75,605	20,320	2,384	1,022	47,236	1,291	656	394	47	83	754	754	1,228	3	4	125	48
Delaware.....	4,275	2,855	146	879	153	80							112	7,603			
Florida.....	30,451	3,252	19,367	1,571	30,005	1,250	70	300	306	2,396	2,000	2,042	1,100	7,603			
Georgia.....	104,245	45,294	310	19,367	30,005	1,250	70	300	306	2,396	2,000	2,042	1,100	7,603			
Idaho.....	880												2,465	1,250	5	315	20
Illinois.....	98,392	54,845	2,517	7,409	1,889	81	1,826	118	3,656	1,660	1,514	1,514	5,124	3,063	3,890	1,309	9,145
Indiana.....	332,754	151,047	29,126	11,491	13,441	758	161	54,827	5,615	20,624	514	15,517	12,919	705	10,194	3,519	2,296
Iowa.....	16,631	5,630	806				94	35	1,296	3,263	4,557	138	247		290	8	219
Kansas.....	509	142	1						8	91	94	7	53		81	27	5
Kentucky.....	504,887	289,406	5,730	22,943	81,207	21,444	111	26,026	8,404	3,760	2,096	9,066	17,583	312	3,450	2,652	9,727
Louisiana.....	324,604	118,199	121	61,404	605	430	349	102	2,860	23,126	17,473	17,473	10,639	71,046	143	18,537	143
Maine.....	74,919	16,161	8,420	40,842	2,385	430	40,842	2,385	1,578	85	1,494	3,514	10	35	33	52	134
Maryland.....	65,329	36,364	2,923	2,553	2,256	1,978	35	5	5	5	5	92	727	35	70	31	67
Massachusetts.....	48,025	11,106	4,521	11,066	4,200	21,226	3,733	2,710	311	56	200	881	545	22	9	67	38
Michigan.....	630,765	11,447	402,585	194	194	10	51,814	86,637	39,265	45,415	3,095	8,681	1,480	22	9	25	4,905
Minnesota.....	42,793	14,163		135,135	11,281		4,532	30	8,084	5,752	8,395	9,914	10,625	1,849	7,047	3,840	1,115
Mississippi.....	360,088	120,365	588	135,135	11,281		228	228	28	6,750	7,175	10,969	8,020	1,110			
Missouri.....	322,830	197,787	11,999	59,378	223		280	35	204	13,648	227	903	100				
Montana.....	227																
New Hampshire.....	47,451	11,740	9,859	17,740	2,122	2,122	14,732	6,908	576	8	503	60	256		2	15	23
New Jersey.....	18,684	7,352	171	187	348	10,129	21	73	12	35		60	256				
New York.....	233,752	24,788	71,554	29	16,684	16,684	28,569	40,313	24,818	11,016	1,365	9,928	1,298				
North Carolina.....	339,285	172,972	5,394	38,879	51,724	44,129	997	825	6,180	760	335	2,649	2,266	10,726	305	141	3,373
Ohio.....	412,010	207,503	36,272	47,904	12,069	87	33,763	8,784	19,345	19,345	678	12,967	15,545	261	7,164	2,018	4,905
Oklahoma.....	19,357	11,868	25	2,232	3,367				363		2,634	706	611				
Oregon.....	7,875	6,499	685								50	142					
Pennsylvania.....	380,457	166,836	58,857	218	11,537	70,696	13,152	38,700	5,237	830	22	5,742	4,578	40	224	202	3,476
Rhode Island.....	9,744	4,080	315		4,982	4,982	10	10				152	115				

¹ Includes Nebraska and Nevada.

TABLE 35.—Number of active lumber mills reporting and quantity of lumber sawed (*M feet b. m.*), by States, 1913—Continued.

State.	Hardwoods.											
	Total.	Oak.	Maple.	Red gum.	Yellow poplar.	Chest-nut.	Birch.	Beech.	Bass-wood.	Elm.	Cotton-wood.	Ash.
South Carolina.....	76,634	20,816	813	31,440	12,494	.....	.....	.....	.....	422	1,509	2,862
Tennessee.....	727,739	386,132	9,606	55,630	112,666	58,201	1,176	10,268	8,703	9,219	12,314	22,943
Texas.....	55,437	29,335	14	13,377	.....	.....	.....	170	8,115	792	7,425	3,371
Utah.....	66	.....	.....	.....	.....	.....	.....	.....	.....	.....	66	.....
Vermont.....	88,312	3,964	27,913	.....	.....	30	31,608	14,825	5,317	433	1,082	2,990
Virginia.....	409,945	255,109	7,207	21,315	55,537	46,573	957	1,681	6,231	22	.....	1,489
Washington.....	1,916	6	30	.....	.....	.....	.....	.....	.....	.....	.....	1,877
West Virginia.....	887,534	408,047	69,369	3,881	156,188	136,283	16,899	37,937	31,623	438	1,850	9,761
Wisconsin.....	477,762	25,133	127,965	.....	.....	.....	164,612	1,683	91,670	52,307	1,114	12,558
All other States ¹	375	100	.....	.....	.....	.....	.....	.....	.....	100	150	35
United States.....	8,094,490	3,211,718	901,487	772,514	620,176	505,802	378,739	365,501	257,102	214,532	208,938	207,816
												162,980
												40,565
												30,804
												85,366

¹ Includes Nebraska and Nevada.

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