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H. S. GRAVES, Forester

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PRODUCTION OF LUMBER, LATH, AND SHINGLES
IN 1915 AND LUMBER IN 1914.By J. C. NELLIS, *Forest Examiner.*

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INTRODUCTION.

Detailed statistics on the 1915 production of lumber, lath, and shingles are given in this bulletin. Preliminary statements issued in the spring of 1916 summarized the data for the early information of the lumber trade. There is now presented a permanent and complete record of the 1915 lumber cut, with comparisons of the production in that year with previous years.

NOTE.—Acknowledgment for assistance in compiling the bulletin is due R. S. Kellogg, secretary National Lumber Manufacturers' Association; A. B. Strough, New York Conservation Commission; P. T. Coolidge, New Jersey Department of Conservation and Development; and the following members of the Forest Service: F. H. Smith, A. H. Pierson, C. M. Granger, C. W. Gould, C. A. Kupfer, H. N. Knowlton, and A. L. Brower.

This bulletin is one of a series issued annually, covering the years 1905 to 1915, inclusive, with the exception of 1914. Data for that year were compiled by the Bureau of the Census in cooperation with the Forest Service, and the totals announced early in 1916. A detailed summary of the 1914 lumber cut is given in the appendix. The 1913 lumber census was conducted by the Forest Service in cooperation with the Bureau of Crop Estimates, and the results published as United States Department of Agriculture Bulletin No. 232. The work for the other years mentioned above, except 1905, was done by the Bureau of the Census in cooperation with the Forest Service, and the results issued as a Forest Service bulletin for 1906 and as Census bulletins for 1907 to 1912, inclusive. The Forest Service secured the data and issued the report for 1905. Statistics on lumber cut were also secured by the Census for the quinquennial year 1904 and decennial years 1899, 1889, etc., back to 1850. The detailed results appear in the Census reports for those years.

The Bureau of the Census discontinued annual lumber-cut statistics after 1912 because of lack of funds, but the quinquennial census of manufactures covering 1914 included the lumber industry, with the exception of custom and very small mills.

In securing figures for lumber production in 1915 the National Lumber Manufacturers' Association agreed to cooperate financially, provided figures on the total cut would be issued before May 1, 1916. This condition was fulfilled. It was necessary to rely chiefly upon correspondence in securing reports from the mills, and in this work the national association and regional associations¹ also cooperated heartily. The New York Conservation Commission and the New Jersey Department of Conservation and Development furnished the statistics for those States. All other States east of the Rocky Mountains were handled by the Office of Industrial Investigations, Forest Service, Washington, D. C., while the Western States were taken care of by the Forest Service district products offices at Albuquerque, Denver, Missoula, Ogden, Portland, and San Francisco. The Pennsylvania Department of Forestry, which annually compiles data on stumpage cut, assisted in completing returns from Pennsylvania mills. The Office of Industrial Investigations was the clearing house for all statistics, issued the preliminary statements giving figures for the whole country, and prepared this bulletin.

¹ Georgia-Florida Sawmill Association.
Hardwood Manufacturers' Association.
Michigan Hardwood Manufacturers' Association.
Mississippi Pine Association.
North Carolina Pine Association.
Northern Hemlock & Hardwood Manufacturers' Association.

Northern Pine Association.
Southern Cypress Association.
Southern Pine Association.
West Coast Lumbermen's Association.
Western Pine Manufacturers' Association.
Yellow Pine Exchange (Alexandria, La.)

Table 1 shows the reported lumber cut for each year since 1899 for which data have been compiled, and the number of active mills reporting each year. In connection with the recent study of the lumber industry by the Forest Service, the total cut in most of the years listed has been estimated, and these figures also are given. The statistics for different years are not exactly comparable, because of the varying number of small mills which reported. For 1899 and 1909 the enumeration was complete, special agents of the Bureau of the Census canvassing the mills in connection with the decennial censuses. The figures for other years were secured mostly by correspondence. Further, reports from mills cutting less than 50,000 feet were omitted from the statistics for 1904, 1910, and later, and the censuses of 1904 and 1914 excluded custom mills, while for the other years previous to 1910, except 1904, all mills for which reports were secured are included in the statistics.

The lumber cut of 1915 was influenced by a large surplus carried over from 1914 and by the restricted markets brought about by the European war. Domestic lines of trade were kept at fair volume through the year, and this created a fair domestic demand for lumber. However, the lumber industry failed to share greatly in war orders, because of lack of shipping. A greatly increased amount of thick walnut lumber was cut for gunstocks. Dimension stock in ash for aeroplanes, and ash, hickory, and oak for vehicles and tools, probably figured largely in war orders, but such material does not show in this bulletin, because it would not be reported as lumber. The latter part of 1915 witnessed a remarkable revival of domestic lumber buying, largely for building purposes, but it occurred too late in the year to keep the probable total cut from being less than for any census year since 1899.

TABLE 1.—Number of active sawmills reporting, quantity of lumber reported, and estimated total cut: 1899–1915.

Year.	Number of active sawmills reporting.	Quantity of lumber.		Year.	Number of active sawmills reporting.	Quantity of lumber.	
		Reported, M ft. b. m.	Estimated total cut, M ft. b. m.			Reported, M ft. b. m.	Estimated total cut, M ft. b. m.
1899.....	31,833	35,084,166		1910 ³	2 31,934	40,018,282	44,500,000
1904 ¹	² 18,277	34,135,139	43,000,000	1911 ³	² 28,107	37,003,207	48,000,000
1905.....	11,666	30,502,961	43,500,000	1912.....	² 29,005	39,158,414	45,000,000
1906.....	22,398	37,550,736	46,000,000	1913.....	² 21,668	38,387,009	44,000,000
1907 ³	28,850	40,256,154	46,000,000	1914 ¹	² 27,506	37,346,023	40,500,000
1908 ³	31,231	33,224,369	42,000,000	1915.....	² 16,815	31,241,734	38,000,000
1909.....	⁴ 46,584	44,509,761	44,509,761				

¹ Custom mills excluded.

² Mills cutting under 50 M feet excluded.

³ Including mills which manufacture lath and shingles exclusively (1,500 estimated).

⁴ Includes 4,543 mills cutting less than 50 M feet, and all cooperage, veneer, millwork, box, furniture, and other factories cutting any lumber at all in 1909.

METHOD OF COMPILATION.

The collection of reports, mostly by mail, was continued until the last of April, 1916. At that time, with reports from 16,815 mills of an aggregate cut in 1915 of 31,241,734,000 board feet as a basis, the Forest Service computed the total cut of lumber in 1915 to be 37,011,656,000 board feet by 29,951 mills assumed to have been active. Although these figures were arrived at by a process of computation based on known facts, it is possible that the results are too conservative. In all, there may have been 33,000 or 34,000 mills active. If this was the case, practically all of the additional mills were of the smallest class, cutting on an average less than 200,000 board feet each. The total cut of these mills might have amounted to nearly a billion feet; and it is therefore possible that the grand total lumber cut in 1915 was 38,000,000,000 feet.

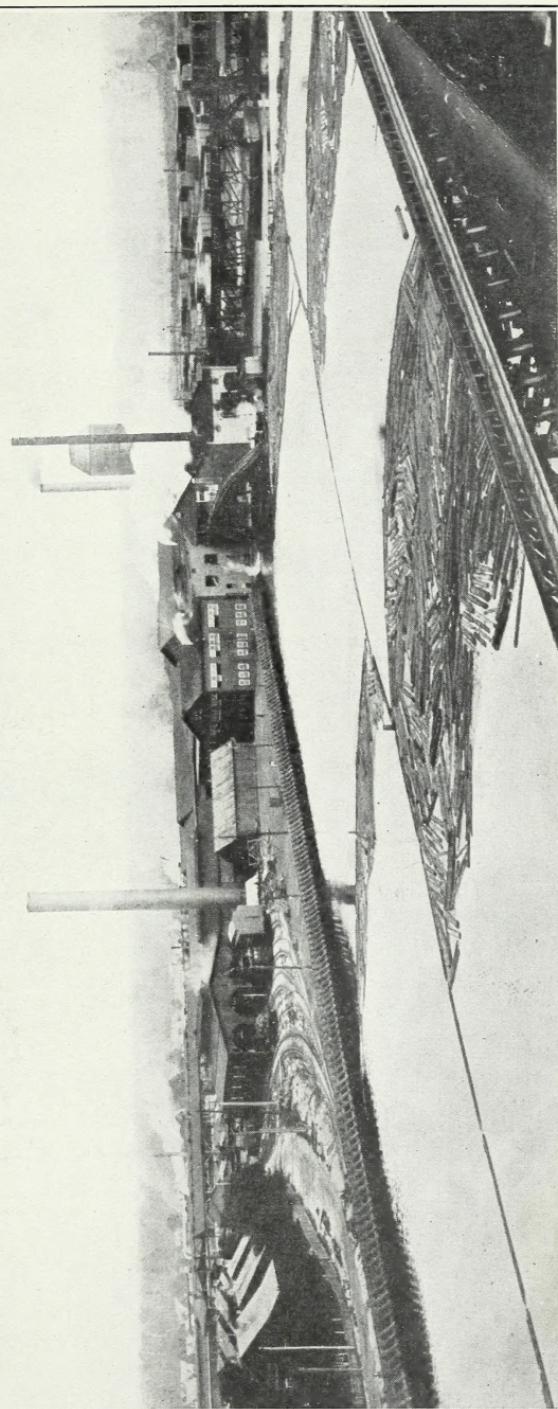
As reports from the big mills came in, the Forest Service issued a cumulative series of comparisons of the 1915 and 1914 production of identical mills cutting 5,000,000 board feet or over in either year, including mills idle one year but not mills cutting out. Since such mills cut 65 per cent of the total lumber production, data on their operations are significant in showing the trend of production. The final comparison resulted in the following figures representing per cents of increase or decrease in 1915 as compared with 1914 in respective States, in the cut of the largest mills:

State.	Number of mills.	Increase or decrease.	State.	Number of mills.	Increase or decrease.
		Per cent.			Per cent.
Arkansas.....	72	- 4	Pennsylvania.....	20	+ 8
Oklahoma.....	5	+21	New York.....	9	- 3
Texas.....	69	+ 2	New Hampshire and Massachusetts.....	7	+29
Louisiana.....	168	- 3	Maine.....	40	+ 1
Mississippi.....	102	- 7			
Alabama.....	49	- 1	Central and Northern States.....	390	-14
Georgia.....	37	- 1			
Florida.....	65	- 1	Washington.....	149	+ 5
South Carolina.....	37	+17	Oregon.....	64	-10
North Carolina.....	80	- 1	California.....	51	-10
Virginia.....	35	0	Idaho.....	25	- 5
Southern pine States.....	719	- 3	Montana.....	12	0
West Virginia.....	65	- 9	Colorado and South Dakota.....	3	- 4
Kentucky.....	19	-10	Arizona.....	4	- 3
Tennessee.....	29	-24	New Mexico.....	6	+ 3
Missouri.....	12	-28			
Minnesota.....	37	-21	Western States.....	313	- 2
Wisconsin.....	75	-13	All above States.....	1,422	- 5
Michigan.....	77	-20			

Results were compiled according to the classes of mills indicated on page 7. Eight hundred and twenty-one class 5 mills reported a total cut of 20,225,449,000 feet. About 100 of these cut somewhat less than 10,000,000 feet in 1914, and so were class 4 that year. How-

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A CLASS 5 MILL.



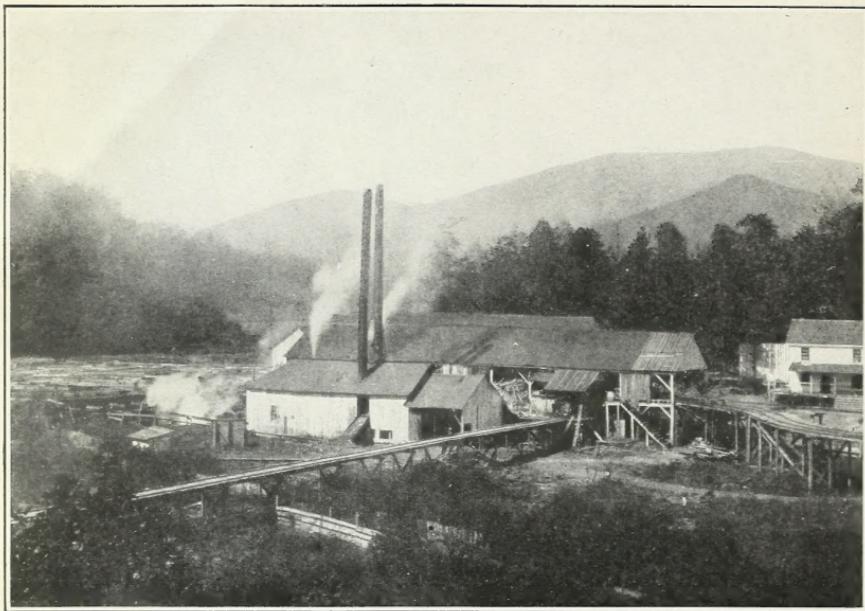


FIG. 1.—A CLASS 3 MILL.

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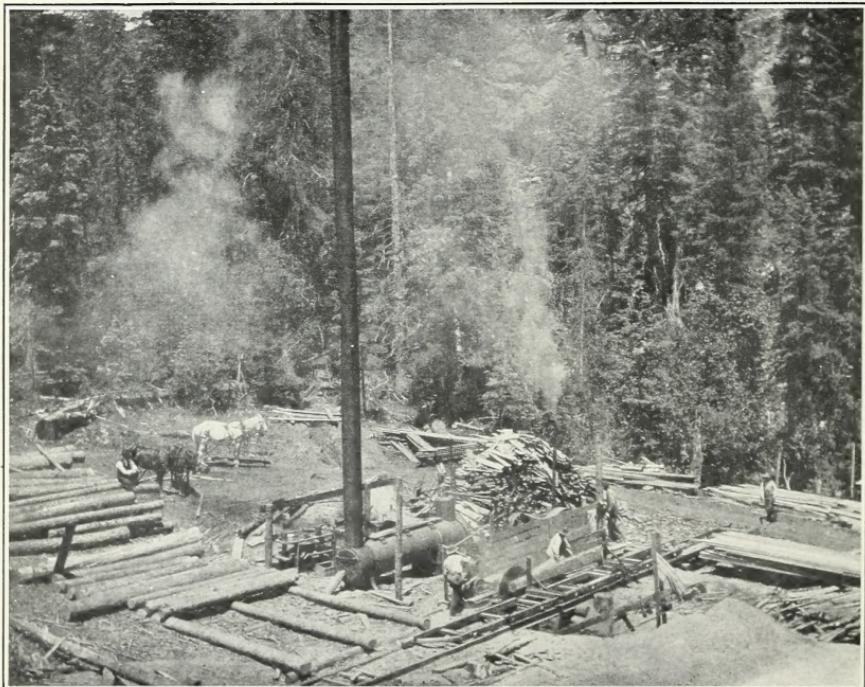


FIG. 2.—A CLASS 1 MILL.

F-83568

ever, of about 300 mills that were class 5 in previous years, 100 were idle in 1915, 150 cut less than 10,000,000 feet, and the rest were out of business. In addition to the class 5 mills reporting, it is estimated that 25 more such mills were active in 1915. On the basis in some cases of estimates and in others of the average cut of the mills reporting, the entire number of class 5 mills active in 1915—846—probably cut 20,669,746,000 feet.

Four hundred and twenty-two class 4 mills reported their 1915 cut as 3,000,522,000 feet. The number of such mills was much smaller than in previous years, owing mainly to the fact that a great many mills which were class 4 in 1914 dropped to lower classes or were idle in 1915. It is estimated that 453 class 4 mills operated in 1915. On the basis of the average production of those reporting, the 453 had a total cut of probably 3,224,448,000 feet.

Two thousand two hundred and nineteen class 3 mills reported a 1915 production of 4,368,641,000 feet. On the basis of the Census figures for 1914, and the increases or decreases in production by States shown above, it is estimated that 3,191 class 3 mills operated in 1915. On the basis of the average cut of those reporting, the total cut of this class is estimated at 6,201,864,000 feet.

Two thousand three hundred and thirty-one class 2 mills reported a cut of 1,578,729,000 feet. In the same way as for class 3, it is estimated that 4,198 class 2 mills were active in 1914 and produced a total of 2,941,264,000 feet.

Class 1 mills to the number of 11,022 reported their 1915 production as 2,068,393,000 feet. In poor business years a great many small mills do not operate and curtailment by larger mills drops many into this class. With consideration also for the number of class 1 mills reported active in 1914 by the Bureau of the Census, the number of class 1 mills in previous years, and the per cents of increase or decrease in production, it is estimated that 21,263 mills of this class were active in 1915. On the basis of the average cut of those reporting, the total cut of the class was 3,974,334,000 feet.

In this manner the probable total cut of 37,011,656,000 feet was computed. It is believed that either a report was secured or an estimate made for every class 5 mill active in 1915. The number of active class 4 mills is placed as high as is warranted by the data at hand, while in the case of classes 3 and 2 the estimate of the total number operating is as high as the facts warrant. While Table 2 shows that the estimated number of class 1 mills active in 1915 forms a little greater proportion of all mills than does class 1 in previous years, it is possible that a few thousand more class 1 mills may have operated than are shown, but in any event it seems improbable that the total cut of lumber in 1915 was more than 38,000,000,000 feet.

PRODUCTION BY CLASSES OF MILLS.

Table 2 (page 7) shows the production by classes of sawmills for the years for which such data have been compiled. Mills having

an annual cut of less than 50,000 feet have not been considered for the years since 1909. The 1909 total figure in Table 2 is thus reduced, and so is slightly less than the corresponding figure in Table 1. Reports from such mills would probably not have increased the total production by more than one-half of 1 per cent. Table 2 and figure 1 show that the large sawmills furnish most of the supply of lumber, and also how a nearly complete lumber census can be made by persistent efforts to get reports from mills cutting 1,000,000 feet and over. The 1915 lumber census was conducted in this manner.

Figure 1 shows graphically the number of mills and the production of each class. The small number of mills in

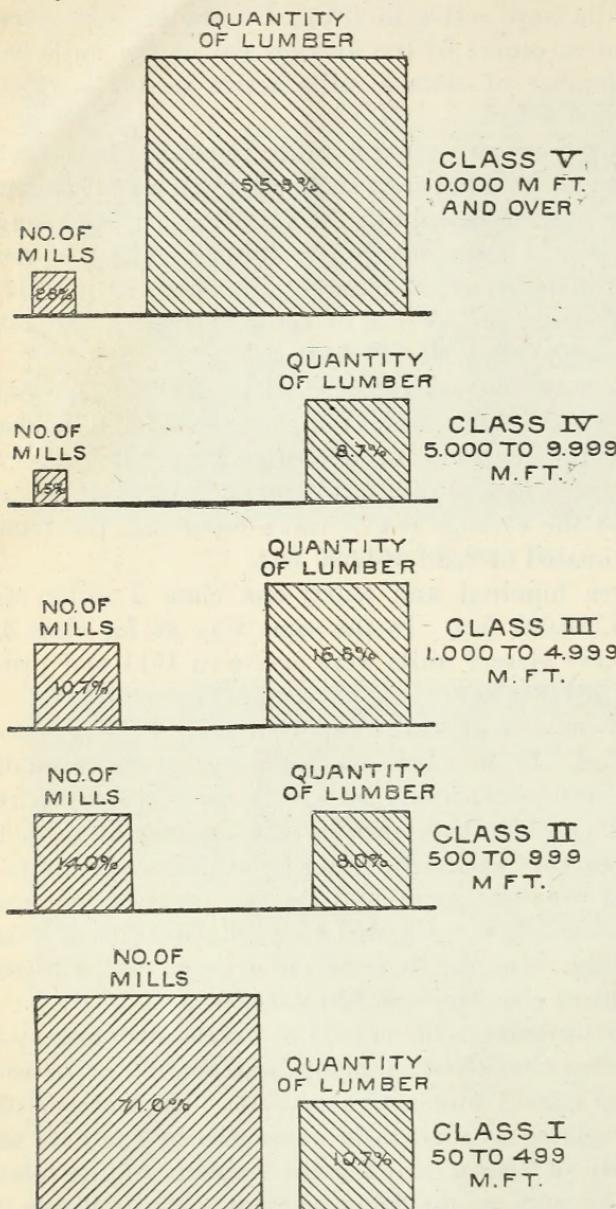


FIG. 1.—Computed total lumber production in 1915, by classes of mills.

class 5, which cut 55.8 per cent of the total, is very significant when compared with the large number of mills in class 1, which cut only 10.7 per cent of the total.

TABLE 2.—*Reported production of lumber 1909, 1912, 1913, 1914, and 1915, computed totals, by classes of mills.*

Class.	Year.	Mills.		Quantity reported.	
		Number reporting.	Per cent.	M feet b. m.	Per cent.
Class 5: 10,000 M and over per year.....	1909	888	2.11	19,126,223	43.09
	1912	926	3.19	21,259,274	54.29
	1913	974	4.50	23,211,667	60.47
	1914	867	3.15	20,934,446	56.06
	¹ 1915	846	2.82	20,669,746	55.84
Class 4: 5,000 M to 9,999 M per year.....	1909	783	1.86	5,291,606	11.92
	1912	608	2.10	4,311,063	11.01
	1913	740	3.41	4,303,122	11.21
	1914	547	1.99	3,910,370	10.47
	¹ 1915	453	1.51	3,224,448	8.71
Class 3: 1,000 M to 4,999 M per year.....	1909	5,443	12.95	10,068,592	22.69
	1912	3,747	12.92	7,009,608	17.90
	1913	3,265	15.07	6,319,753	16.46
	1914	3,291	11.97	6,078,730	16.28
	¹ 1915	3,191	10.65	6,201,864	16.76
Class 2: 500 M to 999 M per year.....	1909	6,468	15.39	4,315,636	9.72
	1912	4,420	15.24	2,951,068	7.54
	1913	3,148	14.53	2,049,642	5.34
	1914	4,261	15.49	2,780,184	7.44
	¹ 1915	4,198	14.02	2,941,264	7.95
Class 1: 50 M to 499 M per year.....	1909	28,459	67.69	5,582,738	12.58
	1912	19,304	66.55	3,627,401	9.26
	1913	13,541	62.49	2,502,825	6.52
	1914	18,540	67.40	3,642,293	9.75
	¹ 1915	21,263	70.99	3,974,334	10.74
All classes.....	² 1909	42,041	100.00	44,384,795	100.00
	1912	29,005	100.00	39,158,414	100.00
	1913	21,668	100.00	38,387,009	100.00
	1914	27,506	100.00	37,346,023	100.00
	¹ 1915	29,951	100.00	37,011,656	100.00

¹ The data here shown for 1915 are the computed totals by classes of mills.

² The total for 1909 differs from that shown in other tables because 4,543 mills, cutting a total of 124,966,000 feet, or less than 50 M feet each, are omitted above.

Figure 2 on pages 10 and 11 shows graphically the production by classes of mills and the total cut in each State.

PRODUCTION BY STATES.

Table 3 shows the reported lumber production by States for the years 1899 to 1914 and the computed State totals for 1915. Because of the closer touch of the western offices of the Forest Service with the mills in their territory, and the consequent greater accuracy of the estimates of probable 1915 total cut of the Western States, the figures for these States are not rounded off as are the corresponding figures for other States. The many thousand mills east of the Rocky Mountains make only an approximate estimate possible.

Table 3 is designed to show the changes which are taking place in the regional production of the country's supply of lumber. The total reported cuts for each State for each of the years indicated are shown on one line and can readily be followed across the page for the purpose of noting rise or decline. In general, the table indicates the declining cut in the Northeastern, Lake, and Central States and

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TABLE 3.—*Total number of active sawmills reporting, and quantity of lumber reported, by States, 1899-1914 and computed 1915 totals.*

State.	1915 (29,951 mills), ¹	1914 (27,506 mills), ²	1913 (21,668 mills), ³	1912 (29,005 mills), ⁴	1911 (28,107 mills), ⁵	1910 (31,334 mills), ⁶	1909 (46,584 mills), ⁷	1908 (31,231 mills), ⁸	1907 (28,850 mills), ⁹	1906 (22,398 mills), ¹⁰	1904 (18,277 mills), ¹¹	1899 (31,333 mills), ¹²
United States...	Mfeet b. m.	Mfeet b. m.	Mfeet b. m.	Mfeet b. m.	Mfeet b. m.	Mfeet b. m.	Mfeet b. m.	Mfeet b. m.	Mfeet b. m.	Mfeet b. m.	Mfeet b. m.	Mfeet b. m.
Washington...	3,950,000	3,946,180	4,009,753	4,582,053	4,007,492	3,862,916	2,915,928	3,777,006	4,305,053	2,485,028	1,429,032	1,115,366
Louisiana...	3,900,000	3,936,434	3,876,211	3,733,900	3,731,918	2,722,121	2,572,669	2,972,119	2,796,395	2,559,327	1,727,391	1,206,265
Mississippi...	2,300,000	2,280,966	2,610,581	2,041,615	2,122,205	1,801,016	2,094,485	1,840,250	1,722,974	1,218,411	1,285,638	1,285,638
North Carolina...	2,090,000	2,227,854	1,957,258	2,193,308	1,798,724	1,844,722	2,177,715	1,336,796	1,022,387	1,022,387	1,022,387	1,022,387
Arkansas...	1,800,000	1,792,780	1,911,647	1,902,201	1,681,080	1,884,134	2,099,130	1,524,008	1,988,304	1,839,348	1,080,536	1,023,987
Texas...	1,750,000	1,554,005	2,081,471	1,902,471	1,803,688	1,898,995	1,408,158	1,635,633	1,741,473	1,406,473	1,232,404	1,232,404
Oklahoma...	1,690,000	1,817,875	1,494,467	1,616,160	1,466,033	1,604,084	1,488,955	1,224,967	1,004,894	987,107	734,538	734,538
Alabama...	1,500,000	1,523,936	1,378,156	1,296,212	1,465,023	1,691,001	1,152,079	1,009,783	1,243,988	1,101,386	1,101,386	1,101,386
Virginia...	1,500,000	1,488,070	1,273,953	1,509,997	1,359,790	1,632,192	2,101,716	1,198,725	1,412,477	1,063,241	949,737	959,119
Wisconsin...	1,210,000	1,391,000	1,488,313	1,488,876	1,391,291	1,701,986	1,025,038	1,613,315	1,331,305	1,022,157	1,338,166	1,338,166
California...	1,130,000	1,363,183	1,183,380	1,203,059	1,207,561	1,254,826	1,143,507	1,996,115	1,345,943	1,348,559	1,077,439	1,077,439
Florida...	1,110,000	1,073,821	1,055,047	1,067,525	992,091	1,201,734	1,730,906	839,058	888,137	812,693	790,373	790,373
Michigan...	1,000,000	1,214,435	1,488,827	1,466,754	1,681,081	1,889,724	1,478,252	1,827,685	1,094,279	1,006,670	3,018,338	3,018,338
Minnesota...	1,000,000	1,312,230	1,149,704	1,456,726	1,457,734	1,361,508	1,286,122	1,600,716	1,794,144	1,942,248	2,342,338	2,342,338
West Virginia...	1,000,000	1,118,480	1,249,559	1,318,732	1,387,786	1,376,737	1,472,942	1,097,015	976,173	855,889	778,051	778,051
Maine...	1,000,000	992,594	882,128	828,417	860,273	1,111,565	1,929,350	1,103,808	1,088,747	863,860	784,647	784,647
Georgia...	1,000,000	1,026,191	941,291	801,611	1,041,617	1,342,249	904,668	853,697	831,675	1,135,910	1,311,917	1,311,917
Pennsylvania...	950,000	864,710	781,180	1,048,606	1,241,199	1,462,971	1,283,041	1,738,729	1,620,881	1,738,972	2,333,278	2,333,278
South Carolina...	800,000	816,930	584,872	706,831	897,680	560,888	649,058	566,928	609,739	466,429	450,955	450,955
Tennessee...	800,000	885,035	932,572	914,579	1,016,475	1,223,849	760,642	894,968	624,587	773,885	950,958	950,958
Idaho...	777,000	763,508	713,575	745,670	645,800	518,925	513,788	418,944	211,447	661,299	656,363	656,363
Kentucky...	500,000	596,392	541,531	641,266	632,415	733,556	830,712	638,539	912,908	661,371	774,651	774,651
New Hampshire...	500,000	482,744	309,424	479,499	443,907	388,619	649,606	606,760	754,023	539,259	491,591	572,447
New York...	475,000	486,195	457,720	502,351	506,074	683,440	781,391	848,894	810,949	581,976	878,448	878,448
Ohio...	403,000	286,063	414,943	499,834	427,161	490,639	542,904	459,259	529,087	538,775	420,905	990,457
Missouri...	350,000	370,571	416,048	422,470	418,586	501,691	600,189	458,938	548,774	533,940	723,754	723,754
Indiana...	350,000	298,571	332,993	401,017	380,613	422,963	556,418	411,868	504,790	447,808	513,833	1,036,999
Montana...	328,000	317,812	257,974	272,174	228,416	319,089	308,582	311,533	343,814	328,727	236,430	255,685
Vermont...	260,000	249,608	194,647	235,983	239,254	284,815	351,571	304,017	375,922	337,238	375,809	375,809
Massachusetts...	250,000	143,094	224,580	239,329	273,317	239,206	361,200	384,526	364,231	354,483	262,447	344,190
Oklahoma...	230,000	202,594	140,284	168,806	143,869	164,633	225,730	168,756	140,015	32,730	22,104	22,104
Maryland...	165,000	162,097	140,469	174,320	144,708	154,651	267,938	168,534	213,988	166,449	183,711	183,711
Illinois...	110,000	66,227	102,902	122,528	96,651	113,506	170,181	123,319	141,317	211,545	388,469	388,469
Connecticut...	90,000	81,883	93,730	109,251	124,661	126,463	168,371	137,855	140,011	124,880	108,093	108,093
Arizona...	75,945	78,667	77,363	72,655	72,731	72,134	43,287	56,960	55,401	55,401	36,182	36,182

PRODUCTION OF LUMBER, LATH, AND SHINGLES.

9

Colorado.....	102,117	74,602	88,451	95,908	121,398	141,710	117,636	134,239	110,212	141,914	133,746
New Mexico.....	65,737	57,167	65,818	82,650	82,728	82,544	91,987	79,439	113,204	81,113	30,880
New Jersey.....	45,000	48,748	34,810	27,248	28,639	36,542	61,620	34,930	36,253	44,658	74,118
Iowa.....	32,000	11,433	21,676	46,538	59,974	75,446	132,024	97,242	144,271	143,747	281,521
Delaware.....	25,000	25,517	18,039	28,285	23,833	46,642	55,440	41,184	50,892	44,487	33,955
South Dakota.....	22,562	18,744	19,103	20,986	18,046	16,340	31,057	25,859	34,841	30,416	31,704
Wyoming.....	17,000	11,832	12,940	12,500	33,309	30,931	28,602	18,822	17,479	13,705	16,963
Rhode Island.....	15,000	15,902	14,421	9,016	14,392	25,489	30,528	32,855	21,528	15,398	18,528
Utah.....	10,892	8,680	5,403	9,055	10,573	11,786	12,638	15,059	14,690	7,768	12,630
All other States.....	(6)	7 15,672	7 19,461	7 22,525	7 11,786	7 12,594	7 15,946	8 10,627	8 5,891	11,548	10 24,646
										10 23,245	

¹ Figures shown are computed totals for 1915.² Custom mills excluded.³ Includes also exclusive lath and shingle mills reporting (1,500 estimated).⁴ Mills cutting less than 50 M. feet per year excluded.⁵ Includes cut of two mills in Nevada.⁶ Kansas and Nebraska mills reported less than 50 M. feet each, and these States therefore omitted.⁷ Includes Kansas, Nebraska, and Nevada.⁸ Includes Kansas and Nevada.⁹ Kansas.¹⁰ Includes Alaska, Kansas, Nebraska, Nevada, and North Dakota in 1899.

the increasing cut in the Southern and Northwestern States. Abnormal conditions in 1914 and 1915 caused departures from the general trend.

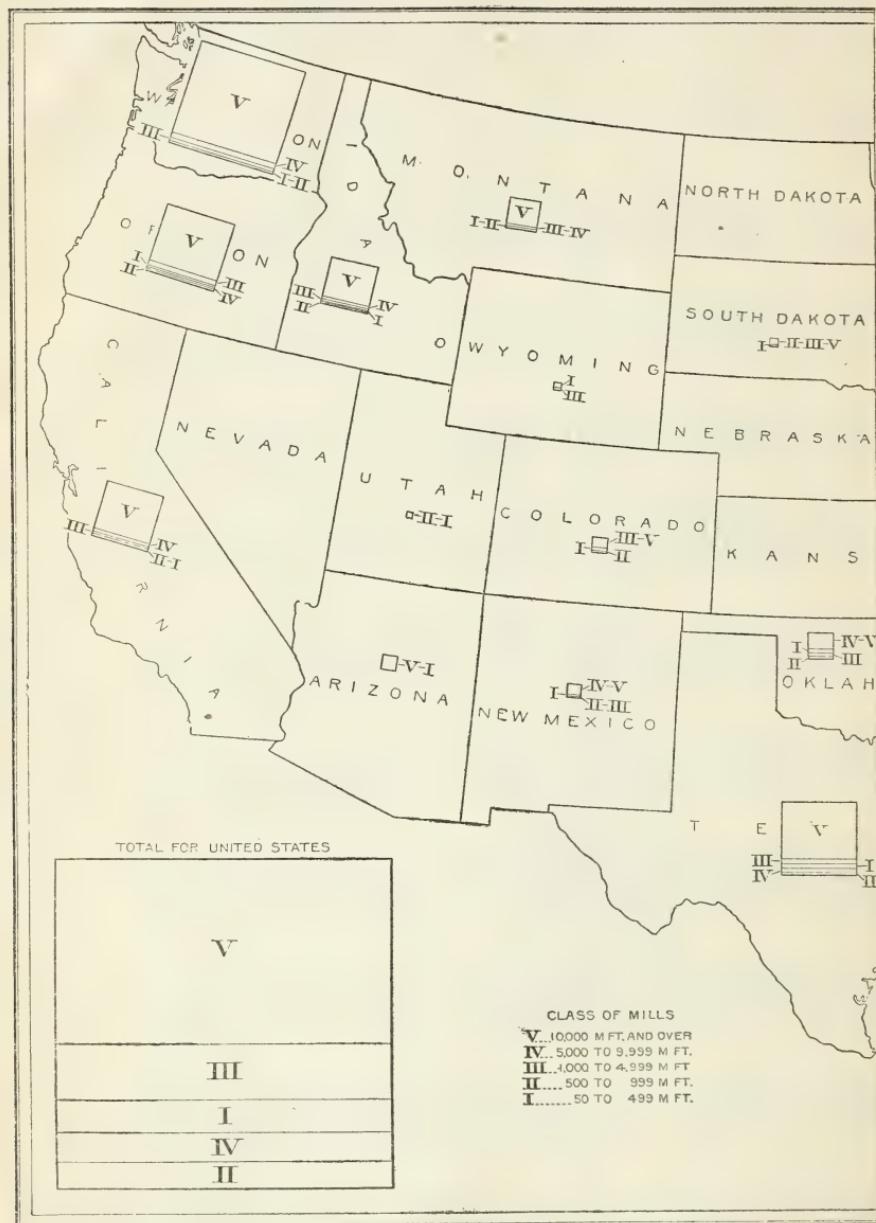
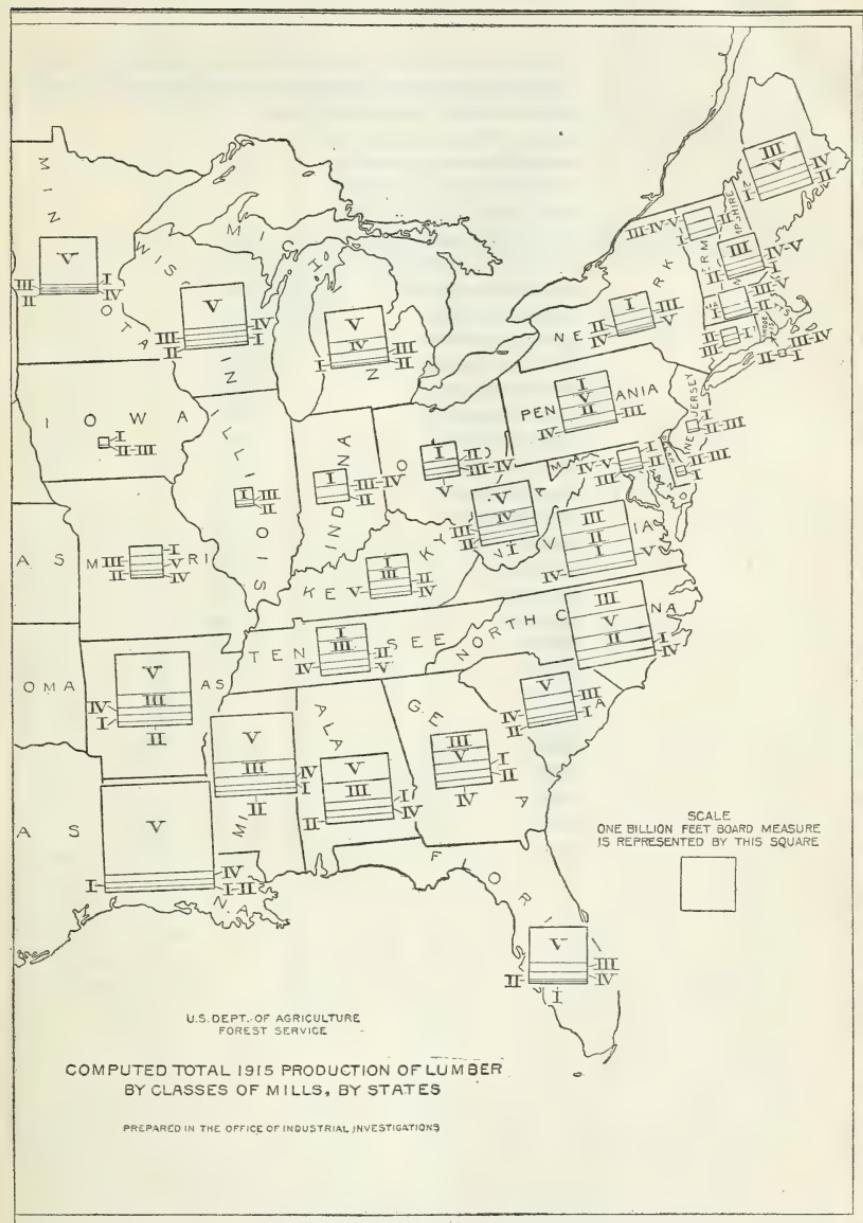


FIG. 2.—Computed total 1915 production

Though the total number of mills reporting varies greatly with different years, the bulk of the lumber cut was probably reported, since mills not reporting were undoubtedly those of the smallest

size. For some years it has been possible to show the actual number of sawmills reporting; in other years the figures include an inseparable number of exclusive lath and shingle mills. The figures for



of lumber by classes of mills, by States.

1910 to 1915, inclusive, are for mills cutting 50,000 feet annually and up; and the figures for previous years cover all mills reporting, except that custom mills were excluded in 1914 and 1904.

Data for 1905 are omitted from Tables 3 and 4; only 11,666 mills reported for that year and the results are not complete enough to be comparable with the figures for other years.

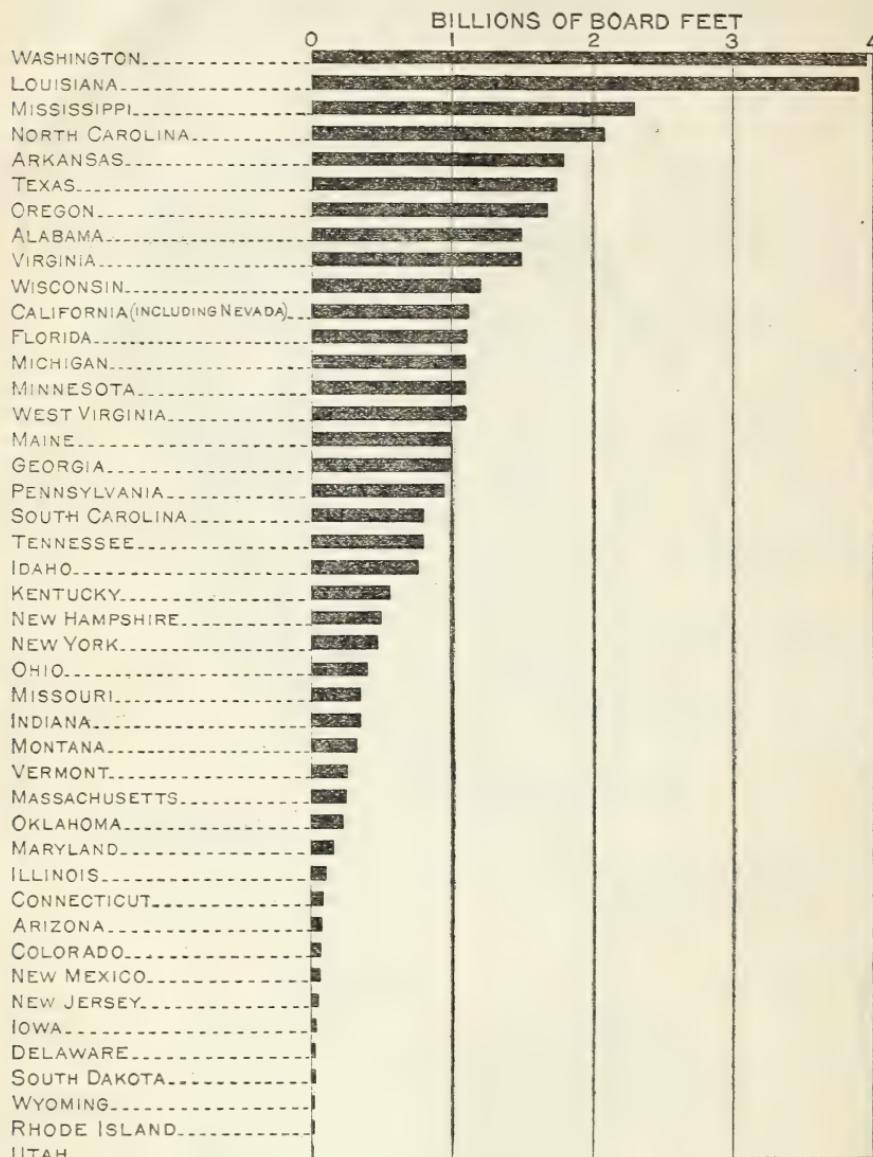


FIG. 3.—Computed total lumber production in 1915, by States.

Figure 3 shows graphically the total production in each State in 1915.

PRODUCTION BY KINDS OF WOOD

Table 4 on page 14 shows the reported lumber production by kinds of wood for 1899 to 1914 and similar computed totals for 1915. There is thus indicated the trend of production in each of the important kinds of lumber. The more accurate 1915 estimates for the exclusive western species are due to the closer touch of the western offices of the Forest Service with the small number of western mills as compared with the many thousands in the eastern half of the coun-

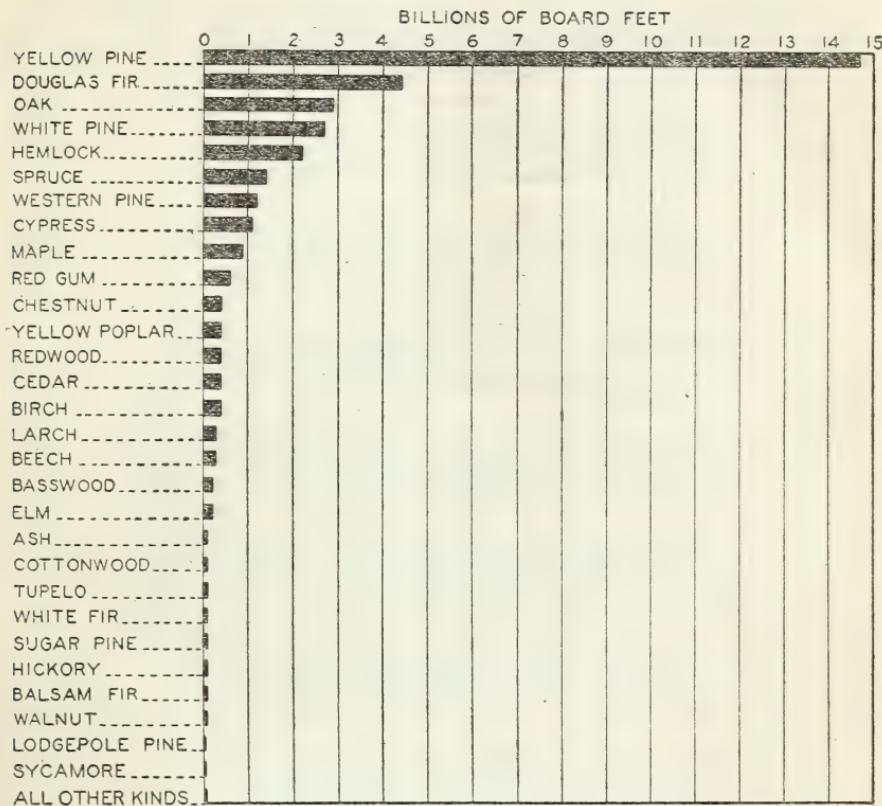


FIG. 4.—Computed total lumber production in 1915, by kinds of woods.

try. It will be seen, as in Table 3, that, in general, the production of those woods cut in the Northeastern, Lake, and Central States is declining, while the production of those cut in the Southern and Northwestern States is increasing. This, of course, does not hold true in every case. For instance, the fluctuating markets of 1914 and 1915 caused Douglas fir production to drop but spruce to rise.

Figure 4 is a graphic representation of the 1915 lumber cut by kinds of wood.

TABLE 4.—Quantity of each kind of lumber reported, 1899–1914, and computed total 1915 production.

Kind of wood.	1915	1914	1913	1912	1911	1910	1909	1908	1907	1906	1904	1903	1899
	M ³ feet b. m. 1,371,011,656	M ³ feet b. m. 37,346,023	M ³ feet b. m. 38,387,009	M ³ feet b. m. 39,158,414	M ³ feet b. m. 37,003,207	M ³ feet b. m. 40,018,282	M ³ feet b. m. 44,509,761	M ³ feet b. m. 33,224,369	M ³ feet b. m. 40,256,154	M ³ feet b. m. 37,530,736	M ³ feet b. m. 2,35,084,166	M ³ feet b. m. 2,34,135,139	
Yellow pine.....	14,700,000	14,829,706	14,737,471	12,227,052	14,143,471	14,503,706	14,527,185	11,236,372	11,661,077	11,521,681	9,657,676	9,657,676	
Douglas fir.....	4,431,249	4,763,693	5,556,096	5,175,123	5,054,243	5,203,644	4,856,378	3,675,114	4,748,872	2,928,409	1,736,507	1,736,507	
Oak.....	2,970,000	3,278,908	3,211,718	3,318,562	3,098,444	3,522,098	4,414,457	2,771,511	3,176,760	2,820,393	2,902,853	4,438,027	
White pine.....	2,700,000	2,632,183	2,568,636	3,138,183	3,352,228	3,900,034	3,344,921	4,192,708	5,332,704	7,424,391	7,424,391		
Henlock.....	2,275,000	2,165,728	2,319,982	2,426,554	2,655,308	2,836,129	3,051,399	2,530,843	3,373,016	3,537,329	3,268,757	3,420,673	
Spruce	1,400,000	1,245,614	1,046,816	1,238,600	1,261,728	1,449,912	1,748,547	1,411,992	1,726,797	1,644,987	1,303,886	1,448,091	
Western yellow pine	1,283,985	1,327,700	1,219,444	1,330,700	1,562,700	1,493,985	1,275,550	1,527,195	1,386,777	1,290,626	1,290,626	1,945,422	
Cypress.....	1,100,000	1,013,013	1,097,227	981,507	935,659	965,635	743,297	757,639	839,276	749,592	495,836	495,836	
Maple.....	900,000	909,763	901,487	1,020,864	951,667	1,006,637	1,106,604	874,983	939,073	882,878	587,558	633,466	
Red gum.....	655,000	675,380	772,514	694,260	582,967	610,208	706,945	588,347	689,200	643,678	523,990	285,417	
Chestnut.....	490,000	546,391	505,802	554,230	529,022	535,049	663,891	539,341	653,239	407,379	243,537	206,688	
Yellow poplar.....	464,000	519,221	620,176	623,289	659,475	734,926	868,500	654,122	862,849	677,670	563,554	1,115,242	
Bedwood.....	420,294	535,199	510,271	496,796	489,768	543,493	521,630	404,802	569,450	639,678	519,267	360,167	
Cedar.....	420,000	499,903	358,444	329,000	374,925	415,639	346,008	272,764	357,845	223,035	224,009	132,601	
Birch.....	415,000	378,667	378,739	388,277	423,571	452,370	386,367	387,614	370,432	224,009	224,009	132,601	
Larch.....	375,000	358,661	395,273	407,064	368,216	382,514	421,214	382,466	324,509	289,473	31,784	50,619	
Beech.....	360,000	376,464	365,501	435,250	365,501	437,881	511,244	410,072	430,065	275,661	(3)	(3)	
Basswood.....	290,000	264,656	257,102	296,717	304,621	344,704	399,151	319,505	381,088	376,838	228,041	308,039	
Elm.....	210,000	214,294	214,532	262,144	236,108	265,107	347,456	273,545	260,579	224,795	258,330	456,731	
Ash.....	180,000	189,399	207,816	231,548	214,398	246,035	291,209	225,367	252,040	214,460	169,178	209,120	
Cottonwood.....	180,000	195,938	227,477	198,629	220,305	265,600	232,475	293,161	289,458	321,574	415,124	415,124	
Tripelio.....	170,000	124,480	120,420	122,545	98,142	92,071	96,676	69,170	68,842	47,882	(3)	(3)	
White fir.....	125,048	112,627	88,109	122,613	124,307	132,327	89,318	98,120	146,508	104,329	(3)	(3)	
Sugar pine.....	117,701	136,459	149,926	132,416	117,987	103,165	97,191	99,809	115,066	133,640	(3)	53,558	
Hickory.....	100,000	116,113	162,980	278,757	240,217	272,252	333,929	197,372	203,211	148,212	106,824	96,636	
Balsam fir.....	100,000	125,212	98,752	84,261	83,375	74,580	108,702	69,956	53,339	(3)	(3)	(3)	
Walnut.....	90,000	25,573	40,565	33,083	38,288	36,449	46,108	43,681	41,490	48,174	31,455	38,681	
Lodgepole pine.....	26,486	18,374	20,106	22,039	33,014	26,634	23,733	(3)	(3)	(3)	18,002	29,715	
Sycamore.....	25,000	22,773	30,804	49,468	42,836	45,063	56,511	43,332	46,044	(3)	496,461	2,514,721	
All other kinds.....	47,893	55,524	85,366	69,548	68,428	62,151	47,873	27,734	164,845	164,845			

¹ Computed total 1915 production by kinds of wood.² Includes lumber cut in Alaska.³ Not separately reported.

The apparently large increase in the cut of tupelo, which includes black gum, during 1915 is believed to be due to the fact that in previous years many mills in the Atlantic and Central States reported their cut of black gum under red gum. The actual cut of tupelo in 1915 was undoubtedly less than in 1914. In Louisiana, where the mills distinguish between tupelo and red gum, the cut of tupelo was one-third less.

The rather consistent decline in the cut of hickory lumber, while pointing to the exhaustion of hickory stumppage in many sections, really indicates that hickory timber is more and more being cut, as recommended by the Forest Service, into more profitable dimension stock for handle and vehicle manufacturers. Dimension stock is not reported as lumber. The hickory lumber reported should, according to the best standard of utilization, be thick stock for the special industries demanding hickory.

The unusually big production of walnut lumber in 1915 was largely caused by orders for thick lumber to be manufactured into gunstocks for use in Europe.

In the portion of the bulletin which follows, the principal kinds of lumber are discussed separately. While the computed total cut of each wood is shown in the tables, only the actual production reported by the mills is given for each State, since it is felt that this indicates sufficiently a State's relative position as a producer of each wood.

The average values given in the tables following were compiled from reports made by about one-half of the 16,815 mills which reported their lumber cut. Values were reported, however, by a part of each class of mills in each State, and the weight of the production of each class was considered in the computations, so the results are very fair average values. Differences in State values are due only in part to distance from consuming markets and to supply and demand. Other factors are quality of timber, how well the lumber is manufactured, and the efficiency of sales organizations.

In the case of those kinds of wood comprising more than one species recognized by the lumber trade, the principal species cut in each State are noted in the tables. The standard name given for each species is that adopted by the Forest Service, and is in most cases the one now used by the lumber trade. The Latin scientific names of all species are given to facilitate reference, especially in the case of foreign readers.

YELLOW PINE.

Yellow pine lumber is produced chiefly in the Southern States. Three species—the longleaf, loblolly, and shortleaf—supply most of the stumppage, while minor yellow pines are cut to a limited extent. The lumber known commercially as North Carolina pine, and coming

from Virginia, North Carolina, and South Carolina, includes both loblolly and shortleaf pine. Slash pine is usually cut and sold along with longleaf pine. The several species, in order of importance, are:

Longleaf pine (*Pinus palustris*): Also commonly called hard pine and Georgia pine and exported as pitch pine. Cut principally in the Gulf States.

Loblolly pine (*Pinus taeda*): "Loblolly" is not used generally by the trade, which calls this pine shortleaf, oldfield, rosemary, and Virginia pine. Cut mostly in Virginia, North Carolina, South Carolina, Arkansas, and Texas, and to a less extent in the other Gulf States and Georgia.

Shortleaf pine (*Pinus echinata*): Cut mostly in Arkansas, Virginia, North Carolina, South Carolina, Louisiana, and Mississippi, and to a less extent in the other yellow-pine States.

Slash (or Cuban) pine (*Pinus caribaea*): Cut in Georgia and Gulf States east of Mississippi River.

Scrub pine (*Pinus virginiana*): Also called Jersey pine. Middle Atlantic States.

Pitch pine (*Pinus rigida*): Middle Atlantic and Northern States.

Spruce pine (*Pinus glabra*): Gulf States.

Pond pine (*Pinus serotina*): South Atlantic States.

Sand pine (*Pinus clausa*): Florida and Alabama.

Table-mountain pine (*Pinus pungens*): Appalachian Mountains.

TABLE 5.—*Reported production of yellow pine lumber, 1915.*

[Computed total production in United States, 14,700,000 M feet b. m.]

State.	Principal species cut.	Number of active mills reporting.	Quantity reported, M feet b. m.	Per cent.	Average value per M feet f. o. b. mill.
United States.....		6,006	12,177,335	100.0	\$12.41
Louisiana.....	Longleaf.....	205	2,881,615	23.7	12.35
Mississippi.....	do.....	512	1,657,887	13.6	12.30
Texas.....	Longleaf and loblolly.....	238	1,557,270	12.8	12.58
North Carolina.....	Loblolly and shortleaf.....	1,194	1,130,144	9.3	12.21
Arkansas.....	Shortleaf and loblolly.....	391	1,082,155	8.9	12.99
Alabama.....	Longleaf.....	618	1,023,306	8.4	12.13
Florida.....	do.....	185	830,815	6.8	12.29
South Carolina.....	Loblolly and shortleaf.....	380	592,184	4.9	12.56
Virginia.....	do.....	907	562,926	4.6	12.59
Georgia.....	Longleaf and loblolly.....	561	525,747	4.3	11.93
Oklahoma.....	Shortleaf.....	51	161,951	1.3	12.76
Missouri.....	do.....	84	50,421	.4	12.15
Tennessee.....	do.....	235	48,523	.4	11.78
Maryland.....	Loblolly and shortleaf.....	129	25,625	.2	13.19
Kentucky.....	Shortleaf.....	76	12,909	.1	13.47
All other States (see Summary, p. 38).		240	33,857	.3	.....

DOUGLAS FIR.

Douglas fir (*Pseudotsuga taxifolia*) of the Western States is available in larger stands than any other single species in the United

States, but the past and present total annual production of "yellow pine," including longleaf, shortleaf, loblolly, and several species of minor importance, far exceeds the yield of Douglas fir. The wood of Douglas fir is quite similar to that of longleaf pine in many of its properties and uses. It is sold under the name of Douglas fir, Oregon pine, red fir, yellow fir, Douglas spruce, Washington fir, Oregon fir, and locally in California as spruce.

TABLE 6.—*Reported production of Douglas fir lumber, 1915.*

[Computed total production in United States, 4,431,249 M feet b. m.]

State.	Number of active mills reporting.	Quantity reported, M feet b. m.	Per cent.	Average value per M feet f. o. b. mill.
United States.....	1,017	4,121,897	100.0	\$10.59
Washington.....	317	2,754,179	66.8	10.56
Oregon.....	309	1,119,395	27.2	10.66
California.....	73	117,951	2.9	10.27
Idaho.....	152	76,283	1.8	10.05
Montana.....	55	41,464	1.0	12.15
All other States (see Summary, p. 38).....	140	12,625	.3	.....

OAK.

The several commercial oaks furnish the largest quantity of any kind of hardwood lumber. The general lumber trade calls all oak lumber either white or red oak. These trade names are based on the appearance of the two general kinds of lumber cut from oak trees, white oak lumber being light in color and dense and red oak lumber being somewhat reddish and porous. Since these two kinds of lumber are supplied by distinct groups of botanical white and red oaks, the trade distinction is logical. The bulk of oak lumber is cut from less than a dozen species. The largest part of the oak lumber is furnished by white oak and red oak, chestnut oak and Texan red oak being of next importance. Following is a list of the principal commercial oaks, divided into two groups.

WHITE OAKS.

White oak (*Quercus alba*) is the white oak common throughout the eastern half of the United States.

Chestnut (or rock) oak (*Quercus prinus*) occurs in the Appalachian Mountain region.

Post oak (*Quercus stellata*) and bur oak (*Quercus macrocarpa*) have about the same range as white oak, but are not so abundant.

Overcup oak (*Quercus lyrata*) and cow (or basket) oak (*Quercus michauxii*) are the most important of the southern white oaks.

RED OAKS.

Red oak (*Quercus borealis*) is the red oak common in the eastern half of the United States, except in the Gulf States.

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

Pin oak (*Quercus palustris*) occurs in many Eastern and Central States.

Scarlet oak (*Quercus coccinea*) is a northern and northeastern tree.

Yellow (or black) oak (*Quercus velutina*) is found in most States east of the Rocky Mountains.

Willow oak (*Quercus phellos*) is of commercial importance in the Southern States only.

TABLE 7.—*Reported production of oak lumber, 1915.*

[Computed total production in United States, 2,970,000 M feet b. m.]

State.	Principal species cut.	Number of active mills reporting.	Quantity reported, M feet b. m.	Per cent.	Average value per M feet f. o. b. mill.
United States.....		9,517	2,070,444	100.0	\$18.73
West Virginia.....	White, red, chestnut.....	483	201,261	14.1	19.03
Arkansas.....	White, Texan.....	439	223,752	10.8	18.40
Kentucky.....	White, red.....	584	222,964	10.8	18.79
Tennessee.....	do.....	747	210,965	10.2	19.62
Virginia.....	White, red, chestnut.....	929	165,592	8.0	16.64
Ohio.....	do.....	593	128,562	6.2	21.46
Pennsylvania.....	do.....	835	125,581	6.1	19.73
North Carolina.....	do.....	709	97,014	4.7	16.42
Missouri.....	White, red, Texan.....	388	95,435	4.6	16.51
Mississippi.....	White, Texan.....	268	89,469	4.3	18.61
Indiana.....	White, red.....	417	80,289	3.9	22.58
Louisiana.....	White, Texan.....	88	74,304	3.6	18.48
Alabama.....	do.....	291	37,058	1.8	15.68
Texas.....	do.....	86	32,564	1.6	16.72
Maryland.....	White, red, chestnut.....	157	24,348	1.2	17.37
Illinois.....	White, red.....	128	22,660	1.1	19.15
New York.....	do.....	639	21,617	1.0	19.70
Georgia.....	White, Texan.....	223	20,467	1.0	16.06
Wisconsin.....	White, red.....	223	13,658	.6	21.96
New Jersey.....	do.....	142	13,155	.6	24.03
All other States (see Summary, p. 40).		1,148	79,699	3.8	.....

WHITE PINE.

Under "white pine" is included the common white pine of the North and the western, or Idaho, white pine. There are also included Norway pine and jack pine, which are lumbered with white pine in the Lake States and eastward, and for which the mills can not readily give separate figures. The scientific names and commercial range of these species are as follows:

White pine (*Pinus strobus*) is the familiar white pine of the Lake States, the Northeast, and the Appalachian region.

Norway (or red) pine (*Pinus resinosa*) is lumbered in the Lake States and farther east. Botanically it is a yellow pine. The better grades are often sold with white pine, but the wood also has a market under its own name.

Jack pine (*Pinus banksiana*) is a small tree of the Lake States, and is used to a limited extent.

Western white pine (*Pinus monticola*), sometimes called silver pine, supplies the white-pine lumber cut in Idaho, Montana, Washington, and to a limited extent in Oregon.

TABLE 8.—*Reported production of white pine lumber, 1915.*

[Computed total production in United States, 2,700,000 M feet b. m.]

State.	Principal species cut.	Number of active mills reporting.	Quantity reported, M feet b. m.	Per cent.	Average value per M feet f. o. b. mill.
United States.....		3,349	2,291,480	100.0	\$17.44
Minnesota.....	Eastern white, Norway.....	171	869,574	38.0	18.41
Idaho.....	Western white.....	37	301,600	13.2	17.34
Maine.....	Eastern white, Norway.....	478	270,581	11.8	17.10
Wisconsin.....	do.....	244	191,306	8.4	19.19
New Hampshire.....	do.....	284	189,645	8.3	16.59
Massachusetts.....	do.....	223	106,824	4.7	16.44
Washington.....	Western white.....	32	90,240	3.9	16.33
Michigan.....	Eastern white, Norway.....	181	64,267	2.8	19.84
New York.....	do.....	755	60,576	2.6	19.71
Pennsylvania.....	do.....	406	39,181	1.7	19.33
Montana.....	Western white.....	9	27,330	1.2	16.59
North Carolina.....	Eastern white.....	61	16,647	.7	17.48
Vermont.....	Eastern white, Norway.....	103	15,040	.6	17.45
West Virginia.....	Eastern white.....	72	13,859	.6	18.02
All other States (see Summary, p. 38).		293	34,810	1.5	.....

HEMLOCK.

Hemlock (*Tsuga canadensis*), the eastern hemlock, is lumbered in the Lake States, the Northeastern States, and the Appalachian region. Western hemlock (*Tsuga heterophylla*) is the main source of hemlock lumber in the Northwestern States, and its production is increasing. Although the mill value is lower, it is superior to the eastern hemlock, and is often sold with Douglas fir. The western mountain or black hemlock (*Tsuga mertensiana*) and the Carolina hemlock (*Tsuga caroliniana*) of the Appalachian region are only occasionally lumbered.

TABLE 9.—Reported production of hemlock lumber, 1915.

[Computed total production in United States, 2,275,000 M feet b. m.]

State.	Principal species cut.	Number of active mills reporting.	Quantity reported, M feet b. m.	Per cent.	Average value per M feet f. o. b. mill.
United States.....		3,739	2,026,460	100.0	\$13.14
Wisconsin.....	Eastern.....	256	474,371	23.4	13.17
Michigan.....	do.....	251	372,512	18.4	13.34
Washington.....	Western.....	91	306,570	15.1	9.43
Pennsylvania.....	Eastern.....	494	259,914	12.8	15.41
West Virginia.....	do.....	134	160,923	7.9	14.73
New York.....	do.....	1,038	93,008	4.6	15.26
Maine.....	do.....	431	69,568	3.4	14.35
Oregon.....	Western.....	27	61,963	3.1	9.58
North Carolina.....	Eastern.....	80	46,546	2.3	12.62
New Hampshire.....	do.....	236	39,262	1.9	14.22
Vermont.....	do.....	281	29,589	1.5	14.87
Virginia.....	do.....	86	25,935	1.3	13.90
Tennessee.....	do.....	56	23,252	1.1	12.14
Massachusetts.....	do.....	125	21,671	1.1	15.28
Kentucky.....	do.....	63	18,041	.9	14.11
All other States (see Summary, p. 38).		90	23,335	1.2	.....

SPRUCE.

Several spruces are cut for lumber, but red and Sitka spruce furnish the greater portion. Red spruce (*Picea rubra*) is the important species in the Northeast and Appalachian region, and Sitka spruce (*Picea sitchensis*) on the northern Pacific coast. In the Northeast black spruce (*Picea mariana*) and white spruce (*Picea canadensis*) are cut to a small extent, while white spruce furnishes the lumber cut in the Lake States. Engelmann spruce (*Picea engelmanni*) is the source of spruce lumber in the Rocky Mountain region. The annual cut of spruce in the Northeast and Northwest is fairly uniform. However, in the Appalachian region, the West Virginia tracts are being cut out, and new tracts are being opened in North Carolina. The 1915 reported cut of spruce in West Virginia was less than one half as much as in 1912, while in North Carolina the mills reported cutting fifteen times as much as in 1912.

TABLE 10.—Reported production of spruce lumber, 1915.

[Computed total production in United States, 1,400,000 M feet b. m.]

State.	Principal species cut.	Number of active mills reporting.	Quantity reported, M feet b. m.	Per cent.	Average value per M feet f. o. b. mill.
United States.....		1,573	1,193,985	100.0	\$16.58
Maine.....	Red.....	362	362,704	30.4	17.28
Washington.....	Sitka.....	49	196,203	16.4	14.08
New Hampshire.....	Red.....	138	112,904	9.5	17.67
West Virginia.....	do.....	25	91,780	7.7	17.97
North Carolina.....	do.....	8	83,601	7.0	17.66
Vermont.....	do.....	278	69,134	5.8	17.10
Oregon.....	Sitka.....	20	65,327	5.5	13.56
Minnesota.....	White.....	91	58,472	4.9	17.78
New York.....	Red.....	232	53,185	4.4	17.97
Massachusetts.....	do.....	41	34,389	2.9	17.85
All other States (see Summary, p. 38).		329	66,286	5.5	.....

WESTERN YELLOW PINE.

Western yellow pine (*Pinus ponderosa*) is cut for lumber in every western State from South Dakota to the Pacific coast. Bull pine is a common woods name for the tree. The lumber is generally sold under the trade names of California white pine, New Mexico white pine, western soft pine, and western white pine. The better grades are soft and light, and compete with white pine.

TABLE 11.—*Reported production of western yellow pine lumber, 1915.*

[Computed total production in United States, 1,293,985 M feet b. m.]

State.	Number of active mills reporting.	Quantity reported, M feet b. m.	Per cent.	Average value per M feet f. o. b. mill.
United States	726	1,252,244	100.0	\$14.32
California ¹	91	389,991	31.1	14.89
Idaho	119	201,858	16.1	12.37
Oregon	134	189,203	15.1	16.31
Washington	120	148,789	11.9	14.39
Montana	59	118,920	9.5	13.33
Arizona	14	75,843	6.1	13.21
New Mexico	43	61,466	4.9	13.78
Colorado	75	37,241	3.0	13.06
South Dakota	28	22,457	1.8	16.98
All other States (see Summary, p. 38)	43	6,476	.5	.....

¹ Includes 1 mill in Nevada.

CYPRESS.

Bald cypress (*Taxodium distichum*) is the commercial cypress. The principal stand of cypress is in Louisiana, and that State is the principal producer of cypress lumber. Other southern States are next in importance, and some is cut in the Atlantic and Central States. New tracts of cypress have been opened in Florida during the past two years, and the reported lumber cut in that State was 60 per cent more in 1915 than in 1912.

TABLE 11.—*Reported production of western yellow pine lumber, 1915.*

[Computed total production in United States, 1,100,000 M feet b. m.]

State.	Number of active mills reporting.	Quantity reported, M feet b. m.	Per cent.	Average value per M feet f. o. b. mill.
United States	647	926,758	100.0	\$19.85
Louisiana	91	560,751	60.5	20.55
Florida	34	161,123	17.4	20.99
Georgia	39	49,703	5.4	17.61
South Carolina	38	30,062	3.2	17.05
North Carolina	103	27,059	2.9	16.31
Arkansas	112	25,383	2.7	17.53
Missouri	41	23,986	2.6	14.95
Mississippi	70	23,656	2.6	17.65
All other States (see Summary, p. 38)	119	25,035	2.7	.....

MAPLE.

The lumber trade recognizes two kinds of maple—hard and soft. Hard-maple lumber comes from the sugar-maple tree and soft-maple lumber from the silver and red species. These three species have a botanical range covering the eastern half of the United States.

Sugar (or hard) maple (*Acer saccharum*) and silver maple (*Acer saccharinum*) are lumbered principally in the Northern States. Red maple (*Acer rubrum*) is most important as a timber tree in the Southern States. Both silver and red maple are commonly called soft maple.

Eastern species of minor importance are mountain maple (*Acer spicatum*) and striped maple (*Acer pensylvanicum*). Oregon maple (*Acer macrophyllum*) is cut in the Pacific Coast States.

TABLE 13.—*Reported production of maple lumber, 1915.*

[Computed total production in United States, 900,000 M feet b. m.]

State.	Principal species cut.	Number of active mills report- ing.	Quantity reported, M feet b. m.	Per cent.	Average value per M feet f. o. b. mill.
					100.0
United States.....		4,294	771,223	100.0	\$15.21
Michigan.....	Sugar.....	279	339,618	44.0	15.32
Wisconsin.....	do.....	263	122,016	15.8	14.72
West Virginia.....	do.....	213	76,934	10.0	14.97
Pennsylvania.....	do.....	537	52,316	6.8	15.53
New York.....	do.....	861	45,407	5.9	15.56
Ohio.....	do.....	407	32,255	4.2	15.97
Vermont.....	do.....	245	22,119	2.9	15.35
Indiana.....	do.....	290	15,662	2.0	15.69
All other States (see Summary, p. 40).		1,199	64,896	8.4	.....

RED GUM.

Red (or sweet) gum (*Liquidambar styraciflua*) is a single species, and what is commercially known as "sap gum" is the sapwood of the red gum tree. It is of most importance commercially in the lower Mississippi Valley, but is also cut farther east and north.

TABLE 14.—*Reported production of red gum lumber, 1915.*

[Computed total production in United States, 655,000 M feet b. m.]

State.	Number of active mills reporting.	Quantity reported, M feet b. m.	Per cent.	Average value per M feet f. o. b. mill.
				100.0
United States.....	1,700	478,099	100.0	\$12.54
Arkansas.....	203	153,091	32.0	12.74
Mississippi.....	171	110,285	23.1	12.57
Louisiana.....	48	39,540	8.3	12.11
Missouri.....	75	28,345	5.9	12.78
Tennessee.....	190	24,729	5.2	12.89
South Carolina.....	38	21,821	4.5	11.69
Alabama.....	82	18,829	3.9	11.97
Texas.....	41	18,003	3.8	12.32
North Carolina.....	125	14,831	3.1	10.93
Virginia.....	139	13,255	2.8	11.66
All other States (see Summary, p. 40)	588	35,370	7.4	.....

CHESTNUT.

Only one species of chestnut (*Castanea dentata*) is native in the United States. It is lumbered throughout most of its range in the Central and Eastern States. The chestnut-bark disease, or chestnut blight, which has killed much of the timber north of the Potomac River, is now invading the more valuable Appalachian forests. Blight-killed chestnut timber, utilized before it deteriorates on the stump, is suitable for all purposes for which chestnut is used.

TABLE 15.—*Reported production of chestnut lumber, 1915.*

[Computed total production in United States, 490,000 M feet b. m.]

State.	Number of active mills reporting.	Quantity reported, M feet b. m.	Per cent.	Average value per M feet f. o. b. mill.
United States.....	3,266	399,473	100.0	\$16.17
West Virginia.....	334	117,989	29.5	15.93
Pennsylvania.....	691	54,388	13.6	16.42
North Carolina.....	175	40,876	10.2	15.58
Virginia.....	355	35,573	8.9	15.31
Tennessee.....	284	28,484	7.1	15.16
Connecticut.....	111	27,351	6.9	17.03
Kentucky.....	249	15,508	3.9	15.67
Massachusetts.....	134	15,138	3.8	16.32
Maryland.....	87	14,191	3.6	14.15
New York.....	435	13,425	3.4	18.89
New Jersey.....	127	13,301	3.3	19.91
All other States (see Summary, p. 40).....	284	23,249	5.8	.....

YELLOW POPLAR.

Yellow poplar (*Liriodendron tulipifera*), a single species, is also known as whitewood, poplar, or tulip poplar. The best-known trade name is simply poplar. The Appalachian States constitute the principal producing region.

TABLE 16.—*Reported production of yellow-poplar lumber, 1915.*

[Computed total production in United States, 464,000 M feet b. m.]

State.	Number of active mills reporting.	Quantity reported, M feet b. m.	Per cent.	Average value per M feet f. o. b. mill.
United States.....	3,046	377,386	100.0	\$22.45
West Virginia.....	295	100,863	26.7	24.90
Kentucky.....	364	49,154	13.0	23.24
Tennessee.....	415	46,129	12.2	22.82
Virginia.....	438	40,899	10.9	20.30
North Carolina.....	319	33,168	8.8	19.71
Ohio.....	244	29,175	7.7	27.76
Alabama.....	129	22,808	6.1	18.25
Georgia.....	93	20,343	5.4	19.36
All other States (see Summary, p. 40).....	749	34,847	9.2	.....

REDWOOD.

Redwood (*Sequoia sempervirens*), which supplies most of the redwood lumber, occurs mostly in California and to a very small extent in southern Oregon. The bigtree (*Sequoia washingtoniana*), the largest tree species in the world, which is found only in California, also supplies a part.

The 1915 estimated total cut of 420,294,000 feet is based on 418,824,000 feet reported by 32 California mills. The average value was \$13.54 per M feet f. o. b. mill.

CEDAR.

A number of species are grouped in this bulletin under the common name "cedar." In importance as lumber producers the several species rank as follows:

Western red cedar (*Thuja plicata*): The source of three-fourths of the shingles made in the United States; is also cut for lumber in Washington, Oregon, and Idaho.

Port Orford cedar (*Chamaecyparis lawsoniana*): Cut mostly in Oregon; the principal cedar cut in that State. The 1915 reported cut of cedar in Oregon was 70 per cent more than in 1912.

Northern white cedar, or arborvitae (*Thuja occidentalis*): Cut in the Lake States and Northeastern States.

Incense cedar (*Libocedrus decurrens*): Cut in California.

Southern white cedar (*Chamaecyparis thyoides*), often called juniper: Cut in the Atlantic Coast States.

Red cedar (*Juniperus virginiana* and *J. barbadensis*): Cut mostly in Tennessee, Florida, and Alabama.

Yellow cedar (*Chamaecyparis nootkatensis*): Sometimes lumbered in Washington.

TABLE 17.—Reported production of cedar lumber, 1915.

[Computed total production in United States, 420,000 M feet b. m.]

State.	Principal species cut.	Number of active mills reporting.	Quantity reported, M feet b. m.	Per cent.	Average value per M feet f. o. b. mill.
United States.....		649	352,482	100.0	\$16.10
Washington.....	Western red.....	102	201,561	57.2	15.40
Oregon.....	Port Orford.....	43	39,835	11.3	19.37
Idaho.....	Western red.....	22	29,654	8.4	9.44
Virginia.....	Southern white.....	29	21,994	6.2	22.53
Maine.....	Northern white.....	79	15,700	4.5	14.14
California.....	Incense.....	35	12,185	3.5	12.08
Michigan.....	Northern white.....	39	8,283	2.3	15.59
Wisconsin.....	.....do.....	47	6,679	1.9	14.66
All other States (see Summary, p. 38).		253	16,591	4.7	.....

BIRCH.

Two species furnish the bulk of the birch lumber produced, but these 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 (or cherry) birch (*Betula lenta*) is the principal species cut in Pennsylvania and West Virginia. In northern New England paper birch (*Betula papyrifera*), often called canoe or white birch, is the principal source of material for spools, toothpicks, and novelties and some is cut into lumber.

River (or red) birch (*Betula nigra*) is poorer in color and figure than the other birches, but is sometimes cut for lumber in the Southern States. In the lumber trade "red birch" means lumber cut from the heartwood of yellow or sweet birch.

Western birch (*Betula occidentalis*) is sawed into lumber to a minor extent on the Pacific coast.

White (or gray) birch (*Betula populifolia*) is a small timber tree in New England used for minor purposes.

TABLE 18.—*Reported production of birch lumber, 1915.*

[Computed total production in United States, 415,000 M feet b. m.]

State.	Principal species cut.	Number of active mills reporting.	Quantity reported, M feet b. m.	Per cent.	Average value per M feet f. o. b. mill.
United States.....		2,197	355,328	100.0	\$16.52
Wisconsin.....	Yellow.....	247	161,853	45.6	16.77
Michigan.....	do.....	178	56,869	16.0	17.11
Vermont.....	do.....	240	27,352	7.7	16.09
Maine.....	Yellow and paper.....	211	27,138	7.6	16.42
New York.....	Yellow.....	420	20,949	5.9	16.23
West Virginia.....	Sweet.....	111	17,715	5.0	16.51
New Hampshire.....	Yellow.....	115	13,629	3.8	15.94
Pennsylvania.....	Sweet.....	276	11,771	3.3	15.73
All other States (see Summary, p. 40).		399	18,052	5.1	.....

LARCH.

The term "larch" is here used to cover two closely related and similar species, tamarack (*Larix laricina*), cut in the Northern States from Minnesota to Maine, and western larch (*Larix occidentalis*), cut in Montana, Idaho, Washington, and Oregon. Although sold for less at the mill, the lumber of the latter is more valuable than tamarack, because the tree is much larger and the wood has more strength and figure and better finishing properties.

TABLE 19.—Reported production of larch lumber, 1915.

[Computed total production in United States, 375,000 M feet b. m.]

State.	Principal species cut.	Number of active mills reporting.	Quantity reported, M feet b. m.	Per cent.	Average value per M feet f. o. b mill.
United States.....		571	348,428	100.0	\$10.78
Montana.....	Western larch.....	39	115,001	33.0	10.79
Idaho.....	do.....	49	111,345	32.0	8.89
Minnesota.....	Tamarack.....	118	37,898	10.9	13.90
Wisconsin.....	do.....	151	24,231	6.9	13.83
Michigan.....	do.....	123	22,368	6.4	14.53
Washington.....	Western larch.....	46	21,477	6.2	8.78
Oregon.....	do.....	11	15,506	4.4	8.98
All other States (see Summary, p. 38).		34	602	.2	.....

BEECH.

There is but one kind of beech native to the United States (*Fagus ferruginea*). Beech lumber is cut in nearly all the hardwood States, but Michigan, New York, and the Ohio Valley States are the most important.

TABLE 20.—Reported production of beech lumber, 1915.

[Computed total production in United States, 360,000 M feet b. m.]

State.	Number of active mills reporting.	Quantity reported, M feet b. m.	Per cent.	Average value per M feet f. o. b. mill.
United States.....	3,329	303,835	100.0	\$14.01
Michigan.....	205	65,998	21.7	14.35
Pennsylvania.....	376	43,168	14.2	13.95
West Virginia.....	213	38,952	12.8	13.43
New York.....	650	32,689	10.8	14.31
Ohio.....	442	31,923	10.5	14.66
Indiana.....	338	31,316	10.3	15.41
Kentucky.....	274	20,578	6.8	12.28
Vermont.....	172	9,162	3.0	13.75
Tennessee.....	159	6,556	2.2	11.84
New Hampshire.....	72	6,016	2.0	13.86
All other States (see Summary, p. 40)	420	17,477	5.7	.....

BASSWOOD.

Three botanical species of basswood are cut for lumber, but no distinction is made on the market. Common basswood (or linn) (*Tilia americana*) is cut mostly in the Lake States, common basswood and white basswood (*Tilia heterophylla*) in the Appalachian Mountains, while downy basswood (*Tilia pubescens*) is a scarce tree in the Southern States.

TABLE 21.—Reported production of basswood lumber, 1915.

[Computed total production in United States, 260,000 M feet b. m.]

State.	Number of active mills report- ing.	Quantity reported, M feet b. m.	Per cent.	Average value per M foot f. o. b. mill.
United States.....	2,889	207,607	100.0	\$18.89
Wisconsin.....	286	73,929	35.6	18.94
Michigan.....	213	28,718	13.8	19.57
West Virginia.....	191	26,956	13.0	19.13
New York.....	848	18,114	8.7	19.50
Pennsylvania.....	220	8,075	3.9	17.30
Ohio.....	191	7,914	3.8	19.39
Vermont.....	177	6,200	3.0	17.71
North Carolina.....	56	6,129	3.0	18.24
Virginia.....	55	5,131	2.5	18.81
All other States (see Summary, p. 40).....	652	26,441	12.7	.....

ELM.

Elm lumber is sold as soft and rock elm, the soft elm lumber coming from the botanical species white and slippery. White (or American) elm (*Ulmus americana*) is found in all States east of the Rocky Mountains and furnishes the larger part of the soft elm lumber sold.

Slippery (or red) elm (*Ulmus pubescens*) covers the eastern half of the United States, and is next to white elm in importance.

Cork (or true rock) elm (*Ulmus racemosa*) is found in the Northern States, and is cut mostly in the Lake States.

Wing elm (*Ulmus alata*) and cedar elm (*Ulmus crassifolia*) of the lower Mississippi Valley are sometimes cut for lumber.

TABLE 22.—Reported production of elm lumber, 1915.

[Computed total production in United States, 210,000 M feet b. m.]

State.	Principal species cut.	Number of active mills report- ing.	Quantity reported, M feet b. m.	Per cent.	Average value per M foot f. o. b. mill.
United States.....		2,730	177,748	100.0	\$16.98
Wisconsin.....	White.....	264	42,534	23.9	17.50
Michigan.....	do.....	217	35,598	20.0	18.15
Arkansas.....	do.....	72	17,055	9.6	15.32
Indiana.....	do.....	293	15,129	8.5	18.03
Ohio.....	do.....	319	13,815	7.8	18.31
New York.....	do.....	570	9,435	5.3	18.16
Missouri.....	do.....	135	8,817	5.0	14.83
Tennessee.....	do.....	116	7,825	4.4	16.38
Louisiana.....	do.....	26	6,031	3.4	15.15
All other States (see Summary, p. 40.).....		718	21,509	12.1	.....

ASH.

Three kinds of ash are important sources of lumber. White ash (*Fraxinus americana*) is cut mostly in the Central hardwood States

and the 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. The lumber trade divides ash lumber into white ash and brown ash; white-ash lumber is cut from the white ash and green-ash tree, while brown-ash lumber comes from the black-ash tree. 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 23.—*Reported production of ash lumber, 1915.*

[Computed total production in United States, 190,000 M feet b. m.]

State.	Principal species cut.	Number of active mills reporting.	Quantity reported, M feet b. m.	Per cent.	Average value per M foot f. o. b. mill.
United States.....		3,486	159,910	100.0	\$22.15
Arkansas.....	Green.....	87	18,957	11.8	23.35
Tennessee.....	do.....	193	15,233	9.5	23.37
Louisiana.....	do.....	49	14,602	9.1	22.47
Wisconsin.....	White and black.....	213	13,733	8.6	19.96
Indiana.....	White.....	238	11,006	6.9	23.75
Ohio.....	do.....	273	8,616	5.4	24.59
Michigan.....	White and black.....	174	7,839	4.9	21.36
Mississippi.....	Green.....	79	7,381	4.6	22.51
New York.....	White and black.....	702	7,163	4.5	23.90
Kentucky.....	White.....	156	6,966	4.4	23.69
All other States (see Summary, p. 40).		1,322	48,414	30.3	.....

COTTONWOOD.

Cottonwood lumber is cut from a number of related species.

Common cottonwood (*Populus deltoides*) furnishes the bulk of the lumber. It is found in the whole country east of the Rocky Mountains, but is lumbered principally in the lower Mississippi Valley.

Swamp cottonwood (*Populus heterophylla*) is cut with common cottonwood in the lower Mississippi Valley States.

Aspen (or popple) (*Populus tremuloides*), often called poplar, is cut mostly in the Lake States and the Northeast, but also occasionally in the Rocky Mountains and westward.

Large-toothed aspen (*Populus grandidentata*), an eastern species, is not usually distinguished from the other.

Balm of Gilead (*Populus balsamifera*), commonly known as balm, is cut in the Lake States and eastward.

Black cottonwood (*Populus trichocarpa*) is lumbered on the Pacific coast. It is the largest of the cottonwoods.

TABLE 24.—Reported production of cottonwood lumber, 1915.

[Computed total production in United States, 180,000 M feet b. m.]

State.	Principal species cut.	Number of active mills reporting.	Quantity reported, M feet b. m.	Per cent.	Average value per M feet f. o. b. mill.
United States.....		1,037	138,282	100.0	\$17.36
Mississippi.....	Common cottonwood.....	46	37,139	26.8	18.66
Arkansas.....	do.....	39	23,389	16.9	18.14
Louisiana.....	do.....	21	17,121	12.4	19.16
Minnesota.....	Aspen and balm.....	79	14,074	10.2	12.59
Tennessee.....	Common cottonwood.....	49	10,466	7.6	19.33
Michigan.....	Aspen and balm.....	51	8,188	5.9	15.44
Missouri.....	Common cottonwood.....	57	3,648	2.6	17.76
Iowa.....	do.....	59	2,855	2.1	19.32
All other States (see Summary, p. 40).		636	21,402	15.5	.....

TUPELO.

The term "tupelo" is here used to cover two important and one minor species of the botanical genus *Nyssa*. Most of the tupelo lumber is cut in the Gulf States from cotton gum (*Nyssa aquatica*), commonly called tupelo. This tree furnishes the lumber sold under the trade name of "tupelo." Black gum (or pepperidge) (*Nyssa sylvatica*) is of next importance and is cut in the Atlantic and Central States; the lumber is sold both as tupelo and black gum. A little lumber is made from water gum (*Nyssa biflora*) in the Southern Atlantic States.

Under "Production by kinds of woods," on page 15, errors on the part of mills in reporting black gum under red gum in previous years are pointed out. The 1915 schedule sent to mills indicated that black gum should be reported under tupelo, and the result was a largely increased reported cut of this species in the Atlantic and Central States.

TABLE 25.—Reported production of tupelo lumber, 1915.

[Computed total production in United States, 170,000 M feet b. m.]

State.	Principal species cut.	Number of active mills reporting.	Quantity reported, M feet b. m.	Per cent.	Average value per M feet f. o. b. mill.
United States.....		636	153,001	100.0	\$12.25
Louisiana.....	Cotton gum.....	45	62,402	40.8	12.79
North Carolina.....	Black gum.....	40	16,758	11.0	11.67
Virginia.....	do.....	39	15,832	10.3	11.49
Alabama.....	Cotton gum.....	30	14,546	9.5	11.23
South Carolina.....	Black gum.....	17	7,922	5.2	12.02
Mississippi.....	Cotton gum.....	40	7,844	5.1	12.80
Kentucky.....	Black gum.....	34	5,822	3.8	10.97
All other States (see Summary, p. 40).	do.....	74	5,198	3.4	12.50
		317	16,677	10.9	.....

WHITE FIR.

White fir is cut only in the West. White fir (*Abies concolor*), also called balsam fir, is the principal source of white fir lumber in all the Western States except Oregon, Washington, Idaho, and Montana. Other species, sold as white fir and therefore here included under that name, are grand fir (*Abies grandis*), silver fir (*Abies amabilis*) sometimes called amabilis fir, noble fir (*Abies nobilis*), red fir (*Abies magnifica*), and alpine fir (*Abies lasiocarpa*). The cut of white fir lumber in Idaho and Montana is increasing.

TABLE 26.—*Reported production of white fir lumber, 1915.*

[Computed total production in United States, 125,048 M feet b. m.]

State.	Principal species cut.	Number of active mills reporting.	Quantity reported, M feet b. m.	Per cent.	Average value per M feet f. o. b. mill.
United States.....		236	121,653	100.0	\$10.94
California ¹	White fir; red fir.....	45	50,820	41.8	11.61
Idaho.....	Grand fir.....	57	42,906	35.3	10.80
Oregon.....	Noble fir.....	51	12,592	10.3	9.41
Washington.....	Silver fir.....	27	6,783	5.6	9.11
Montana.....	Grand fir.....	6	6,510	5.3	10.40
All other States (see Summary, p. 38).		50	2,042	1.7	.....

¹ Includes 2 mills in Nevada.

SUGAR PINE.

Sugar pine (*Pinus lambertiana*) is the largest pine in the United States. The wood resembles white pine, and the uses of the two are similar. The estimated total cut of 117,701,000 feet is based on 114,494,000 feet reported by 42 mills in California and 615,000 feet reported by 2 mills in Oregon. The species grows in no other States. The average value for California was \$17.41 and for Oregon \$15.00.

BALSAM FIR.

One species furnishes all of the balsam fir lumber produced. This is the common balsam fir or balsam (*Abies balsamea*), which is lumbered in the Northeast and in the Lake States.

TABLE 27.—*Reported production of balsam fir lumber, 1915.*

[Computed total production in United States, 100,000 M feet b. m.]

State.	Number of active mills reporting.	Quantity reported, M feet b. m.	Per cent.	Average value per M feet f. o. b. mill.
United States.....	545	71,358	100.0	\$13.79
Maine.....	235	37,279	52.2	14.08
Minnesota.....	76	14,159	19.9	12.65
Vermont.....	94	8,849	12.4	14.28
Michigan.....	39	4,491	6.3	13.99
New Hampshire.....	46	3,705	5.2	13.82
Wisconsin.....	39	2,446	3.4	13.61
All other States (see Summary, p. 38).	16	429	.6	.....

HICKORY.

Several species of hickory are cut for lumber in this country; the wood grows naturally nowhere else in the world. The species cut most are shagbark (*Carya ovata*), shellbark (*Carya laciniosa*), pig-nut (*Carya glabra*), bitternut (*Carya cordiformis*), and mockernut (*Carya alba*). The Lower Mississippi and the Ohio Valleys supply the bulk of the hickory lumber. Industries which use the largest quantities of hickory prefer it in the form of blanks, squares, or billets. It is usually more profitable to saw hickory into such dimension stock than into lumber. Since in each of the principal producing States all the commercial hickories are cut, no segregation by species can be indicated in the table.

TABLE 28.—*Reported production of hickory lumber, 1915.*

[Computed total production in United States, 100,000 M feet b. m.]

State.	Number of active mills report- ing.	Quantity reported, M feet b. m.	Per cent:	Average value per M feet f. o. b. mill.
United States.....	2,526	86,015	100.0	\$23.35
Arkansas.....	144	13,443	15.6	23.76
Tennessee.....	205	11,933	13.9	24.08
West Virginia.....	205	9,372	10.9	21.81
Kentucky.....	181	8,708	10.1	22.21
Indiana.....	274	7,150	8.3	26.29
Ohio.....	312	6,851	8.0	24.07
Missouri.....	120	5,236	6.1	27.03
Pennsylvania.....	264	4,453	5.2	20.04
Louisiana.....	15	3,770	4.4	24.35
Mississippi.....	51	3,220	3.7	23.10
All other States (see Summary, p. 40).....	755	11,879	13.8	.....

WALNUT.

Walnut lumber is cut from the common black walnut (*Juglans nigra*), which grows throughout the eastern half of the country, but is most available in the Central States. Values for walnut were higher in 1915 than for previous years, and the cut therefore greater. The demand for gunstock material accounts for this. In Illinois practically all of the walnut reported was cut by two or three mills which specialized on gunstocks, and so the average value for Illinois is higher than for other States, where the larger number of mills reporting included many cutting low grade lumber only.

TABLE 29.—*Reported production of walnut lumber, 1915.*

[Computed total production in United States, 90,000 M feet b. m.]

State.	Number of active mills reporting.	Quantity reported, M feet b. m.	Per cent.	Average value per M feet f. o. b. mill.
United States.....	1,293	65,144	100.0	\$48.47
Missouri.....	86	17,954	27.6	48.78
Indiana.....	223	11,267	17.3	44.83
Tennessee.....	205	9,123	14.0	44.28
Illinois.....	33	7,077	10.9	62.59
Ohio.....	149	6,917	10.6	48.21
Iowa.....	45	4,439	6.8	45.76
Kentucky.....	149	4,007	6.1	45.36
All other States (see Summary, p. 40).....	403	4,360	6.7	-----

LODGEPOLE PINE.

Lodgepole pine (*Pinus contorta*) is a small tree cut for common lumber in the northern Rocky Mountain States. It is also extensively utilized for hewn railroad ties.

TABLE 30—*Reported production of lodgepole pine lumber, 1915.*

[Computed total production in United States, 26,486 M feet b. m.]

State.	Number of active mills reporting.	Quantity reported, M feet b. m.	Per cent.	Average value per M feet f. o. b. mill.
United States.....	134	22,672	100.0	\$13.57
Colorado.....	32	9,800	43.2	12.44
Wyoming.....	42	8,737	38.6	14.00
Montana.....	19	1,684	7.4	14.14
Utah.....	14	1,387	6.1	16.49
Idaho.....	26	1,054	4.7	15.78
Washington.....	1	10	(1)	10.00

¹ Less than one-tenth of 1 per cent.**SYCAMORE.**

The common sycamore (*Platanus occidentalis*) furnishes the lumber of this name. The central Mississippi Valley States form the principal producing region.

TABLE 31—*Reported production of sycamore lumber, 1915.*

[Computed total production in United States, 25,000 M feet b. m.]

State.	Number of active mills reporting.	Quantity reported, M feet b. m.	Per cent.	Average value per M feet f. o. b. mill.
United States.....	876	19,729	100.0	\$13.83
Arkansas.....	42	4,645	23.5	13.72
Indiana.....	199	3,309	16.8	14.36
Tennessee.....	80	2,739	13.9	12.66
Missouri.....	104	2,144	10.9	14.55
Kentucky.....	94	1,678	8.5	13.17
Ohio.....	105	1,522	7.7	15.53
All other States (see Summary, p. 40).....	252	3,692	18.7	-----

MINOR SPECIES.

Woods cut in too small quantities to be presented in separate tables are included under minor species. Some of the species are native and some foreign. The foreign woods are imported in log form and sawed at special mills located in the States designated in Table 32.

True mahogany (*Swietenia mahagoni* and *S. macrophylla*) comes from tropical America. Other so-called mahoganies come from Africa, South America, India, and the Philippines.

Black willow (*Salix nigra*) is sawed into lumber in the lower Mississippi Valley.

Cherry (*Prunus serotina*) is a scarce but valuable tree, and is cut in many Eastern States.

Buckeye (*Aesculus octandra*) is a tree cut for lumber and often known as yellow buckeye.

Cucumber (*Magnolia acuminata*) is cut in Ohio, North Carolina, New York, and intervening States. The lumber frequently goes to market as "poplar saps" or the sapwood of yellow poplar.

Magnolia (*Magnolia grandiflora*), also known in the South as evergreen magnolia, furnishes the magnolia lumber of commerce.

Hackberry (*Celtis occidentalis*) and sugarberry (*Celtis mississippiensis*) are both cut as hackberry lumber, mostly in the Southern States.

Black (or yellow) locust (*Robinia pseudacacia*) is usually made into insulator pins, tree nails, and hubs, but seldom into lumber. It is very durable, and some of the lumber reported may have been sawed posts. Honey locust (*Gleditsia tricanthos*) was probably the source of most of the locust lumber.

Butternut (*Juglans cinerea*), although much less valuable than walnut, is occasionally cut in the Northern and Central States.

Pecan (*Carya pecan*) is a southern tree of the hickory family, more valuable for nuts than lumber, and with inferior wood.

Most of the eucalyptus lumber comes from blue gum (*Eucalyptus globulus*), which is an Australian tree, successfully planted in California. Other species are growing in California and sometimes furnish sawlogs.

Box elder (*Acer negundo*) is a member of the maple family, but supplies inferior lumber.

Red alder (*Alnus rubra*) is one of the few Pacific coast hardwoods.

Spanish cedar (*Cedrela odorata*) is imported in large quantities to make cigar-box veneer, and is sometimes sawed into lumber.

Sassafras (*Sassafras variifolium*) is sometimes cut in hardwood operations.

Limber pine (*Pinus flexilis*) is a scarce Rocky Mountain species, supplying inferior "white pine" lumber.

Hornbeam (or ironwood) (*Ostrya virginiana*) is cut in the North when a very tough wood is wanted.

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

Holly (*Ilex opaca*) yields a white wood similar to maple.

Osage orange, or Bois d'Arc (*Maclura pomifera*), is usually cut into vehicle stock.

TABLE 32.—*Minor species, 1915.*

[Computed total production in United States, 47,893 M feet b. m.]

Kind of wood.	Number of active mills reporting.	Quantity reported, M feet b. m.	Average value per M feet f. o. b. mill.	States reporting.
Total.....		37,825	.....
Mahogany.....	5	14,036	\$101.13	Louisiana, Kentucky, Indiana, Tennessee, Ohio.
Willow.....	21	8,355	10.99	Mississippi, Tennessee, Louisiana, Arkansas, Missouri, Iowa, New York, New Jersey, Pennsylvania, Indiana.
Cherry.....	436	6,992	23.69	West Virginia, New York, Pennsylvania, North Carolina, Indiana, Ohio, Virginia, Tennessee, Michigan, Vermont, Wisconsin, Massachusetts, New Hampshire, Arkansas, Alabama, Connecticut, Kentucky.
Buckeye.....	41	3,930	15.01	North Carolina, West Virginia, Virginia, Tennessee, Kentucky, Alabama, Iowa, New York.
Cucumber.....	24	945	22.06	West Virginia, North Carolina, New York, Pennsylvania, Ohio, Maryland.
Magnolia.....	9	731	16.49	Mississippi, Louisiana, Texas.
Hackberry.....	22	671	15.03	Arkansas, Alabama, Oklahoma, Mississippi, Indiana, Texas, Missouri, Michigan, Illinois.
Locust.....	46	618	15.15	Arkansas, Tennessee, West Virginia, Virginia, New York, Illinois, North Carolina, Iowa, Indiana, Missouri, Pennsylvania, Maryland, Connecticut, Texas.
Butternut.....	64	499	19.65	West Virginia, Wisconsin, Indiana, New York, Pennsylvania, North Carolina, Vermont, Virginia, Michigan, Tennessee.
Pecan.....	8	247	16.36	Kansas, Texas, Oklahoma, Missouri.
Eucalyptus.....	1	200	.....	California.
Boxelder.....	3	134	20.98	North Carolina.
Alder.....	1	120	.....	Washington.
Spanish cedar.....	2	113	63.50	Kentucky, California.
Sassafras.....	9	62	.....	Tennessee, Arkansas, North Carolina, Ohio.
Limber pine.....	2	55	14.00	Colorado, Wyoming.
Persimmon.....	8	38	24.48	Arkansas, Tennessee, South Carolina, Missouri.
Silverbell.....	2	35	.....	North Carolina.
Hornbeam.....	7	29	24.70	New Hampshire, Pennsylvania, Michigan, New York.
Jenisero.....	1	5	.....	California.
Holly.....	3	5	24.00	Alabama, North Carolina, South Carolina.
Osage orange.....	1	5	.....	Oklahoma.

LATH.

Data on the production of lath were secured for 1915 and supply a gap existing in forest products statistics since 1912. The 1915 reported lath cut was 2,745,134,000, and it is estimated that the total cut was 3,250,000,000. Table 33 compares the 1915 and 1912 production of lath in the principal producing States. The number of active mills reporting each year, as well as the cut for each year, is given for the principal States. Lath are mostly manufactured by large sawmills. In both 1915 and 1912 reports were secured from prac-

tically all the large sawmills active, and the reported production of lath in the two years is therefore very close to the actual total. It follows then that, since the 1915 reported cut is greater than the 1912 reported cut and since only two-thirds as many mills reported in 1915 as in 1912, the production of lath increased from 1912 to 1915. This increase came in a poor lumber year; but the demand for lath has increased since 1912 largely because of stucco construction.

The reported total cut of lath for several years previous to 1912 was as follows: 1911, 2,971,110,000; 1910, 3,494,718,000; 1909, 3,703,195,000.

TABLE 33.—*Reported production of lath, 1915 and 1912.*

[Computed total 1915 cut, 3,250,000 thousand.]

State.	Number of active mills reporting.		Quantity reported, thousands.	
	1915	1912	1915	1912
United States.....	1,689	2,586	2,745,134	2,719,163
Louisiana.....	66	65	418,554	330,474
Washington.....	71	69	389,995	336,538
Minnesota.....	54	74	230,686	269,095
Wisconsin.....	116	192	179,193	257,657
Maine.....	122	172	172,346	210,023
Michigan.....	74	135	124,543	173,415
Mississippi.....	29	22	123,011	81,315
Virginia.....	101	222	97,921	71,356
Arkansas.....	48	42	97,185	90,216
North Carolina.....	106	116	96,474	94,086
Oregon.....	28	32	95,801	131,734
Florida.....	23	26	89,860	51,078
Idaho.....	29	20	85,672	50,895
West Virginia.....	70	121	82,561	159,119
All other States (see Summary, p. 40).....	752	1,278	461,332	412,162

SHINGLES.

Shingle production statistics, formerly secured annually, were omitted for 1913 and 1914, but were secured for 1915. Table 34 compares the 1915 cut with that for 1912. Both the cut of shingles and the number of mills reporting are shown, and the principal shingle-producing States listed. While many more mills reported for 1912 than for 1915, it is thought that the 1915 figures reflect conditions pretty accurately. Especially is the figure for Washington, which supplies 75 per cent, very close to the actual total cut. The data for Washington were secured by the Portland (Oreg.) district office of products, which is in close touch with the Washington shingle mills. Many small shingle mills in the eastern half of the country were not reached. However, figures were secured from practically all of the larger mills, and so the statistics are presumably correct in indicating a big drop in shingle

production since 1912. As the table shows, the 1915 reported cut was 8,459,378,000, the estimated total 9,500,000,000, and the 1912 reported cut 12,037,685,000. The decrease is partly due to increased imports from British Columbia. The reported total figures for previous years are: 1911, 12,113,867,000; 1910, 12,976,362,000; 1909, 14,907,371,000.

TABLE 34.—*Reported production of shingles, 1915 and 1912.*

[Computed total 1915 cut, 9,500,000 thousand.]

State.	Number of active mills reporting.		Quantity reported, thousands.	
	1915	1912	1915	1912
United States.....	1,648	3,615	8,459,378	12,037,685
Washington.....	239	387	6,313,335	7,996,251
Louisiana.....	45	51	385,610	718,026
Oregon.....	48	66	336,652	271,205
Maine.....	187	277	268,004	393,772
Michigan.....	63	159	250,640	459,359
California.....	25	61	200,755	471,592
Wisconsin.....	77	159	122,882	267,945
Florida.....	31	76	116,054	309,081
North Carolina.....	125	303	74,773	196,943
Georgia.....	111	240	69,308	216,688
Alabama.....	82	78	67,629	126,205
Arkansas.....	31	184	20,501	114,458
All other States (see Summary, p. 40).....	584	1,574	233,235	496,160

LUMBER VALUES.

Average or mill-run values, f. o. b. mill, have been compiled in connection with every lumber census since 1899 except for 1905, 1913, and 1914. The need of such data by the Government and the trade led to their collection for 1915.

Values for the principal woods in the most important States are given in preceding tables in this bulletin. Table 35 gives the average value of the same woods for all years for which such data are available. The prices for the years 1899 to 1910, inclusive, were compiled from replies made by the mills reporting production for those years; a great many mills are therefore represented. The values for 1911 were compiled from a former quarterly Forest Service publication, "Record of Wholesale Prices of Lumber," which was based on quarterly reports received from about 1,000 large mills throughout the United States and reports for the year from a special list of 5,000 mills. The 1912 values came entirely from the "Record of Wholesale Prices of Lumber." Since the larger mills ordinarily get better prices than the smaller establishments, the 1912 values in Table 35 are somewhat higher than the actual average values of lumber cut in that year. The 1915 values were compiled from replies received from about one-half of the mills reporting their

cut. These mills were well distributed as to size and regions, and the results are therefore very representative but not absolute.

Since the values given in the bulletin are averages for 12 months for mills located at different points in each State, they should not be understood to be wholesale quotations f. o. b. any point at any particular time.

TABLE 35.—*Average value of lumber per thousand feet, board measure, by kinds of wood, for specified years, 1899 to 1915.*

Kind of wood.	1915	1912 ¹	1911	1910	1909	1908	1907	1906	1904	1899
All kinds.....	\$14.04	\$15.35	\$15.05	\$15.30	\$15.38	\$15.37	\$16.56	\$16.54	\$12.76	\$11.13
Softwoods:										
Yellow pine.....	12.41	14.36	13.87	13.29	12.69	12.66	14.02	15.02	9.96	8.46
Douglas fir.....	10.59	11.58	11.05	13.09	12.44	11.97	14.12	14.20	9.51	8.67
White pine.....	17.44	19.13	18.54	18.93	18.16	18.17	19.41	18.32	14.93	12.69
Hemlock.....	13.14	13.68	13.59	13.85	13.95	13.65	15.53	15.31	11.91	9.98
Spruce.....	16.58	17.02	16.14	16.62	16.91	16.25	17.26	17.33	14.03	11.27
Western yellow pine.....	14.32	13.62	13.88	14.26	15.39	15.03	15.67	14.01	11.30	9.70
Cypress.....	19.85	20.09	20.54	20.51	20.46	21.30	22.12	21.94	17.50	13.32
Redwood.....	13.54	14.13	13.99	15.52	14.80	15.66	17.70	16.64	12.83	10.12
Cedar.....	16.10	² 14.45	13.86	15.53	19.95	18.03	19.14	18.12	14.35	10.91
Larch (tamarack).....	10.78	² 11.96	11.87	12.33	12.68	12.20	13.99	13.50	11.39	8.73
White fir.....	10.94	9.86	10.64	11.52	13.10	11.38	15.45	12.91	(⁴)	(⁴)
Sugar pine.....	17.40	(⁴)	17.52	18.68	18.14	17.78	19.84	16.11	(⁴)	(⁴)
Balsam fir.....	13.79	(⁴)	13.42	14.48	13.99	14.36	16.16	(⁴)	(⁴)	(⁴)
Lodgepole pine.....	13.57	(⁴)	12.41	14.88	16.25	(⁴)	(^{4})	(^{4})	(^{4})	(^{4})
Hardwoods:										
Oak.....	18.73	19.63	19.14	18.76	20.50	21.23	21.23	21.76	17.51	13.78
Maple.....	15.21	15.56	15.49	16.16	15.77	16.30	16.84	15.53	14.94	11.83
Red gum.....	12.54	12.60	12.11	12.26	13.20	13.08	14.10	13.46	10.87	9.63
Chestnut.....	16.17	16.62	16.63	16.23	16.12	16.27	17.04	17.49	13.78	13.37
Yellow poplar.....	22.45	24.06	25.46	24.71	25.39	25.30	24.91	24.21	18.99	14.03
Birch.....	16.52	17.43	16.61	17.37	16.95	16.42	17.37	17.24	15.44	12.50
Beech.....	14.01	13.51	14.09	14.34	13.25	13.50	14.30	14.05	(⁴)	(⁴)
Basswood.....	18.89	19.26	19.20	20.94	19.50	20.50	20.03	18.66	16.86	12.84
Elm.....	16.98	16.87	17.13	18.67	17.52	18.40	18.45	18.08	14.45	11.47
Ash.....	22.15	20.27	21.21	22.47	24.44	25.51	25.01	24.35	18.77	15.84
Cottonwood.....	17.36	⁵ 20.44	18.12	17.78	18.05	17.76	18.42	17.15	14.92	10.37
Tupelo.....	12.25	13.61	12.46	12.14	11.87	13.36	14.48	14.13	(⁴)	(⁴)
Hickory.....	23.35	23.29	22.47	26.55	30.80	29.66	29.50	30.42	23.94	18.78
Walnut.....	48.47	(⁴)	31.70	34.91	42.79	42.53	43.31	42.25	45.64	36.49
Sycamore.....	13.86	(⁴)	13.16	14.10	14.77	14.67	14.58	(⁴)	(⁴)	11.04

¹ 1912 values based on limited number of reports.

² Western red cedar only.

³ Western larch only.

⁴ Data not obtained.

⁵ Southern cottonwood only.

DETAILED SUMMARY.

Table 36 summarizes the figures in preceding tables, and in addition shows the amounts of each kind of wood cut in each State. Softwoods and hardwoods are separated in order to show the production by States of the two general kinds of lumber.

TABLE 36.—Active sawmills (cutting 50 M³ and over), and reported production of each kind of lumber and shingles, by States, 1915.

Texas.....	234	1,618	565	1,	558	459	1,	557	270	1,	325	1,	325	1,	188	1,	188	1,	726	1,	726	1,	1,387
Utah.....	73	10	832	10	832	10	832	10	832	10	832	10	832	10	832	10	832	10	832	10	832	10	832
Wyoming.....	338	198	319	123	342	123	342	123	342	123	342	123	342	123	342	123	342	123	342	123	342	123	342
Wyoming.....	1,245	919	492	627	275	627	275	627	275	627	275	627	275	627	275	627	275	627	275	627	275	627	275
Wyoming.....	389	3,726	3,433	3	812	3	812	3	812	3	812	3	812	3	812	3	812	3	812	3	812	3	812
West Virginia.....	510	967	304	270	164	270	164	270	164	270	164	270	164	270	164	270	164	270	164	270	164	270	164
Wisconsin.....	383	1,135	740	704	116	704	116	704	116	704	116	704	116	704	116	704	116	704	116	704	116	704	116
Wyoming.....	62	15	168	15	167	15	167	15	168	15	167	15	168	15	167	15	168	15	167	15	168	15	167

¹ Includes 2 mills in Nevada.

² Includes 1 mill in Nevada.

TABLE 36.—*Active sawmills (cutting 50 M. and over) reporting, and reported production of each kind of lumber and lath and shingles, by States, 1915—Continued.*

Hardwoods, in M feet b. m.												
State.	Total.	Oak.	Maple.	Red gum.	Chestnut.	Yellow poplar.	Beech.	Basswood.	Beech.	Tulipwood.	Cottonwood.	Lath-thor-sands (1,689 mills reporting).
United States.....	5,801,049	2,070,444	771,223	478,090	399,473	377,386	355,328	303,835	207,607	177,748	159,910	153,001
Alabama.....	100,858	37,088	880	18,829	166	22,808	2	620	140	247	1,736	14,546
Arizona.....	2	2	223,752	4,144	153,091	396	120	65	36	17,055	18,957	3,505
Arkansas.....	464,124	223,752	802	1,179	1,179	120	120	120	120	23,389	13,443	1,045
California.....	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	2,577	2,577	20,501
Colorado.....	40,910	9,680	5,697	5,697	5,697	27,351	415	367	335	111	69	441
Connecticut.....	5,697	2,604	338	338	338	400	306	220	10	29	2	50
Delaware.....	12,060	1,758	236	5,927	4,127	20,467	236	61	152	115	271	2,005
Florida.....	56,413	20,467	1,040	1,040	1,040	22,660	1,917	3,099	3	545	125	755
Georgia.....	227,275	74,304	8,017	8,017	8,017	159,652	8,106	508	5,842	328	31,316	4,122
Illinois.....	198,075	80,355	1,537	1,537	1,537	222,964	4,987	6,960	15,508	49,164	1,754	2,161
Indiana.....	18,022	5,385	1,058	1,058	1,058	30,388	4,306	30,606	39,540	550	20,578	4,746
Iowa.....	49,883	8,881	2,318	2,318	2,318	227,275	74,304	8,017	8,017	27	138	1,407
Kentucky.....	52,893	8,881	1,537	1,537	1,537	1,537	1,537	1,537	1,537	1,537	1,537	1,537
Louisiana.....	33,188	6,844	6,844	6,844	6,844	1,167	1,167	1,167	1,167	1,167	1,167	1,167
Maine.....	41,220	8,974	1,265	1,265	1,265	276,348	89,469	1,110	285	2	173	162
Maryland.....	179,394	95,435	5,763	5,763	5,763	5,763	5,763	5,763	5,763	5,763	5,763	5,763
Massachusetts.....	158	158	158	158	158	158	158	158	158	158	158	158
Michigan.....	43,176	8,881	8,881	8,881	8,881	30,797	13,155	12,233	13,301	601	1,016	2,064
Minnesota.....	30,797	8,881	8,881	8,881	8,881	276,348	89,469	1,110	285	2	173	162
Mississippi.....	173,622	21,617	45,407	45,407	45,407	1,167	1,167	1,167	1,167	1,167	1,167	1,167
Missouri.....	173,622	21,617	45,407	45,407	45,407	1,167	1,167	1,167	1,167	1,167	1,167	1,167
Montana.....	1,158	1,158	1,158	1,158	1,158	1,158	1,158	1,158	1,158	1,158	1,158	1,158
New Hampshire.....	43,176	8,881	8,881	8,881	8,881	1,167	1,167	1,167	1,167	1,167	1,167	1,167
New Jersey.....	30,797	8,881	8,881	8,881	8,881	1,167	1,167	1,167	1,167	1,167	1,167	1,167
New Mexico.....	173,622	21,617	45,407	45,407	45,407	1,167	1,167	1,167	1,167	1,167	1,167	1,167
New York.....	227,632	9,014	5,409	14,811	40,866	33,108	2,322	1,637	6,129	3,114	3,423	16,758
North Carolina.....	11,423	7,818	3,36	8,472	29,175	545	31,923	7,914	13,815	6,917	5,722	4,717
Oklahoma.....	575	575	575	575	575	575	575	575	575	575	575	575
Oregon.....	315,509	125,581	52,190	61,316	61,316	61,316	61,316	61,316	61,316	61,316	61,316	61,316
Pennsylvania.....	6,510	1,553	245	245	245	4,553	15	50	50	50	50	50
Rhode Island.....	1,158	1,158	1,158	1,158	1,158	1,158	1,158	1,158	1,158	1,158	1,158	1,158
Shingles, thousands (1,689 mills reporting).	5,801,049	2,070,444	771,223	478,090	399,473	377,386	355,328	303,835	207,607	177,748	159,910	153,001

South Carolina.....	49,667	7,253	937	21,821	9,230	75	234	1,775	7,922	101	102	10	203	4	13,350	11,854
South Dakota.....	105	.....	.....	.....	6,168	4,688	7,825	15,233	1,149	10,446	11,933	9,123	2,305	7,292	7,292	436
Tennessee.....	390,970	210,965	7,498	24,729	28,484	46,129	1,108	6,556	4,47	513	4,030	930	1,345	1,343	24,510	7,912
Texas.....	60,106	32,564	1	18,003	.....	.....	45	.....	.....	.....	.....	49	291	265	49,638	22,245
Utah.....	72	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	72	.....	.....	.....	734
Vermont.....	74,777	3,285	22,119	.....	265	.....	27,352	9,162	6,200	1,003	3,188	2,103	33	14	.....	53
Virginia.....	292,218	165,592	7,180	13,255	35,573	40,899	845	2,321	5,131	148	1,371	15,832	358	1,027	719	294
Washington.....	531	.....	150	76,934	2,041	117,989	100,863	17,715	38,952	26,956	80	.....	161	9,372	1,477	923
West Virginia.....	696,639	291,261	13,658	122,016	1	.....	161,833	2,238	73,929	42,534	13,733	1,486	25	120	389,995	49,758
Wisconsin.....	431,624	13,624	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	31	121	82,501	736
Wyoming.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	11	179,193	122,882	785

¹ Limber pine.

APPENDIX.

THE PRODUCTION OF LUMBER IN 1914.

Since no bulletin dealing with the 1914 lumber cut has been issued, a summary table similar to the preceding is included in this bulletin in order to make the detailed 1914 figures available to the public.

[TABLE 37.—Number of active sawmills (cutting 50 M. and over) reporting and quantity of lumber reported by States and kinds of wood, 1914.

New Mexico.....	36	57,167	57,167	1,145	54,728	1,294	55,823	640	27	257
New York.....	1,440	486,195	236,332	72,110	107,475	55,823	64,828	16,940	4,983	30
North Carolina.....	2,824	2,227,854	1,865,854	1,715,158	23,885	40,630	334	140	140	15,072
Oklahoma.....	787	286,063	2,499	1,825	.....	.....	.....	.....	23,766	11,703
Oklahoma.....	228	200,594	161,020	161,020	140	120	120	120	2	1
Oregon.....	403	1,817,875	1,809,336	1,495,073	795	45,192	63,488	1,114	1,114	17
Pennsylvania.....	1,755	864,710	344,026	16,564	71,215	256,130	120	400	565	.....
Rhode Island.....	198	15,302	6,358	2,150	4,020	65	.....	.....	23,714	.....
South Carolina.....	728	701,540	631,570	600,891	400	565	565	565	565	.....
South Dakota.....	32	18,744	18,744	18,744	.....	18,744	18,744	18,744	18,744	.....
Tennessee.....	1,830	885,035	164,776	100,872	9,758	35,551	1,903	9,089	9,089	7,003
Texas.....	365	1,534,905	1,511,700	1,500,577	226	5,056	1,065	2,112	11	.....
Utah.....	67	8,080	8,400	70	15,435	42,119	84,870	.....	.....	867
Vermont.....	462	249,608	150,572	70	31,226	330	8,570	12,905	12,905	1,142
Virginia.....	2,159	1,488,070	1,027,166	961,521	12,714	207,459	175,126	180,277	180,277	7,186
Washington.....	512	3,946,189	3,944,373	3,027,994	26,958	175,452	10,931	291,284	291,284	3,473
West Virginia.....	913	1,116,480	308,171	14,446	223,433	590,484	6,692	19,502	19,502	.....
Wisconsin.....	467	1,391,001	864,360	.....	910	34	2,227	5,049	5,049	2,017
Wyoming.....	56	11,852	11,852	14,882	14,882	12,086	12,086	12,086	12,086	2,724
All other States ¹	7	15,672	14,882	.....	.....	.....	.....	.....	72	5,606

¹ Includes Kansas, Nebraska, and Nevada.

TABLE 37.—Number of active sawmills (cutting 50 M and over) reporting and quantity of lumber reported by States and kinds of wood, 1914.—Contd.

Hardwoods, in M feet, b. m.											
State.	Total.	Oak (15,352 mills).	Maple (5,006 mills).	Red gum (2,229 mills).	Chest- nut, wood (4,387 mills).	Beech (3,923 mills).	Birch (2,538 mills).	Yellow poplar (4,859 mills).	Bass- wood (3,130 mills).	Cotton- wood (1,019 mills).	Ash (3,649 mills).
United States.....	7,939,184	3,278,908	909,743	675,380	540,591	519,221	430,667	376,464	284,656	214,294	195,198
Alabama.....	149,544	79,057	476	29,818	334	20,181	4	178	275	571	3,145
Arkansas.....	572,755	292,040	2,328	190,008	500	160	2	16,141	27,571	18,172	1,917
Colorado.....	3,458	2,790	133	.....	.....	.....	.....	.....	133	74	2,489
Connecticut.....	66,458	13,466	678	47,801	770	633	502	170	45	70	1,057
Delaware.....	6,328	5,000	232	540	112	8	1	5	5	5	944
Florida.....	11,270	519	2,141	1,062	10	162	60	422	1,387	964	1,603
Georgia.....	78,061	35,779	216	13,070	3,631	19,878	10	16,141	115	2,437	1,360
Idaho.....	43	.....	.....	.....	.....	.....	.....	.....	45	210	7
Illinois.....	62,338	33,711	2,802	4,321	7	1,325	1	841	19	5,375	2,724
Indiana.....	298,550	132,260	29,341	9,132	542	11,071	88	51,779	5,268	22,507	6,017
Iowa.....	11,423	2,316	5,009	.....	.....	30	.....	574	4,722	11,014	1,129
Kentucky.....	551,074	370,153	6,457	11,321	20,372	72,523	624	23,659	8,692	6,466	1,948
Louisiana.....	313,368	88,619	54,176	54,176	194	.....	12	1,78	1,884	5,622	1,948
Maine.....	49,675	10,647	7,076	22,746	3,231	1,980	106	3,231	1,980	1,917	1,972
Maryland.....	88,127	44,537	5,884	4,823	23,129	4,611	1,214	1,214	1,78	62	450
Massachusetts.....	31,928	4,798	5,185	13,140	4,307	4,282	946	58	378	1,361	60
Michigan.....	637,989	9,407	370,271	44	84,312	70,357	43,508	41,790	8,364	8,893	219
Minnesota.....	53,596	7,793	599	.....	6,854	9,685	9,685	2,509	22,395	4,646	8,086
Mississippi.....	385,431	154,822	847	145,342	15,939	.....	580	1	43,285	1,915	1,915
Missouri.....	279,707	173,325	6,942	51,000	267	303	102	171	16,736	1,873	3,158
Montana.....	92	.....	.....	.....	.....	.....	.....	.....	62	60	45
New Hampshire.....	53,802	16,644	8,613	4,180	16,713	5,458	702	34	382	1,155	391
New Jersey.....	25,183	10,432	367	736	11,515	1,037	79	45	274	30	432
New York.....	249,833	26,717	76,544	20,509	29,660	45,461	24,370	12,776	1,574	11,534	51
North Carolina.....	362,000	184,808	35,121	43,002	54,105	49,751	2,400	1,541	1,447	6,401	49
Oklahoma.....	283,564	134,709	36,834	2,112	6,016	18,187	289	35,563	7,288	14,411	666
Oregon.....	39,574	29,221	75	.....	.....	.....	5	.....	681	4,360	2,008
Pennsylvania.....	8,539	6,201	1,114	.....	.....	.....	.....	.....	339	809	339
Rhode Island.....	529,684	235,605	23,212	388	115,396	10,728	15,903	49,137	8,324	1,183	6,980
South Carolina.....	6,544	2,034	228	6,815	10,724	11,793	10	25	20,217	1,877	1,119
Tennessee.....	69,970	16,270	363	35,444	413	11,793	11,919	7,257	13,764	8,289	2,827
Texas.....	720,259	440,746	6,455	46,178	93,241	1,350	11,919	3,450	17,002	1,837	1,113
	12,305	25,776	6,724	.....	.....	.....	3	3	262	1,832	3,744

Minor
species,
M foot,
b. m.(603
mills).

55,624

230

617

3,404

94

143

2,012

99

376

9,065

217

5,200

9,210

3,285

284

9,065

221

321

212

365

34

34

2,400

677

1,178

75

3,828

4,2

Utah.....	220	3,258	34,184	65	33,872	15,797	5,273	768	1,498	4,428	200	20
Vermont.....	99,036	292,646	5,701	17,637	60,374	65,777	968	2,766	7,779	1	1,019	1,355
Virginia.....	460,904	330	67,376	6,742	111,795	119,710	19,270	47,424	31,992	75	2,681	263
Washington.....	1,316	378,745	156,363	15,440	190,468	4,257	92,077	51,640	812	6,520	9,601	293
West Virginia.....	810,309	15,641	235	790	526,641	51,640	85	515	515	5	27	152
Wisconsin.....												4,719
All other States ¹												240

¹ Includes Kansas and Nebraska.

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