

## TRIMMINGS (NOT MADE IN TEXTILE MILLS) AND STAMPED ART GOODS FOR EMBROIDERING

Description of the industry.—This industry embraces establishments engaged primarily in the manufacture of dress and coat trimmings, millinery trimmings, tucking, pleating, hemstitching, bias bindings, crochet goods, and stamped art goods for embroidering. Women's scarfs and women's neckwear, which were treated as products of this industry at the census for

1927, are now classified in the women's clothing industry. At the censuses for 1925 and earlier years the manufacture of trimmings (other than those made in textile mills) and stamped art goods for embroidering formed a part of the "Millinery and lace goods, not elsewhere classified" industry. No comparable statistics are therefore available for years prior to 1929.

TABLE 1.—GENERAL STATISTICS, BY STATES: 1929<sup>1</sup>

(This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments. See GENERAL EXPLANATIONS—Establishments Covered—Size)

STATE	Number of establishments	Salaried officers and employes <sup>2</sup>	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>3</sup>	Value added by manufacture <sup>4</sup>
				Total	Primo movers	Motors run by purchased energy			Total	Materials	Fuel and purchased electric energy		
United States.....	630	1,426	7,034	3,008	218	2,850	\$3,786,252	\$9,761,881	\$20,783,220	\$20,425,476	\$367,750	\$45,170,033	\$24,306,707
California.....	24	20	172	60	2	64	47,008	202,720	222,483	216,428	6,055	681,751	469,268
Illinois.....	33	112	717	144	-----	144	414,810	811,132	2,220,318	2,213,785	15,533	4,410,939	2,181,015
Maryland.....	8	8	65	20	-----	20	8,501	62,440	212,670	210,112	2,558	383,309	170,630
Massachusetts.....	17	26	112	35	-----	35	61,057	121,033	401,384	484,539	6,845	802,308	370,924
Minnesota.....	6	15	62	14	-----	14	35,702	54,655	111,092	110,417	1,575	267,828	155,836
Missouri.....	16	29	134	69	-----	69	70,741	130,651	200,088	282,843	7,240	681,784	391,701
New York.....	452	1,052	5,402	1,852	12	1,840	2,662,718	7,327,330	14,704,533	14,438,405	266,128	32,671,471	17,366,938
Ohio.....	14	17	134	44	4	40	46,030	141,680	125,491	121,263	4,198	481,110	355,610
Oregon.....	4	-----	25	21	-----	21	-----	22,121	10,206	8,900	1,306	58,931	48,725
Pennsylvania.....	32	26	242	170	-----	170	41,955	244,807	422,067	407,074	14,093	1,027,236	605,160
Other States <sup>5</sup> .....	33	121	779	627	200	427	361,631	643,294	1,662,990	1,630,780	32,210	4,253,872	2,290,873

<sup>1</sup> No statistics available for earlier years. See "Description of the industry," above.

<sup>2</sup> Not including 466 proprietors and firm members. The total number of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry was 9,826.

<sup>3</sup> The figures refer to sales (shipments or deliveries) by manufacturers. See GENERAL EXPLANATIONS—Value of Products.

<sup>4</sup> Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

<sup>5</sup> Colorado, 2 establishments; Connecticut, 3; Georgia, 2; Iowa, 2; Kentucky, 1; Michigan, 3; Nebraska, 1; New Jersey, 12; Rhode Island, 1; Vermont, 1; Washington, 2; Wisconsin, 3.

## CENSUS OF MANUFACTURES: 1929

TABLE 2.—PRODUCTS, BY KIND AND VALUE, BY STATES: 1929

[The figures refer to sales (shipments or deliveries) by manufacturers. See GENERAL EXPLANATIONS—Value of Products. Statistics are given for each State which can be shown separately without disclosing data for individual establishments. In some cases, however, certain of the "Other States" reported larger values of the specified products than some of the States shown separately]

KIND AND STATE	Value	KIND AND STATE	Value
1. Trimmings and stamped art-goods industry, all products, total value.....	\$45,170,933	Trimmings and stamped art goods—Continued.	
2. Trimmings and stamped art goods.....	38,199,800	Trimmings—Continued.	
3. Other products (not normally belonging to the industry).....	5,850,009	Tucking, pleating, and hemstitching—Continued.	
4. Receipts for contract work.....	1,121,124	New Jersey.....	\$45,400
5. Trimmings and stamped art goods made as secondary products in other industries, value.....	727,166	New York.....	9,630,840
Trimmings and stamped art goods, all Industries:		Ohio.....	166,372
Aggregate value (sum of 2 and 5).....	38,926,955	Oregon.....	48,351
Trimmings, total.....	26,047,564	Pennsylvania.....	299,294
Dress and coat trimmings, total.....	1,660,867	Other States (Colo., Conn., Ga., Iowa, Ky., Mich., Nebr., R. I., Wash., Wis.).....	179,441
New York.....	1,552,078	Bias bindings, total.....	13,243,209
Other States (Ill., Minn., Ohio, Pa.).....	108,789	Missouri.....	283,176
Tucking, pleating, and hemstitching, total.....	11,743,488	New York.....	7,830,580
California.....	288,835	Pennsylvania.....	548,367
Illinois.....	649,855	Other States (Calif., Conn., Ill., Md., Mass., Mich., N. J., Ohio).....	4,581,086
Maryland.....	40,773	Stamped art goods for embroidering.....	12,270,392
Massachusetts.....	159,400	California.....	178,712
Minnesota.....	60,988	Illinois.....	2,409,130
Missouri.....	173,930	Minnesota.....	133,171
		New York.....	8,370,293
		Other States (Ga., Iowa, Md., Mass., Mich., Mo., Nebr., Ohio, Oreg., Pa., Vt., Wis.).....	1,191,176

TABLE 3.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS, ELECTRIC MOTORS, AND GENERATORS; QUANTITY OF ELECTRIC ENERGY PURCHASED: 1929<sup>1</sup>

TYPE	Number	Capacity	TYPE	Number	Capacity
Prime movers and electric motors driven by purchased energy, aggregate.....	3,180	Horsepower 3,068	Electric motors, totals.....	3,266	Horsepower 3,104
Prime movers (steam engines).....	8	218	Driven by purchased energy.....	3,172	2,850
Electric motors driven by purchased energy.....	3,172	2,850	Driven by energy generated in establishments reporting.....	94	254
			Electric generators.....	2	160
			Electric energy purchased <sup>2</sup> .....		Kilowatt-hours 4,364,967

<sup>1</sup> No statistics available for earlier years. See "Description of the industry," p. 347.  
This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.

TABLE 4.—WAGE EARNERS, BY MONTHS, BY STATES: 1929<sup>1</sup>

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Percent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
United States.....	7,034	8,042	8,282	<b>8,382</b>	8,184	7,928	7,617	<i>7,047</i>	7,547	8,205	8,234	7,938	7,802	84.1
California.....	172	151	155	167	166	175	158	<i>149</i>	192	195	195	190	176	76.4
Illinois.....	717	744	774	742	701	693	698	<i>620</i>	704	778	747	707	700	79.7
Maryland.....	65	68	68	67	69	63	62	<i>62</i>	63	63	63	63	69	89.9
Massachusetts.....	112	107	118	119	115	111	110	<i>99</i>	103	116	120	114	106	82.5
Minnesota.....	62	62	65	59	57	57	54	<i>57</i>	66	71	67	68	64	76.1
Missouri.....	134	134	130	140	134	137	130	<i>130</i>	132	130	139	131	128	91.4
New York.....	5,492	5,027	5,740	<b>5,891</b>	5,096	5,466	5,253	<i>4,769</i>	5,125	5,044	5,711	5,528	5,483	81.4
Ohio.....	134	147	140	142	149	144	125	<i>127</i>	127	124	125	127	132	83.2
Oregon.....	26	22	24	30	23	23	24	<i>23</i>	23	21	28	26	25	63.6
Pennsylvania.....	242	217	244	251	260	251	243	<i>236</i>	233	256	251	239	216	80.3

<sup>1</sup> No statistics available for earlier years. See "Description of the industry," p. 347.

# UPHOLSTERING MATERIALS, NOT ELSEWHERE CLASSIFIED

Description of the industry.—The establishments assigned to this industry are those whose principal products are curled hair and ginned moss, for use as upholstering materials. Some of them also report such products as jute-fiber batting, sisal-fiber filling,

palm-leaf fiber, carpet padding, gimps and binding for automobile upholstery, and tassels. The industry does not include the manufacture of upholstering fabrics in textile mills.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1909 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>	Horsepower
1929	53	1,410	\$1,317,371	\$7,046,334	\$11,234,192	\$4,187,868	3,015
1927	39	1,080	1,162,456	6,550,109	9,672,806	3,116,607	4,482
1925	34	1,106	1,171,463	5,123,777	7,907,832	2,875,055	3,380
1923	35	1,218	1,270,830	4,637,787	7,611,270	3,163,492	3,442
1921	35	740	685,520	2,687,712	4,081,273	1,393,561	(3)
1919	51	1,557	1,370,633	4,704,722	8,691,295	3,809,573	4,333
1914	70	2,454	1,100,525	5,285,118	7,878,867	2,503,080	6,198
1909	109	2,621	1,076,136	5,210,380	8,260,182	3,010,793	(5)
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929	(9)	30.6	13.3	7.5	16.1	31.1	-12.7
1925-1927	(9)	-0.7	-1.0	28.0	20.9	8.4	32.6
1923-1925	(9)	-1.2	-8.2	12.9	4.7	7.4	38.4
1921-1923	(9)	08.6	86.7	68.8	87.2	122.7	
1919-1921	(9)	-52.5	-50.3	-43.9	-61.1	-61.3	
1919-1929	(9)	-0.1	-1.5	47.0	20.2	7.1	-9.8
1909-1919	-53.2	-40.6	23.2	-8.1	5.3	28.2	

<sup>1</sup> For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.

<sup>2</sup> Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

<sup>3</sup> Not called for on schedule.

<sup>4</sup> No comparable figures available for years prior to 1909.

<sup>5</sup> Not tabulated separately.

<sup>6</sup> Per cent not computed where base is less than 100.

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929 AND 1927

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups. Certain of the States, however, for which statistics are shown in combination with those for others reported larger values of products than some of the States shown separately]

STATE	Census year	Number of establishments	Salaried officers and employees <sup>1</sup>	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
					Total	Prime movers	Motors run by purchased energy			Total	Materials	Fuel and purchased energy		
United States	1929	53	183	1,410	3,915	1,800	2,025	\$612,789	\$1,317,371	\$7,046,334	\$6,999,814	\$130,520	\$11,234,192	\$4,187,868
	1927	39	171	1,080	4,482	1,641	2,841	541,076	1,162,456	6,550,109	6,390,346	166,763	9,672,806	3,116,607
	1910	61	180	1,557	4,338	2,075	2,263	460,100	1,370,633	4,704,722	4,677,645	117,177	8,691,295	3,809,573
Individual States:														
California	1929	5	7	47	137	50	87	13,831	65,730	284,830	281,070	3,700	447,670	163,134
	1927	4	14	83	512	200	312	32,679	107,127	498,427	488,828	9,599	801,160	362,733
Louisiana	1929	19	19	307	627	457	170	32,520	96,613	743,004	734,791	9,113	1,030,062	290,058
	1927	12	20	131	400	285	115	32,084	57,260	651,085	646,504	4,581	823,525	169,440
Pennsylvania	1929	5	38	255	740	590	159	141,574	255,711	1,412,338	1,378,377	33,961	2,403,570	691,232
	1927	5	43	270	852	595	257	153,445	297,315	1,581,625	1,561,770	19,249	2,434,687	753,662
Groups of States:														
Conn., 1 est.; Mass., 3; N. Y., 2	1929	6	42	205	323	11	311	115,037	180,680	1,662,335	1,617,558	14,777	2,420,509	764,174
Fla., 4 est.; Tex., 1	1929	5	2	30	187	107	80	5,000	18,602	81,188	80,788	400	182,567	161,370
Ill., 3 est.; Ind., 1	1929	4	45	295	520	300	220	162,827	395,793	1,276,476	1,240,169	36,307	2,518,458	1,241,082
Mich., 3 est.; Minn., 1; Ohio, 1	1929	5	20	232	1,157	375	782	122,450	254,015	1,315,068	1,282,813	32,255	2,153,532	838,454
Other States (Md., 2, est.; Mo., 1; N. C., 1)	1929	4	10	30	216		216	19,550	40,561	270,180	264,242	5,947	364,634	61,445
States not shown separately	1927	18	94	596	2,718	501	2,157	322,068	700,754	3,825,572	3,792,238	123,334	5,656,434	1,830,802

<sup>1</sup> Not including proprietors and firm members, as follows: For 1929, 31; 1927, 22; 1919, 41. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 1,024; 1927, 1,273; 1919, 1,778.

<sup>2</sup> The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products.

<sup>3</sup> Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

<sup>4</sup> Separate State statistics not available.

<sup>5</sup> Connecticut, 1 establishment; Florida, 1; Illinois, 2; Indiana, 1; Maryland, 2; Massachusetts, 2; Michigan, 3; Minnesota, 2; New Jersey, 2; New York, 1; Ohio, 1.

## CENSUS OF MANUFACTURES: 1929

TABLE 3.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, AND 1919, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		PER CENT DISTRIBUTION OF RATED HORSE-POWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
Prime movers and electric motors driven by purchased energy, aggregate.....	386	Horse-power 3,915	283	Horse-power 4,482	220	Horse-power 3,380	420	Horse-power 4,338	100.0	100.0
Prime movers, total.....	31	1,800	22	1,641	20	1,800	38	2,075	48.3	47.8
Steam, total.....	19	1,690	11	1,460	20	1,635	27	1,060	43.2	45.2
Engines.....	18	1,640	11	1,400	20	1,635	(1)	(1)	41.9	-----
Turbines.....	1	60	-----	-----	-----	-----	(1)	(1)	1.3	-----
Internal-combustion engines.....	11	189	9	166	8	164	10	95	4.8	2.2
Water wheels and water turbines.....	1	11	2	15	1	10	1	20	0.3	0.4
Electric motors driven by purchased energy.....	355	2,025	261	2,841	200	1,671	382	2,263	51.7	52.2
Electric motors, total.....	437	3,649	347	4,016	265	2,336	300	2,378	100.0	100.0
Driven by purchased energy.....	355	2,025	261	2,841	200	1,571	382	2,263	55.5	55.2
Driven by energy generated in establishments reporting.....	82	1,624	86	1,175	65	765	8	115	44.5	4.8
Electric generators.....	5	Kilowatts 653	8	Kilowatts 848	6	Kilowatts 753	(2)	(2)	-----	-----
Electric energy purchased <sup>1</sup> .....	-----	Kilowatt-hours 1,707,793	-----	(4)	-----	(4)	-----	(2)	-----	-----

<sup>1</sup> Not called for separately on schedule.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.

<sup>4</sup> Data incomplete.

TABLE 4.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929 AND 1925, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum	
		January	February	March	April	May	June	July	August	September	October	November	December		
United States:															
1929.....	1,410	1,362	1,430	1,408	1,420	1,380	1,357	<b>1,352</b>	1,375	1,398	1,440	1,405	1,493	80.4	
1925 <sup>1</sup> .....	1,190	1,188	1,200	1,206	1,194	1,193	<i>1,166</i>	1,171	1,200	1,213	1,215	1,218	1,196	94.0	
California.....	47	43	44	45	40	48	59	<i>42</i>	46	49	48	47	40	84.0	
Louisiana.....	307	<b>286</b>	280	299	308	307	307	307	310	331	318	312	307	86.4	
Pennsylvania.....	255	245	251	252	262	267	251	<i>240</i>	249	260	268	264	258	89.6	

<sup>1</sup> No comparable figures available for years prior to 1925.

# WASTE

Description of the industry.—The establishments classified in this industry are those engaged in cleaning or otherwise preparing purchased waste of cotton, wool, or other fiber by the use of pickers or similar machines, and in the manufacture of wiping rags and oakum.

**TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929**

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>	Horsepower
1929	136	3,005	\$3,310,344	\$25,633,015	\$30,013,705	\$10,380,600	18,502
1927	118	3,404	2,852,071	23,049,393	33,377,276	10,327,883	14,520
1925	105	3,033	2,600,827	20,765,941	38,942,595	9,176,654	13,064
1923	88	2,745	2,408,612	26,247,902	33,700,725	8,462,823	12,347
1921 <sup>3</sup>	87	1,803	1,428,747	12,632,418	16,791,004	4,168,586	( <sup>4</sup> )
1919	98	2,810	2,224,872	22,719,612	30,688,825	7,964,213	11,837
1914	79	3,082	1,230,018	15,472,774	17,968,827	2,485,853	8,500
1909	59	2,010	757,846	9,068,681	11,736,508	2,007,927	4,436
1904	47	1,701	543,510	7,060,100	8,704,526	1,638,336	4,015
1899	32	1,202	377,070	4,283,777	5,320,261	1,036,484	2,568
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929	15.3	11.8	10.2	11.2	7.9	0.5	28.0
1925-1927	12.4	15.2	11.0	-22.6	-14.3	12.5	8.3
1923-1925	( <sup>5</sup> )	10.5	4.1	17.9	15.6	8.0	10.7
1921-1923	( <sup>5</sup> )	47.3	72.8	99.9	100.7	103.3	-----
1919-1921	( <sup>5</sup> )	-33.7	-35.8	-44.4	-45.3	-47.8	-----
1910-1929	( <sup>5</sup> )	30.0	40.1	12.8	17.4	30.3	67.1
1909-1919	( <sup>5</sup> )	30.8	103.0	150.5	161.4	198.5	166.8
1899-1909	( <sup>5</sup> )	50.3	100.5	111.7	120.0	157.4	72.7

<sup>1</sup> For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.  
<sup>2</sup> Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.  
<sup>3</sup> Statistics for 1921 do not include data for 2 establishments reporting oakum as their principal product, and therefore are not strictly comparable with those for other years.  
<sup>4</sup> Not called for on schedule.  
<sup>5</sup> Per cent not computed where base is less than 100.

**TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919**

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups. Certain of the States, however, for which statistics are shown in combination with those for others reported larger values of products than some of the States shown separately. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Census year	Number of establishments	Salaried officers and employ-ees <sup>1</sup>	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
					Total	Prime movers	Motors run by purchased energy			Total	Materials	Fuel and purchased energy		
United States	1929	136	597	3,005	18,502	4,392	14,200	\$2,084,732	\$3,310,344	\$25,633,015	\$25,168,125	\$104,800	\$30,013,705	\$10,380,600
	1927	118	497	3,404	14,520	4,116	10,413	1,509,340	2,852,071	23,049,393	22,000,029	389,364	33,377,276	10,327,883
	1919	98	466	2,810	11,837	4,705	7,072	1,279,684	2,224,872	22,719,612	22,470,482	249,130	30,688,825	7,964,213
Individual States:														
California	1920	6	6	66	303	-----	303	25,060	44,512	403,460	393,486	9,980	520,535	120,069
	1927	8	9	86	389	50	339	20,196	77,634	607,040	497,399	9,641	698,047	191,097
Georgia	1929	5	47	482	2,293	538	1,755	135,295	250,567	2,750,429	2,733,076	20,353	3,541,207	781,778
Illinois	1920	10	42	278	1,051	125	926	247,701	314,554	2,118,351	2,000,365	48,986	3,095,858	977,607
	1927	11	48	277	1,020	410	610	160,254	267,627	2,188,003	2,141,706	46,497	3,136,571	948,568
	1919	4	19	113	560	20	540	120,040	106,401	946,161	934,055	12,106	1,802,437	356,276
Massachusetts	1929	10	78	469	2,726	935	1,791	282,863	448,456	3,877,532	3,808,470	69,062	5,035,910	1,158,387
	1927	11	44	186	1,941	575	406	118,096	198,592	1,625,000	1,593,582	31,418	2,113,831	488,831
	1919	6	28	114	770	000	170	97,183	101,987	1,420,447	1,408,900	17,487	1,751,743	325,290
Michigan	1929	5	30	160	413	195	218	71,220	147,841	624,077	601,742	22,335	1,006,767	472,090
	1927	6	29	138	340	175	165	53,013	129,540	632,476	607,802	24,583	979,211	346,730
Missouri	1929	4	25	180	243	-----	243	45,030	96,058	776,514	758,885	17,629	1,121,042	345,428
New Jersey	1929	7	71	265	2,127	929	1,198	321,821	270,436	2,333,049	2,293,849	39,200	3,172,734	830,085
	1927	5	34	139	1,164	675	480	134,392	140,176	1,517,698	1,497,731	19,907	2,190,443	672,745
	1919	5	43	191	755	295	460	114,560	170,899	1,745,004	1,720,798	24,206	2,165,821	420,817
New York	1929	15	44	381	2,323	120	2,203	177,558	420,291	1,460,519	1,412,391	48,128	2,596,028	1,136,409
	1927	15	64	461	2,438	306	2,132	280,649	528,579	3,515,405	3,437,203	78,202	4,042,282	1,420,877
	1919	10	64	474	2,247	-----	2,247	217,565	407,312	3,748,675	3,713,446	35,229	4,865,006	1,146,991

See footnotes at end of table.

## CENSUS OF MANUFACTURES: 1929

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919—Continued

[See note at head of this table]

STATE	Census year	Number of establishments	Salaried officers and employees <sup>1</sup>	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
					Total	Prime movers	Motors run by purchased energy			Total	Materials	Fuel and purchased energy		
Individual States—Contd.														
Ohio	1929	8	29	144	923	260	603	\$68,636	\$120,582	\$1,001,478	\$27,023	\$1,588,166	\$586,688	
	1927	4	15	80	612	85	527	53,015	78,942	772,921	760,496	1,102,439	329,518	
Pennsylvania	1929	26	104	441	1,067	400	1,567	338,208	480,502	4,330,950	51,822	6,072,851	1,741,871	
	1927	28	111	512	2,264	685	1,569	361,631	531,566	4,431,568	62,975	6,613,743	2,182,175	
	1919	44	133	702	2,085	1,469	1,216	370,248	614,295	5,945,729	5,871,355	8,413,231	2,467,502	
Wisconsin	1929	4	15	145	604	150	544	29,755	140,266	908,168	18,754	1,131,830	223,671	
	1927	5	17	152	438	225	213	31,343	142,056	828,268	809,020	1,240,603	418,335	
Groups of States:														
Ala., 1 est.; N. C., 3	1929	4	21	280	900		900	78,633	136,500	2,765,036	10,612	3,272,090	507,054	
Colo., 2 est.; Tex., 3	1929	5	22	161	468		468	68,561	100,347	872,058	860,414	1,362,038	489,980	
Conn., 2 est.; Mo., 3; N. H., 1; R. I., 2	1929	8	17	162	1,202	495	797	38,839	154,540	460,264	421,363	801,400	341,142	
Ind., 2 est.; Ky., 1	1929	3	17	66	113		113	34,373	41,540	214,850	203,475	427,730	212,889	
Other States (Md., 2 est.; Minn., 3; S. C., 1; Va., 1)	1929	7	20	206	756	245	511	90,270	141,262	727,244	700,158	1,166,686	439,442	
States not shown separately.	<sup>4</sup> 1927	25	126	1,457	4,833	930	3,003	374,751	758,359	7,031,015	6,946,598	10,354,106	3,323,001	
	<sup>5</sup> 1919	20	140	1,216	4,907	2,381	2,526	359,488	824,978	8,907,596	8,821,868	12,154,927	3,247,331	

<sup>1</sup> Not including proprietors and firm members, as follows: For 1929, 79; 1927, 86; 1919, 65. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 4,581; 1927, 4,077; 1919, 3,331.

<sup>2</sup> The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products.

<sup>3</sup> Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

<sup>4</sup> Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919 but not in the United States totals.

<sup>5</sup> Alabama, 1 establishment; Colorado, 2; Connecticut, 1; Georgia, 4; Indiana, 2; Kentucky, 1; Maine, 1; Maryland, 2; Minnesota, 1; Missouri, 2; New Hampshire, 1; North Carolina, 2; Rhode Island, 1; South Carolina, 1; Texas, 2; Virginia, 1.

<sup>6</sup> California, 4 establishments; Connecticut, 1; Georgia, 1; Indiana, 1; Kentucky, 1; Maryland, 1; Michigan, 1; Minnesota, 1; Missouri, 1; New Hampshire, 1; New Jersey, 1; North Carolina, 2; Ohio, 4; Oregon, 1; Rhode Island, 1; South Carolina, 1; Texas, 3; and Wisconsin, 3.

TABLE 3.—PRODUCTS, BY CLASS, QUANTITY, AND VALUE, BY STATES: 1929 AND 1927

[The figures refer to sales (shipments or deliveries) by manufacturers. See GENERAL EXPLANATIONS—Value of Products. Figures are given for each State which can be shown separately without disclosing data for individual establishments. In some cases, however, certain of the "Other States" reported larger quantities and values than one or more of the States shown separately.]

CLASS	1929		1927	
	Pounds	Value	Pounds	Value
1. "Waste" industry, all products, total value		\$36,013,705		\$33,377,276
2. Processed waste		33,015,368		32,180,213
3. Other products (not normally belonging to the industry)		2,341,615		765,981
4. Amount received for contract work		656,722		431,082
5. Processed waste made as a secondary product in other industries, value		252,102		1,206,075
Processed waste, all industries:				
Aggregate value (sum of 2 and 5)		33,267,530		33,476,288
Cotton waste, total	282,090,430	17,938,574	201,600,944	18,298,405
Georgia	28,694,867	2,318,320	( <sup>1</sup> )	( <sup>1</sup> )
Illinois	11,290,048	1,007,168	11,442,966	1,217,911
Massachusetts	61,399,664	3,278,905	( <sup>1</sup> )	( <sup>1</sup> )
Pennsylvania	39,493,429	3,030,894	40,484,300	3,808,507
Other States (Ala., Calif., Colo., Conn., Ind., Mo., Mich., Minn., Mo., N. H., N. J., N. Y., N. C., Ohio, R. I., S. C., Tex., Wis., 1929)	141,203,422	8,303,287	209,073,600	13,271,087
Wool waste, total	23,185,963	3,694,478	40,893,800	4,203,422
Massachusetts	4,175,999	1,053,484	( <sup>1</sup> )	( <sup>1</sup> )
Pennsylvania	8,016,959	1,098,148	11,901,971	1,507,300
Other States (Calif., Colo., Conn., Ill., Ind., Mo., Mich., Minn., Mo., N. H., N. J., N. Y., N. C., Ohio, R. I., Tex., Wis., 1929)	10,993,995	1,542,846	34,991,829	2,600,122
Other processed waste and oakum, total	22,077,652	3,320,082	90,015,875	4,490,494
Massachusetts	763,866	269,641	( <sup>1</sup> )	( <sup>1</sup> )
Pennsylvania	4,876,330	505,810	26,014,305	141,102
Other States (Calif., Colo., Conn., Ga., Ill., Ky., Md., Minn., Mo., N. H., N. J., N. Y., N. C., R. I., S. C., Va., 1929)	17,547,456	2,544,631	64,001,570	4,349,392
Wiping rags, total		8,314,306		6,483,067
California		400,754		( <sup>1</sup> )
Illinois		1,352,632		1,358,188
Michigan		962,302		( <sup>1</sup> )
New York		411,092		716,703
Ohio		937,821		( <sup>1</sup> )
Pennsylvania		1,025,905		1,048,052
Other States (Colo., Ga., Ind., Ky., Md., Mass., Minn., Mo., N. J., N. C., R. I., Tex., Wis., 1929)		3,223,880		3,301,024

<sup>1</sup> Included in "Other States."

TABLE 4.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSE-POWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
Prime movers and electric motors driven by purchased energy, aggregate	1,066	Horse-power 18,592	810	Horse-power 14,529	678	Horse-power 13,004	471	Horse-power 11,837	211	Horse-power 8,600	100.0	100.0
Prime movers, total	49	4,392	53	4,116	45	3,485	55	4,765	61	5,754	23.0	40.3
Steam, total	43	3,877	35	3,447	32	2,812	32	3,841	44	4,005	20.8	32.5
Engines	41	3,769	35	3,447	29	2,612	29	2,575	(1)	(1)	20.3	21.8
Turbines	2	108			3	200	3	1,266	(1)	(1)	0.5	10.7
Internal-combustion engines	1	15	4	78	8	273	15	430	8	159	0.1	3.7
Water wheels and water turbines	5	500	14	501	5	400	8	485	9	600	2.7	4.1
Electric motors driven by purchased energy	1,017	14,200	757	10,413	633	10,179	416	7,072	150	2,752	70.4	59.7
Electric motors, total	1,024	14,313	768	10,868	643	10,504	437	7,977	212	3,741	100.0	100.0
Driven by purchased energy	1,017	14,200	757	10,413	633	10,179	416	7,072	150	2,752	99.2	88.7
Driven by energy generated in establishments reporting	7	113	30	455	10	325	21	905	62	989	0.8	11.3
Electric generators	11	Kilowatts 717 Kilowatt-hours	8	Kilowatts 860	4	Kilowatts 285	(2)	(2)	(2)	(2)		
Electric energy purchased <sup>1</sup>		11,263,167		(1)		(1)		(1)		(1)		

<sup>1</sup> Not called for separately on schedule.  
<sup>2</sup> Not called for on schedule.  
<sup>3</sup> This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.  
<sup>4</sup> Data incomplete.

TABLE 5.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, 1914, AND 1909, AND BY STATES, 1929

(This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures)

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
United States:														
1929	3,905	3,944	3,948	3,073	5,094	3,940	3,871	3,931	3,918	3,850	3,897	3,840	3,741	93.7
1925	3,033	<i>2,986</i>	2,994	3,014	3,080	3,028	3,043	<i>2,989</i>	3,009	2,997	3,004	3,105	3,061	94.2
1919	2,810	2,714	<i>2,581</i>	2,623	2,601	2,689	2,788	2,932	3,021	2,878	2,910	2,957	2,966	85.4
1914	3,082	3,091	3,172	3,219	3,080	3,130	3,180	2,976	3,149	3,068	3,100	2,910	2,885	89.6
1909	2,010	1,970	2,017	2,068	1,984	2,067	2,000	2,063	1,963	<i>1,951</i>	2,032	2,028	2,043	94.3
California	66	65	<i>64</i>	66	65	67	68	67	69	69	<i>64</i>	66	67	92.8
Georgia	482	527	522	513	548	470	462	462	469	468	451	454	<i>456</i>	79.6
Illinois	278	274	280	281	282	289	288	287	281	279	274	268	<i>266</i>	88.6
Massachusetts	469	466	<i>445</i>	457	455	465	483	477	480	474	471	451	463	89.0
Michigan	160	<i>157</i>	157	140	140	152	150	182	186	187	169	164	159	73.3
Missouri	189	194	191	196	182	185	192	190	208	193	186	172	181	87.1
New Jersey	205	200	201	270	274	250	256	267	256	263	250	249	<i>248</i>	85.2
New York	381	381	385	368	380	383	374	385	385	<i>349</i>	390	395	361	88.1
Ohio	144	146	142	141	147	142	149	145	159	147	145	153	143	86.0
Pennsylvania	441	449	437	452	463	468	429	429	468	437	456	463	412	87.2
Wisconsin	145	<i>142</i>	142	145	146	153	153	152	152	147	141	136	140	86.5

## WEARING APPAREL

**Industries covered.**—Statistics are presented in detail in this report for the following industries:

Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.  
Clothing, men's, buttonholes.  
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.  
Clothing, women's, not elsewhere classified.  
Collars, men's.  
Corsets and allied garments.  
Furnishing goods, men's, not elsewhere classified.  
Gloves and mittens, cloth or cloth and leather combined, made from purchased fabrics.  
Handkerchiefs.  
Shirts.  
Suspenders, garters, and other elastic woven goods, made from purchased webbing.

Descriptions of these industries are given in the respective sections of this report, beginning on page 356.

Summary statistics only are given for the following industries (see table on p. 355), but detailed statistics for these industries will be found elsewhere in this volume.

Boots and shoes, other than rubber.  
Boots and shoes, rubber.  
Fur goods.  
Gloves and mittens, leather.  
Hats, fur-felt.  
Hats, wool-felt.  
Hats, straw, men's.  
Hats and caps, except felt and straw, men's.  
Knit goods (except knit cloth).  
Millinery.

These industries may be briefly described as follows:

*Boots and shoes, other than rubber (see table on p. 355).*—The manufacture of boots, shoes, sandals, slippers, moccasins, leggings, overgaiters, and other footwear, chiefly of leather but including footwear made from canvas and other textile fabrics.

*Boots and shoes, rubber (see table on p. 355).*—The manufacture of rubber footwear of all kinds.

*Fur goods (see table on p. 355).*—The manufacture of women's, misses', and children's fur sets and furs, including boas, capes, collars, muffs, scarfs, shawls, and stoles; fur coats and cloaks; fur and fur-lined overcoats; fur hats, caps, gloves, and mittens; fur robes.

*Gloves and mittens, leather (see table on p. 355).*—The manufacture of gloves (except baseball and boxing gloves, which are

treated as products of the "Sporting and athletic goods" industry), mittens, and gauntlets from leather, lined and unlined.

*Hats, fur-felt (see table on p. 355).*—The manufacture of stiff and soft hats (chiefly for men's wear) and hat bodies, all of which are made principally from the fur of the rabbit and the hare.

*Hats, wool-felt (see table on p. 355).*—The manufacture of men's, women's, and children's hats and hat bodies from wool, wool noils, shoddy, etc.

*Hats, straw, men's (see table on p. 355).*—The manufacture of men's straw hats, and the bleaching and finishing of Panama and other straw hats. (The manufacture of straw hats for women and children is included in the "Millinery" industry.)

*Hats and caps (except felt and straw), men's (see table on p. 355).*—The manufacture of all kinds of hats and caps from cloth, and of men's silk and opera hats.

*Knit goods, except knit cloth (see table on p. 355).*—The manufacture of wearing apparel made on knitting machines, without regard to whether the yarns used are of cotton, of wool, of silk, or of other material. The products of this industry include hosiery, underwear, sweaters, bathing suits, gloves and mittens, hoods, scarfs, cardigan jackets, fancy jackets, dresses, shawls, and other fancy knit goods, but do not include clothing made in the clothing industry from purchased knitted fabric.

*Millinery (see table on p. 355).*—The manufacture of trimmed hats for women and children, hat frames, millinery trimmings (for sale as such), infants' headwear, etc. The products covered by the "Millinery" industry were given a separate classification for the first time at the census for 1927. At prior censuses they were included in the "Millinery and lace goods, not elsewhere classified" industry.

**Contract work.**—In the men's clothing and women's clothing industries a considerable amount of contract work is done on materials belonging to others by establishments engaged solely or mainly in this class of work. Because of the importance of contract work in the clothing industries, separate statistics are given in Tables 1, 2, 7, and 8 for the "Clothing (except work clothing), men's, youths', and boys', not elsewhere classified" and the "Clothing, women's not elsewhere classified" industries.

**Monthly statistics.**—The Bureau of the Census collects and publishes monthly statistics on "Men's and boys' clothing cut" and "Work clothing: Garments cut, net shipments of finished garments, and unfilled orders."

## WEARING APPAREL

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## SUMMARY FOR MANUFACTURE OF WEARING APPAREL, BY INDUSTRIES, FOR THE UNITED STATES: 1929 AND 1927

INDUSTRY	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products <sup>1</sup> and receipts for contract work
Wearing apparel (not including custom-made clothing), all industries...	1929 1927	22, 631 21, 780	1, 014, 750 962, 435	\$1, 121, 002, 030 1, 001, 237, 430	\$3, 086, 495, 491 2, 076, 826, 005	\$5, 877, 806, 505 5, 684, 041, 848
<b>Clothing:</b>						
Men's, youths' and boys', total.....	1929 1927	4, 234 4, 158	188, 361 187, 123	206, 730, 078 214, 087, 822	524, 117, 480 532, 476, 847	1, 040, 128, 192 1, 080, 388, 675
Men's, youths', and boys', except work.....	1929 1927	3, 601 3, 562	149, 868 146, 090	170, 768, 808 184, 613, 090	440, 504, 070 447, 244, 635	901, 104, 205 932, 181, 718
Work clothing.....	1929 1927	511 556	38, 201 40, 612	26, 647, 078 20, 645, 015	83, 551, 715 85, 134, 183	138, 450, 078 147, 280, 025
Buttonholes (contract work).....	1929 1927	32 40	292 412	314, 102 428, 817	60, 702 95, 029	573, 909 917, 932
Women's, not elsewhere classified.....	1929 1927	8, 082 7, 588	187, 500 154, 450	243, 851, 143 211, 340, 760	934, 413, 083 809, 520, 125	1, 709, 680, 505 1, 404, 401, 044
Shirts.....	1929 1927	863 907	50, 830 57, 216	43, 428, 224 42, 097, 827	116, 678, 496 120, 743, 737	228, 321, 016 241, 649, 039
Collars.....	1929 1927	15 24	2, 952 3, 270	2, 263, 335 2, 000, 038	3, 030, 168 5, 806, 077	8, 740, 390 13, 294, 207
Furnishing goods, men's, not elsewhere classified.....	1929 1927	508 534	26, 688 25, 183	23, 000, 301 22, 070, 330	83, 031, 818 82, 830, 400	150, 003, 003 145, 474, 143
<b>Hats and caps:</b>						
Hats, fur-felt, men's and women's.....	1929 1927	159 130	16, 539 15, 896	22, 502, 542 22, 851, 064	55, 208, 045 51, 053, 257	102, 004, 105 90, 184, 842
Hats, wool-felt, men's and women's.....	1929 1927	14 17	2, 028 2, 185	2, 314, 080 2, 284, 018	4, 678, 180 4, 784, 575	0, 055, 500 0, 381, 645
Hats, straw, men's.....	1929 1927	50 48	3, 380 3, 203	3, 687, 570 4, 232, 332	8, 704, 621 11, 782, 056	18, 738, 094 21, 717, 089
Hats and caps, men's, except felt and straw.....	1929 1927	570 508	5, 826 6, 300	7, 694, 078 9, 126, 438	16, 907, 061 20, 702, 290	35, 900, 604 41, 213, 905
Millinery.....	1929 1927	1, 293 1, 148	32, 206 33, 311	42, 715, 050 46, 787, 735	98, 080, 050 103, 480, 714	195, 093, 457 209, 404, 823
<b>Boots and shoes:</b>						
Rubber.....	1929 1927	22 22	25, 650 20, 848	20, 045, 205 32, 078, 055	34, 390, 466 43, 372, 010	102, 537, 625 124, 607, 801
Other than rubber.....	1929 1927	1, 341 1, 357	205, 040 203, 110	222, 407, 732 225, 090, 242	515, 055, 240 494, 553, 018	965, 022, 694 944, 714, 403
Fur goods.....	1929 1927	2, 855 2, 750	15, 752 10, 040	33, 320, 005 37, 670, 610	176, 106, 910 195, 322, 988	277, 592, 752 290, 015, 047
<b>Gloves and mittens not made in knitting mills:<sup>2</sup></b>						
Cloth or cloth and leather combined.....	1929 1927	125 131	9, 279 10, 200	5, 914, 275 6, 000, 708	19, 289, 234 17, 392, 166	20, 882, 058 30, 202, 152
Leather.....	1929 1927	257 282	9, 203 9, 100	9, 203, 011 8, 813, 012	20, 205, 740 19, 270, 416	39, 122, 729 36, 662, 053
Knit goods, except knit cloth.....	1929 1927	1, 738 1, 732	199, 997 183, 731	201, 641, 520 180, 000, 555	405, 008, 507 384, 790, 231	<sup>3</sup> 826, 701, 480 <sup>3</sup> 756, 277, 557
Corsets and allied garments.....	1929 1927	213 222	13, 064 13, 778	12, 446, 334 12, 402, 288	36, 035, 079 35, 394, 422	76, 802, 199 77, 218, 202
Suspenders, garters, and other elastic woven goods, made from purchased webbing.....	1929 1927	91 91	4, 341 4, 001	3, 971, 030 3, 529, 147	17, 905, 748 10, 250, 683	30, 473, 160 26, 085, 376
Handkerchiefs.....	1929 1927	105 115	6, 014 6, 650	4, 635, 901 5, 264, 147	16, 342, 735 18, 205, 237	29, 553, 777 31, 588, 220

<sup>1</sup> The 1929 figures for the following industries represent manufacturers' sales (shipments or deliveries): "Hats, fur-felt," "Hats, wool-felt," "Hats, straw, men's," "Hats and caps, except felt and straw, men's," "Millinery," "Boots and shoes, rubber," "Fur goods," "Corsets and allied garments," and "Suspenders, garters, and other elastic woven goods made from purchased webbing." The 1929 figures for all other industries and the 1927 figures for all industries refer to production.

<sup>2</sup> For value of gloves and mittens made in knit-goods establishments, see footnote 3.

<sup>3</sup> Includes value of gloves and mittens as follows: For 1929, \$3,786,204; for 1927, \$7,337,808.

# CLOTHING (EXCEPT WORK CLOTHING), MEN'S, YOUTHS', AND BOYS', NOT ELSEWHERE CLASSIFIED

Description of the industry.—This industry embraces establishments engaged primarily in the manufacture of men's, youths', and boys' outer clothing, such as overcoats, suits, separate coats, separate trousers, smoking and similar jackets, raincoats, and bathing suits made from purchased fabric, and the manufacture of parts of garments, such as shoulder pads, pockets, coat fronts, and padding, when done by establishments engaged primarily in the manufacture of such commodities. The inclusion of the latter

necessarily results in some duplication in the figures for cost of materials and value of products for the industry as a whole. The manufacture of work clothing, fur and fur-lined garments, hats, gloves and mittens, boots and shoes, and hosiery, and of underwear and outerwear made in knitting mills, is not included, as these products are classified in other industries. Custom tailor shops also are not included. (See "Contract work," p. 354, and Tables 1, 2, 7, and 8.)

**TABLE 1.—CLOTHING (EXCEPT WORK), MEN'S, YOUTHS', AND BOYS'—SUMMARY FOR ALL FACTORIES, REGULAR FACTORIES, AND CONTRACT SHOPS, FOR THE UNITED STATES: 1923 TO 1929**

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Paid for contract work	Cost of materials, fuel, and purchased electric energy	Value of products and receipts for contract work	Value added by manufacture <sup>2</sup>	Horsepower
<b>ALL FACTORIES</b>								
1920	3,691	149,868	\$179,768,808	\$79,093,852	\$440,504,979	\$801,104,205	\$460,599,226	40,325
1927	3,562	146,099	184,613,090	94,388,418	447,244,635	632,181,718	484,937,083	34,351
1925	3,491	141,511	179,044,721	93,647,850	471,501,209	946,274,140	474,772,831	39,297
1923 <sup>3</sup>	4,024	158,173	207,252,217	109,020,852	483,926,728	1,016,721,705	532,794,977	40,250
Per cent of increase or decrease (—):								
1927-1929	3.6	2.6	-2.0	-15.3	-1.5	-3.3	-5.0	17.4
1925-1927	2.0	3.2	3.1	0.8	-5.1	-1.5	2.1	3.4
1923-1925	-13.2	-10.5	-13.6	-14.1	-2.6	-0.9	-10.0	-17.5
<b>REGULAR FACTORIES</b>								
1920	2,167	110,025	\$135,588,002	\$78,175,468	\$436,227,823	\$830,198,868	\$399,071,045	32,743
1927	2,044	106,580	137,336,239	92,630,544	442,925,901	805,424,324	422,498,423	27,465
1925	1,992	104,708	136,039,483	91,938,941	407,013,710	884,851,922	417,838,212	26,305
1923 <sup>3</sup>	2,192	117,200	157,311,481	100,411,094	478,865,014	945,457,567	460,592,553	31,276
Per cent of increase or decrease (—):								
1927-1929	6.0	3.2	-1.3	-15.6	-1.5	-3.4	-5.3	10.2
1925-1927	4.2	1.8	1.0	0.8	-5.2	-2.2	1.1	4.4
1923-1925	-10.5	-10.7	-13.5	-13.6	-2.5	-6.4	-10.4	-15.9
<b>CONTRACT SHOPS</b>								
1920	1,524	39,843	\$44,180,806	\$1,818,384	\$4,277,156	\$64,005,337	\$60,628,181	7,582
1927	1,518	39,519	47,276,851	1,757,874	4,318,734	66,757,394	62,438,040	6,886
1925	1,529	36,803	43,605,238	1,708,900	4,487,499	61,432,218	56,934,719	6,002
1923 <sup>3</sup>	1,832	40,964	49,940,736	2,009,758	5,061,714	71,264,138	66,202,424	8,974
Per cent of increase or decrease (—):								
1927-1929	0.4	0.8	-6.5	3.4	-1.0	-2.8	-2.6	10.1
1925-1927	-0.7	7.4	9.9	2.0	-3.8	8.7	9.7	-0.2
1923-1925	-16.5	-10.2	-13.9	-34.5	-11.3	-13.8	-14.0	-23.1

<sup>1</sup> The figures for all years refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products.

<sup>2</sup> Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

<sup>3</sup> No comparable data for years prior to 1923.

**TABLE 2.—CLOTHING (EXCEPT WORK), MEN'S, YOUTHS', AND BOYS'—GENERAL STATISTICS FOR ALL FACTORIES, REGULAR FACTORIES, AND CONTRACT SHOPS, BY STATES: 1929 AND 1927**

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Census year	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	Paid for contract work	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>1</sup> and receipts for contract work	Value added by manufacture <sup>2</sup>
					Total	Prime movers	Motors run by purchased energy				Total	Materials	Fuel and purchased energy		
<b>ALL FACTORIES</b>															
United States															
	1929	3,691	115,323	149,868	40,325	9,595	30,730	\$41,904,877	\$179,768,808	\$79,093,852	\$440,504,979	\$437,065,236	\$3,439,743	\$801,104,205	\$460,599,226
	1927	3,562	118,378	146,099	34,351	9,121	25,170	43,046,180	184,613,090	94,388,418	447,244,635	443,044,478	3,606,157	632,181,718	484,937,083
California	1929	85	224	2,267	506	—	509	573,919	2,659,321	263,003	4,101,841	4,068,420	33,421	9,158,860	5,057,019
	1927	59	176	1,415	220	—	220	373,661	1,871,559	122,024	2,355,248	2,332,132	23,116	5,725,970	3,370,722
Colorado	1929	5	59	467	40	—	40	130,263	364,189	—	715,572	703,611	11,961	1,443,510	727,938
Connecticut	1929	30	53	751	147	—	147	123,804	1,018,175	107,695	855,516	832,383	23,133	2,021,161	2,065,645
	1927	16	96	878	89	—	89	188,308	832,984	135,415	1,311,334	1,298,078	13,256	3,231,540	1,920,206
Florida	1929	3	—	22	4	—	4	—	14,770	1,094	6,402	6,327	75	29,289	22,887
Georgia	1929	7	37	428	103	—	103	67,188	218,433	—	801,374	851,038	10,336	1,665,144	803,770
	1927	4	16	186	25	4	21	36,240	113,567	—	428,335	423,785	4,550	709,283	280,948

See footnotes at end of table.

CLOTHING (EXCEPT WORK CLOTHING), MEN'S, YOUTHS', AND BOYS' 357

TABLE 2.—CLOTHING (EXCEPT WORK), MEN'S, YOUTHS', AND BOYS'—GENERAL STATISTICS FOR ALL FACTORIES, REGULAR FACTORIES, AND CONTRACT SHOPS, BY STATES: 1929 AND 1927—Continued

[See note at head of this table]

STATE	Census year	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	Paid for contract work	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products and receipts for contract work	Value added by manufacture
					Total	Prime movers	Motors run by purchased energy				Total	Materials	Fuel and purchased energy		
ALL FACTORIES—continued															
Illinois	1929	319	3,254	20,304	0,880	1,335	5,545	\$8,257,034	\$28,078,113	\$3,887,823	\$40,065,044	\$48,011,360	\$453,684	\$118,475,888	\$69,410,344
	1927	330	4,351	22,000	5,340	1,565	3,775	9,505,373	32,887,661	4,352,507	54,166,681	63,659,107	507,574	130,482,816	70,310,134
Indiana	1929	25	200	2,230	077	—	677	411,375	1,040,270	5,700	3,310,653	3,283,344	36,300	7,465,434	4,145,781
	1927	16	163	1,700	477	—	477	200,475	1,837,536	32,913	3,244,800	3,219,092	25,714	7,325,448	4,080,642
Iowa	1929	9	50	518	98	—	98	135,550	426,419	—	1,033,691	1,019,100	14,582	2,831,169	1,107,478
	1927	4	20	195	58	—	58	47,898	224,548	—	547,701	530,204	8,497	1,058,630	510,045
Kansas	1929	3	8	38	0	—	0	0,323	32,143	—	71,469	70,971	498	129,832	58,363
Kentucky	1929	24	135	2,180	931	575	350	322,235	1,093,550	55,881	3,769,795	3,731,734	38,061	7,440,000	3,674,901
	1927	27	216	2,466	1,029	700	329	542,754	1,042,003	38,916	4,429,501	4,301,899	37,002	7,068,133	3,528,032
Louisiana	1929	17	88	1,437	201	—	201	209,907	720,143	—	2,068,670	2,045,893	22,777	3,982,640	1,013,070
	1927	9	70	713	150	—	159	127,755	423,257	—	1,405,781	1,304,146	11,635	2,238,001	832,880
Maine	1929	9	21	311	69	—	69	35,774	238,300	280	521,380	514,706	6,674	994,154	472,768
	1927	8	20	243	56	8	48	33,278	150,402	7,000	230,548	225,868	4,680	490,182	265,634
Maryland	1929	217	851	10,007	2,514	800	1,054	1,843,470	9,015,520	4,020,350	21,551,656	21,336,350	215,267	45,270,800	23,735,153
	1927	211	1,075	8,810	2,142	777	1,365	1,820,869	8,330,204	4,220,075	18,370,208	18,172,678	197,530	30,516,720	21,545,518
Massachusetts	1929	101	512	5,551	1,498	515	983	1,440,394	6,445,578	1,477,275	15,023,152	15,770,029	144,123	30,585,340	14,052,197
	1927	107	638	6,488	1,511	440	1,065	1,047,217	7,302,633	1,684,449	17,000,073	16,917,054	178,719	33,823,280	10,726,010
Michigan	1929	22	84	1,055	108	—	108	334,355	927,428	125,032	2,170,354	2,162,105	17,240	4,414,072	2,235,618
	1927	13	72	643	165	—	165	150,019	726,017	18,208	1,835,067	1,811,270	23,791	3,340,593	1,505,528
Minnesota	1929	40	204	2,128	482	—	482	525,643	2,377,092	30,562	6,470,304	6,408,853	61,451	11,111,774	4,641,470
	1927	32	244	1,502	1,071	761	307	405,112	1,675,930	12,174	4,550,522	4,512,547	46,975	7,376,973	2,817,451
Missouri	1929	72	608	4,057	1,853	745	1,108	1,600,151	4,082,720	372,371	12,402,451	12,283,985	118,460	22,820,595	10,418,147
	1927	68	637	4,171	1,535	700	775	1,315,252	4,050,561	383,872	10,133,040	10,037,445	95,596	19,630,378	9,500,386
New Hampshire	1929	5	12	240	185	150	35	52,770	177,400	—	407,419	489,268	8,161	772,324	274,905
	1927	3	14	102	48	—	48	26,406	145,230	—	388,467	381,601	6,796	806,333	477,876
New Jersey	1929	168	345	7,010	1,485	48	1,437	1,228,548	9,143,167	1,008,978	12,260,600	12,009,593	200,007	28,880,950	16,111,359
	1927	151	335	6,522	1,200	35	1,201	1,018,318	7,025,767	1,111,187	10,788,270	10,586,002	202,274	25,784,040	14,900,664
New York	1929	1,817	5,206	47,210	10,801	2,000	8,861	15,713,002	65,148,773	60,728,917	105,820,354	104,036,360	1,183,985	307,893,064	201,573,610
	1927	1,785	6,302	49,523	10,982	2,373	8,600	16,492,406	73,647,369	60,101,385	213,106,250	211,846,167	1,320,093	443,630,188	230,472,638
Ohio	1929	130	1,275	13,215	4,180	1,520	2,608	3,742,000	16,553,057	1,880,199	36,370,042	36,137,435	241,607	68,788,120	32,406,078
	1927	148	1,552	13,318	2,584	358	2,229	3,458,429	13,504,324	2,676,341	34,567,252	34,300,781	264,471	64,015,217	30,057,065
Oregon	1929	11	53	488	171	—	171	71,760	441,458	33,270	1,070,420	1,059,652	10,768	2,101,744	1,031,324
	1927	4	67	301	78	—	78	175,480	355,383	—	1,093,855	1,080,781	7,074	2,106,838	1,012,983
Pennsylvania	1929	384	1,367	18,473	4,010	331	3,688	3,303,236	20,817,217	7,902,601	40,711,802	40,208,699	412,603	98,340,700	48,035,488
	1927	410	1,540	17,378	3,527	733	2,894	3,506,130	20,170,398	9,418,608	48,177,001	47,706,527	470,474	97,835,003	49,101,092
Tennessee	1929	11	132	1,273	855	722	133	198,029	713,693	—	1,661,841	1,630,764	31,077	3,219,005	1,558,154
	1927	8	92	1,347	253	3	250	227,639	872,876	8,061	2,338,993	2,315,524	23,469	4,200,657	1,930,094
Texas	1929	18	31	277	78	4	74	77,849	190,070	10,000	310,076	303,987	6,089	750,151	440,075
	1927	4	12	132	27	—	27	44,012	96,393	—	166,872	164,748	2,124	300,812	223,040
Virginia	1929	17	158	2,381	785	375	410	303,952	1,538,218	86,010	4,030,588	4,509,505	40,658	8,064,733	3,425,175
	1927	11	115	1,434	339	175	164	204,450	993,208	53,139	2,590,315	2,561,750	28,695	4,714,712	2,124,397
Washington	1929	9	20	119	30	—	30	30,423	160,782	—	247,618	243,637	3,981	324,594	324,594
	1927	14	31	208	77	—	77	61,233	368,466	—	516,097	510,250	5,847	1,161,001	615,994
Wisconsin	1929	37	215	2,407	1,081	415	609	750,071	2,563,056	244,392	6,878,395	6,800,849	68,546	12,028,045	5,150,250
	1927	30	310	2,559	845	450	365	810,377	3,020,773	201,467	7,807,231	7,834,321	62,910	13,882,730	5,085,505
Groups of States:															
Ala., 3 est.; N. C., 3	1929	0	20	320	100	—	100	31,248	207,517	—	207,598	200,212	7,386	501,744	294,146
Del. 6 est.; W. Va., 1	1929	10	60	732	233	—	233	130,592	500,870	1,006,834	4,220,091	4,206,653	14,248	7,744,002	3,523,191
Other States (Nebr., 7 est.; R. I., 2; S. Dak., 1; Vt., 1)	1929	11	30	101	46	—	46	64,656	101,324	102,679	1,078,525	1,070,336	3,189	1,685,944	612,410
States not shown separately	1927	30	214	1,473	318	—	318	455,183	1,033,501	900,905	5,419,091	5,384,775	35,216	10,088,569	4,608,573
REGULAR FACTORIES															
United States	1929	2,147	14,117	110,025	32,743	9,270	23,407	39,062,525	135,588,002	78,175,468	436,227,823	433,750,436	2,471,387	836,108,868	399,971,045
	1927	2,044	17,076	100,580	27,465	8,767	18,098	40,559,818	137,336,239	92,630,544	442,025,091	440,340,173	2,585,728	805,424,324	422,408,423
California	1929	43	198	1,537	441	—	441	407,271	1,702,493	90,555	3,940,628	3,924,354	25,274	7,604,070	3,744,448
	1927	29	172	1,120	180	—	180	366,428	1,481,830	112,460	2,332,077	2,315,177	16,900	5,187,020	2,855,552
Connecticut	1929	9	47	423	45	—	45	107,398	632,403	102,875	825,072	814,532	11,140	2,837,743	1,512,071
	1927	12	95	675	57	—	57	137,208	656,043	135,415	1,293,560	1,285,255	8,314	2,980,856	1,600,287
Georgia	1929	7	37	428	103	—	103	67,188	218,433	—	861,374	851,038	10,336	1,665,144	803,770
	1927	4	10	180	25	4	21	36,246	113,670	—	428,335	423,785	4,550	709,283	250,948
Illinois	1929	170	3,134	17,598	6,433	1,835	3,008	8,010,476	25,920,172	3,513,951	48,354,751	47,954,215	400,536	113,447,464	65,092,713
	1927	156	4,102	19,063	4,889	1,565	3,324	9,240,005	29,493,706	3,700,082	53,452,356	53,002,195	450,161	124,230,434	70,778,078
Iowa	1929	9	50	518	98	—	98	135,550	426,419	—	1,033,691	1,019,109	14,582	2,831,169	1,107,478
	1927	3	8	38	0	—	0	0,323	32,143	—	71,469	70,971	498	129,832	58,363

See footnotes at end of table.

CENSUS OF MANUFACTURES: 1929

TABLE 2.—CLOTHING (EXCEPT WORK), MEN'S, YOUTHS' AND BOYS'—GENERAL STATISTICS FOR ALL FACTORIES, REGULAR FACTORIES, AND CONTRACT SHOPS, BY STATES: 1929 AND 1927—Continued

[See note at head of this table]

STATE	Census year	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	Paid for contract work	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>1</sup> and receipts for contract work	Value added by manufacture <sup>2</sup>
					Total	Prime movers	Motors run by purchased energy				Total	Materials	Fuel and purchased energy		
<b>REGULAR FACTORIES—continued</b>															
Kentucky	1929	20	129	2,042	907	575	332	\$308,082	\$1,527,523	\$50,728	\$3,760,897	\$3,725,485	\$35,412	\$7,290,073	\$3,530,076
	1927	20	214	2,306	1,011	700	311	542,072	1,810,983	37,672	4,424,386	4,380,038	35,348	7,797,453	3,373,007
Maryland	1929	117	744	6,401	1,978	860	1,118	1,502,348	5,817,640	4,506,715	21,310,043	21,168,089	141,954	40,851,366	19,541,323
	1927	119	908	6,062	1,741	762	979	1,038,453	5,732,104	4,184,608	18,243,641	18,107,559	136,082	36,546,560	18,302,919
Massachusetts	1929	115	502	4,991	1,380	515	874	1,431,730	5,815,547	1,473,049	15,795,816	15,664,010	131,806	29,600,271	13,804,455
	1927	111	578	5,308	1,202	440	750	1,529,267	6,107,039	1,652,518	16,074,813	16,523,540	161,273	31,667,601	14,992,788
Minnesota	1929	36	200	2,041	467	-----	407	522,937	2,277,942	30,562	6,457,426	6,396,835	60,591	10,943,424	4,485,998
Missouri	1929	52	538	4,586	1,787	745	1,042	1,555,822	4,318,988	372,371	12,351,477	12,240,395	105,082	22,200,806	9,840,329
	1927	50	619	3,352	1,490	760	736	1,299,800	3,737,019	383,872	10,040,831	9,955,604	85,227	19,051,808	9,010,977
New Hampshire	1929	5	12	240	185	150	35	52,770	177,409	-----	497,410	480,258	8,161	772,324	274,005
	1927	3	14	102	48	-----	48	20,490	145,230	-----	388,457	381,001	6,706	860,333	477,876
New Jersey	1929	41	158	3,185	651	-----	651	758,999	3,880,673	948,744	11,761,720	11,684,721	76,999	20,663,349	8,001,629
	1927	35	183	2,472	636	-----	636	607,929	3,092,746	1,046,685	10,426,234	10,344,518	81,716	19,224,349	8,793,115
New York	1929	1,068	4,812	30,838	7,585	2,000	5,585	14,727,400	43,977,931	65,860,454	194,232,507	193,508,065	724,442	366,043,897	172,411,390
	1927	1,025	5,810	30,722	7,528	2,069	5,450	15,540,854	47,820,099	69,308,813	211,284,765	210,460,535	814,930	408,446,628	197,161,763
Ohio	1929	80	1,220	11,561	3,640	1,260	2,386	3,634,730	14,994,894	1,874,810	36,208,268	35,992,786	216,482	66,533,340	30,325,072
	1927	91	1,495	11,716	2,285	357	1,928	3,350,044	11,949,787	2,483,414	34,354,106	34,130,761	223,345	62,164,018	27,749,912
Pennsylvania	1929	228	1,182	12,000	2,800	320	2,540	2,958,358	14,713,900	7,764,243	49,320,321	49,061,434	267,887	90,180,418	40,861,097
	1927	235	1,342	11,027	2,011	674	1,937	3,174,340	14,170,005	9,258,470	47,904,826	47,480,842	420,984	89,170,550	41,374,730
Wisconsin	1929	27	200	1,001	979	415	564	709,925	1,873,330	244,392	6,753,650	6,695,187	58,463	11,088,509	4,345,156
	1927	24	309	2,422	827	480	347	814,887	2,877,865	201,467	7,889,151	7,829,600	59,551	13,690,950	5,810,799
Other States	1929	137	890	9,708	3,180	1,101	2,079	2,068,216	7,110,606	1,332,410	22,072,694	21,880,652	182,742	41,305,460	19,232,772
	1927	130	1,000	9,448	2,929	960	1,979	2,130,033	8,220,210	1,025,969	23,888,354	23,682,803	205,551	48,722,900	19,834,612
<b>CONTRACT SHOPS</b>															
United States	1929	1,524	\$1,206	\$9,843	7,582	319	7,263	2,842,352	44,180,800	1,818,884	4,277,156	3,308,800	908,356	64,065,337	60,628,181
	1927	1,618	\$1,302	\$9,519	6,880	414	6,472	2,486,371	47,276,851	1,757,874	4,318,734	3,304,305	1,014,420	60,757,394	62,438,060
California	1929	45	26	790	65	65	65	76,048	867,278	103,448	152,213	144,066	8,147	1,404,784	1,312,571
	1927	21	4	280	40	40	40	7,233	389,720	9,555	23,171	10,955	6,216	538,341	515,170
Connecticut	1929	21	6	328	102	102	102	15,406	385,772	4,820	29,844	17,851	11,903	583,418	583,574
	1927	4	1	203	32	32	32	1,040	176,041	-----	17,765	12,823	4,942	241,684	223,019
Illinois	1929	140	129	2,700	447	447	447	237,556	2,751,041	373,872	710,293	657,145	53,148	5,027,924	4,317,631
	1927	174	189	2,097	451	451	451	318,768	3,483,955	563,425	714,325	656,912	57,413	6,252,381	5,538,056
Kentucky	1929	4	6	144	24	24	24	14,153	106,027	5,153	8,808	6,249	2,649	146,723	137,825
	1927	7	2	150	18	18	18	682	125,620	1,243	5,115	2,861	2,254	160,680	155,555
Maryland	1929	100	107	3,600	536	536	536	341,122	3,197,880	113,041	241,613	168,270	73,343	4,425,443	4,183,830
	1927	92	107	2,754	401	15	386	188,416	2,007,100	39,407	126,567	65,110	61,448	3,369,160	3,242,590
Massachusetts	1929	46	10	560	109	109	109	17,664	680,031	3,620	127,336	115,019	12,317	985,078	867,742
	1927	56	60	1,180	309	309	309	117,950	1,225,594	31,931	421,860	394,414	27,446	2,155,638	1,733,823
Minnesota	1929	10	4	87	15	15	15	2,706	99,150	-----	12,678	12,018	800	108,350	155,472
Missouri	1929	20	20	371	69	69	69	53,320	363,738	-----	50,974	37,500	13,384	610,792	568,818
	1927	18	18	319	39	39	39	45,356	352,542	-----	92,209	81,841	10,368	587,570	495,361
New Jersey	1929	127	187	4,745	834	48	786	469,549	5,253,494	150,234	507,880	384,872	123,008	7,717,610	7,209,730
	1927	116	152	4,050	660	35	625	360,386	4,833,015	64,502	362,042	241,484	120,538	6,560,591	6,198,540
New York	1929	749	304	16,372	3,276	3,276	3,276	986,202	21,170,842	868,463	1,887,847	1,128,304	459,543	30,750,067	29,162,220
	1927	760	483	18,801	3,454	3,454	3,454	951,552	25,718,270	792,572	1,881,485	1,376,322	505,163	35,192,660	33,311,175
Ohio	1929	50	55	1,654	540	260	280	107,366	1,568,163	11,389	170,774	144,649	26,125	2,254,780	2,084,006
	1927	57	57	1,602	299	1	298	108,365	1,614,537	92,937	170,020	170,020	33,120	2,511,109	2,308,053
Pennsylvania	1929	156	175	6,464	1,159	11	1,148	344,938	6,103,311	138,358	381,981	237,265	144,716	8,166,372	7,784,391
	1927	184	198	6,351	1,016	59	957	331,796	6,072,363	160,138	372,175	207,635	164,490	8,159,437	7,787,262
Wisconsin	1929	10	15	560	102	102	102	40,146	624,726	-----	124,745	114,662	10,083	929,839	805,094
	1927	6	1	137	18	18	18	1,490	148,908	-----	8,089	4,721	3,359	182,786	174,706
Other States	1929	37	81	1,510	307	307	307	135,567	1,068,444	45,380	169,880	140,840	29,040	1,665,167	1,405,277
	1927	23	30	639	140	140	140	63,317	528,277	12,174	90,794	73,148	17,640	845,211	754,417

<sup>1</sup> The figures for all years refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products.

<sup>2</sup> Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

<sup>3</sup> Not including proprietors and firm members, as follows: For 1929, 3,952; 1927, 4,231. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 109,143; 1927, 108,708.

<sup>4</sup> Alabama, 2 establishments; Colorado, 3; Delaware, 3; District of Columbia, 1; Florida, 1; Kansas, 1; Nebraska, 7; North Carolina, 2; Oklahoma, 3; Rhode Island, 1; Vermont, 1; West Virginia, 5.

<sup>5</sup> Not including proprietors and firm members, as follows: For 1929, 1,931; 1927, 2,084. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 126,073; 1927, 125,740.

<sup>6</sup> Alabama, 3 establishments; Colorado, 4; Delaware, 3; Florida, 1; Indiana, 2; Louisiana, 16; Maine, 6; Michigan, 16; Nebraska, 5; North Carolina, 2; Oregon, 9; Rhode Island, 2; South Dakota, 1; Tennessee, 10; Texas, 14; Vermont, 1; Virginia, 15; Washington, 6; West Virginia, 3.

<sup>7</sup> Alabama, 2 establishments; Colorado, 3; Delaware, 2; District of Columbia, 1; Indiana, 13; Iowa, 3; Kansas, 1; Louisiana, 9; Maine, 3; Michigan, 12; Minnesota, 30; Nebraska, 7; North Carolina, 1; Oklahoma, 2; Oregon, 4; Rhode Island, 1; Tennessee, 8; Texas, 4; Vermont, 1; Virginia, 10; Washington, 3; West Virginia, 5.

<sup>8</sup> Not including proprietors and firm members, as follows: For 1929, 2,021; 1927, 2,147. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 43,070; 1927, 42,968.

<sup>9</sup> Colorado, 1 establishment; Delaware, 3; Florida, 2; Indiana, 4; Louisiana, 1; Maine, 4; Michigan, 6; Nebraska, 2; North Carolina, 1; Oregon, 2; Tennessee, 1; Texas, 4; Virginia, 2; Washington, 3; West Virginia, 1.

<sup>10</sup> Delaware, 1 establishment; Florida, 1; Indiana, 3; Iowa, 1; Maine, 5; Michigan, 1; Minnesota, 2; North Carolina, 1; Oklahoma, 1; Virginia, 1; Washington, 6.

CLOTHING (EXCEPT WORK CLOTHING), MEN'S, YOUTHS', AND BOYS' 359

TABLE 3.—CLOTHING (EXCEPT WORK), MEN'S, YOUTHS', AND BOYS'—SUMMARY FOR ALL FACTORIES, FOR LEADING STATES: 1929, 1927, 1925, AND 1923

STATE	NUMBER OF ESTABLISHMENTS				WAGE EARNERS (AVERAGE FOR THE YEAR)				WAGES			
	1929	1927	1925	1923	1929	1927	1925	1923	1929	1927	1925	1923
United States.....	3,691	3,502	3,491	4,024	149,868	146,009	141,511	168,173	\$170,768,808	\$184,013,090	\$170,044,721	\$207,252,217
Leading States.....	3,305	3,309	3,299	3,798	130,094	130,835	120,748	144,361	162,987,216	170,049,054	166,080,800	195,429,583
Per cent of total.....	89.5	94.5	94.5	94.4	86.8	91.6	85.4	85.9	95.7	92.4	97.2	94.3
Other States <sup>1</sup> .....	386	193	192	226	19,774	15,174	20,763	23,812	7,781,592	13,964,036	4,963,921	11,822,634
Per cent of total.....	10.5	5.5	5.5	5.6	13.2	10.4	14.6	14.1	4.3	7.6	2.8	5.7
<i>Leading States</i>												
New York.....	1,817	1,785	1,670	2,211	47,210	40,523	48,537	50,994	65,148,773	73,547,369	72,210,779	85,020,343
Per cent of total.....	49.2	50.1	47.8	54.9	31.5	27.7	34.3	36.0	38.2	40.8	42.5	41.0
Illinois.....	319	330	332	328	20,304	22,060	23,409	31,961	28,678,113	32,887,001	32,407,283	48,887,535
Per cent of total.....	8.6	9.3	9.5	8.2	13.5	15.1	16.6	20.2	16.8	18.2	18.9	23.6
Pennsylvania.....	384	419	414	470	18,473	17,878	15,080	16,516	20,817,217	20,176,368	18,373,419	17,678,410
Per cent of total.....	10.4	11.8	11.9	11.7	12.3	11.9	10.7	10.5	11.6	10.9	10.3	8.5
Ohio.....	130	148	164	154	13,215	13,318	12,652	12,024	16,553,057	13,564,324	15,026,096	13,592,055
Per cent of total.....	3.5	4.2	4.7	3.8	8.8	9.1	8.9	7.0	9.2	7.3	8.4	6.6
Maryland.....	217	211	208	184	10,007	8,816	9,228	8,199	9,016,529	8,339,204	8,951,005	8,479,715
Per cent of total.....	5.9	5.9	6.0	4.6	6.7	6.0	6.5	5.2	5.0	4.5	5.0	4.1
Massachusetts.....	161	167	170	201	5,551	6,488	5,593	6,840	6,445,578	7,392,033	6,424,162	8,532,403
Per cent of total.....	4.4	4.7	5.1	5.0	3.7	4.4	4.0	4.3	3.6	4.0	3.6	4.1
New Jersey.....	168	151	162	171	7,919	6,522	6,393	6,285	9,143,167	7,925,761	7,293,869	7,359,293
Per cent of total.....	4.6	4.2	4.6	4.2	5.3	4.5	4.5	4.0	5.1	4.3	4.0	3.6
Missouri.....	72	68	58	51	4,957	4,171	3,620	3,530	4,082,726	4,089,561	3,798,068	3,715,596
Per cent of total.....	2.0	1.9	1.7	1.3	3.3	2.9	2.6	2.2	2.6	2.2	2.1	1.8
Wisconsin.....	37	30	22	23	2,407	2,559	1,546	2,012	2,593,950	3,029,773	1,684,319	2,167,263
Per cent of total.....	1.0	0.8	0.6	0.7	1.6	1.8	1.1	1.3	1.4	1.6	0.9	1.0

STATE	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY				VALUE OF PRODUCTS <sup>1</sup> AND RECEIPTS FOR CONTRACT WORK			
	1929	1927	1925	1923	1929	1927	1925	1923
United States.....	\$440,504,979	\$447,244,635	\$471,501,209	\$483,926,728	\$901,104,205	\$932,181,718	\$946,274,140	\$1,016,721,705
Leading States.....	400,000,990	414,352,612	439,694,780	456,227,653	804,000,622	869,122,282	887,817,112	965,982,782
Per cent of total.....	90.8	92.6	93.3	94.3	89.2	93.2	93.8	95.0
Other States <sup>1</sup> .....	40,503,983	32,892,023	31,806,423	27,699,075	97,007,583	63,059,436	58,457,028	50,738,923
Per cent of total.....	9.2	7.4	6.7	5.7	10.8	6.8	6.2	5.0
<i>Leading States</i>								
New York.....	195,820,354	213,166,250	233,768,168	240,242,535	379,393,004	443,039,188	402,242,951	504,812,922
Per cent of total.....	44.5	47.7	49.6	49.6	42.1	47.6	42.5	49.6
Illinois.....	40,065,044	54,106,681	50,102,549	76,498,660	118,475,388	130,482,815	127,329,289	178,042,702
Per cent of total.....	11.1	12.1	10.7	15.8	13.1	14.0	13.5	17.5
Pennsylvania.....	49,711,302	48,177,001	50,593,015	47,659,850	68,346,700	97,338,093	97,057,921	92,056,430
Per cent of total.....	11.3	10.8	10.7	9.9	10.9	10.4	10.3	9.1
Ohio.....	30,370,042	34,557,252	34,750,807	29,337,428	68,788,120	64,615,217	70,108,721	59,842,028
Per cent of total.....	8.3	7.7	7.4	6.1	7.6	6.9	7.4	5.9
Maryland.....	21,551,056	18,370,208	25,706,417	21,169,769	45,276,809	30,915,726	51,853,409	45,730,260
Per cent of total.....	4.9	4.1	5.5	4.4	5.0	4.3	5.5	4.5
Massachusetts.....	15,023,152	17,000,673	15,449,493	19,082,275	30,585,349	33,823,289	30,428,548	36,702,027
Per cent of total.....	3.0	3.8	3.3	3.9	3.4	3.6	3.2	3.6
New Jersey.....	12,269,600	10,788,276	8,005,724	7,842,597	28,389,959	25,784,940	21,069,723	20,909,498
Per cent of total.....	2.8	2.4	1.9	1.6	3.1	2.8	2.2	2.1
Missouri.....	12,402,451	10,133,040	11,121,193	9,423,582	22,820,598	19,639,378	20,946,721	18,228,012
Per cent of total.....	2.8	2.3	2.4	2.0	2.5	2.1	2.2	1.8
Wisconsin.....	6,878,305	7,897,231	3,277,429	4,970,357	12,028,615	13,882,730	6,788,829	8,707,393
Per cent of total.....	1.6	1.8	0.7	1.0	1.3	1.5	0.7	0.9

<sup>1</sup> Alabama, California, Colorado, Connecticut, Delaware, Florida, Georgia, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Michigan, Minnesota, Nebraska, New Hampshire, North Carolina, Oregon, Rhode Island, South Dakota, Tennessee, Texas, Vermont, Virginia, Washington, and West Virginia.  
<sup>2</sup> The figures for all years refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products.

## CENSUS OF MANUFACTURES: 1929

TABLE 4.—CLOTHING (EXCEPT WORK), MEN'S, YOUTHS', AND BOYS'—SUMMARY FOR ALL FACTORIES, FOR PRINCIPAL CITIES: 1929, 1927, 1925, AND 1923

CITY	NUMBER OF ESTABLISHMENTS				WAGE EARNERS (AVERAGE FOR THE YEAR)				WAGES			
	1929	1927	1925	1923	1929	1927	1925	1923	1929	1927	1925	1923
United States.....	3,091	3,502	3,401	4,024	140,868	146,000	141,511	158,173	\$170,708,808	\$184,613,090	\$170,044,721	\$207,262,217
Principal cities.....	2,825	2,853	2,732	3,205	98,339	102,170	98,442	114,732	133,401,527	143,577,680	130,372,775	166,892,600
Per cent of total for the United States.....	70.5	80.1	78.3	81.9	69.6	69.9	69.6	72.5	74.2	77.8	77.8	80.5
Remainder of United States.....	866	709	759	729	51,529	43,920	43,069	43,441	40,807,281	41,035,410	39,671,946	40,359,617
Per cent of total.....	23.5	10.9	21.7	18.1	34.4	30.1	30.4	27.5	25.8	22.2	22.2	19.5
<i>Principal cities</i>												
New York.....	1,682	1,634	1,500	2,012	28,498	30,687	29,717	37,648	44,101,165	50,769,051	50,654,892	61,356,773
Per cent of total.....	45.6	45.9	43.0	50.0	19.0	21.0	21.0	23.8	24.5	27.5	28.3	29.6
Chicago.....	<sup>1</sup> 283	299	306	308	<sup>1</sup> 17,706	19,494	21,283	28,678	<sup>1</sup> 20,602,591	31,018,295	30,453,812	46,119,479
Per cent of total.....	7.7	8.4	8.8	7.7	11.8	13.3	15.0	18.1	14.8	16.8	17.0	22.3
Philadelphia.....	295	324	305	354	10,743	10,430	8,950	9,260	15,015,358	14,653,084	12,586,273	11,760,706
Per cent of total.....	8.0	9.1	8.7	8.8	7.2	7.1	6.3	5.9	8.4	7.9	7.0	5.7
Rochester.....	39	63	77	<sup>2</sup> 98	10,647	11,325	10,088	<sup>2</sup> 10,983	12,929,871	15,185,771	13,628,643	<sup>2</sup> 15,271,945
Per cent of total.....	1.1	1.8	2.2	2.4	7.1	7.8	7.1	6.9	7.2	8.2	7.0	7.4
Baltimore.....	210	207	202	170	9,303	8,392	8,771	7,849	8,589,105	7,987,203	8,680,060	8,257,222
Per cent of total.....	5.7	5.8	5.8	4.4	6.3	5.7	6.2	5.0	4.8	4.3	4.8	4.0
Cincinnati.....	61	77	85	75	5,878	7,026	6,078	5,970	7,606,589	6,696,182	8,302,026	6,821,160
Per cent of total.....	1.6	2.2	2.4	1.9	3.9	4.8	4.7	3.8	4.2	3.6	4.0	3.3
Cleveland.....	<sup>3</sup> 11	38	45	42	<sup>3</sup> 5,045	4,501	4,474	4,636	<sup>3</sup> 7,400,849	5,400,412	5,330,591	5,489,376
Per cent of total.....	1.1	1.1	1.3	1.1	3.8	3.1	3.2	2.9	4.1	2.9	3.0	2.6
Boston.....	<sup>3</sup> 125	129	144	160	<sup>3</sup> 3,941	4,193	3,853	4,818	<sup>3</sup> 4,907,310	5,320,470	4,717,151	6,502,821
Per cent of total.....	3.4	3.6	4.1	4.0	2.0	2.9	2.7	3.0	2.8	2.9	2.6	3.2
St. Louis.....	<sup>4</sup> 16	57	53	46	<sup>4</sup> 3,946	3,831	3,402	3,322	<sup>4</sup> 4,056,573	3,757,903	3,580,554	3,371,635
Per cent of total.....	1.0	1.6	1.5	1.1	2.6	2.6	2.4	2.1	2.3	2.0	2.0	1.6
Milwaukee.....	28	25	15	21	1,972	2,300	1,220	1,568	2,036,116	2,772,500	1,428,903	1,815,303
Per cent of total.....	0.7	0.7	0.4	0.5	1.3	1.6	0.9	1.0	1.1	1.5	0.8	0.8

CITY	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY				VALUE OF PRODUCTS <sup>5</sup> AND RECEIPTS FOR CONTRACT WORK			
	1929	1927	1925	1923	1929	1927	1925	1923
United States.....	\$440,504,970	\$447,244,035	\$471,501,209	\$483,026,728	\$901,104,205	\$932,181,718	\$946,274,140	\$1,016,721,705
Principal cities.....	340,448,789	360,632,896	303,738,163	408,709,940	715,933,211	772,206,371	700,869,183	865,433,023
Per cent of total for the United States.....	70.3	82.6	63.5	84.5	70.5	82.8	83.0	85.1
Remainder of United States.....	91,056,190	77,611,739	77,763,046	75,156,788	185,170,994	159,975,347	155,404,957	151,288,682
Per cent of total.....	20.7	17.4	16.5	15.5	20.5	17.2	16.4	14.9
<i>Principal cities</i>								
New York.....	150,247,900	175,855,045	192,431,151	198,874,869	310,217,092	360,100,965	376,266,029	413,918,669
Per cent of total.....	36.2	39.3	40.8	41.1	35.4	38.6	39.8	40.7
Chicago.....	<sup>1</sup> 45,348,898	50,078,096	51,788,420	70,910,540	<sup>1</sup> 110,304,302	121,372,274	110,310,343	168,249,689
Per cent of total.....	10.3	11.2	11.0	14.7	12.2	13.0	12.0	16.6
Philadelphia.....	41,450,308	40,825,425	41,596,138	37,905,025	70,815,590	80,047,204	77,311,114	70,554,935
Per cent of total.....	9.4	9.1	8.8	7.8	8.9	8.6	8.2	6.9
Rochester.....	21,734,263	24,628,169	25,747,686	<sup>2</sup> 24,853,223	47,724,512	50,908,730	55,110,348	<sup>2</sup> 58,937,241
Per cent of total.....	4.9	5.5	5.5	5.1	5.3	6.1	5.8	5.8
Baltimore.....	20,468,045	17,798,523	25,400,361	20,982,838	43,238,420	38,728,510	50,332,343	45,138,214
Per cent of total.....	4.6	4.0	5.4	4.3	4.8	4.2	5.3	4.4
Cincinnati.....	15,597,424	10,577,736	19,643,845	14,591,169	32,211,079	34,118,632	40,681,928	31,050,760
Per cent of total.....	3.5	3.7	4.2	3.0	3.6	3.7	4.3	3.1
Cleveland.....	<sup>3</sup> 17,503,245	14,673,611	12,732,150	12,142,137	<sup>3</sup> 30,591,518	24,338,395	23,671,416	22,863,808
Per cent of total.....	4.0	3.3	2.7	2.5	3.4	2.6	2.5	2.2
Boston.....	<sup>3</sup> 12,423,687	12,916,969	11,671,647	15,728,374	<sup>3</sup> 24,232,952	26,059,827	23,338,010	30,139,808
Per cent of total.....	2.8	2.9	2.5	3.3	2.7	2.8	2.5	3.0
St. Louis.....	<sup>4</sup> 9,950,400	9,233,181	10,427,297	8,993,458	<sup>4</sup> 18,626,040	17,989,266	10,746,468	17,246,032
Per cent of total.....	2.3	2.1	2.2	1.9	2.1	1.9	2.1	1.7
Milwaukee.....	5,715,559	7,045,541	2,299,468	3,788,311	9,909,906	12,452,553	5,100,284	6,727,861
Per cent of total.....	1.3	1.6	0.4	0.8	1.1	1.3	0.5	0.7

<sup>1</sup> Includes data for 2 establishments outside the corporate limits, to avoid disclosing their output.

<sup>2</sup> Includes data for 1 small establishment engaged primarily in the production of work clothing, to avoid disclosing its output.

<sup>3</sup> Includes data for 1 establishment outside the corporate limits, to avoid disclosing its output.

<sup>4</sup> Includes data for 3 establishments outside the corporate limits, to avoid disclosing their output.

<sup>5</sup> The figures for all years refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products.

CLOTHING (EXCEPT WORK CLOTHING), MEN'S, YOUTHS', AND BOYS' 361

TABLE 5.—CLOTHING (EXCEPT WORK), MEN'S, YOUTHS', AND BOYS'—PRODUCTION, BY CLASS, NUMBER, AND VALUE, 1929 AND 1927, AND BY CLASS AND VALUE, 1925 AND 1923, FOR THE UNITED STATES

[The figures for all years refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products]

CLASS	1929			1927			1925		1923	
	Products		Receipts for contract work	Products		Receipts for contract work	Value of products	Receipts for contract work	Value of products	Receipts for contract work
	Quantity	Value		Quantity	Value					
1. "Clothing (except work clothing), men's, youths', and boys', not elsewhere classified" industry, total value of products and receipts for contract work.....	\$801, 104, 205		\$632, 181, 718		\$646, 274, 140		\$1, 016, 721, 705			
2. All factories, total.....	\$834, 717, 047	\$66, 387, 158	\$863, 280, 662	\$68, 001, 056	\$883, 127, 655	\$63, 146, 485	\$945, 457, 507	\$71, 264, 138		
3. Regular factories.....	833, 863, 076	2, 335, 792	862, 425, 506	2, 998, 728	881, 891, 227	2, 960, 695	(1)	(1)		
4. Contract shops.....	853, 971	64, 051, 366	856, 066	65, 902, 328	1, 236, 428	60, 185, 790	(1)	(1)		
5. Men's, youths', and boys' clothing.....	815, 071, 629	66, 178, 986	845, 616, 174	68, 386, 118	871, 783, 110	63, 107, 430	932, 310, 634	70, 118, 381		
6. Other products (not normally belonging to the industry).....	10, 645, 418	208, 172	17, 664, 488	514, 938	11, 344, 545	30, 046	13, 137, 933	1, 145, 757		
7. Men's, youths', and boys' clothing made as secondary products in other industries.....	20, 030, 031		25, 693, 486		6, 308, 544		4, 466, 902			
Men's, youths', and boys' clothing, all industries: Aggregate value (sum of 5 and 7).....	Number 841, 101, 660	66, 178, 986	Number 871, 309, 660	68, 386, 118	878, 091, 654	63, 107, 430	630, 780, 596	70, 118, 381		
Men's and youths' suits.....	23, 518, 216	449, 251, 152	7, 957, 720	23, 763, 335	490, 955, 817	9, 698, 840	467, 617, 300	9, 683, 565	405, 966, 422	
Men's and youths' separate trousers.....	24, 337, 311	67, 451, 730	15, 372, 123	19, 383, 361	62, 764, 557	15, 093, 687	94, 722, 830	15, 025, 950	91, 710, 817	
Men's and youths' overcoats and topcoats.....	7, 321, 712	131, 550, 070	8, 533, 073	6, 528, 690	129, 372, 498	8, 156, 410	145, 199, 758	8, 161, 118	170, 515, 616	
Boys' suits.....	5, 665, 843	34, 833, 634	498, 156	6, 928, 685	46, 093, 745	1, 637, 337	64, 656, 152	1, 815, 410	81, 784, 810	
Boys' separate pants and knickers.....	12, 847, 277	16, 028, 250	2, 953, 393	9, 317, 107	14, 119, 723	2, 667, 708	13, 788, 689	2, 378, 591	4, 612, 868	
Boys' overcoats and reefers.....	1, 946, 619	12, 648, 356	963, 202	2, 104, 936	19, 486, 390	1, 820, 604	15, 641, 714	1, 113, 688	19, 008, 905	
Men's, youths', and boys' waterproof outer garments <sup>2</sup> .....	5, 433, 271	17, 642, 986	190, 445	7, 648, 819	21, 750, 217	232, 114	13, 810, 100	101, 796	13, 880, 586	
Other men's, youths', and boys' clothing.....	111, 695, 476	29, 851, 368		186, 766, 707	29, 070, 319		56, 346, 485	23, 837, 315	58, 432, 478	
Undistributed products.....							6, 308, 544		4, 466, 902	

<sup>1</sup> Not reported separately.

<sup>2</sup> Revised because of a change in classifying certain products.

<sup>3</sup> This item covers the production of men's, youths', and boys' waterproof outer garments in all industries, and includes data for waterproof garments for both sexes made by manufacturers of rubber goods, as follows: 1929, 2,008,370, valued at \$6,831,846; 1927, 1,885,751, valued at \$6,331,650. The total value of waterproof clothing of all kinds, for men, youths, boys, women, and children, as reported for all industries for 1929, aggregated \$40,373,794, of which amount \$12,748,784 was contributed by the men's-clothing and work-clothing industries, \$10,190,930 by the women's-clothing industry, and \$17,434,080 by the rubber-goods industry.

<sup>4</sup> Revised. This item does not include \$849,242 representing value of blanket-lined coats, included in item as originally published. Such coats were formerly treated as products of this industry but are now classified in the work clothing industry.

CENSUS OF MANUFACTURES: 1929

TABLE 6.—CLOTHING (EXCEPT WORK), MEN'S, YOUTHS', AND BOYS'—PRODUCTION, BY CLASS, QUANTITY, AND VALUE, BY STATES: 1929

The figures refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products. Figures are given for each State which can be shown separately without disclosing data for individual establishments. Certain of the "Other States," however, reported larger quantities and values of some of the classes of products than one or more of the States shown separately]

CLASS AND STATE	PRODUCTS		Receipts for contract work	CLASS AND STATE	PRODUCTS		Receipts for contract work
	Quantity	Value			Quantity	Value	
Men's and youths' clothing: Suits, total.....	Number 23, 513, 216	\$449, 251, 152	\$7, 057, 720	Men's and youths' clothing—Continued. Separate trousers, total.....	Number 24, 337, 311	\$67, 451, 730	\$15,372,123
California.....	102, 062	2, 540, 245	549, 203	California.....	702, 177	2, 038, 922	220, 948
Illinois.....	2, 073, 836	70, 469, 022	1, 380, 026	Illinois.....	1, 618, 920	6, 911, 761	1, 220, 610
Kentucky.....	250, 097	4, 454, 127	.....	Kentucky.....	470, 004	1, 200, 157	(1)
Louisiana.....	335, 274	3, 117, 599	.....	Louisiana.....	254, 656	481, 421	(1)
Maryland.....	1, 608, 702	29, 907, 140	580, 773	Maine.....	94, 159	220, 333	106, 000
Massachusetts.....	618, 340	10, 745, 091	95, 826	Maryland.....	979, 823	2, 457, 664	503, 741
Minnesota.....	20, 966	0, 087, 459	21, 250	Massachusetts.....	672, 273	1, 361, 993	395, 301
Missouri.....	549, 268	0, 453, 411	170, 000	Missouri.....	2, 715, 131	6, 752, 800	241, 807
New Jersey.....	812, 580	0, 793, 317	703, 582	New Jersey.....	138, 529	300, 183	1, 100, 209
New York.....	10, 136, 437	183, 523, 343	2, 635, 254	New York.....	7, 091, 723	20, 108, 949	5, 652, 234
Ohio.....	2, 203, 890	41, 740, 216	567, 034	Ohio.....	1, 775, 752	7, 051, 897	992, 054
Oregon.....	41, 737	1, 813, 251	51, 431	Pennsylvania.....	2, 797, 547	6, 855, 084	3, 809, 220
Pennsylvania.....	3, 060, 463	54, 845, 506	558, 595	Tennessee.....	227, 900	542, 023	.....
Tennessee.....	104, 635	1, 514, 425	.....	Wisconsin.....	78, 353	243, 722	(1)
Virginia.....	350, 693	5, 044, 133	.....	Other States.....	4, 829, 464	11, 314, 421	1, 060, 590
Wisconsin.....	97, 937	2, 305, 158	421, 561	Separate coats, total.....	1, 268, 207	13, 035, 170	20, 943, 506
Other States.....	373, 349	0, 200, 819	207, 291	Illinois.....	60, 652	655, 601	951, 416
2-piece suits, total.....	1, 740, 033	24, 028, 250	702, 498	New York.....	476, 512	7, 277, 038	11, 010, 305
Illinois.....	215, 073	4, 157, 694	203, 068	Ohio.....	170, 034	1, 303, 510	434, 957
Louisiana.....	189, 337	1, 594, 278	(1)	Other States.....	532, 469	3, 708, 130	8, 540, 828
Maryland.....	164, 023	2, 364, 508	(1)	Separate vests, total.....	1, 005, 452	3, 300, 509	0, 200, 817
New York.....	576, 042	8, 390, 100	81, 500	Illinois.....	67, 786	152, 003	613, 657
Ohio.....	73, 717	1, 510, 046	(1)	New York.....	535, 487	2, 303, 235	3, 050, 717
Pennsylvania.....	321, 905	2, 772, 269	417, 840	Other States.....	352, 179	791, 271	2, 535, 443
Other States.....	208, 240	3, 220, 464	.....	Overcoats and topcoats, total.....	7, 321, 712	131, 650, 076	8, 533, 073
2-piece suits with extra trousers, total.....	855, 028	13, 141, 075	448, 005	Illinois.....	574, 858	15, 257, 470	280, 211
Illinois.....	43, 905	602, 620	(1)	Kentucky.....	27, 202	550, 060	.....
Louisiana.....	39, 078	476, 615	.....	Maryland.....	174, 108	4, 270, 682	684, 127
New York.....	278, 025	3, 516, 407	.....	Massachusetts.....	330, 016	5, 300, 920	254, 623
Ohio.....	32, 257	721, 357	.....	Minnesota.....	148, 334	1, 065, 800	(1)
Pennsylvania.....	319, 020	5, 730, 101	(1)	Missouri.....	74, 368	1, 121, 115	(1)
Other States.....	142, 743	2, 093, 015	448, 005	New Jersey.....	168, 020	2, 980, 138	1, 690, 756
2-piece suits with extra knickers, total.....	71, 507	1, 118, 449	378	New York.....	4, 189, 163	71, 752, 790	4, 028, 555
New York.....	42, 011	469, 700	.....	Ohio.....	595, 948	9, 575, 137	72, 175
Other States.....	29, 496	648, 749	378	Pennsylvania.....	658, 801	11, 947, 841	1, 147, 309
3-piece suits, total.....	12, 042, 142	255, 674, 333	5, 260, 044	Tennessee.....	33, 958	344, 040	.....
California.....	83, 614	1, 074, 411	527, 576	Wisconsin.....	84, 747	1, 483, 550	(1)
Illinois.....	2, 206, 619	50, 262, 164	687, 437	Other States.....	270, 969	4, 939, 907	375, 317
Kentucky.....	99, 622	1, 511, 615	.....	Boys' suits, total.....	5, 505, 843	34, 833, 634	408, 156
Louisiana.....	103, 163	909, 647	.....	Illinois.....	178, 748	1, 826, 034	(1)
Maryland.....	948, 808	18, 576, 940	506, 253	New York.....	4, 351, 009	28, 809, 545	127, 402
Massachusetts.....	235, 519	4, 837, 873	.....	Pennsylvania.....	183, 587	808, 843	.....
Minnesota.....	26, 670	603, 709	(1)	Other States.....	852, 409	3, 391, 212	280, 764
Missouri.....	212, 061	3, 007, 623	(1)	1-pants suits (not knickers), total.....	1, 533, 850	5, 925, 184	303, 589
New Jersey.....	313, 131	2, 363, 551	(1)	New York.....	937, 017	4, 804, 873	60, 302
New York.....	5, 500, 404	100, 430, 182	2, 061, 512	Other States.....	596, 833	1, 000, 311	234, 287
Ohio.....	1, 482, 564	26, 071, 561	550, 057	1-pants suits (knickers), total.....	233, 068	1, 290, 747	37, 600
Oregon.....	6, 020	219, 847	(1)	New York.....	105, 180	987, 011	(1)
Pennsylvania.....	907, 581	18, 684, 337	337, 944	Other States.....	38, 788	303, 736	37, 600
Tennessee.....	38, 877	564, 098	.....	2-pants suits (not knickers), total.....	1, 200, 800	8, 684, 193	66, 967
Virginia.....	81, 981	1, 365, 504	.....	Illinois.....	126, 201	1, 310, 859	(1)
Wisconsin.....	11, 051	314, 366	(1)	New York.....	684, 307	6, 240, 514	(1)
Other States.....	203, 467	5, 220, 005	598, 965	Pennsylvania.....	20, 473	203, 163	.....
3-piece suits with extra trousers, total.....	7, 528, 600	147, 106, 543	1, 450, 868	Other States.....	160, 819	839, 657	60, 907
Illinois.....	501, 564	15, 237, 409	231, 233	2-pants suits (knickers), total.....	1, 257, 603	10, 064, 521	.....
Kentucky.....	144, 164	2, 869, 479	.....	New York.....	1, 100, 647	8, 843, 709	.....
Maryland.....	362, 710	8, 274, 644	43, 221	Pennsylvania.....	26, 216	206, 637	.....
Massachusetts.....	209, 536	5, 622, 801	(1)	Other States.....	130, 740	954, 175	.....
Minnesota.....	307, 745	5, 191, 362	(1)	2-pants suits (one long pants, one knickers), total.....	1, 330, 622	8, 868, 980	.....
Missouri.....	430, 110	6, 859, 102	(1)	New York.....	1, 233, 858	7, 873, 438	.....
New Jersey.....	430, 110	6, 859, 102	(1)	Other States.....	106, 764	905, 551	.....
New York.....	3, 079, 846	55, 325, 315	464, 704				
Ohio.....	654, 563	12, 881, 163	15, 561				
Pennsylvania.....	1, 389, 877	27, 350, 704	(1)				
Tennessee.....	64, 073	926, 432	.....				
Virginia.....	170, 260	2, 880, 436	.....				
Wisconsin.....	63, 339	1, 604, 110	(1)				
Other States.....	90, 813	2, 173, 199	705, 170				
3-piece suits with extra knickers, total.....	670, 706	8, 092, 493	76, 703				
New Jersey.....	26, 172	251, 540	.....				
New York.....	569, 419	9, 376, 579	(1)				
Pennsylvania.....	37, 390	308, 155	.....				
Other States.....	37, 725	1, 150, 219	76, 703				

1 Included in item for "Other States" to avoid disclosing data for individual establishments.

CLOTHING (EXCEPT WORK CLOTHING), MEN'S, YOUTHS', AND BOYS' 363

TABLE 6.—CLOTHING (EXCEPT WORK), MEN'S, YOUTHS', AND BOYS'—PRODUCTION, BY CLASS, QUANTITY, AND VALUE, BY STATES: 1929—Continued

[See note at head of this table]

CLASS AND STATE	PRODUCTS		Receipts for contract work	CLASS AND STATE	PRODUCTS		Receipts for contract work
	Quantity	Value			Quantity	Value	
Boys' separate pants and knickers, total.....	Number 12,847,277	\$10,028,250	\$2,063,303	Children's play suits, total.....	Dozens 2,257,150	\$15,861,614	\$185,725
California.....	106,119	432,298		Indiana.....	457,260	2,023,311	
Illinois.....	357,551	721,702	125,025	Maryland.....	73,074	870,400	
Maryland.....	370,322	417,663	(1)	New York.....	370,070	3,418,324	64,611
Massachusetts.....	526,260	602,878	(1)	Pennsylvania.....	687,502	2,019,925	
Missouri.....	204,600	483,863	(1)	Other States.....	602,326	6,032,588	121,114
New York.....	8,024,574	8,551,138	1,078,125	Denim, total.....	830,012	6,512,050	120,887
Ohio.....	587,527	1,300,370	(1)	Indiana.....	283,874	1,829,394	
Pennsylvania.....	508,811	920,659	200,050	Maryland.....	43,760	624,492	
Other States.....	1,073,504	2,528,680	641,187	New York.....	220,651	1,767,452	
Boys' overcoats and reefers, total.....	1,046,619	12,648,356	903,202	Pennsylvania.....	32,631	282,805	
Illinois.....	20,201	230,672	(1)	Other States.....	256,290	2,008,717	120,887
New Jersey.....	125,116	550,250	(1)	Other than denim, total.....	1,420,538	9,348,664	64,838
New York.....	1,672,928	11,002,600	836,900	Indiana.....	173,305	1,008,017	
Pennsylvania.....	24,823	103,000		Maryland.....	30,214	245,074	
Other States.....	94,461	652,907	66,302	New York.....	150,028	1,647,872	
Sport clothing, other than leather, total.....	5,741,490	13,880,000	569,573	Pennsylvania.....	654,871	1,737,030	
Illinois.....	206,845	930,680	(1)	Other States.....	406,630	4,023,871	64,838
Maryland.....	801,774	1,144,685		Men's, youths', and boys' waterproof outer- garments, total.....	Number 5,433,271	17,042,986	190,445
New York.....	1,712,104	4,022,390	426,885	Illinois.....	70,300	303,049	
Pennsylvania.....	683,003	1,402,777	37,525	Massachusetts.....	3,260,550	6,448,095	40,208
Wisconsin.....	186,082	607,604		New York.....	741,464	3,072,530	(1)
Other States.....	2,050,702	4,781,777	105,103	Ohio.....	125,381	578,792	
Hunting coats, total.....	255,055	1,043,035		Pennsylvania.....	54,948	184,414	
New York.....	135,772	613,563		Other States.....	1,105,610	4,055,206	150,237
Other States.....	119,283	429,472		Rubberized, total.....	3,519,357	12,109,811	130,837
Knickers, total.....	1,745,235	3,749,772	245,490	Illinois.....	73,935	208,527	
Maryland.....	100,300	200,560		Massachusetts.....	1,803,093	6,435,058	(1)
New York.....	845,352	1,773,023	211,160	New York.....	684,538	2,216,765	(1)
Pennsylvania.....	348,880	734,507	(1)	Ohio.....	120,910	563,165	
Other States.....	451,194	1,041,082	34,327	Pennsylvania.....	54,948	184,414	
Riding breeches, total.....	1,051,010	4,200,881	141,607	Other States.....	821,027	2,400,882	130,837
Maryland.....	604,314	846,005		Oiled, total.....	1,730,819	4,505,037	33,608
Minnesota.....	50,637	192,375		Massachusetts.....	1,371,242	2,047,072	33,608
Missouri.....	251,035	480,692		Other States.....	365,577	1,047,065	
New York.....	308,192	1,060,820	53,022	Other proofing.....	177,095	937,538	35,000
Pennsylvania.....	50,512	214,750	(1)	Costumes (theatrical, masquerade, etc.), total.....	302,068	1,612,757	23,000
Texas.....	104,001	277,916		New York.....	131,212	652,377	(1)
Other States.....	507,255	1,217,457	88,075	Pennsylvania.....	142,872	422,500	
Other sport clothing.....	1,780,284	4,880,321	182,380	Other States.....	118,584	537,781	23,000
Leather clothing, including leather sport clothing, total.....	2,480,146	18,586,006	178,003	Uniforms (other than white-duck), total.....	1,550,660	17,580,058	601,717
Massachusetts.....	458,343	3,371,440	(1)	Illinois.....	233,319	1,702,400	(1)
Minnesota.....	472,336	4,126,004		Massachusetts.....	27,505	430,465	
New York.....	633,682	3,374,566	118,830	New York.....	477,835	5,579,300	301,657
Other States.....	1,015,785	7,713,177	50,257	Other States.....	820,001	9,807,875	300,060
Hunting coats.....	30,375	283,750		Military, naval, cadet, etc.....	422,742	8,213,880	201,510
Other leather coats, total.....	495,719	3,705,602	1,795	Hospital, professional, etc.....	400,882	970,080	5,280
Massachusetts.....	101,641	856,801		Other, for policemen, firemen, conductors, motormen, etc.....	646,056	8,387,080	394,027
Minnesota.....	65,548	501,095		Uniforms (white-duck), total.....	6,170,453	9,631,005	280,218
New York.....	155,386	641,310	1,795	Illinois.....	1,184,781	1,707,827	40,500
Other States.....	173,144	1,700,306		Massachusetts.....	682,453	1,076,917	(1)
Windbreakers and lumberjacks, total.....	819,906	6,104,360	22,810	New York.....	1,485,175	3,176,308	110,410
Massachusetts.....	187,214	1,527,984		Pennsylvania.....	253,448	500,060	107,100
Minnesota.....	130,036	1,188,670		Other States.....	2,567,590	3,076,893	13,208
New York.....	238,154	1,601,210	(1)	Naval, cadet, etc., total.....	105,720	1,300,906	208,913
Other States.....	255,592	1,780,400	22,840	New York.....	154,010	1,130,782	163,410
Vests, total.....	507,084	3,828,713	153,458	Other States.....	41,719	230,124	105,503
Minnesota.....	128,661	1,197,485		Hospital, professional, etc., total.....	867,162	1,150,197	12,000
Other States.....	379,323	2,631,228	153,458	Illinois.....	205,977	358,834	
Other leather clothing, total.....	620,102	4,603,611		New York.....	313,385	334,200	
Massachusetts.....	140,780	813,786		Other States.....	347,800	457,167	12,000
Minnesota.....	124,710	1,050,654		Other white-duck uniforms, total.....	5,107,562	7,110,902	50,305
New York.....	62,032	808,952		Illinois.....	977,604	1,323,933	40,500
Other States.....	292,674	1,921,210		Massachusetts.....	675,915	1,053,198	(1)
Windbreakers and lumberjacks, other than leather, total.....	1,512,209	5,047,108		New York.....	1,017,750	1,711,320	
Massachusetts.....	40,806	182,004		Pennsylvania.....	106,620	389,980	
Minnesota.....	223,517	1,161,360		Other States.....	2,320,034	2,030,441	6,805
New York.....	521,545	1,171,160					
Wisconsin.....	108,130	418,377					
Other States.....	609,211	2,114,207					

<sup>1</sup>Included in item for "Other States" to avoid disclosing data for individual establishments.

## CLOTHING, MEN'S, BUTTONHOLES

Description of the industry.—This industry classification covers buttonhole making done on contract by establishments engaged wholly or mainly in such work. A small amount done on women's clothing is included. The value of products for this industry is made up of the amounts received for work done. Inasmuch as buttonholes are usually made by the same establish-

ments which manufacture clothing (and which, therefore, are classified in the men's clothing industry), only comparatively small proportions of the total number of persons engaged in buttonhole making, of the total value of work done, etc., are represented by the statistics for the buttonhole industry.

TABLE 1.—CLOTHING, MEN'S, BUTTONHOLES—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>	Horsepower
1929.....	32	292	\$314, 192	\$60, 702	\$573, 909	\$513, 117	104
1927.....	40	412	426, 817	98, 029	917, 932	819, 993	132
1925.....	30	327	346, 855	71, 047	658, 064	587, 017	87
1923.....	37	354	409, 251	103, 080	804, 427	701, 347	105
1921.....	37	329	347, 978	77, 408	646, 047	598, 641	( <sup>3</sup> )
1919.....	107	484	514, 600	123, 206	1, 090, 049	966, 783	176
1914.....	139	672	326, 322	90, 012	637, 728	547, 716	205
1909.....	146	830	380, 032	104, 577	780, 720	676, 143	167
1904.....	141	903	350, 468	94, 857	700, 158	605, 301	125
1899.....	149	944	332, 187	98, 178	680, 502	582, 324	95
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929.....	( <sup>4</sup> )	-20. 1	-20. 7	-38. 0	-37. 5	-37. 4	-21. 2
1925-1927.....	( <sup>4</sup> )	26. 0	23. 6	38. 0	39. 5	39. 7	( <sup>4</sup> )
1923-1925.....	( <sup>4</sup> )	-2. 1	-15. 2	-31. 1	-18. 2	-16. 3	-17. 1
1921-1923.....		1. 5	17. 6	33. 2	24. 5	23. 3	
1919-1921.....	-65. 4	-32. 0	-32. 4	-37. 2	-40. 7	-41. 2	
1919-1929.....	-70. 1	-39. 7	-38. 9	-50. 7	-47. 4	-46. 9	-40. 9
1909-1919.....	-23. 7	-41. 7	32. 3	17. 9	39. 6	43. 0	5. 4
1899-1909.....	-2. 0	-12. 1	17. 1	6. 5	14. 7	16. 1	( <sup>4</sup> )

<sup>1</sup> Receipts for work done. (See "Description of the industry," above.)

<sup>2</sup> Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

<sup>3</sup> Not called for on schedule.

<sup>4</sup> Not computed where base is less than 100.

# CLOTHING, MEN'S, BUTTONHOLES

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**TABLE 2.—CLOTHING, MEN'S, BUTTONHOLES—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919**

[Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Census year	Number of establishments	Salaried officers and employees <sup>1</sup>	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
					Total	Prime movers	Motors run by purchased energy			Total	Materials	Fuel and purchased energy		
United States	1929	32	14	292	104	6	98	\$26,570	\$314,192	\$60,792	\$67,743	\$3,049	\$573,900	\$613,117
	1927	40	35	412	132	6	126	71,325	428,817	98,020	85,197	12,832	917,932	819,908
	1919	107	20	484	176	12	164	64,578	614,000	123,206	112,008	11,258	1,090,049	960,783
Maryland	1929	4	1	27	7	-----	7	2,000	27,204	5,351	4,922	429	55,788	50,437
	1927	5	5	25	9	-----	9	8,437	26,066	10,398	7,575	2,823	61,172	50,774
	1919	12	-----	34	15	-----	15	-----	43,008	15,112	13,400	1,652	92,175	77,063
New York	1929	16	6	82	40	6	34	11,445	96,503	16,800	15,696	1,113	188,305	171,496
	1927	17	15	127	45	6	39	33,407	179,044	45,042	39,282	5,760	368,939	323,807
	1919	59	15	251	108	12	96	58,160	308,510	69,924	63,798	6,126	660,827	590,903
Ohio	1929	5	4	86	42	-----	42	9,485	92,679	20,392	20,170	222	163,962	143,570
	1927	6	9	109	55	-----	55	20,591	111,613	29,215	26,724	2,491	284,773	255,558
	1919	8	5	86	20	-----	20	6,418	55,961	13,344	12,022	1,322	135,180	121,836
Pennsylvania	1929	7	3	97	15	-----	15	3,646	98,406	18,240	16,955	1,285	165,854	147,614
	1927	9	6	144	17	-----	17	8,980	102,943	11,066	9,626	1,440	184,505	173,529
	1919	16	-----	89	33	-----	33	-----	82,416	18,921	17,854	1,007	140,696	127,776
States not shown separately	<sup>a</sup> 1927	3	-----	7	6	-----	6	-----	9,151	2,308	1,690	318	18,453	16,146
	<sup>b</sup> 1919	13	-----	24	13	-----	13	-----	24,705	5,965	4,874	1,091	55,171	49,206

<sup>1</sup> Not including proprietors and firm members, as follows: For 1929, 36; 1927, 47; 1919, 131. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 342; 1927, 404; 1919, 635.  
<sup>2</sup> Receipts for work done. (See "Description of the Industry," p. 300.)  
<sup>3</sup> Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.  
<sup>4</sup> Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919 but not in the United States totals.  
<sup>a</sup> California, 1 establishment; Illinois, 1; Massachusetts, 1.  
<sup>b</sup> Illinois, 3 establishments; Massachusetts, 4; Missouri, 2; New Jersey, 3; Wisconsin, 1.

**TABLE 3.—CLOTHING, MEN'S, BUTTONHOLES—PRIME MOVERS, MOTORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929**

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSEPOWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
		Horse-power		Horse-power		Horse-power		Horse-power		Horse-power		
Prime movers and electric motors driven by purchased energy, aggregate	192	104	130	132	143	87	240	176	254	205	100.0	100.0
Prime movers, total	1	6	1	6	1	6	2	12	9	47	5.8	6.8
Steam engines	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Internal-combustion engines	1	6	1	6	1	6	2	12	9	47	5.8	6.8
Electric motors driven by purchased energy	101	98	138	126	142	81	238	164	245	158	94.2	93.2
Electric motors, total	101	98	138	126	142	81	239	166	247	159	100.0	100.0
Driven by purchased energy	101	98	138	126	142	81	238	164	245	158	100.0	98.8
Driven by energy generated in establishments reporting	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Electric energy purchased <sup>1</sup>	-----	Kilowatt-hours 30,748	-----	(?)	-----	(?)	-----	(?)	-----	(?)	-----	1.2

<sup>1</sup> This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc. Data incomplete. <sup>2</sup> Not called for on schedule.

**TABLE 4.—CLOTHING, MEN'S, BUTTONHOLES—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, 1914, AND 1909, AND BY STATES, 1929**

[The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Percent minimum is of maximum	
		January	February	March	April	May	June	July	August	September	October	November	December		
United States:															
1929	202	205	204	<b>296</b>	295	238	<i>286</i>	288	202	203	<b>296</b>	292	287	287	96.0
1925	327	315	315	310	317	318	<i>313</i>	321	332	340	341	350	343	343	89.4
1919	484	473	449	457	466	470	481	488	498	517	517	525	518	518	78.7
1914	672	672	698	671	672	675	672	665	679	671	691	675	653	653	94.5
1909	830	829	810	811	811	794	797	817	841	852	862	868	860	860	91.6
Maryland	27	27	27	27	28	27	<i>26</i>	27	27	27	28	27	27	27	92.0
New York	82	81	81	81	81	81	<i>81</i>	82	83	82	82	83	83	83	95.2
Ohio	86	86	85	88	87	87	86	80	88	84	85	87	86	86	95.5
Pennsylvania	97	101	101	100	99	98	<i>98</i>	94	94	100	101	95	95	95	92.1

# CLOTHING, WORK (INCLUDING SHEEP-LINED AND BLANKET-LINED WORK COATS BUT NOT INCLUDING SHIRTS), MEN'S

Description of the industry.—This industry embraces establishments engaged primarily in the manufacture of overalls, coveralls, unionalls, work pants, work coats, and jumpers, of denim, khaki, corduroy, drills, and woolen cloth. (Work shirts are classified in the shirt industry.)

Sheep-lined clothing, formerly treated as a product of the fur-goods industry, is now classified in the men's-work-clothing industry.

TABLE 1.—CLOTHING, WORK, MEN'S—SUMMARY FOR THE UNITED STATES: 1923 TO 1929

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Paid for contract work	Cost of materials, fuel, and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>	Horsepower
1920.....	511	38,201	\$20,647,078	\$1,883,337	\$83,551,715	\$138,450,078	\$54,808,303	11,492
1927.....	556	40,612	29,945,915	1,435,615	85,134,183	147,280,025	62,154,842	11,218
1925.....	509	32,821	24,802,029	1,242,388	85,069,311	140,963,602	54,004,201	11,542
1923 <sup>3</sup> .....	533	36,647	28,234,741	1,381,716	100,877,194	161,093,026	61,115,832	12,392
PER CENT OF INCREASE OR DECREASE (—)								
1927-1920.....	-8.1	-5.9	-11.0	31.2	-1.9	-6.0	-11.7	2.4
1925-1927.....	0.2	23.7	20.7	15.6	-1.0	4.5	13.0	-2.8
1923-1925.....	-12.7	-10.4	-12.2	-10.1	-14.8	-13.0	-10.0	-6.0

<sup>1</sup> The figures for all years refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products.

<sup>2</sup> Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

<sup>3</sup> No comparable figures available for years prior to 1923.

TABLE 2.—CLOTHING, WORK, MEN'S—GENERAL STATISTICS, BY STATES: 1929 AND 1927

This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments. Certain of the "Other States," however, reported larger values of products than some of the States shown separately.

STATE	Census year	Number of establishments	Salaried officers and employees <sup>1</sup>	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	Paid for contract work	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
					Total	Prime movers	Motors run by purchased energy				Total	Materials	Fuel and purchased energy		
United States.....	1929	511	2,672	38,201	11,492	505	10,927	\$0,219,073	\$20,647,078	\$1,883,337	\$83,551,715	\$82,800,737	\$651,078	\$138,450,078	\$54,808,303
	1927	556	2,913	40,612	11,218	1,351	9,867	6,232,951	29,945,915	1,435,615	85,134,183	84,409,407	725,776	147,280,025	62,154,842
Alabama.....	1929	7	32	792	145	-----	145	61,756	440,475	294	1,035,415	1,025,093	10,332	1,846,125	810,710
	1927	8	41	887	169	-----	169	62,128	539,078	580	1,290,173	1,276,132	14,041	2,100,412	810,230
Arkansas.....	1929	4	40	380	56	-----	56	85,984	171,753	05,784	868,521	802,309	6,122	1,649,356	780,835
	1927	5	31	500	126	-----	126	77,803	343,518	-----	1,007,659	1,000,801	6,858	2,000,928	900,200
California.....	1929	26	226	1,888	846	80	766	458,141	1,874,843	5,166	4,201,699	4,269,608	22,091	7,884,274	3,592,575
	1927	25	186	1,818	576	75	501	425,703	1,865,079	-----	4,149,923	4,124,606	25,257	7,861,835	3,711,012
Connecticut.....	1929	5	4	87	30	-----	30	9,810	57,274	-----	98,480	96,100	2,380	216,045	117,565
	1927	3	9	74	15	-----	15	18,824	61,000	957	75,232	72,962	2,270	172,320	97,088
Georgia.....	1929	20	151	2,042	715	-----	715	355,033	1,450,700	80,000	3,913,611	3,874,205	39,300	6,763,302	2,839,701
	1927	21	203	2,840	592	-----	592	349,175	1,498,001	1,002	4,542,213	4,511,113	31,100	7,604,403	3,122,190
Illinois.....	1929	35	98	1,795	415	-----	415	106,512	1,242,622	198,651	3,764,454	3,728,496	35,958	6,572,716	2,808,262
	1927	35	121	1,866	554	44	510	842,647	1,680,400	154,703	4,207,617	4,257,732	39,885	7,400,249	3,108,032
Indiana.....	1929	29	193	2,954	910	150	760	505,260	2,164,932	2,556	6,019,060	5,960,317	59,343	9,947,093	3,028,333
	1927	32	209	2,796	987	150	837	480,207	2,101,913	32,145	5,775,197	5,714,314	60,833	9,024,023	4,148,826
Iowa.....	1929	15	74	899	243	-----	243	152,008	543,396	-----	1,665,535	1,645,316	20,219	2,742,693	1,077,158
	1927	16	56	737	220	-----	220	80,582	495,708	-----	1,408,934	1,391,140	17,794	2,316,875	907,041
Kansas.....	1929	7	11	291	110	-----	110	30,250	147,225	1,200	429,150	423,040	6,110	735,789	306,630
	1927	6	27	398	129	-----	129	55,340	267,544	-----	581,654	575,103	6,451	1,163,451	581,807
Kentucky.....	1929	5	43	914	171	-----	171	76,046	440,368	-----	1,432,721	1,421,181	11,540	2,160,474	727,753
	1927	6	42	709	143	-----	143	72,444	432,980	-----	1,606,176	1,656,733	9,443	2,344,034	677,898
Louisiana.....	1929	7	51	1,101	278	-----	278	91,799	436,673	49,756	1,783,831	1,775,051	8,780	2,783,930	1,000,090
	1927	8	41	746	47	-----	47	85,071	400,705	13,204	1,279,040	1,268,533	10,507	2,146,658	807,618
Maine.....	1929	6	12	151	39	-----	39	21,222	110,401	-----	285,870	282,309	3,471	475,488	189,618
	1927	5	13	194	38	-----	38	24,503	114,792	-----	282,313	278,249	4,064	519,180	236,807

See footnotes at end of table.

# MEN'S WORK CLOTHING

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TABLE 2.—CLOTHING, WORK, MEN'S—GENERAL STATISTICS, BY STATES: 1929 AND 1927—Continued

[See note at head of this table]

STATE	Census year	Number of establishments	Salaried officers and employees <sup>1</sup>	Wage earners (Average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	Paid for contract work	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
					Total	Primamovers	Motors run by purchased energy				Total	Materials	Fuel and purchased energy		
Maryland	1929	11	82	670	181		181	\$142,480	\$641,364	\$215,777	\$3,470,006	\$3,458,407	\$12,589	\$5,028,953	\$1,557,957
	1927	13	88	942	349	0	343	116,241	835,993	256,348	3,105,067	3,086,705	18,872	4,807,087	1,701,420
Massachusetts	1929	27	78	749	224		224	209,828	844,204	121,258	2,630,600	2,610,035	20,565	4,487,827	1,857,227
	1927	28	62	653	242	55	187	97,018	532,370	134,313	1,645,007	1,529,029	19,638	2,824,204	1,278,627
Minnesota	1929	15	83	867	296		296	170,256	715,975	22,820	1,905,940	1,888,684	17,250	3,329,710	1,423,770
	1927	14	77	1,039	202		202	160,473	916,717		2,386,443	2,367,053	19,360	4,231,451	1,845,008
Missouri	1929	23	207	3,200	1,021		1,021	695,602	2,422,172	515,003	7,662,728	7,604,807	57,921	13,287,490	5,624,762
	1927	28	321	5,093	1,347	350	997	808,627	3,462,548	10,257	11,607,557	11,579,323	88,234	19,284,043	7,617,386
New Hampshire	1929	0	22	269	141	26	118	58,585	200,165	227	652,204	613,360	8,934	1,000,505	318,211
	1927	5	24	271	104	26	78	85,408	228,565		718,339	710,227	8,112	1,170,319	461,010
New Jersey	1929	12	75	1,024	253		253	170,703	844,452	38,531	3,180,607	3,168,641	21,026	4,881,804	1,602,137
	1927	14	73	1,050	289		289	142,645	986,417	8,311	2,249,562	2,229,558	19,094	4,192,986	1,943,434
New York	1929	42	76	1,376	506		506	226,352	1,516,225	211,004	4,541,946	4,507,111	34,835	7,750,092	3,208,146
	1927	60	125	1,607	409		409	408,517	1,741,270	372,250	5,063,537	5,009,000	54,537	9,003,461	3,939,874
North Carolina	1929	11	59	1,763	447		447	210,822	991,806		3,810,625	3,789,788	20,837	5,543,631	1,733,006
	1927	11	52	1,392	391		391	117,201	844,718	136,016	2,957,981	2,945,243	12,738	4,581,317	1,623,306
Ohio	1929	21	112	1,082	513		513	301,849	1,276,881		3,570,250	3,553,118	20,132	6,167,025	2,588,675
	1927	32	167	1,953	549	14	535	408,015	1,542,283	64,633	4,117,342	4,080,917	30,325	7,423,752	3,306,610
Oklahoma	1929	4	20	176	295		295	47,658	112,198		265,803	262,440	3,363	480,207	222,404
	1927	3	12	173	56		56	32,053	120,593		322,485	310,020	2,465	598,611	276,126
Pennsylvania	1929	52	143	1,794	520	31	480	315,288	1,270,497	89,205	4,231,245	4,194,784	36,461	6,946,106	2,714,861
	1927	61	151	2,081	585	96	480	273,391	1,051,748	128,630	4,071,920	4,022,824	49,096	7,644,581	3,572,601
Tennessee	1929	15	98	1,631	353	15	338	280,915	833,839	173,171	4,092,277	4,067,673	24,604	6,025,645	1,933,368
	1927	18	101	1,418	373	50	323	213,963	851,715		2,717,621	2,699,843	17,678	4,534,020	1,817,099
Texas	1929	36	192	3,300	950	110	840	402,921	1,776,111	23,651	5,344,267	5,298,006	46,251	9,150,341	3,815,084
	1927	34	230	3,434	708		708	408,110	1,970,332	112,613	5,086,242	5,041,259	44,983	9,799,903	4,674,661
Utah	1929	3	22	292	63		63	51,275	188,256		514,531	500,800	4,008	903,796	380,262
	1927	4	10	304	100		100	42,581	230,109		677,780	669,629	8,151	1,187,052	500,272
Vermont	1929	4	16	184	60		60	51,415	100,065		293,836	291,778	2,058	558,893	265,057
	1927	3	23	116	39		39	62,815	81,987		178,324	176,510	1,805	371,009	193,285
Virginia	1929	15	83	1,001	509	3	506	159,827	924,937		3,172,579	3,148,670	23,909	4,766,363	1,593,784
	1927	14	92	1,500	354		354	179,546	906,414		3,193,362	3,136,235	27,127	4,854,233	1,600,871
Washington	1929	7	69	662	197		197	152,797	551,510		1,640,123	1,628,153	11,970	2,973,885	1,333,762
	1927	6	51	546	173		173	73,430	448,558		1,330,816	1,323,774	7,042	2,111,872	781,050
West Virginia	1929	5	22	464	133		133	45,535	228,643		995,408	990,069	5,399	1,432,506	437,038
	1927	5	17	389	111		111	36,945	208,795		693,075	688,369	4,706	1,101,658	438,583
Wisconsin	1929	13	67	657	199		199	174,575	605,114	203	1,782,808	1,764,626	17,882	3,210,172	1,427,364
	1927	16	105	847	250		250	299,301	716,908	750	2,124,931	2,104,421	20,510	4,072,974	1,948,043
Other States	1929	23	121	1,835	670	150	520	275,909	1,507,326	48,000	4,185,883	4,156,226	29,657	6,738,042	2,552,159
	1927	17	144	2,074	862	485	377	344,895	1,917,020	8,273	4,539,061	4,497,991	41,670	7,835,874	3,290,213

<sup>1</sup> Not including proprietors and firm members as follows: For 1929, 323; 1927, 423. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 41,196; 1927, 43,948.

<sup>2</sup> The figures refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products.

<sup>3</sup> Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

<sup>4</sup> Arizona, 1 establishment; Colorado, 3; Delaware, 1; District of Columbia 1; Florida, 1; Michigan, 0; Mississippi, 2; Nebraska, 2; Rhode Island, 2; South Carolina, 1.

<sup>5</sup> Colorado, 4 establishments; Michigan, 6; Mississippi, 1; Nebraska, 3; Oregon, 2; Rhode Island, 1.

CENSUS OF MANUFACTURES: 1929

TABLE 3.—CLOTHING, WORK, MEN'S—PRODUCTION, BY CLASS, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1929 AND 1927

[The figures for both census years refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products]

CLASS	1929		1927		CLASS	1929		1927		
	Quantity	Value	Quantity	Value		Quantity	Value	Quantity	Value	
1. Men's work-clothing industry, all products, total value.....		\$138,450,078		\$147,280,025	Men's work clothing, all industries—Continued. Denim, total.....	Dozens		Dozens		
2. Men's work clothing.....		113,576,101		123,186,445		6,530,140	\$79,484,579	6,267,030	\$81,694,767	
3. Other products (not normally belonging to the industry).....		23,056,659		21,072,727		Overalls.....	4,738,781	55,332,002	4,603,792	56,543,734
4. Receipts for contract work.....		1,817,318		2,429,853		Overall jackets.....	609,750	8,770,070	804,056	10,682,293
5. Men's work clothing made as secondary products in other industries.....		9,833,508		13,702,244		1-piece overall suits.....	323,468	5,153,396	277,078	5,578,153
Men's work clothing, all industries:						Work pants.....	611,713	8,337,886	553,004	8,568,129
Aggregate value (sum of 2 and 5).....		123,409,600		136,888,639		Other.....	165,437	1,884,316	18,410	292,458
						Other than denim, total.....	2,720,140	43,925,030	3,189,125	55,193,922
						Overalls.....	450,113	6,121,186	885,857	10,566,331
						Overall jackets.....	80,899	1,040,689	107,793	1,841,434
					1-piece overall suits.....	156,581	3,266,508	104,233	3,541,774	
					Work pants.....	1,483,712	20,874,008	1,717,649	26,291,111	
					Coats, sheep-lined.....	168,016	9,123,830	164,619	11,361,272	
					Coats, blanket-lined.....	45,059	1,044,272	31,711	840,242	
					Other.....	344,760	2,464,537	57,358	742,758	

1 Revised because of a change in the classification of certain products.

TABLE 4.—CLOTHING, WORK, MEN'S—PRINCIPAL CLASSES OF PRODUCTS, BY QUANTITY AND VALUE, BY STATES: 1929

[The figures refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products. Figures are given for each State which can be shown separately without disclosing data for individual establishments. Certain of the "Other States," however, reported larger quantities and values of the specified classes of products than some of the States shown separately]

CLASS AND STATE	Quantity	Value	CLASS AND STATE	Quantity	Value	CLASS AND STATE	Quantity	Value
Work clothing, denim, total.....	Dozens 6,530,140	\$79,484,579	Work clothing, denim—Con- 1-piece overall suits— Continued.....	Dozens		Work clothing, other than denim—Continued. Overall jackets—Contd.....	Dozens	
Overalls, total.....	4,738,781	55,332,002	Georgia.....	12,505	\$226,072	Pennsylvania.....	2,950	\$33,755
Alabama.....	63,970	740,661	Illinois.....	21,393	395,924	Texas.....	8,769	114,000
California.....	230,833	3,337,480	Indiana.....	22,215	411,433	Other States.....	44,912	498,744
Georgia.....	277,432	3,194,764	Iowa.....	5,987	102,079	1-piece overall suits, total.....	156,581	3,266,508
Illinois.....	299,372	3,536,091	Minnesota.....	8,302	132,777	California.....	4,361	123,695
Indiana.....	267,299	3,328,896	Missouri.....	19,136	697,618	Illinois.....	8,734	171,267
Iowa.....	90,971	1,208,150	Ohio.....	25,514	602,402	Indiana.....	20,521	469,257
Kansas.....	33,854	463,815	Pennsylvania.....	14,895	229,467	Iowa.....	6,138	101,854
Maryland.....	36,060	360,182	Texas.....	14,337	150,810	Maryland.....	15,770	281,432
Massachusetts.....	50,430	655,019	Washington.....	3,702	101,698	Ohio.....	6,200	122,710
Minnesota.....	168,111	2,026,240	Wisconsin.....	7,689	100,451	Pennsylvania.....	3,103	55,371
Missouri.....	453,826	6,230,635	Other States.....	143,746	1,830,841	Texas.....	9,405	166,644
New Hampshire.....	30,730	429,235	Work pants, total.....	611,713	8,337,886	Other States.....	82,220	1,774,278
New Jersey.....	40,848	570,971	California.....	26,417	475,601	Work pants, total.....	1,483,712	20,874,008
New York.....	65,293	923,788	Illinois.....	11,428	145,453	California.....	71,482	1,302,204
Ohio.....	254,843	2,792,030	Indiana.....	20,317	258,408	Illinois.....	31,636	627,163
Pennsylvania.....	138,626	1,638,579	Iowa.....	9,150	128,471	Indiana.....	53,011	831,890
Tennessee.....	198,008	2,225,218	Missouri.....	56,195	752,592	Iowa.....	8,298	141,773
Texas.....	176,046	2,323,159	New York.....	32,802	473,747	Maine.....	8,158	177,081
Utah.....	37,705	495,950	Ohio.....	52,021	1,131,581	Maryland.....	323,801	3,116,025
Virginia.....	361,413	3,374,422	Pennsylvania.....	51,686	650,579	Minnesota.....	6,564	107,502
Washington.....	78,698	1,031,475	Texas.....	34,840	441,513	Missouri.....	81,504	1,511,741
Wisconsin.....	110,681	1,732,371	Other States.....	310,851	3,893,940	New York.....	161,690	2,797,710
Other States.....	1,273,332	12,651,802	Other denim work cloth- ing.....	165,437	1,884,316	Ohio.....	59,497	770,541
Overall jackets, total.....	609,750	8,770,070	Work clothing, other than denim, total.....	2,729,140	43,925,030	Pennsylvania.....	153,299	1,966,131
Alabama.....	10,450	140,038	Overalls, total.....	450,113	6,121,186	Tennessee.....	42,619	520,959
California.....	17,420	240,529	California.....	13,757	261,222	Texas.....	180,770	2,361,430
Georgia.....	30,434	367,030	Georgia.....	8,853	108,435	Virginia.....	20,831	285,421
Illinois.....	44,760	521,709	Illinois.....	30,243	492,641	Wisconsin.....	14,330	243,231
Indiana.....	43,051	575,351	Indiana.....	62,229	696,237	Other States.....	254,482	3,988,240
Iowa.....	8,180	118,868	Massachusetts.....	31,300	406,246	Coats, sheep-lined, total.....	168,016	9,123,830
Massachusetts.....	11,863	167,408	Missouri.....	24,631	306,573	Massachusetts.....	32,485	1,629,715
Minnesota.....	33,690	405,712	New York.....	46,041	767,450	Minnesota.....	10,271	601,008
Missouri.....	70,240	993,876	Ohio.....	37,122	405,632	New Jersey.....	21,770	2,170,625
New Hampshire.....	10,494	152,089	Ohio.....	17,879	208,651	New York.....	31,543	1,065,876
New Jersey.....	12,238	188,037	Texas.....	27,101	421,035	Wisconsin.....	35,521	1,880,074
Ohio.....	58,586	680,548	Other States.....	154,957	1,904,014	Other States.....	16,650	904,637
Ontario.....	35,425	405,411	Overall jackets, total.....	80,899	1,040,689	Coats, blanket-lined.....	45,059	1,044,272
Pennsylvania.....	44,182	520,470	California.....	2,095	33,421	Work clothing, other than denim, not spec- ified above.....	344,760	2,464,537
Tennessee.....	31,190	416,376	Indiana.....	6,790	92,675			
Texas.....	20,216	200,952	Massachusetts.....	4,965	60,052			
Virginia.....	12,281	205,114	New York.....	6,018	120,153			
Washington.....	26,297	429,593	Ohio.....	4,394	57,889			
Wisconsin.....	169,690	1,905,955						
Other States.....								
1-piece overall suits, total.....	323,468	5,153,396						
Alabama.....	12,308	234,441						
California.....	6,720	143,093						

# MEN'S WORK CLOTHING

**TABLE 5.—CLOTHING, WORK, MEN'S—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS, ELECTRIC MOTORS, AND GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929**

TYPE	1929		1927		1925		Per cent distribution of rated horsepower capacity, 1929
	Number	Capacity	Number	Capacity	Number	Capacity	
Prime movers and electric motors driven by purchased energy, aggregate.....	4,385	<i>Horsepower</i> 11,493	3,510	<i>Horsepower</i> 11,218	2,627	<i>Horsepower</i> 11,542	100.0
Prime movers, total.....	12	565	21	1,351	33	2,731	4.9
Steam, total.....	4	233	10	1,004	18	2,283	2.0
Engines.....	4	233	10	1,004	17	2,253	2.0
Turbines.....					1	30	
Internal-combustion engines.....	4	161	8	131	8	230	1.4
Water wheels and water turbines.....	4	171	3	156	7	218	1.5
Electric motors driven by purchased energy.....	4,373	10,927	3,489	9,867	2,594	8,811	95.1
Electric motors, total.....	4,453	11,289	3,751	10,451	2,820	9,528	100.0
Driven by purchased energy.....	4,373	10,927	3,489	9,867	2,594	8,811	96.8
Driven by energy generated in establishments reporting.....	80	362	262	584	220	717	3.2
Electric generators.....	4	<i>Kilowatts</i> 319 <i>Kilowatt-hours</i>	11	<i>Kilowatts</i> 2,530	18	<i>Kilowatts</i> 1,580	
Electric energy purchased <sup>1</sup> .....		13,361,792		(?)		(?)	

<sup>1</sup> This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.

<sup>2</sup> Data incomplete.

**TABLE 6.—CLOTHING, WORK, MEN'S—WAGE EARNERS, BY MONTHS, BY STATES: 1929**

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by italic figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
United States: 1929 <sup>1</sup> .....	38,201	<i>34,650</i>	37,471	37,569	38,354	38,283	38,203	37,816	38,759	39,756	40,141	39,523	37,825	80.3
Alabama.....	792	803	838	859	847	829	792	748	<i>686</i>	707	793	815	788	79.0
Arkansas.....	380	382	382	382	382	380	380	382	382	382	382	375	370	96.9
California.....	1,888	<i>1,765</i>	1,830	1,861	1,802	1,890	1,917	1,874	1,931	1,961	1,972	1,940	1,830	89.4
Connecticut.....	87	<i>92</i>	92	92	92	92	92	88	88	88	88	88	87	90.2
Georgia.....	2,642	<i>2,542</i>	2,647	2,613	2,690	2,659	2,610	2,590	2,632	2,741	2,723	2,640	2,599	92.7
Illinois.....	1,795	<i>1,661</i>	1,702	1,720	1,749	1,749	1,736	1,779	1,884	1,868	1,896	1,886	1,807	87.1
Indiana.....	2,054	<i>2,801</i>	2,846	2,901	2,924	2,945	2,931	2,901	2,912	2,980	3,146	3,117	2,980	89.0
Iowa.....	890	<i>760</i>	853	867	860	861	873	920	944	963	956	958	937	82.0
Kansas.....	291	252	251	291	296	329	386	329	291	314	315	300	216	64.3
Kentucky.....	914	<i>914</i>	914	914	914	914	914	914	914	914	914	914	914	100.0
Louisiana.....	1,101	967	1,092	1,178	1,284	1,292	1,218	1,154	1,120	1,112	1,059	1,044	780	60.7
Maine.....	151	141	<i>140</i>	145	153	147	145	152	148	166	161	166	164	84.3
Maryland.....	679	665	671	684	667	688	667	654	660	682	708	702	714	91.6
Massachusetts.....	749	<i>670</i>	690	722	724	755	767	783	795	781	751	805	788	83.2
Minnesota.....	867	<i>777</i>	791	835	928	928	920	804	889	892	913	870	856	83.7
Missouri.....	3,200	<i>2,847</i>	2,998	3,030	3,199	3,238	3,283	3,131	3,294	3,491	3,476	3,300	3,155	81.6
New Hampshire.....	269	263	263	272	280	286	266	273	249	252	269	271	266	82.4
New Jersey.....	1,024	910	887	936	989	1,022	1,042	1,079	1,048	1,087	1,111	1,108	1,066	79.8
New York.....	1,376	<i>1,208</i>	1,270	1,300	1,376	1,372	1,356	1,343	1,399	1,460	1,475	1,479	1,464	81.7
North Carolina.....	1,763	<i>1,717</i>	1,703	1,736	1,745	1,732	1,694	1,752	1,763	1,839	1,840	1,823	1,816	92.1
Ohio.....	1,682	<i>1,606</i>	1,625	1,668	1,627	1,638	1,639	1,591	1,648	1,740	1,867	1,700	1,737	85.2
Oklahoma.....	176	181	181	182	179	169	168	162	162	179	186	178	180	87.1
Pennsylvania.....	1,794	<i>1,667</i>	1,795	1,848	1,849	1,849	1,832	1,807	1,782	1,795	1,779	1,846	1,814	84.7
Tennessee.....	1,631	<i>1,192</i>	1,660	1,720	1,718	1,643	1,665	1,529	1,647	1,710	1,764	1,731	1,693	93.0
Texas.....	3,390	<i>2,624</i>	3,768	3,259	3,299	3,448	3,428	3,355	3,707	3,724	3,629	3,467	2,980	69.0
Utah.....	292	270	279	292	306	316	321	318	311	320	310	271	192	59.8
Vermont.....	184	<i>170</i>	180	180	184	185	183	181	183	186	186	190	188	92.6
Virginia.....	1,604	<i>1,463</i>	1,576	1,628	1,671	1,648	1,554	1,477	1,589	1,624	1,682	1,684	1,645	86.4
Washington.....	662	619	699	645	638	676	669	678	667	665	693	660	735	78.4
West Virginia.....	464	486	492	501	494	447	459	437	451	455	482	467	455	80.4
Wisconsin.....	657	<i>626</i>	640	656	669	662	661	630	667	678	666	669	630	91.3

<sup>1</sup> No comparable figures available for years prior to 1929.

## CLOTHING, WOMEN'S, NOT ELSEWHERE CLASSIFIED

Description of the industry.—The establishments classified in this industry are those whose principal products are women's, girls', and children's clothing (except that made in knitting mills), such as suits, dresses, skirts, petticoats, kimonos, dressing sacks, house dresses, bungalow aprons, jackets, capes, under-

wear, shirt waists, bathing suits, dress shields, etc. The manufacture of corsets, millinery, gloves and mittens, footwear and hosiery, and of underwear and outerwear made in knitting mills, is not included, as these products are classified in other industries. (See "Contract work," p. 354, and Tables 1, 2, 7, and 8.)

TABLE 1.—CLOTHING, WOMEN'S—SUMMARY FOR ALL FACTORIES, REGULAR FACTORIES, AND CONTRACT SHOPS, FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1910 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Paid for contract work	Cost of materials, fuel, and purchased electric energy	Value of products and receipts for contract work	Value added by manufacture <sup>2</sup>	Horsepower
<b>ALL FACTORIES</b>								
1929.....	5,082	187,500	\$243,851,143	\$153,095,271	\$634,413,083	\$1,700,580,505	\$775,166,822	35,201
1927.....	7,598	154,450	211,349,759	147,901,520	809,520,125	1,494,401,044	684,880,919	30,287
1925.....	6,127	126,400	175,044,511	128,523,824	724,208,074	1,293,705,291	569,400,317	24,310
1923.....	7,040	133,105	176,445,518	143,749,253	809,590,802	1,406,683,835	597,123,033	27,704
1921.....	7,001	144,865	185,032,103	61,520,535	567,810,452	1,022,742,796	454,032,344	(3)
1919.....	7,711	165,619	195,295,834	52,420,107	680,400,844	1,208,543,123	528,136,284	32,421
1914.....	5,591	108,907	92,573,642	15,843,554	252,345,040	473,888,354	221,543,914	27,874
1909.....	4,558	153,743	78,593,261	10,186,052	208,788,220	384,761,049	175,903,423	21,461
1904.....	3,351	115,765	51,130,193	6,969,701	130,719,996	247,001,560	116,941,564	13,818
1899.....	2,701	83,730	32,586,101	5,155,193	81,701,592	150,330,539	74,634,047	8,510
Per cent of increase or decrease (—):								
1927-1929.....	6.5	21.4	15.4	3.5	15.4	14.4	13.2	16.5
1925-1927.....	23.8	22.1	20.7	15.1	11.8	15.5	20.3	24.0
1923-1925.....	-13.0	-5.1	-0.8	-10.6	-10.5	-8.0	-4.6	-12.2
1921-1923.....	-0.2	-8.1	-4.7	133.6	42.6	37.5	31.3	-----
1919-1921.....	-8.4	-12.5	-5.2	17.4	-10.5	-15.4	-13.9	-----
1919-1929.....	4.8	13.2	24.0	192.0	37.3	41.5	40.8	8.0
1909-1919.....	69.2	7.7	148.0	414.7	225.0	214.1	200.1	51.1
1899-1909.....	68.8	83.6	141.1	97.6	146.5	141.5	135.8	162.1
<b>REGULAR FACTORIES</b>								
1929.....	5,176	139,393	\$181,006,287	\$161,801,747	\$626,583,451	\$1,005,220,090	\$678,637,239	25,366
1927.....	4,928	116,932	158,371,502	146,003,606	707,310,623	1,308,930,522	601,619,880	22,385
1925.....	4,230	99,525	138,092,124	127,422,778	718,512,427	1,232,579,605	514,067,178	18,784
1923.....	5,456	112,132	150,789,366	142,587,089	804,328,130	1,301,272,046	556,044,507	22,872
1921.....	5,471	124,503	160,095,724	60,404,500	564,077,126	978,925,817	414,848,091	(3)
1919.....	5,516	139,097	162,973,102	50,816,302	669,071,033	1,146,312,346	477,241,313	26,607
1914.....	4,470	151,950	85,898,447	15,702,559	251,329,641	462,005,315	210,675,674	24,563
1909.....	3,709	139,721	71,578,317	(4)	207,890,779	374,332,945	160,442,166	(3)
Per cent of increase or decrease (—):								
1927-1929.....	5.0	19.2	14.7	4.0	10.2	14.7	12.8	13.3
1925-1927.....	16.5	17.5	14.7	14.6	11.0	13.5	17.0	19.2
1923-1925.....	-22.5	-11.2	-8.4	-10.0	-10.7	-9.5	-7.7	-17.9
1921-1923.....	-0.3	-9.9	-6.1	136.1	43.6	39.1	34.3	-----
1919-1921.....	-0.8	-10.5	-1.4	18.9	-15.7	-14.6	-13.1	-----
1919-1929.....	-6.2	0.2	11.4	198.8	38.5	40.0	42.2	-4.9
1909-1919.....	48.7	-0.4	127.7	-----	221.8	206.2	186.7	-----
<b>CONTRACT SHOPS</b>								
1929.....	2,906	48,107	\$62,244,856	\$1,233,524	\$7,830,232	\$104,359,815	\$66,529,583	9,925
1927.....	2,669	37,527	52,978,107	1,897,920	12,209,492	95,470,522	83,261,030	7,902
1925.....	1,897	26,941	36,052,387	1,101,040	5,780,547	61,125,086	55,330,130	5,532
1923.....	1,590	21,063	25,656,152	1,161,264	5,242,663	45,411,189	40,178,529	4,832
1921.....	1,590	20,302	24,416,384	1,121,976	3,733,326	43,816,979	40,083,053	(3)
1919.....	2,195	26,552	32,322,732	1,009,865	11,335,811	62,230,782	50,804,071	5,754
1914.....	1,094	16,957	6,765,195	80,905	1,015,399	11,883,039	10,867,040	3,311
1909.....	840	14,022	6,089,944	(5)	807,447	10,418,704	9,521,257	(3)
Per cent of increase or decrease (—):								
1927-1929.....	9.2	28.2	17.5	-35.0	-35.0	9.3	15.0	25.0
1925-1927.....	40.2	39.3	43.4	72.4	111.0	56.2	50.5	42.8
1923-1925.....	19.3	27.9	44.0	-5.2	10.6	34.6	37.7	14.5
1921-1923.....	-----	3.4	5.1	3.5	40.2	3.6	0.2	-----
1919-1921.....	-27.6	-23.3	-24.5	-30.3	-67.1	-29.6	-21.2	-----
1919-1929.....	32.4	81.2	92.6	-23.4	-30.9	67.7	80.7	72.5
1909-1919.....	158.5	89.4	362.4	-----	1,163.1	497.3	434.5	-----

<sup>1</sup> The figures for all years refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products.

<sup>2</sup> Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

<sup>3</sup> Not called for on schedule.

<sup>4</sup> No comparable data for years prior to 1909.

<sup>5</sup> No comparable data.

# CLOTHING, WOMEN'S, NOT ELSEWHERE CLASSIFIED

**TABLE 2.—CLOTHING, WOMEN'S—GENERAL STATISTICS, FOR ALL FACTORIES, REGULAR FACTORIES, AND CONTRACT SHOPS, BY STATES: 1929, 1927, AND 1919**

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups. Certain of the States for which combined figures are shown, however, reported larger values of products than some of the States for which separate figures are given. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Cen- sus year	Num- ber of estab- lish- ments	Salar- ied officers and em- ploy- ees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POW- ER EQUIPMENT			Salaries	Wages	Paid for contract work	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products and receipts for contract work	Value added by manufac- ture <sup>1</sup>
					Total	Prime movers	Motors run by pur- chased energy				Total	Materials	Fuel and pur- chased energy		
<b>ALL FACTORIES</b>															
United States...	1929	8,082	27,215	187,500	35,201	366	34,925	\$83,916,680	\$243,851,143	\$153,005,271	\$634,413,083	\$929,786,424	\$4,027,250	\$1,709,580,505	\$775,104,822
	1927	7,888	24,619	154,459	30,287	630	29,648	62,200,310	211,340,760	147,901,520	806,520,125	805,330,816	4,189,300	1,494,401,044	684,880,919
	1919	7,711	26,228	165,649	32,421	2,887	20,534	59,035,975	195,295,834	52,420,167	680,406,844	677,869,534	2,517,310	1,208,543,128	528,130,294
Arkansas.....	1929	7	5	274	48		48	6,800	114,360		203,650	290,285	3,365	541,034	247,384
California.....	1929	305	901	7,165	1,371		1,371	1,976,568	8,328,318	577,778	20,426,652	20,328,900	97,692	38,577,296	18,150,644
	1927	214	661	4,643	1,057		1,057	1,212,183	5,321,480	440,101	14,113,038	14,048,379	65,550	26,111,050	11,098,012
	1919	165	353	3,124	629		629	585,623	2,638,002	151,637	8,520,442	8,490,488	29,054	14,245,865	5,716,423
Colorado.....	1929	7	24	149	27		27	42,448	97,474		276,801	276,107	1,697	559,657	282,853
	1927	5	24	165	36		36	42,401	100,638		320,800	320,450	3,419	621,030	291,211
Connecticut.....	1929	73	221	3,484	670		670	613,013	2,807,368	128,207	4,309,523	4,219,031	60,492	0,416,328	5,100,805
	1927	48	263	2,404	778	158	620	544,676	2,222,707	18,299	3,736,574	3,680,577	46,997	8,191,740	4,455,172
	1919	60	169	2,058	486	200	286	360,822	1,316,631	106,950	4,067,063	4,032,559	34,634	7,426,067	3,359,874
Florida.....	1929	7	13	100	19		19	21,608	52,483		117,650	116,242	1,408	240,288	122,638
	1927	3	5	25	8		8	0,002	20,402		35,803	34,795	1,008	73,976	38,173
Georgia.....	1929	11	47	705	149		149	173,726	346,679	4,200	1,087,112	1,071,904	15,118	2,621,830	694,718
	1927	6	29	200	38	3	35	65,163	178,157		726,108	714,028	6,080	1,130,165	410,057
	1919	13	89	340	81		81	144,636	258,655		1,088,841	1,001,164	7,677	1,612,972	604,131
Illinois.....	1929	402	1,414	13,802	2,250		2,250	4,340,017	14,924,067	900,042	40,168,514	39,880,897	287,617	75,649,695	35,481,181
	1927	406	1,180	11,079	1,798		1,798	2,923,399	12,300,502	530,802	35,836,797	35,636,210	203,587	63,538,705	27,701,908
	1919	398	1,593	10,278	2,092		2,092	4,535,870	11,487,390	1,478,669	41,135,608	40,987,702	147,066	68,044,298	26,908,690
Indiana.....	1929	18	210	1,524	273		273	445,400	1,020,274	30,107	2,085,187	2,662,793	22,894	5,121,100	2,430,000
	1927	14	184	879	148		148	313,016	603,065	31,715	1,602,032	1,586,724	16,308	3,531,204	1,620,172
	1919	26	173	1,200	274		274	370,230	602,140	20,013	1,014,081	1,002,400	11,681	3,307,360	1,483,228
Iowa.....	1929	8	18	210	138		138	38,705	138,295	170,812	1,161,967	1,166,117	5,850	2,379,039	1,217,116
	1927	6	30	132	56		56	72,251	105,008	147,143	1,018,740	1,015,186	3,554	1,976,987	996,167
	1919	10	106	503	405	275	130	232,714	316,615		1,145,480	1,102,850	42,634	2,060,149	923,609
Kansas.....	1929	4	10	35	9		9	0,227	19,310		28,100	27,252	848	58,838	30,738
Louisiana.....	1929	7	48	328	30	2	28	99,311	116,198	31,574	579,586	575,277	4,309	997,623	418,037
	1927	6	29	181	22		22	31,183	87,650	22,016	280,033	287,967	1,004	623,050	234,017
	1919	12	39	206	57		57	52,148	120,741	47,358	658,431	655,873	2,758	1,095,033	436,622
Maryland.....	1929	80	298	3,769	822	20	802	853,220	3,153,128	633,083	8,565,430	8,500,880	64,550	16,685,638	8,120,208
	1927	80	390	3,184	652	8	644	731,647	2,890,069	645,494	8,563,130	8,507,079	55,451	16,022,165	7,459,035
	1919	125	504	2,822	574	6	568	889,297	2,658,275	160,613	7,767,812	7,718,857	38,955	13,884,281	6,126,469
Massachusetts.....	1929	312	789	6,874	1,404	15	1,389	2,150,328	7,738,173	1,828,567	23,287,719	23,150,984	136,735	43,100,899	19,813,150
	1927	277	654	6,022	1,337	5	1,332	1,447,549	7,209,370	1,561,518	19,070,783	18,962,375	108,408	35,649,142	16,878,359
	1919	258	740	6,271	1,622	472	1,150	1,516,106	6,610,403	674,593	17,073,517	17,877,512	95,705	30,427,602	12,454,075
Michigan.....	1929	27	130	1,420	273		273	294,155	1,027,440	40,504	3,306,862	3,270,494	37,369	5,855,857	2,578,995
	1927	25	82	1,000	233		233	212,871	802,179		2,733,092	2,714,681	18,411	4,738,898	2,005,796
	1919	33	132	1,036	262	15	247	330,863	750,422	1,528	2,273,003	2,255,644	17,359	3,923,300	1,650,207
Minnesota.....	1929	29	169	831	173		173	238,403	630,374	5,028	2,282,937	2,260,301	16,636	4,085,453	1,802,516
	1927	26	93	850	172		172	171,861	599,093	800	2,048,550	2,028,407	20,662	3,694,270	1,645,717
	1919	23	99	220	71		71	96,913	140,894		470,160	469,119	4,047	800,235	420,099
Mississippi.....	1929	7	18	244	46		46	17,854	83,730		337,204	334,670	2,534	528,823	101,610
Missouri.....	1929	117	577	6,903	963		963	1,765,853	6,076,882	171,219	17,516,565	17,469,372	107,193	30,690,469	13,143,844
	1927	107	495	4,901	778		778	1,450,144	5,137,549	168,023	15,898,734	15,818,581	80,153	26,637,797	11,230,063
	1919	110	652	3,308	534		534	1,392,697	2,883,470	20,594	11,493,486	11,447,402	46,084	16,433,548	6,946,062
New Jersey.....	1929	240	508	8,972	1,788	4	1,784	1,344,062	7,825,447	821,320	10,387,456	10,105,729	101,727	25,414,837	15,027,381
	1927	190	469	6,008	1,115	40	1,075	969,691	6,048,072	411,104	7,817,772	7,654,559	163,213	18,649,387	10,811,615
	1919	255	444	5,696	1,393	309	1,087	885,484	4,417,131	340,293	6,316,293	6,221,638	94,655	17,900,421	8,584,128
New York.....	1929	5,704	19,136	102,000	18,349	80	18,269	62,809,421	164,140,330	143,192,100	725,778,132	722,680,544	3,097,588	1,308,065,100	582,286,977
	1927	5,494	17,412	90,004	17,102	96	17,006	45,729,942	146,006,825	140,026,429	630,786,242	628,040,875	2,745,367	1,163,589,568	532,803,326
	1919	5,288	17,212	102,652	17,706	478	17,228	38,896,773	137,673,001	46,360,091	493,428,430	491,820,547	1,598,883	886,083,500	393,555,979
Ohio.....	1929	143	827	6,035	1,338	48	1,290	2,355,476	6,528,693	2,127,708	19,328,522	19,227,621	100,901	38,636,243	19,207,721
	1927	138	889	5,402	1,442	102	1,250	2,746,731	6,707,124	1,360,676	21,709,923	21,300,310	319,613	30,400,848	17,690,925
	1919	175	1,654	8,258	2,008	459	1,519	4,204,890	8,641,830	599,855	26,077,020	25,965,475	111,545	45,703,704	22,626,684
Oregon.....	1929	20	53	505	74		74	110,764	452,804	8,087	1,335,525	1,326,448	9,077	2,434,922	1,099,397
	1927	10	50	407	66	3	69	109,383	392,823		1,459,601	1,451,736	7,865	2,180,142	720,541
	1919	7	3	53	11		11	3,530	44,265		82,586	81,309	1,277	153,605	71,109

See footnotes at end of table.

CENSUS OF MANUFACTURES: 1929

TABLE 2.—CLOTHING, WOMEN'S—GENERAL STATISTICS, FOR ALL FACTORIES, REGULAR FACTORIES, AND CONTRACT SHOPS, BY STATES: 1929, 1927, AND 1919—Continued

[See note at head of this table]

STATE	Census year	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	Paid for contract work	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products and receipts for contract work	Value added by manufacture
					Total	Prime movers	Motors run by purchased energy				Total	Materials	Fuel and purchased energy		
ALL FACTORIES—Continued															
Pennsylvania	1929	380	1,098	14,688	3,235	194	3,041	\$2,508,639	\$13,267,044	\$2,005,740	\$39,222,182	\$38,966,808	\$255,376	\$74,240,029	\$35,017,847
	1927	395	1,100	11,730	2,484	133	2,351	2,315,463	11,210,404	1,790,278	33,114,421	32,883,037	231,384	60,359,402	27,245,041
	1919	615	1,799	14,364	3,223	528	2,695	3,020,834	14,325,884	2,407,878	40,217,056	46,038,020	179,060	77,473,720	31,256,643
Tennessee	1929	10	49	550	110	3	107	118,823	282,242	0,080	619,032	609,847	0,185	1,313,068	694,036
	1927	7	32	431	82		82	104,906	251,551		707,071	759,614	8,367	1,547,071	779,100
	1919	7	63	188	28		28	136,839	95,468	34,301	913,452	917,110	2,342	1,067,510	744,065
Texas	1929	38	143	1,954	248		248	328,311	1,021,752	175,543	2,624,920	2,596,273	28,647	5,310,071	2,089,051
	1927	26	90	923	152	1	151	128,332	480,527	85,329	1,308,537	1,296,882	11,655	2,627,293	1,318,756
	1919	10	29	192	42		42	60,694	109,560	319	414,679	410,602	4,077	703,143	288,404
Vermont	1929	5	18	309	68		68	31,862	208,819		193,085	157,283	0,402	585,902	392,217
	1927	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )
	1919	7	32	348	147	75	72	70,939	197,124	748	308,509	300,322	7,987	799,773	487,994
Virginia	1929	6	20	198	36		36	40,307	142,745	1,521	487,365	484,423	2,942	838,078	350,713
	1927	4	19	245	34		34	23,455	150,322		280,017	277,097	2,320	564,100	264,149
Washington	1929	39	120	1,213	333		333	365,759	986,213	4,015	2,350,039	2,342,926	13,110	4,741,107	2,385,071
	1927	27	100	745	179		179	256,442	664,341	1,300	1,787,598	1,780,021	7,547	3,283,663	1,499,095
	1919	20	47	282	81		81	79,546	252,922	6,088	609,311	607,048	2,263	1,171,227	561,910
West Virginia	1929	6	24	703	148		148	49,593	493,980		1,221,728	1,211,540	10,188	2,361,038	1,139,310
Wisconsin	1929	30	153	1,464	287		287	402,613	1,085,682	84,665	2,634,782	2,606,119	28,663	5,577,319	2,642,537
	1927	24	136	959	197		197	292,343	760,857	15,271	2,832,307	2,809,180	23,127	5,145,913	2,313,606
	1919	29	143	844	265		265	201,528	427,379	5,661	2,014,730	2,000,741	13,989	3,221,429	1,206,696
Groups of States:															
Ala., 1 est.; N. C., 4; S. C., 2															
	1929	7	14	185	167		167	28,914	94,421		214,833	210,807	4,026	562,632	347,199
Del., 2 est.; D. C., 2; Ky., 5; Mo., 2 est.; N. H., 3; R. I., 5; Nebr., 2 est.; Okla., 2; Utah, 4															
	1929	9	103	372	35		35	203,863	278,805	53,009	417,309	413,564	3,745	1,542,210	1,124,001
	1929	10	10	206	50		50	68,821	220,929		565,030	558,341	6,689	1,038,360	473,339
	1929	8	29	134	45		45	52,886	77,959		205,684	202,407	3,187	509,354	213,670
States not shown separately															
	1927	35	182	1,274	321		321	359,392	937,068	61,353	2,128,574	2,088,800	39,768	4,651,480	2,522,906
	1919	59	147	1,340	631	43	588	273,517	861,011	13,138	2,597,488	2,575,040	21,842	4,321,452	1,723,964
REGULAR FACTORIES															
United States															
	1929	5,176	24,752	139,393	25,860	325	25,941	77,578,334	181,606,287	151,861,747	926,583,451	923,199,435	3,474,016	1,005,220,600	678,637,239
	1927	4,028	22,403	110,032	22,386	591	21,794	57,663,868	158,371,592	146,003,606	797,310,633	794,130,460	3,180,173	1,308,930,522	601,619,880
Arkansas	1929	7	5	274	48		48	6,890	114,366		293,650	290,285	3,365	541,034	247,384
California	1929	281	897	6,899	1,296		1,296	1,973,258	8,117,090	570,870	20,395,533	20,362,587	62,948	38,215,904	17,819,471
	1927	207	661	4,573	1,036		1,036	1,212,183	5,264,770	438,898	14,108,535	14,044,977	33,658	26,000,635	11,897,500
Colorado	1929	7	24	149	27		27	42,448	97,474		270,894	275,107	1,697	559,657	282,853
	1927	5	24	165	36		36	42,401	100,938		329,869	329,450	3,410	621,080	291,211
Connecticut	1929	30	164	1,721	713		713	467,890	1,414,312	73,871	4,250,533	4,218,585	31,948	7,329,189	3,078,056
	1927	23	225	1,401	629	158	471	468,364	1,368,024	4,613	3,702,991	3,672,342	30,349	6,945,884	3,243,193
Florida	1929	7	13	100	19		19	21,008	52,483		117,050	116,242	1,408	240,288	122,638
	1927	3	5	25	8		8	9,002	20,402		35,893	34,705	1,008	73,970	38,173
Illinois	1929	368	1,380	13,193	2,054		2,054	4,304,790	14,264,293	900,042	39,031,800	39,063,893	207,997	74,168,577	34,293,777
	1927	368	1,160	10,579	1,673		1,673	2,902,705	11,845,094	629,827	35,737,811	35,544,213	193,598	62,700,707	27,022,596
Iowa	1929	8	18	219	138		138	38,705	138,265	170,812	1,161,967	1,156,117	5,850	2,370,683	1,217,116
	1927	6	39	132	56		56	72,251	105,608	147,143	1,048,740	1,045,186	3,554	1,957,907	900,167
Louisiana	1929	7	48	328	30	2	28	99,311	116,198	31,574	570,586	575,272	4,300	907,623	418,637
	1927	6	29	181	22		22	31,183	87,650	22,010	280,933	287,907	1,066	523,050	234,017
Maryland	1929	63	252	3,244	609		609	820,198	2,824,304	635,083	8,540,400	8,402,740	59,651	16,252,656	7,702,655
	1927	73	375	2,867	589		589	698,969	2,637,735	845,464	8,533,074	8,484,723	48,351	16,063,693	7,130,529
Massachusetts	1929	246	760	6,099	1,259	15	1,244	2,104,477	6,842,987	1,895,368	23,201,001	23,078,058	122,343	41,654,014	18,453,013
	1927	214	619	5,379	1,096	6	1,091	1,413,127	6,334,162	1,546,150	18,940,117	18,854,125	91,992	34,251,632	15,305,515
Michigan	1929	27	130	1,420	273		273	294,155	1,027,440	40,564	3,306,802	3,270,404	27,398	5,885,857	2,578,995
Mississippi	1929	4	16	199	36		36	16,784	64,517		331,924	329,539	2,388	470,500	185,669
New Jersey	1929	67	286	3,529	752		752	800,704	2,919,434	648,812	9,053,463	9,885,739	67,724	17,552,145	7,668,682
	1927	68	302	2,711	448		448	652,330	2,344,128	290,760	7,433,823	7,361,388	72,435	13,245,057	5,812,134

See footnotes at end of table.

# CLOTHING, WOMEN'S, NOT ELSEWHERE CLASSIFIED

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**TABLE 2.—CLOTHING, WOMEN'S—GENERAL STATISTICS, FOR ALL FACTORIES, REGULAR FACTORIES, AND CONTRACT SHOPS, BY STATES: 1929, 1927, AND 1919—Continued**

[See note at head of this table]

STATE	Census year	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	Paid for contract work	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products and receipts for contract work	Value added by manufacture <sup>1</sup>
					Total	Prime movers	Motors run by purchased energy				Total	Materials	Fuel and purchased energy		
<b>REGULAR FACTORIES—con.</b>															
New York	1929	3,322	17,207	68,435	11,609	66	11,543	\$57,631,363	\$113,668,424	\$142,257,532	\$719,101,293	\$716,040,402	\$2,220,801	\$1,222,600,081	\$503,430,088
	1927	3,235	15,580	61,245	10,982	99	10,880	41,768,224	101,113,533	138,899,829	619,650,075	617,034,077	1,024,998	1,080,204,309	460,704,724
Ohio	1929	107	805	5,279	1,140	48	1,101	2,290,750	5,737,437	2,127,510	19,291,454	19,203,495	87,959	37,465,536	18,174,082
	1927	111	879	5,107	1,302	192	1,200	2,731,812	6,310,019	1,300,076	21,070,715	21,367,053	312,002	38,828,704	17,140,049
Oregon	1929	20	53	505	74	---	74	110,764	452,804	8,087	1,335,525	1,326,448	9,077	2,434,022	1,000,307
	1927	10	50	407	66	3	63	109,383	362,823	---	1,459,001	1,451,736	7,265	2,180,142	720,841
Pennsylvania	1929	288	900	11,471	2,358	104	2,164	2,307,179	11,292,822	1,003,078	39,009,554	38,802,470	207,075	71,210,373	32,200,810
	1927	307	1,031	10,071	2,072	133	1,930	2,203,911	10,032,188	1,765,106	32,909,857	32,771,030	108,827	58,532,800	25,593,509
Virginia	1929	0	20	198	30	---	30	40,307	142,745	1,521	487,365	484,423	2,942	898,078	350,713
	1927	4	19	245	34	---	34	23,455	150,822	---	280,017	277,007	2,320	544,106	204,140
Wisconsin	1929	27	179	1,386	258	---	258	397,304	1,037,000	84,065	2,027,053	2,000,382	26,671	5,000,220	2,576,107
	1927	24	136	950	197	---	197	292,343	750,887	15,271	2,832,307	2,800,180	23,127	5,145,013	2,571,006
Other States	1919	289	1,400	14,838	2,508	---	2,508	3,800,530	11,281,832	423,058	32,021,034	31,787,020	233,405	58,022,404	20,001,430
	1927	204	1,200	10,894	2,052	4	2,048	3,033,119	9,593,573	348,464	28,364,465	28,102,912	261,553	61,384,441	23,019,070
<b>CONTRACT SHOPS</b>															
United States	1929	2,006	2,403	48,107	0,025	41	0,884	6,338,346	62,244,850	1,233,524	7,830,232	6,070,080	1,153,213	104,350,815	90,529,583
	1927	2,060	2,216	37,527	7,002	48	7,854	4,605,448	52,978,197	1,807,020	12,290,492	11,200,350	1,000,130	95,470,522	89,261,030
California	1929	24	4	260	75	---	75	3,250	211,258	7,108	31,110	20,376	4,744	302,292	391,173
	1927	7	---	70	21	---	21	---	50,713	1,203	5,403	3,402	2,001	105,915	100,512
Connecticut	1929	43	57	1,703	257	---	257	145,123	1,393,056	54,420	58,900	30,440	28,544	2,087,139	2,028,140
	1927	25	38	1,003	149	---	149	76,312	854,083	13,080	33,883	17,235	10,048	1,245,802	1,211,070
Illinois	1929	39	25	999	205	---	205	44,218	659,714	---	236,714	217,004	19,020	1,481,118	1,244,404
	1927	38	17	500	125	---	125	20,094	454,898	975	98,986	88,997	9,989	777,008	670,012
Maryland	1929	17	16	525	153	20	133	33,022	328,824	---	16,030	8,131	7,809	433,583	417,553
	1927	13	21	317	60	8	68	33,578	248,334	---	30,056	22,950	7,100	358,502	328,506
Massachusetts	1929	66	29	775	145	---	145	45,851	955,186	23,190	86,718	72,326	14,302	1,440,855	1,300,137
	1927	63	35	643	241	---	241	34,422	872,218	5,368	124,600	108,250	16,410	1,397,510	1,272,844
Mississippi	1929	3	2	45	10	---	10	1,070	10,213	---	5,280	5,134	140	58,293	52,053
	1927	---	---	---	---	---	---	---	---	---	---	---	---	---	---
New Jersey	1929	179	222	5,440	1,036	4	1,032	544,258	4,900,013	172,514	433,903	300,090	124,003	7,892,692	7,428,009
	1927	131	158	3,897	607	40	627	317,255	3,703,944	120,564	383,040	293,171	90,778	5,403,430	5,010,481
New York	1929	2,382	1,929	33,061	6,740	14	6,726	5,178,058	50,480,006	904,508	6,610,839	5,740,142	876,097	85,464,128	78,847,280
	1927	2,259	1,832	28,759	6,120	---	6,120	3,961,718	44,983,292	1,720,597	11,226,507	10,400,108	820,309	83,325,160	72,068,602
Ohio	1929	36	22	750	180	---	180	55,729	701,156	108	37,068	24,120	12,042	1,070,707	1,033,030
	1927	27	10	295	50	---	50	14,919	397,105	500	30,298	23,267	6,961	572,084	541,876
Pennsylvania	1929	92	108	3,217	877	---	877	201,460	1,005,122	41,708	212,628	164,327	48,301	3,020,060	2,817,028
	1927	88	78	1,659	412	---	412	111,542	1,187,210	35,172	145,064	111,968	33,060	1,820,500	1,681,532
Wisconsin	1929	3	4	78	29	---	29	5,300	48,592	---	7,720	5,737	1,092	74,090	68,370
	1927	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Other States	1919	22	4	870	209	3	200	81,001	485,810	20,743	87,124	73,101	13,903	980,213	902,180
	1927	9	27	384	61	---	61	35,008	210,794	65	130,710	124,892	5,818	457,390	320,088

<sup>1</sup> The figures refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products.

<sup>2</sup> Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

<sup>3</sup> Not including proprietors and firm members, as follows: For 1929, 7,689; 1927, 8,389; 1919, 10,360. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 222,404; 1927, 187,464; 1919, 202,243.

<sup>4</sup> Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919 but not in the United States totals.

<sup>5</sup> Withheld from publication to avoid disclosing data for individual establishments.

<sup>6</sup> Arkansas, 1 establishment; Delaware, 1; District of Columbia, 2; Kansas, 2; Kentucky, 4; Maine, 2; Mississippi, 1; Nebraska, 3; New Hampshire, 4; North Carolina, 1; Rhode Island, 4; Utah, 1; Vermont, 4; West Virginia, 5.

<sup>7</sup> Alabama, 1 establishment; Colorado, 4; Delaware, 2; District of Columbia, 3; Florida, 1; Kentucky, 10; Maine, 7; Nebraska, 4; Nevada, 1; New Hampshire, 5; North Carolina, 2; Rhode Island, 7; Utah, 2; Virginia, 6; West Virginia, 4.

<sup>8</sup> No comparable figures for years prior to 1927.

<sup>9</sup> Not including proprietors and firm members, as follows: For 1929, 4,553; 1927, 5,120. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 108,098; 1927, 144,455.

<sup>10</sup> Alabama, 1 establishment; Delaware, 1; District of Columbia, 2; Georgia, 9; Indiana, 10; Kansas, 3; Kentucky, 4; Maine, 2; Minnesota, 28; Missouri, 112; Nebraska, 2; New Hampshire, 3; North Carolina, 4; Oklahoma, 2; Rhode Island, 5; Tennessee, 9; Texas, 80; Utah, 4; Vermont, 3; Washington, 38; West Virginia, 5.

<sup>11</sup> Arkansas, 1 establishment; Delaware, 1; District of Columbia, 2; Georgia, 6; Indiana, 14; Kansas, 2; Kentucky, 4; Maine, 2; Michigan, 23; Minnesota, 20; Mississippi, 1; Missouri, 104; Nebraska, 3; New Hampshire, 4; North Carolina, 1; Rhode Island, 3; Tennessee, 7; Texas, 24; Utah, 1; Vermont, 3; Washington, 27; West Virginia, 5.

<sup>12</sup> Not including proprietors and firm members, as follows: For 1929, 3,136; 1927, 3,206. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 63,706; 1927, 43,000.

<sup>13</sup> Delaware, 1 establishment; Georgia, 2; Indiana, 2; Kansas, 1; Kentucky, 1; Minnesota, 1; Missouri, 5; South Carolina, 2; Tennessee, 1; Texas, 2; Vermont, 2; Washington, 1; West Virginia, 1.

<sup>14</sup> Michigan, 2 establishments; Missouri, 3; Rhode Island, 1; Texas, 2; Vermont, 1.

## CENSUS OF MANUFACTURES: 1929

TABLE 3.—CLOTHING, WOMEN'S—SUMMARY FOR ALL FACTORIES, FOR LEADING STATES: 1929, 1927, 1925, AND 1923

STATE	NUMBER OF ESTABLISHMENTS				WAGE EARNERS (AVERAGE FOR THE YEAR)				WAGES			
	1929	1927	1925	1923	1929	1927	1925	1923	1929	1927	1925	1923
United States.....	8,082	7,588	6,127	7,046	187,500	154,459	126,466	133,195	\$243,851,143	\$211,349,759	\$175,044,511	\$176,445,518
Leading States.....	7,689	7,316	5,882	6,794	170,304	143,573	117,804	125,507	232,041,822	202,923,404	168,903,708	170,878,125
Per cent of total.....	95.1	96.4	96.0	96.4	90.8	93.0	93.2	94.3	95.2	96.0	96.5	96.8
Other States <sup>1</sup> .....	393	272	245	252	17,196	10,886	8,662	7,508	11,809,321	8,426,355	6,140,713	5,567,393
Per cent of total.....	4.9	3.6	4.0	3.6	9.2	7.0	6.8	5.7	4.8	4.0	3.5	3.2
<i>Leading States</i>												
New York.....	5,704	5,494	4,305	5,012	102,096	90,004	77,359	81,437	164,140,330	146,096,825	120,061,218	120,204,396
Per cent of total.....	70.6	72.4	71.3	71.2	54.4	58.3	61.2	61.1	67.3	69.1	72.0	71.5
Illinois.....	402	406	321	397	13,802	11,079	7,477	8,065	14,024,007	12,300,502	9,536,124	9,813,173
Per cent of total.....	5.0	5.4	5.2	5.6	7.4	7.2	5.9	6.1	6.1	5.8	5.4	5.6
Pennsylvania.....	380	395	333	454	14,688	11,730	10,003	11,093	13,257,944	11,210,404	9,193,153	9,941,057
Per cent of total.....	4.7	5.2	5.4	6.4	7.8	7.6	7.9	8.3	5.5	5.3	5.3	5.6
Massachusetts.....	312	277	233	270	6,874	6,022	4,435	5,185	7,798,173	7,200,370	5,075,577	5,749,554
Per cent of total.....	3.9	3.7	3.8	4.0	3.7	3.9	3.5	3.9	3.2	3.4	2.7	3.3
California.....	305	214	181	156	7,105	4,643	2,974	3,075	8,328,318	5,321,489	3,492,538	3,051,550
Per cent of total.....	3.8	2.8	3.0	2.2	3.8	3.0	2.4	2.3	3.4	2.5	2.0	1.7
Ohio.....	143	138	123	112	6,065	5,402	4,336	5,029	6,528,593	6,707,124	5,527,523	5,974,695
Per cent of total.....	1.8	1.8	2.0	1.6	3.2	3.5	3.4	3.8	2.7	3.2	3.2	3.4
Missouri.....	117	107	82	86	6,003	4,901	3,145	2,916	6,076,882	5,137,549	3,210,914	2,833,901
Per cent of total.....	1.4	1.4	1.3	1.2	3.7	3.2	2.5	2.2	2.5	2.4	1.8	1.6
New Jersey.....	246	199	176	213	8,972	6,608	5,319	5,622	7,825,447	6,048,072	4,721,085	4,702,060
Per cent of total.....	3.0	2.6	2.9	3.0	4.8	4.3	4.2	4.2	3.2	2.9	2.7	2.7
Maryland.....	80	86	65	85	3,769	3,184	2,756	3,175	3,153,128	2,880,069	2,115,036	2,517,749
Per cent of total.....	1.0	1.1	1.1	1.2	2.0	2.1	2.2	2.4	1.3	1.4	1.2	1.4

STATE	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY				VALUE OF PRODUCTS <sup>2</sup> AND RECEIPTS FOR CONTRACT WORK			
	1929	1927	1925	1923	1929	1927	1925	1923
United States.....	\$934,413,683	\$809,520,125	\$724,208,974	\$800,560,802	\$1,709,580,505	\$1,494,401,044	\$1,203,705,291	\$1,406,083,835
Leading States.....	904,681,172	786,411,740	707,208,454	792,031,753	1,650,930,125	1,440,959,024	1,201,701,148	1,376,021,532
Per cent of total.....	96.8	97.1	97.6	97.8	96.6	97.0	97.5	97.8
Other States <sup>1</sup> .....	29,732,511	23,108,385	17,030,520	17,529,049	58,650,380	44,442,020	32,004,143	30,062,303
Per cent of total.....	3.2	2.9	2.4	2.2	3.4	3.0	2.5	2.2
<i>Leading States</i>								
New York.....	725,778,132	630,786,242	575,593,798	640,962,378	1,308,065,109	1,163,580,568	1,025,648,100	1,123,349,691
Per cent of total.....	77.7	77.9	79.5	80.3	76.5	77.9	84.3	80.9
Illinois.....	40,168,514	35,836,797	31,727,498	35,136,324	75,649,695	63,538,705	55,298,759	59,255,486
Per cent of total.....	4.3	4.4	4.4	4.3	4.4	4.3	4.3	4.2
Pennsylvania.....	39,222,182	33,114,421	29,358,375	33,309,602	74,240,020	60,350,462	52,411,298	60,523,937
Per cent of total.....	4.2	4.1	4.1	4.1	4.3	4.0	4.1	4.3
Massachusetts.....	23,287,719	19,070,783	15,533,692	16,902,394	43,100,809	35,640,142	27,297,383	29,718,109
Per cent of total.....	2.5	2.4	2.1	2.1	2.5	2.4	2.1	2.1
California.....	20,426,652	14,113,938	10,440,753	9,162,658	38,577,206	20,111,950	18,801,795	16,898,824
Per cent of total.....	2.2	1.7	1.4	1.1	2.3	1.7	1.5	1.2
Ohio.....	19,328,522	21,709,923	18,571,566	22,214,389	38,530,243	30,400,848	33,860,568	38,974,539
Per cent of total.....	2.0	2.7	2.6	2.8	2.3	2.0	2.6	2.8
Missouri.....	17,516,565	15,398,734	11,143,599	9,226,399	30,660,409	26,637,707	18,042,370	16,914,344
Per cent of total.....	1.9	1.9	1.5	1.1	1.8	1.8	1.5	1.1
New Jersey.....	10,387,456	7,817,772	7,500,285	8,523,944	25,414,837	18,040,387	15,052,745	17,225,212
Per cent of total.....	1.1	0.9	1.0	1.1	1.5	1.2	1.2	1.2
Maryland.....	8,565,430	8,563,130	7,398,988	7,603,665	16,085,038	16,022,165	13,419,064	14,101,390
Per cent of total.....	0.9	1.1	1.0	0.9	1.0	1.1	1.0	1.0

<sup>1</sup> Alabama, Arkansas, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Michigan, Minnesota, Mississippi, Nebraska, New Hampshire, North Carolina, Oklahoma, Oregon, Rhode Island, South Carolina, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin.

<sup>2</sup> The figures refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products.

# CLOTHING, WOMEN'S, NOT ELSEWHERE CLASSIFIED

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TABLE 4.—CLOTHING, WOMEN'S—SUMMARY FOR ALL FACTORIES, FOR PRINCIPAL CITIES: 1929, 1927, 1925, AND 1923

CITY	NUMBER OF ESTABLISHMENTS				WAGE EARNERS (AVERAGE FOR THE YEAR)				WAGES			
	1929	1927	1925	1923	1929	1927	1925	1923	1929	1927	1925	1923
United States.....	8,082	7,588	6,127	7,046	187,500	154,450	126,460	133,105	\$243,851,143	\$211,340,750	\$175,044,511	\$176,445,518
Principal cities.....	6,912	6,070	5,281	6,129	138,289	118,976	97,620	104,669	207,211,956	181,820,068	152,361,576	153,384,834
Per cent of total.....	85.5	87.0	86.2	87.0	73.8	77.0	77.2	78.6	85.0	86.0	87.0	86.9
Remainder of United States.....	1,170	918	846	917	40,211	35,483	28,846	28,526	36,639,187	29,520,601	22,682,935	23,060,684
Per cent of total.....	14.5	12.1	13.8	13.0	26.2	23.0	22.8	21.4	15.0	14.0	13.0	13.1
<i>Principal cities</i>												
New York.....	5,554	5,352	4,237	4,878	96,011	84,377	72,438	76,398	150,335,352	141,305,367	122,240,472	121,499,928
Per cent of total.....	68.7	70.5	69.2	69.2	51.2	54.6	57.3	57.4	65.3	66.9	69.8	68.8
Chicago.....	373	384	208	372	11,590	9,709	6,531	7,004	13,724,162	11,362,129	8,784,200	9,043,581
Per cent of total.....	4.6	5.1	4.9	5.3	6.2	6.3	5.2	5.3	5.6	5.4	5.0	5.1
Philadelphia.....	297	325	200	382	8,520	7,244	5,804	7,000	9,430,020	7,951,048	6,565,033	7,856,691
Per cent of total.....	3.7	4.3	4.2	5.4	4.5	4.7	4.7	5.7	3.9	3.8	3.7	4.5
Boston.....	233	198	160	192	4,723	4,217	2,041	3,183	6,018,130	5,598,922	3,772,034	3,984,980
Per cent of total.....	2.9	2.6	2.6	2.7	2.5	2.7	2.3	2.4	2.5	2.6	2.2	2.3
Los Angeles <sup>1</sup> .....	205	157	128	95	5,370	3,310	2,116	2,122	6,283,720	3,758,772	2,444,805	2,027,607
Per cent of total.....	2.5	2.1	2.1	1.4	2.9	2.1	1.7	1.6	2.6	1.8	1.4	1.1
Cleveland <sup>2</sup> .....	92	85	69	59	3,750	3,404	2,654	3,057	4,714,787	4,849,055	3,850,442	4,216,957
Per cent of total.....	1.1	1.1	1.1	0.9	2.0	2.2	2.1	2.3	2.0	2.3	2.2	2.4
St. Louis <sup>3</sup> .....	86	87	66	72	4,823	3,720	2,467	2,324	4,680,369	4,134,587	2,667,778	2,323,128
Per cent of total.....	1.1	1.1	1.1	1.0	2.6	2.4	1.9	1.7	1.9	2.0	1.5	1.3
Baltimore <sup>4</sup> .....	72	82	63	70	3,481	2,986	2,589	2,981	3,013,407	2,779,188	2,021,746	2,431,962
Per cent of total.....	0.9	1.1	1.0	1.1	1.9	1.9	2.0	2.2	1.2	1.3	1.2	1.4

CITY	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY				VALUE OF PRODUCTS <sup>4</sup> AND RECEIPTS FOR CONTRACT WORK			
	1929	1927	1925	1923	1929	1927	1925	1923
United States.....	\$934,413,683	\$806,520,125	\$724,208,074	\$809,500,802	\$1,709,580,505	\$1,494,401,044	\$1,293,705,291	\$1,406,683,835
Principal cities.....	852,804,742	741,440,895	660,037,848	753,047,006	1,543,584,458	1,300,297,452	1,180,174,450	1,300,294,256
Per cent of total.....	91.3	91.6	92.4	93.0	90.3	91.0	91.7	92.4
Remainder of United States.....	81,548,941	68,079,230	55,201,126	56,513,100	165,996,047	134,103,592	107,530,811	106,389,579
Per cent of total.....	8.7	8.4	7.6	7.0	9.7	9.0	8.3	7.6
<i>Principal cities</i>								
New York.....	710,354,530	622,302,301	567,461,245	644,005,828	1,287,957,559	1,145,612,504	1,008,906,387	1,110,121,677
Per cent of total.....	76.7	76.0	78.4	79.6	75.3	76.7	78.0	78.0
Chicago.....	37,130,114	33,304,337	29,714,979	32,504,940	69,967,774	58,870,015	51,360,733	54,583,589
Per cent of total.....	4.0	4.1	4.1	4.0	4.1	3.9	4.0	3.9
Philadelphia.....	30,070,300	24,538,905	22,975,474	27,527,612	55,530,468	44,131,363	40,531,751	40,237,439
Per cent of total.....	3.2	3.0	3.2	3.4	3.3	3.0	3.1	3.5
Boston.....	18,238,137	14,870,830	11,571,472	12,072,308	33,920,603	28,040,437	20,119,500	21,054,619
Per cent of total.....	2.0	1.8	1.6	1.5	2.0	1.9	1.6	1.5
Los Angeles <sup>1</sup> .....	15,735,587	10,466,716	7,468,734	6,294,511	29,174,024	18,009,358	13,002,297	11,007,117
Per cent of total.....	1.7	1.3	1.0	0.8	1.7	1.2	1.0	0.8
Cleveland <sup>2</sup> .....	13,836,169	15,050,326	13,331,421	15,552,438	28,012,767	28,323,276	23,862,628	27,442,282
Per cent of total.....	1.5	1.9	1.8	1.9	1.6	1.9	1.8	1.9
St. Louis <sup>3</sup> .....	12,034,135	12,378,363	9,120,385	7,603,473	22,402,813	20,976,116	15,019,917	12,971,234
Per cent of total.....	1.3	1.5	1.3	0.9	1.3	1.4	1.2	0.9
Baltimore <sup>4</sup> .....	8,550,680	8,430,087	7,304,138	7,426,496	16,516,459	15,729,383	13,302,267	13,876,299
Per cent of total.....	0.9	1.0	1.0	0.9	1.0	1.1	1.0	1.0

<sup>1</sup> Statistics for 1925 and 1923 not strictly comparable with those for 1927 and 1929 because of annexations of territory between censuses.

<sup>2</sup> Includes, for 1929, data for 2 establishments outside corporate limits, to avoid disclosing their output.

<sup>3</sup> Includes, for 1929, data for 1 establishment outside corporate limits, to avoid disclosing its output.

<sup>4</sup> The figures refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products.

TABLE 5.—CLOTHING, WOMEN'S—PRODUCTION, BY CLASS, QUANTITY, AND VALUE, 1929 AND 1927, AND BY CLASS AND VALUE, 1925 AND 1923, FOR THE UNITED STATES

[The figures for all census years refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products]

CLASS	1929			1927			1925		1923	
	Products		Receipts for contract work	Products		Receipts for contract work	Value of products	Receipts for contract work	Value of products	Receipts for contract work
	Quantity	Value		Quantity	Value					
1. Women's-clothing industry, total value of products and receipts for contract work.....	\$1,709,580,505			\$1,404,401,044			\$1,293,705,291		\$1,406,083,835	
2. All factories, total.....	\$1,604,500,957			\$1,397,571,408			\$1,230,069,770		\$1,350,361,810	
3. Regular factories.....	1,603,705,411			1,395,520,467			1,229,501,034		1,358,833,871	
4. Contract shops.....	795,546			1,044,941			478,736		527,069	
5. Women's, misses', and children's clothing.....	1,595,461,984			1,387,534,747			1,223,447,759		1,357,741,428	
6. Other products (not normally belonging to the industry).....	9,048,978			10,036,661			6,622,011		1,620,412	
7. Women's, misses', and children's clothing made as secondary products in other industries.....	19,040,138			19,048,138			3,602,110		3,035,752	
Women's, misses', and children's clothing, all industries: Aggregate value (sum of 5 and 7).....	1,615,302,122			1,407,182,885			1,227,049,869		1,360,777,180	
Suits, women's and misses'.....	1,071,682	34,885,786	1,744,284	4,474,461	68,096,014	8,050,674	34,910,501	1,610,913	96,501,000	2,784,781
Suits, children's.....	11,348,967	11,045,806	851,082	(1)	(1)	(1)	(2)	(2)	(2)	(2)
Dresses, women's, misses', and children's.....	205,340,416	876,425,389	73,857,239	141,192,280	634,491,020	55,464,020	585,157,477	34,555,504	544,411,739	24,115,609
Ensembles.....	1,164,077	13,850,433	933,016	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Coats (not including waterproof or fur coats).....	23,040,061	367,352,601	18,502,168	20,544,049	438,006,102	26,640,390	400,377,860	19,824,327	376,888,100	0,485,134
Skirts.....	1,233,306	3,813,330	603,370	859,036	3,300,102	508,327	3,523,718	444,020	31,554,499	1,220,959
Blouses and shirtwaists.....	5,093,838	10,072,474	725,428	7,162,341	14,125,024	655,643	13,411,004	751,453	63,083,833	2,086,498
Underwear (not made in textile mills).....	18,942,897	158,136,427	2,184,766	14,803,828	140,886,051	1,758,439	117,512,925	1,342,900	113,612,602	1,304,984
Other women's, misses', and children's clothing.....		138,309,808	5,588,186		107,374,672	3,752,143	68,547,578	5,105,780	131,050,239	6,221,910
Undistributed products.....							3,602,110		3,035,752	

<sup>1</sup> Included in "Other women's, misses', and children's clothing."

<sup>2</sup> Not called for separately on schedule.

TABLE 6.—CLOTHING, WOMEN'S—PRODUCTION, BY CLASS, QUANTITY, AND VALUE, BY STATES: 1929

[The figures refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products. Figures are given for each State which can be shown separately without disclosing data for individual establishments. Certain of the "Other States," however, reported larger quantities and values of some of the specified products than one or more of the States shown separately]

CLASS AND STATE	PRODUCTION			Receipts for contract work	CLASS AND STATE	PRODUCTION			Receipts for contract work
	Quantity	Value				Quantity	Value		
Outerwear for women, misses, and juniors, total.....		\$1,321,479,108		\$95,408,236	Outerwear for women, misses, and juniors—Continued.				
Dresses, one-piece: Made to retail for—	<i>Number</i>				Dresses, one-piece—Continued. Made to retail for—Continued.	<i>Number</i>			
Under \$1, total.....	22,865,972	14,238,061		1,022,810	\$3 to \$1.99, total.....	14,190,180	\$44,017,184		\$4,075,100
California.....	806,046	726,037			California.....	125,290	388,474		
Illinois.....	4,017,154	2,780,775			Illinois.....	252,451	708,069		
Michigan.....	2,969,204	1,748,485			Massachusetts.....	162,002	400,320		
Missouri.....	1,629,744	1,317,704			Michigan.....	72,016	225,062		
New York.....	2,470,511	1,626,789		400,831	Missouri.....	106,806	622,625		
Pennsylvania.....	4,227,516	1,955,871		94,597	New York.....	11,007,629	34,652,163		3,473,899
Other States.....	6,715,737	4,073,390		521,891	Ohio.....	305,091	1,072,137		
\$1 to \$1.99, total.....	35,785,413	35,003,510		1,043,253	Pennsylvania.....	1,149,117	3,761,021		
California.....	2,713,655	3,115,088			Other States.....	829,079	2,225,620		1,201,291
Connecticut.....	253,100	353,340			\$5 to \$9.99, total.....	34,534,628	187,131,100		18,704,221
Illinois.....	3,062,656	3,856,120		2,700	California.....	170,672	817,481		
Massachusetts.....	962,113	1,104,412		10,200	Illinois.....	369,758	2,027,765		175,901
Missouri.....	3,037,361	3,186,962			Indiana.....	95,203	423,914		
New York.....	9,765,329	9,487,309		215,556	Massachusetts.....	460,165	2,005,249		430,013
Ohio.....	3,592,366	3,129,111			Missouri.....	336,198	1,155,864		
Pennsylvania.....	1,580,321	1,666,292		251,148	New Jersey.....	120,885	632,150		1,093,193
Texas.....	2,204,722	2,437,176			New York.....	30,801,588	107,141,198		15,108,551
Washington.....	555,012	719,531			Ohio.....	108,001	642,600		
West Virginia.....	1,606,538	1,447,863			Pennsylvania.....	1,581,315	7,670,282		320,037
Wisconsin.....	414,630	351,066			Other States.....	481,763	2,714,687		661,611
Other States.....	5,077,670	4,988,641		557,640	\$10 to \$24.99, total.....	31,212,384	323,167,367		34,663,726
\$2 to \$2.99, total.....	16,907,999	20,501,877		1,374,407	California.....	773,101	3,974,678		
California.....	434,962	675,976		47,965	Illinois.....	1,738,265	18,685,122		752,306
Illinois.....	2,373,558	3,639,732			Indiana.....	71,755	337,660		
Indiana.....	505,022	609,474			Massachusetts.....	982,581	10,002,384		678,053
Massachusetts.....	435,744	806,704		10,940	Michigan.....	120,040	1,326,867		
Missouri.....	1,357,324	2,226,038			Minnesota.....	85,377	800,766		1,122
New York.....	4,316,832	7,050,755		950,843	Missouri.....	945,009	0,232,460		
Ohio.....	1,266,338	1,677,372		69,151	New York.....	23,064,020	245,965,202		31,314,473
Pennsylvania.....	2,818,873	6,075,054		105,814	Ohio.....	800,405	0,643,893		292,638
Texas.....	871,112	532,232			Pennsylvania.....	1,847,124	15,590,348		334,603
Washington.....	390,540	645,646			Other States.....	183,795	2,111,727		1,890,561
Other States.....	1,595,704	2,791,294		125,194					

CLOTHING, WOMEN'S, NOT ELSEWHERE CLASSIFIED

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TABLE 6.—CLOTHING, WOMEN'S—PRODUCTION, BY CLASS, QUANTITY, AND VALUE, BY STATES: 1929—Con.

[See note at head of this table]

CLASS AND STATE	PRODUCTION		Receipts for contract work	CLASS AND STATE	PRODUCTION		Receipts for contract work	
	Quantity	Value			Quantity	Value		
Outerwear for women, misses, and juniors—Continued.				Outerwear for women, misses, and juniors—Continued.				
Dresses, one-piece—Continued.				Uniforms, total.....	Number			
Made to retail for—Continued.					3, 800, 048	\$5, 610, 821	\$533, 708	
\$25 and over, total.....	Number			All-cotton, total.....				
	8, 340, 375	\$162, 311, 325	\$8, 880, 987		3, 613, 184	7, 623, 504	468, 708	
California.....	140, 002	3, 877, 330		California.....	160, 493	330, 255		
Illinois.....	514, 055	13, 782, 603		New York.....	1, 738, 410	3, 682, 464		
Massachusetts.....	233, 087	4, 620, 498	15, 190	Pennsylvania.....	227, 360	622, 826		
New York.....	7, 138, 120	163, 713, 630	8, 712, 038	Other States.....	1, 486, 021	3, 038, 029	408, 766	
Ohio.....	81, 623	1, 441, 797		Other fabrics.....	195, 864	906, 257	35, 000	
Pennsylvania.....	34, 800	463, 950			Dozens			
Other States.....	180, 808	4, 402, 002	163, 760	Smocks, total.....	551, 850	6, 010, 300	72, 754	
Ensembles, total.....	1, 164, 077	13, 850, 433	933, 010	California.....	35, 258	453, 980		
All-wool, total.....	537, 000	8, 150, 912	422, 062	Illinois.....	40, 050	308, 450		
California.....	13, 087	2, 8, 573		Maryland.....	32, 614	568, 353		
Illinois.....	5, 790	309, 908		Massachusetts.....	42, 268	617, 923		
New York.....	400, 478	0, 747, 231	303, 346	New York.....	128, 856	1, 480, 523		
Other States.....	111, 744	815, 230	28, 716	Ohio.....	32, 310	474, 577		
All-cotton, total.....	370, 107	908, 941	110, 250	Other States.....	230, 882	2, 025, 508	72, 754	
New York.....	210, 777	521, 354	75, 750	Hoovers.....	258, 520	2, 307, 963	44, 201	
Other States.....	150, 330	384, 587	34, 500	Aprons, total.....	3, 520, 840	17, 268, 257	98, 264	
Other fabrics and combinations, total.....	256, 271	4, 790, 560	400, 704	Illinois.....	236, 827	2, 002, 300		
California.....	17, 408	408, 030		Massachusetts.....	435, 315	1, 085, 218		
New York.....	207, 005	3, 936, 814	389, 868	New Jersey.....	107, 021	421, 068		
Other States.....	30, 778	45, 676	10, 836	New York.....	1, 987, 070	8, 084, 702	37, 040	
Suits, total.....	1, 071, 682	34, 885, 780	1, 744, 284	Pennsylvania.....	100, 251	427, 814		
All-wool, total.....	1, 349, 463	28, 826, 665	1, 503, 083	Other States.....	754, 753	3, 354, 075	60, 324	
California.....	50, 371	968, 154		Kimonos and bathrobes, total.....	Number			
Illinois.....	24, 059	1, 043, 887			5, 400, 204	10, 127, 465	470, 464	
New York.....	1, 178, 083	25, 068, 034	1, 311, 671	All-cotton, total.....				
Ohio.....	14, 807	337, 890			2, 106, 053	4, 078, 618	348, 081	
Pennsylvania.....	11, 007	814, 308		New York.....	1, 063, 197	3, 040, 325	285, 247	
Other States.....	76, 046	1, 002, 302	102, 312	Other States.....	443, 456	1, 032, 193	63, 384	
Other fabrics, total.....	322, 210	6, 060, 221	240, 301	Other fabrics, total.....	3, 293, 551	14, 448, 947	130, 823	
New York.....	100, 655	3, 370, 830	231, 307	Illinois.....	131, 037	543, 734		
Other States.....	125, 564	2, 689, 382	8, 004	New York.....	2, 720, 203	12, 464, 372	61, 412	
Separate coats, total.....	10, 851, 192	332, 804, 198	10, 375, 124	Pennsylvania.....	184, 204	718, 228		
All-wool, total.....	15, 050, 032	300, 021, 974	13, 905, 908	Other States.....	240, 107	722, 013	70, 411	
California.....	204, 214	6, 403, 987		Daytime pajamas, total.....	771, 086	3, 720, 130	15, 000	
Connecticut.....	16, 200	402, 591	38, 500	New York.....	550, 169	3, 288, 895		
Illinois.....	297, 429	0, 024, 269	83, 700	Other States.....	221, 517	440, 235	15, 000	
Maryland.....	350, 431	3, 338, 780	116, 325	Raincoats, total.....	3, 601, 770	12, 303, 303	442, 340	
Massachusetts.....	141, 677	3, 303, 587	145, 080	Rubberized, total.....	3, 276, 795	11, 503, 124	422, 085	
Missouri.....	243, 102	3, 022, 360		Illinois.....	212, 262	764, 836		
New York.....	12, 036, 950	256, 328, 430	12, 384, 223	Massachusetts.....	1, 182, 870	3, 630, 916	104, 538	
Ohio.....	382, 870	0, 438, 846	444, 150	New York.....	1, 312, 413	5, 015, 832	234, 454	
Oregon.....	83, 028	1, 712, 027		Ohio.....	84, 324	308, 356		
Pennsylvania.....	339, 028	8, 210, 055	248, 393	Pennsylvania.....	78, 178	291, 477	5, 000	
Washington.....	21, 303	684, 192		Other States.....	406, 748	1, 392, 768	78, 093	
Wisconsin.....	27, 553	305, 011		Other.....	240, 285	552, 837	16, 225	
Other States.....	220, 372	2, 230, 030	445, 022	Other proofing.....	84, 600	237, 342	3, 136	
Other fabrics, total.....	1, 795, 160	26, 782, 224	2, 460, 120	Scarfs (except knitted), total.....	Dozens			
California.....	14, 191	270, 411			972, 073	0, 212, 344	138, 214	
Illinois.....	30, 540	330, 101	0, 080	New York.....	961, 443	0, 051, 480	137, 114	
Maryland.....	288, 594	1, 136, 057		Other States.....	10, 630	160, 858	1, 100	
New York.....	1, 225, 700	21, 836, 022	2, 223, 012	Neckwear, total.....	1, 570, 319	13, 106, 164	144, 260	
Other States.....	220, 000	3, 208, 733	240, 034	Illinois.....	40, 000	810, 083		
Separate skirts, total.....	1, 233, 306	3, 813, 330	603, 370	New York.....	1, 407, 420	11, 110, 078	101, 960	
All-wool, total.....	773, 730	2, 700, 093	452, 723	Other States.....	130, 930	1, 171, 003	42, 300	
California.....	149, 040	585, 087		Other outerwear for women, misses, and juniors, total.....		10, 307, 747	2, 004, 113	
Massachusetts.....	101, 622	311, 209	320, 370	California.....		775, 857	150, 583	
New York.....	454, 056	1, 601, 223	120, 353	Illinois.....		700, 591		
Other States.....	67, 803	203, 174		Massachusetts.....		308, 202		
Other fabrics, total.....	459, 576	1, 112, 040	150, 056	Missouri.....		354, 507		
New York.....	210, 587	624, 765	144, 104	New York.....		0, 735, 525	1, 820, 360	
Other States.....	239, 989	487, 878	0, 492	Pennsylvania.....		645, 826	143, 974	
Blouses and shirtwaists, total.....	5, 093, 838	10, 072, 474	725, 428	Other States.....		811, 230	570, 190	
All-cotton, total.....	3, 613, 775	4, 265, 150	185, 733	Outerwear for children, total.....		105, 276, 170	0, 755, 957	
New York.....	1, 000, 128	2, 342, 011	93, 708	Dresses, total.....	Number			
Pennsylvania.....	1, 480, 045	1, 308, 076			42, 512, 555	53, 153, 975	3, 492, 636	
Other States.....	524, 002	554, 463	91, 035	All-cotton, total.....		36, 331, 473	34, 853, 432	1, 010, 845
All-silk, total.....	1, 401, 713	6, 285, 013	425, 280	California.....		932, 109	800, 283	
New York.....	1, 200, 173	5, 420, 572	283, 084	Indiana.....		624, 115	437, 750	
Other States.....	192, 540	858, 441	142, 202	Massachusetts.....		1, 367, 376	1, 460, 178	
Other fabrics.....	78, 850	122, 311	114, 400	Missouri.....		527, 012	401, 002	
				New York.....		21, 874, 265	21, 692, 272	651, 342
				Pennsylvania.....		7, 624, 800	7, 593, 857	401, 522
				Other States.....		3, 351, 187	2, 423, 201	776, 981

## CENSUS OF MANUFACTURES: 1929

TABLE 6.—CLOTHING, WOMEN'S—PRODUCTION, BY CLASS, QUANTITY, AND VALUE, BY STATES: 1929—Con.

CLASS AND STATE	PRODUCTION		Receipts for contract work	CLASS AND STATE	PRODUCTION		Receipts for contract work
	Quantity	Value			Quantity	Value	
Outerwear for children—Continued.				Underwear and nightwear for women, misses, and juniors—Continued.			
Dresses—Continued.				Underwear—Continued.			
All-rayon, total.....	Number 1,153,482	\$1,030,612	\$361,014	Knitted fabrics, total.....	Dozen pieces 4,846,186	\$35,880,248	\$218,340
New York.....	991,234	1,494,141	361,014	All-silk, total.....	477,038	6,800,555	9,044
Other States.....	162,248	130,471		New York.....	442,329	5,984,761	9,044
All-silk, total.....	3,422,348	11,032,911	1,006,847	Other States.....	34,709	934,794	
Illinois.....	55,360	333,020		All-rayon, total.....	3,535,962	23,763,484	130,794
New York.....	2,768,396	9,733,233	410,885	Illinois.....	190,764	2,021,892	
Other States.....	608,592	1,800,652	595,962	Massachusetts.....	285,616	2,237,096	
Other fabrics, total.....	1,605,252	4,737,020	204,030	New York.....	2,139,169	12,407,871	
New York.....	1,285,325	3,696,490	179,930	Pennsylvania.....	380,425	2,741,878	
Other States.....	319,927	1,040,530	25,000	Other States.....	537,088	4,294,147	130,794
Coats, total.....	6,188,860	34,548,403	2,217,044	Rayon with cotton.....	172,727	1,280,202	67,011
All-wool, total.....	4,904,051	29,097,042	1,438,481	All-cotton, total.....	518,997	2,919,023	
California.....	19,570	423,531		Illinois.....	109,080	895,075	
Illinois.....	42,400	390,880		New York.....	283,320	1,364,744	
New Jersey.....	296,476	1,444,497	57,500	Other States.....	120,597	659,204	
New York.....	4,176,072	24,207,504	1,086,510	Other knitted fabrics.....	141,462	1,017,084	5,500
Pennsylvania.....	100,086	655,476	125,573	Nightgowns, total.....	Number 9,460,480	8,003,775	53,162
Other States.....	320,447	2,625,154	168,808	California.....	302,354	321,402	
Other fabrics, total.....	1,224,818	4,851,361	778,563	Massachusetts.....	415,235	371,570	
Maryland.....	200,097	732,401		New York.....	3,320,851	3,087,591	47,128
New York.....	867,082	3,357,923	725,213	Other States.....	5,353,049	4,223,212	6,034
Other States.....	156,730	761,037	53,350	Sleeping pajamas, total.....	5,172,401	6,002,122	109,631
Suits, total.....	11,348,907	11,945,865	851,082	Massachusetts.....	314,832	366,543	
All-cotton, total.....	9,155,447	8,089,478	725,079	New York.....	1,910,044	3,159,471	14,500
Maryland.....	1,277,430	1,052,752		Other States.....	2,941,523	2,560,108	95,131
Massachusetts.....	506,870	323,442		Underwear and nightwear for children:			
New Jersey.....	899,302	880,210		Underwear (made from purchased fabric), total.....	Dozen pieces 2,486,720	8,718,749	70,608
New York.....	5,002,124	5,803,729	480,413	Woven fabrics, total.....	2,080,700	6,697,860	70,608
Pennsylvania.....	572,445	428,834	135,359	All-cotton, total.....	1,813,741	5,022,289	70,608
Other States.....	207,270	200,511	103,907	New Jersey.....	186,581	697,344	
All-wool, total.....	1,356,194	2,005,139	77,403	New York.....	856,583	2,614,951	
New York.....	973,010	1,313,057		Other States.....	770,577	2,289,994	70,608
Other States.....	383,184	692,082	77,403	Other, total.....	267,019	1,075,571	
Other fabrics, total.....	837,326	1,251,248	48,000	New York.....	228,004	754,178	
New York.....	738,667	1,067,998		Other States.....	38,415	321,393	
Other States.....	98,659	183,250	48,000	Knitted fabrics, total.....	405,966	1,720,880	
Other outerwear for children.....		5,627,636	195,195	All-cotton.....	214,460	389,511	
Underwear and nightwear for women, misses, and juniors:				Other, total.....	191,506	1,381,378	
Underwear (made from purchased fabric), total.....	Dozen pieces 15,502,194	146,218,074	2,103,084	New York.....	100,528	792,977	
Woven fabrics, total.....	10,056,008	110,331,826	1,884,735	Other States.....	84,978	588,401	
All-silk, total.....	2,499,400	55,533,839	880,725	Nightgowns, total.....	Number 946,211	400,801	93,121
California.....	124,241	2,308,749		New York.....	713,400	303,636	
Illinois.....	131,308	2,876,025		Other States.....	232,715	157,115	69,124
Massachusetts.....	31,420	571,622		Pajamas, total.....	1,893,329	1,200,772	12,563
Minnesota.....	9,174	374,604		New York.....	1,007,410	537,380	
Missouri.....	28,630	647,285		Other States.....	885,919	663,392	12,563
New York.....	1,848,837	42,811,117	525,865	Infants' clothing:			
Pennsylvania.....	94,792	2,328,892		Infants' outerwear, total.....	12,587,259	12,078,408	217,049
Other States.....	230,992	3,555,493	364,800	All-silk, total.....	1,308,352	2,416,414	32,673
All-rayon, total.....	3,269,387	27,404,926	275,289	New York.....	1,278,745	2,363,589	32,673
Illinois.....	272,770	2,110,483	65,354	Other States.....	20,607	61,825	
Massachusetts.....	163,521	1,353,970		All-rayon.....	260,113	274,440	
Missouri.....	152,480	1,042,282		All-cotton, total.....	8,576,395	5,741,278	100,044
New York.....	2,515,822	20,942,014	138,188	New York.....	6,993,491	4,588,678	
Pennsylvania.....	33,031	492,288		Texas.....	605,448	520,096	
Other States.....	131,757	1,522,989	71,747	Other States.....	977,456	631,624	100,044
Rayon with cotton, total.....	1,445,564	8,727,800	41,261	Other fabrics, total.....	2,433,399	4,547,357	75,332
New York.....	921,948	4,725,114	23,553	New York.....	2,247,436	3,951,562	75,332
Other States.....	523,616	4,002,686	17,708	Other States.....	185,963	595,795	
All-cotton, total.....	3,148,020	16,150,776	642,916	Infants' underwear and nightwear, total.....	Dozen pieces 953,977	3,169,604	11,074
Connecticut.....	103,653	520,971		All-cotton, total.....	670,511	2,158,590	
Illinois.....	101,653	577,381		New York.....	592,333	1,851,956	
Massachusetts.....	136,161	914,836		Other States.....	87,178	306,634	
New Jersey.....	103,805	629,636	109,947	Other fabrics, total.....	274,466	1,041,014	11,074
New York.....	2,159,446	10,469,126	451,491	New York.....	262,766	943,014	
Pennsylvania.....	112,965	761,028		Other States.....	11,700	98,000	11,074
Other States.....	430,247	2,337,798	81,478	Other women's, misses, and children's clothing.....		1,764,350	245,000
Other woven fabrics.....	293,637	2,454,485	44,544				

CLOTHING, WOMEN'S, NOT ELSEWHERE CLASSIFIED

TABLE 7.—CLOTHING, WOMEN'S—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929; FOR ALL FACTORIES, REGULAR FACTORIES, AND CONTRACT SHOPS

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSE-POWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
<b>ALL FACTORIES</b>												
Prime movers and electric motors driven by purchased energy, aggregate	31, 125	Horse-power 36, 201	24, 000	Horse-power 30, 287	10, 371	Horse-power 24, 316	23, 784	Horse-power 32, 421	16, 837	Horse-power 27, 874	100. 0	100. 0
Prime movers, total	50	360	22	639	31	763	74	2, 887	154	3, 845	1. 0	8. 0
Steam, total	51	240	6	206	7	450	28	2, 283	51	2, 632	0. 7	7. 1
Engines	51	240	6	206	6	458	28	2, 283	(1)	(1)	0. 7	7. 1
Turbines					1	1			(1)	(1)		
Internal-combustion engines	5	120	11	307	17	274	43	620	100	1, 125	0. 3	1. 6
Water wheels and water turbines			5	30	7	20	3	75	3	88		0. 2
Electric motors driven by purchased energy	31, 060	34, 925	24, 887	29, 648	10, 340	23, 563	23, 710	20, 534	16, 083	24, 020	99. 0	91. 1
Electric motors, total	31, 073	34, 941	24, 894	29, 660	10, 300	23, 708	23, 701	20, 037	16, 810	24, 757	100. 0	100. 0
Driven by purchased energy	31, 060	34, 925	24, 887	29, 648	10, 340	23, 563	23, 710	20, 534	16, 083	24, 020	100. 0	98. 7
Driven by energy generated in establishments reporting	4	16	7	21	50	145	51	403	133	728	(2)	1. 3
Electric generators	1	Kilowatts 30 Kilowatt-hours 81, 082, 536	4	Kilowatts 44	2	Kilowatts 110	(3)	(3)	(3)	(3)		
Electric energy purchased <sup>4</sup>				(5)		(5)		(5)		(5)		
<b>REGULAR FACTORIES</b>												
Prime movers and electric motors driven by purchased energy, aggregate	23, 083	Horse-power 26, 306	18, 075	Horse-power 22, 385	14, 040	Horse-power 18, 781	18, 558	Horse-power 26, 607	14, 220	Horse-power 24, 563	100. 0	100. 0
Prime movers, total	11	325	10	501	24	680	56	2, 763	111	3, 628	1. 3	10. 3
Steam, total	8	217	6	203	6	430	25	2, 255	45	2, 530	0. 9	8. 4
Engines	8	217	6	200	5	438	25	2, 255	(1)	(1)	0. 9	8. 4
Turbines					1	1			(1)	(1)		
Internal-combustion engines	3	108	8	259	13	226	28	423	63	901	0. 4	1. 6
Water wheels and water turbines			6	36	6	15	3	75	3	88		0. 3
Electric motors driven by purchased energy	23, 072	25, 041	18, 050	21, 704	14, 025	18, 104	18, 502	23, 014	14, 100	21, 035	98. 7	80. 7
Electric motors, total	23, 076	25, 057	18, 093	21, 815	14, 075	18, 240	18, 553	24, 317	14, 241	21, 748	100. 0	100. 0
Driven by purchased energy	23, 072	25, 041	18, 050	21, 704	14, 025	18, 104	18, 502	23, 014	14, 100	21, 035	99. 9	88. 3
Driven by energy generated in establishments reporting	4	16	7	21	50	145	51	403	132	713	0. 1	1. 7
Electric generators	1	Kilowatts 30 Kilowatt-hours 62, 837, 756	4	Kilowatts 44	2	Kilowatts 110	(3)	(3)	(3)	(3)		
Electric energy purchased <sup>4</sup>				(5)		(5)		(5)		(5)		
<b>CONTRACT SHOPS</b>												
Prime movers and electric motors driven by purchased energy, aggregate	7, 142	Horse-power 9, 925	5, 934	Horse-power 7, 902	4, 422	Horse-power 5, 632	5, 220	Horse-power 6, 754	2, 617	Horse-power 3, 311	100. 0	100. 0
Prime movers, total	45	41	3	48	7	73	18	134	43	317	0. 4	2. 8
Steam engines	43	20			1	20	3	28	6	63	0. 3	0. 5
Internal-combustion engines	2	12	3	48	4	48	15	106	37	224	0. 1	1. 8
Water wheels and water turbines					2	5						
Electric motors driven by purchased energy	7, 097	9, 884	5, 931	7, 854	4, 415	5, 460	5, 208	5, 020	2, 574	2, 904	99. 6	97. 7
Electric motors, total	7, 097	9, 884	5, 931	7, 854	4, 415	5, 460	5, 208	5, 020	2, 575	3, 000	100. 0	100. 0
Driven by purchased energy	7, 097	9, 884	5, 931	7, 854	4, 415	5, 460	5, 208	5, 020	2, 574	2, 904	100. 0	100. 0
Driven by energy generated in establishments reporting									1	16		
Electric energy purchased <sup>4</sup>		Kilowatt-hours 18, 224, 781		(5)		(5)		(5)		(5)		

<sup>1</sup> Not called for separately on schedule.  
<sup>2</sup> Less than one-tenth of 1 per cent.  
<sup>3</sup> Not called for on schedule.  
<sup>4</sup> This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.  
<sup>5</sup> Data incomplete.

TABLE 8.—CLOTHING, WOMEN'S—WAGE EARNERS, BY MONTHS, FOR ALL FACTORIES, REGULAR FACTORIES,  
AND CONTRACT SHOPS, FOR THE UNITED STATES, 1929, 1925, 1919, 1914, AND 1909, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by italic figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum	
		January	February	March	April	May	June	July	August	September	October	November	December		
<b>ALL FACTORIES</b>															
United States:															
1929	187,500	181,163	192,030	199,301	195,970	186,232	173,706	<i>163,518</i>	182,467	198,149	201,506	191,548	184,412	81.1	
1925	126,466	124,444	135,132	140,694	134,931	121,702	112,771	<i>110,795</i>	121,104	132,364	135,719	127,046	119,928	78.7	
1919	105,649	<i>146,080</i>	153,523	160,844	161,280	162,892	155,493	169,762	180,045	184,709	179,919	172,145	171,027	70.1	
1914	108,907	163,807	179,894	188,626	180,926	166,707	157,066	<i>145,962</i>	160,868	180,611	182,103	164,977	156,038	77.1	
1909	153,743	147,075	160,060	165,960	158,188	140,342	138,545	<i>136,034</i>	148,121	163,278	167,525	161,976	162,801	80.6	
Arkansas	274	<i>206</i>	215	235	258	283	307	322	317	318	295	260	264	64.0	
California	7,166	<i>6,443</i>	7,253	7,745	7,630	7,224	6,732	6,815	7,145	7,110	7,702	6,897	6,582	82.5	
Colorado	120	<i>119</i>	144	141	170	157	150	145	139	130	154	168	192	62.0	
Connecticut	3,484	3,400	3,484	3,683	3,632	3,600	3,366	3,349	3,454	3,708	3,568	3,362	3,519	80.5	
Florida	100	<i>106</i>	112	117	115	110	106	96	96	89	81	81	88	60.2	
Georgia	705	<i>573</i>	674	727	796	837	864	776	633	653	<i>571</i>	658	692	66.1	
Illinois	13,302	13,301	14,052	14,815	14,665	14,261	13,493	12,597	13,269	14,153	14,819	13,650	<i>12,550</i>	84.7	
Indiana	1,524	1,477	1,524	1,691	1,676	1,546	1,519	1,519	1,466	1,508	1,556	1,514	1,493	92.1	
Iowa	210	<i>226</i>	251	241	233	208	224	207	185	212	210	210	217	73.7	
Kansas	95	<i>25</i>	26	25	31	35	42	22	38	44	48	37	32	52.1	
Louisiana	328	309	333	371	377	321	302	<i>279</i>	284	307	332	348	371	74.0	
Maryland	3,769	3,027	3,759	3,772	3,893	3,899	3,864	3,870	3,741	3,870	3,927	3,632	3,473	88.4	
Massachusetts	6,874	6,178	6,632	6,929	7,203	7,263	6,837	<i>6,077</i>	6,437	7,111	7,579	7,416	6,831	80.2	
Michigan	1,429	1,304	1,513	1,530	1,488	1,458	1,391	1,340	1,442	1,469	1,476	1,342	<i>1,259</i>	81.0	
Minnesota	831	<i>770</i>	853	883	873	850	850	<i>768</i>	830	850	848	791	802	87.0	
Mississippi	244	<i>250</i>	250	250	237	242	250	246	246	253	255	267	267	89.5	
Missouri	6,903	6,578	6,904	7,014	7,319	7,109	6,974	6,881	6,982	6,956	6,900	6,817	<i>6,394</i>	87.4	
New Jersey	8,972	8,870	9,222	9,369	9,391	9,246	8,690	8,028	8,656	9,297	9,340	8,866	8,682	85.5	
New York	102,606	99,675	105,942	110,185	106,394	98,553	89,105	<i>82,611</i>	98,920	110,554	112,747	107,401	103,066	73.3	
Ohio	6,036	6,046	6,389	6,582	6,509	6,280	6,014	6,452	6,261	6,064	6,007	6,595	6,406	81.5	
Oregon	505	581	583	591	588	420	375	500	548	527	528	568	301	62.3	
Pennsylvania	14,688	<i>14,110</i>	14,607	14,894	14,789	14,539	14,642	14,315	14,280	14,833	15,065	15,019	15,170	93.0	
Tennessee	550	548	563	576	574	564	560	<i>498</i>	545	542	556	550	560	80.5	
Texas	1,954	1,860	1,987	2,051	2,144	2,099	2,016	1,838	1,847	2,045	2,000	1,828	<i>1,749</i>	81.2	
Vermont	309	308	325	331	318	318	327	320	284	284	278	306	325	78.2	
Virginia	108	198	186	191	208	207	<i>177</i>	184	192	200	211	218	262	81.2	
Washington	1,213	1,134	1,204	1,338	1,361	1,363	1,312	1,234	1,181	1,179	1,150	1,047	<i>989</i>	72.6	
West Virginia	703	<i>695</i>	699	706	701	708	712	710	705	701	700	698	698	97.3	
Wisconsin	1,404	<i>1,307</i>	1,376	1,435	1,538	1,596	1,519	1,449	1,405	1,478	1,505	1,484	1,471	81.9	
<b>REGULAR FACTORIES</b>															
United States:															
1929	139,393	133,319	140,930	140,540	144,402	138,334	131,237	<i>126,686</i>	135,673	146,261	149,389	143,061	137,815	84.1	
Arkansas	274	<i>206</i>	215	235	258	283	307	322	317	318	295	260	264	64.0	
California	6,869	<i>6,163</i>	6,946	7,419	7,302	6,917	6,426	6,551	6,913	7,587	7,400	6,704	6,360	81.2	
Colorado	149	<i>120</i>	144	141	170	157	150	145	139	130	154	168	192	62.0	
Connecticut	1,721	1,624	1,620	1,721	1,698	1,722	1,728	1,716	1,710	1,815	1,836	1,747	1,715	88.2	
Florida	100	<i>106</i>	112	117	115	110	106	96	96	89	81	81	88	60.2	
Illinois	13,103	12,633	13,347	14,074	13,906	13,523	12,847	12,085	12,570	13,408	14,066	12,906	<i>11,877</i>	84.4	
Iowa	219	<i>220</i>	251	241	233	208	224	207	185	212	210	210	217	73.7	
Louisiana	328	309	333	371	377	321	302	<i>279</i>	284	307	332	348	371	74.0	
Maryland	3,244	3,145	3,275	3,247	3,274	3,322	3,297	3,311	3,193	3,345	3,402	3,144	<i>3,001</i>	88.2	
Massachusetts	6,699	<i>5,993</i>	6,783	6,965	6,900	6,860	6,011	<i>5,494</i>	6,773	7,400	7,749	6,747	6,244	79.4	
Michigan	1,420	1,304	1,513	1,530	1,488	1,458	1,391	1,340	1,442	1,469	1,476	1,342	<i>1,259</i>	81.0	
Mississippi	199	<i>185</i>	185	185	192	197	205	201	201	208	210	212	212	87.3	
New Jersey	3,526	3,429	3,593	3,670	3,667	3,611	3,479	3,387	3,440	3,576	3,669	3,459	<i>3,355</i>	90.5	
New York	68,435	66,201	69,781	72,074	70,216	65,633	60,695	<i>57,645</i>	69,129	73,441	75,407	73,000	70,386	76.4	
Ohio	5,279	5,172	5,554	5,740	5,713	5,525	5,283	4,863	5,455	5,287	5,287	4,740	<i>4,755</i>	82.5	
Oregon	505	581	583	591	588	420	375	500	548	527	528	568	301	62.3	
Pennsylvania	11,471	<i>10,677</i>	11,332	11,593	11,495	11,305	11,495	11,184	11,149	11,680	11,853	11,733	11,839	92.7	
Virginia	108	198	186	191	208	207	<i>177</i>	184	192	200	211	218	262	81.2	
Wisconsin	1,386	<i>1,302</i>	1,394	1,372	1,411	1,457	1,413	1,382	1,373	1,425	1,416	1,399	1,425	86.9	
<b>CONTRACT SHOPS</b>															
United States:															
1929	48,107	47,844	51,100	52,755	51,608	47,898	42,400	<i>37,832</i>	46,794	51,888	52,117	48,487	46,597	71.7	
California	266	280	307	320	328	307	306	264	232	223	212	193	218	58.8	
Connecticut	1,783	1,776	1,804	1,859	1,934	1,778	1,688	1,633	1,744	1,893	1,732	1,605	<i>1,604</i>	81.9	
Illinois	699	698	705	741	749	738	646	<i>512</i>	699	745	753	750	673	67.5	
Maryland	625	482	484	525	529	577	557	559	609	678	625	488	<i>472</i>	81.7	
Massachusetts	775	820	844	874	903	903	825	683	694	802	830	669	687	64.6	
Mississippi	45	<i>45</i>	45	45	45	45	45	45	46	46	45	45	45		
New Jersey	5,446	5,441	5,659	5,693	5,704	5,635	5,211	<i>4,841</i>	5,216	5,721	5,680	5,407	5,847	81.1	
New York	38,661	33,474	36,161	37,511	36,178	32,920	29,410	<i>24,661</i>	32,791	37,113	37,349	34,892	32,674	66.6	
Ohio	756	874	835	842	790	755	731	<i>589</i>	806	767	780	625	670	67.4	
Pennsylvania	3,217	<i>3,123</i>	3,275	3,301	3,284	3,284	3,147	3,131	3,131	3,144	3,212	3,280	3,381	93.8	
Wisconsin	78	<i>55</i>	71	65	127	139	106	<i>52</i>	52	53	90	85	46	23.0	

1 No comparable figures available for years prior to 1929.

## COLLARS, MEN'S

Description of the industry.—The establishments gaged primarily in the manufacture of collars for assigned to this industry are those which are en- men's wear.

TABLE 1.—COLLARS, MEN'S—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1910 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel, and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>	Horsepower
1929	15	2,052	\$2,263,335	\$3,630,168	\$8,740,390	\$5,110,228	1,281
1927	24	3,270	2,060,938	5,866,677	13,264,207	7,307,530	3,131
1925	28	7,187	5,502,920	11,792,449	27,587,675	15,795,220	4,497
1923	37	10,449	7,050,700	18,360,680	42,006,218	24,200,038	5,050
1921	34	9,285	7,001,018	12,374,051	20,571,374	17,197,320	(3)
1910	30	11,103	7,430,720	10,434,095	47,564,949	28,130,854	5,270
1914	35	10,100	4,494,146	6,505,578	18,530,840	11,905,202	3,359
1909	47	12,421	4,912,316	5,088,688	17,230,452	11,241,804	3,234
1904	44	10,786	3,067,193	4,030,842	12,587,277	7,947,435	2,163
1899	57	17,135	5,658,060	6,011,556	15,760,132	9,757,576	2,063
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929	(3)	-9.7	-23.7	-38.1	-34.1	-30.9	-50.1
1925-1927	(3)	-54.6	-40.1	-50.3	-51.9	-53.2	-30.4
1923-1925	(3)	-31.2	-30.9	-35.8	-35.3	-35.0	-11.0
1921-1923	(3)	12.5	12.7	48.5	44.8	41.3	-----
1910-1921	(3)	-10.4	-5.0	-30.3	-37.8	-38.9	-----
1919-1929	(3)	-73.4	-69.5	-81.3	-81.0	-81.8	-75.7
1909-1910	(3)	-10.6	51.3	224.5	176.1	150.2	93.1
1899-1909	(3)	-27.5	-13.2	-0.4	9.3	15.2	56.8

<sup>1</sup> The figures for all years refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products.

<sup>2</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

<sup>3</sup> Not called for on schedule.

<sup>4</sup> Not computed where base is less than 100.

TABLE 2.—COLLARS, MEN'S—GENERAL STATISTICS FOR THE UNITED STATES: 1929, 1927, AND 1919

[Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

	Cen- sus year	Num- ber of estab- lish- ments	Sal- aried officers and employ- ees <sup>1</sup>	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manu- facture <sup>3</sup>
					Total	Prime movers	Motors run by pur- chased energy			Total	Materials and containers	Fuel and pur- chased energy		
United States	1929	15	233	2,052	1,281	255	1,026	\$341,353	\$2,263,335	\$3,630,168	\$3,573,496	\$56,672	\$8,740,390	\$5,110,228
	1927	24	318	3,270	3,131	2,507	621	652,086	2,060,938	5,866,677	5,780,867	85,810	13,264,207	7,307,530
	1919	30	1,422	11,103	5,270	4,016	1,260	2,012,630	7,430,720	10,434,095	10,206,564	227,531	47,564,949	28,130,854

<sup>1</sup> Not including proprietors and firm members, as follows: For 1929, 7; 1927, 18; 1919, 37. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 3,192; 1927, 3,606; 1919, 12,662.

<sup>2</sup> The figures for all years refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products.

<sup>3</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

<sup>4</sup> Massachusetts, 1 establishment; New York, 10; Ohio, 1; Pennsylvania, 3. No statistics for States can be given without disclosing data for individual establishments.

<sup>5</sup> Massachusetts, 1 establishment; Michigan, 1; Nebraska, 1; New York, 16; Ohio, 1; Pennsylvania, 4.

<sup>6</sup> Massachusetts, 1 establishment; Nebraska, 1; New Jersey, 3; New York, 31; Ohio, 1; Pennsylvania, 2.

## CENSUS OF MANUFACTURES: 1929

TABLE 3.—COLLARS, MEN'S—PRODUCTION, BY KIND, QUANTITY, AND VALUE, 1929 AND 1927, AND BY KIND AND VALUE, 1925 AND 1923, FOR THE UNITED STATES

[The figures for all census years refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products]

KIND	1929		1927		1925	1923
	Quantity	Value	Quantity	Value	Value	Value
1. Men's-collar industry, all products, total value.....		\$8,740,396		\$13,204,207	\$27,687,075	\$42,060,218
2. Collars.....		7,205,679		12,179,066	21,388,054	30,803,554
3. Other products (not normally belonging to the industry). Receipts for contract work.....		1,331,534 203,183		842,469 242,672	5,797,564 402,057	11,617,697 245,057
Men's collars made as secondary products in other industries.....		1,677,300		2,238,295	2,131,362	1,783,508
Men's collars, all industries, total (sum of 2 and 5).....	<i>Dozens</i> 5,008,370	8,882,970	<i>Dozens</i> 8,048,845	14,417,301	23,510,416	32,587,152
Soft (from textile fabrics).....	2,914,938	5,676,070	4,218,992	8,776,547	(1)	(1)
Starched (from textile fabrics).....	2,400,842	3,052,122	3,283,957	5,307,771	(1)	(1)
Other.....	382,500	154,178	545,896	333,043	(1)	(1)

<sup>1</sup> Not called for on schedule.

TABLE 4.—COLLARS, MEN'S—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSE-POWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
		<i>Horse-power</i>		<i>Horse-power</i>		<i>Horse-power</i>		<i>Horse-power</i>		<i>Horse-power</i>		
Prime movers and electric motors driven by purchased energy, aggregate.....	408	1,281	226	3,131	751	4,497	247	5,270	116	3,359	100.0	100.0
Prime movers, total.....	3	255	7	2,507	11	2,088	24	4,016	21	2,984	10.0	76.1
Steam, total.....	3	255	6	2,436	10	2,010	22	3,016	21	2,984	19.9	74.2
Engines.....	3	255	3	335	7	810	18	1,806	(1)	(1)	10.0	35.0
Turbines.....			3	2,100	3	2,100	4	2,020	(1)	(1)		38.3
Internal-combustion engines.....							1	25				0.5
Water wheels and water turbines.....			1	72	1	72	1	75				1.4
Electric motors driven by purchased energy.....	405	1,026	219	624	740	1,509	223	1,260	95	375	80.1	23.0
Electric motors, total.....	453	1,201	736	2,907	1,230	3,748	734	3,840	402	1,767	100.0	100.0
Driven by purchased energy.....	405	1,026	219	624	740	1,509	223	1,260	95	375	85.4	32.8
Driven by energy generated in establishments reporting.....	48	175	517	2,283	490	2,239	511	2,580	367	1,392	14.6	67.2
Electric generators.....	3	<i>Kilowatts</i> 200 <i>Kilowatt-hours</i> 1,440,554	4	<i>Kilowatts</i> 2,995	7	<i>Kilowatts</i> 1,425	(?)	(?)	(?)	(?)		
Electric energy purchased <sup>3</sup> .....				(1)		(1)		(?)		(?)		

<sup>1</sup> Not called for separately on schedule.<sup>2</sup> Not called for on schedule.<sup>3</sup> This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.<sup>4</sup> Data incomplete.

TABLE 5.—COLLARS, MEN'S—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES: 1929, 1925, 1919, AND 1914

[The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Percent minimum is of maximum	
		January	February	March	April	May	June	July	August	September	October	November	December		
United States:															
1929.....	2,652	<b>3,097</b>	3,148	<i>3,191</i>	<b>3,191</b>	3,061	2,883	2,928	2,840	2,908	2,870	2,823	2,480	2,480	77.7
1925.....	7,187	<b>6,807</b>	7,730	<i>7,842</i>	<b>7,550</b>	7,691	7,403	7,154	<i>6,876</i>	6,817	6,800	6,081	6,017	6,017	83.9
1919.....	11,103	<b>10,234</b>	10,326	<i>10,020</i>	<b>11,032</b>	11,237	10,995	11,433	11,139	11,545	11,367	11,661	11,647	11,647	87.8
1914.....	10,100	<b>10,050</b>	10,017	<i>10,108</i>	<b>10,150</b>	10,107	9,982	<i>9,651</i>	9,693	10,081	10,856	10,325	10,194	10,194	88.7

## CORSETS AND ALLIED GARMENTS

Description of the industry.—This industry embraces those establishments whose principal products are corsets, brassières, bandeaux, combinations, girdles, corset stays, etc.

TABLE 1.—CORSETS AND ALLIED GARMENTS—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel, and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>	Horsepower
1929	213	13,064	\$12,440,334	\$36,035,079	\$70,802,100	\$40,767,120	6,048
1927	222	13,778	12,402,288	35,804,422	77,218,262	41,823,780	7,810
1925	185	14,525	12,304,004	37,808,237	77,114,840	39,306,009	8,394
1923	216	16,104	13,258,200	38,416,008	78,047,050	39,031,061	5,001
1921	173	17,084	13,102,150	38,867,277	75,600,156	36,742,870	(*)
1919	188	18,416	13,082,242	38,815,803	75,541,960	36,726,155	6,050
1914	107	20,400	7,970,721	19,586,333	40,550,702	20,004,100	6,002
1909	138	17,501	6,464,144	15,040,415	39,257,187	17,016,772	4,437
1904	169	10,976	3,600,462	6,135,237	14,862,081	8,726,844	3,027
1899	138	12,207	3,044,503	6,357,180	14,451,108	8,004,000	3,250
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929	-4.1	-0.8	0.4	1.8	-0.5	-2.5	-22.0
1925-1927	20.0	-5.1	0.1	-0.4	0.1	6.4	-6.9
1923-1925	-14.4	-0.8	-0.5	-1.0	-1.2	-0.8	42.2
1921-1923	24.0	-5.7	1.2	-1.1	3.2	7.9	
1919-1921	-8.0	-7.2	0.2	0.1	0.1	(*)	
1919-1929	13.3	-25.8	-4.0	-7.2	1.7	11.0	-13.1
1909-1919	36.2	4.8	102.4	148.2	127.1	108.5	50.8
1899-1909		42.8	77.4	146.0	130.1	117.7	36.5

<sup>1</sup> For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.

<sup>2</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

<sup>3</sup> Not called for on schedule.

<sup>4</sup> Less than one-tenth of 1 per cent.

CENSUS OF MANUFACTURES: 1929

TABLE 2.—CORSETS AND ALLIED GARMENTS—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Census year	Number of establishments	Salaried officers and employes <sup>1</sup>	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
					Total	Prime movers	Motors run by purchased energy			Total	Materials and containers	Fuel and purchased energy		
United States.....	1929	213	2,195	13,664	6,048	2,755	3,203	\$6,233,226	\$12,446,334	\$36,035,079	\$35,737,839	\$207,240	\$76,802,199	\$40,767,120
	1927	222	2,330	13,778	7,810	4,170	3,049	5,309,850	12,402,288	35,394,422	35,076,761	317,661	77,218,202	41,823,780
	1919	188	3,238	18,415	6,950	4,293	2,063	7,150,167	13,082,242	38,815,803	38,556,170	159,624	75,541,959	36,726,156
Connecticut.....	1929	15	339	2,800	1,850	1,475	381	1,071,646	2,380,831	6,360,270	6,203,308	66,062	13,660,670	7,309,400
	1927	17	480	3,138	3,220	2,795	425	1,125,766	2,804,576	6,838,201	6,745,002	93,109	15,198,780	8,360,588
	1919	10	553	5,616	3,310	2,815	495	1,502,083	4,155,629	12,206,910	12,213,394	83,510	20,674,864	8,377,054
Illinois.....	1929	21	281	1,572	458	50	408	801,000	1,635,207	5,117,332	5,085,255	32,077	11,428,777	6,311,445
	1927	21	286	1,551	509	50	450	590,924	1,497,758	4,632,727	4,503,486	20,241	9,712,022	5,179,895
	1919	22	427	2,273	484	50	434	1,000,008	1,533,073	4,703,422	4,661,725	41,697	9,232,201	4,528,779
Indiana.....	1929	5	40	463	102	-----	102	81,943	427,956	1,106,619	1,097,564	9,055	2,750,898	1,650,270
Massachusetts.....	1929	11	180	706	624	500	124	371,783	658,938	1,572,873	1,562,608	10,265	3,197,894	1,625,021
	1927	12	156	943	696	500	196	365,362	692,741	1,877,560	1,865,082	12,487	4,052,709	2,175,140
	1919	11	194	1,555	835	565	270	555,385	1,093,117	3,366,962	3,352,418	14,544	6,703,609	3,396,547
Michigan.....	1929	11	186	1,208	837	530	307	553,369	904,161	2,522,735	2,488,593	34,142	6,417,610	3,894,875
	1927	11	181	1,052	831	540	291	397,060	918,572	2,520,417	2,485,000	32,357	6,670,466	4,050,049
	1919	12	316	1,529	724	450	274	720,385	1,030,562	2,912,720	2,890,566	22,154	7,207,824	4,385,104
New Jersey.....	1929	15	281	1,516	552	150	402	796,978	1,420,088	3,808,025	3,776,348	32,677	7,621,263	3,813,238
	1927	17	326	1,506	851	235	616	713,826	1,382,196	3,831,146	3,804,306	26,780	8,411,220	4,580,074
	1919	21	465	2,152	555	342	213	1,157,703	1,652,354	4,418,360	4,300,987	27,373	9,292,523	4,874,163
New York.....	1929	125	726	4,702	1,306	50	1,346	2,210,581	4,625,763	14,192,640	14,092,562	100,078	27,508,305	13,315,755
	1927	130	748	4,546	1,422	50	1,372	1,002,579	4,431,869	13,542,061	13,436,079	106,982	27,605,595	14,003,534
	1919	74	918	3,882	923	71	852	1,777,681	2,843,596	8,551,722	8,498,121	63,601	10,603,902	8,052,270
Other States.....	<sup>a</sup> 1929	10	162	697	223	-----	223	339,026	393,390	1,354,655	1,342,601	11,984	4,201,683	2,847,098
	<sup>b</sup> 1927	14	163	1,012	290	-----	290	274,027	674,570	2,252,301	2,234,686	17,615	5,657,801	3,405,509
	<sup>c</sup> 1919	29	379	1,408	325	-----	325	420,382	778,221	2,565,707	2,548,968	10,739	6,677,046	3,111,339

<sup>1</sup> Not including proprietors and firm members, as follows: For 1929, 99; 1927, 131; 1919, 98. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 15,958; 1927, 16,239; 1919, 21,761.

<sup>2</sup> The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products.

<sup>3</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

<sup>4</sup> Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919 but not in the United States totals.

<sup>5</sup> California, 2 establishments; Georgia, 1; Minnesota, 1; Pennsylvania, 5; Wisconsin, 1.

<sup>6</sup> Indiana, 2 establishments; Minnesota, 1; Missouri, 1; Ohio, 1; Pennsylvania, 8; Wisconsin, 1.

<sup>7</sup> California, 1 establishment; Indiana, 2; Maryland, 2; Minnesota, 3; Missouri, 1; North Dakota, 1; Ohio, 4; Pennsylvania, 13; Washington, 1; Wisconsin, 1.

TABLE 3.—CORSETS AND ALLIED GARMENTS—PRODUCTION, BY CLASS, NUMBER, AND VALUE, BY STATES: 1929 AND 1927

[The figures refer to sales (shipments or deliveries) by manufacturers. See GENERAL EXPLANATIONS—Value of Products. Figures are given for each State which can be shown separately without disclosing data for individual establishments. Certain of the "Other States," however, reported larger quantities and values of some of the classes of products than one or more of the States shown separately]

CLASS	1929		1927		CLASS	1929		1927	
	Quantity	Value	Quantity	Value		Quantity	Value	Quantity	Value
1. "Corsets and allied garments" industry, all products, total value.....		\$76,802,199		\$77,218,202	Corsets and allied garments, all industries—Continued.				
2. Corsets and allied garments.....		73,350,624		73,774,504	Corsets, girdles, and garter-belts, total.....	Number 18,057,283	\$32,843,130	Number 14,049,369	\$31,819,177
3. Other products (not normally belonging to the industry).....		3,327,675		3,411,638	Connecticut.....	3,368,435	7,715,380	4,506,700	8,947,651
4. Receipts for contract work.....		123,000		32,000	Illinois.....	2,294,857	4,012,358	1,046,585	2,422,947
5. Corsets and allied garments made as secondary products in other industries, value.....		851,748		360,022	Massachusetts.....	1,191,717	1,881,927	1,217,890	2,436,168
Corsets and allied garments, all industries:					Michigan.....	1,503,147	3,858,024	1,266,098	3,104,773
Aggregate value (sum of 2 and 5).....	Number	74,202,372	Number	74,134,586	New Jersey.....	2,454,528	3,023,867	1,233,866	2,394,893
Brassieres and bandeaux-brassieres, total.....		24,080,927		24,999,038	New York.....	6,403,486	9,099,540	3,974,551	6,584,315
Connecticut.....	616,816	552,572	668,667	496,856	Other States (for 1929: Calif., Ga., Ind., Minn., Pa., Wis.).....	841,114	2,052,036	803,700	2,928,430
Illinois.....	4,949,725	4,037,613	3,408,830	1,682,633	Combinations or one-piece garments, total.....				
Massachusetts.....	788,987	472,042	574,304	444,398	Connecticut.....	1,772,098	3,601,520	1,051,496	3,123,538
Michigan.....	1,200,265	837,749	2,552,203	1,140,064	Illinois.....	1,801,103	3,203,145	3,603,041	5,423,633
New Jersey.....	3,616,888	2,278,000	3,395,668	2,225,065	Michigan.....	791,657	1,084,800	1,054,101	2,032,999
New York.....	12,493,296	8,029,386	13,161,782	8,139,420	New Jersey.....	969,997	2,046,786	2,225,368	3,423,797
Other States (for 1929: Ga., Ind., Pa., Wis.).....	1,014,950	1,339,485	1,237,584	1,001,578	New York.....	3,959,015	7,334,752	3,854,100	7,776,729
					Other States (for 1929: Ga., Ind., Mass., Minn., Pa.).....	1,251,562	3,716,759	1,024,753	2,677,633
					Corset accessories (clasps, stays, etc.).....		1,264,021		2,357,014
					Undistributed.....				300,022

TABLE 4.—CORSETS AND ALLIED GARMENTS—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSE-POWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
Prime movers and electric motors driven by purchased energy, aggregate.....	3,310	<i>Horse-power</i> 6,048	2,722	<i>Horse-power</i> 7,810	1,033	<i>Horse-power</i> 8,304	1,013	<i>Horse-power</i> 6,956	805	<i>Horse-power</i> 6,062	100.0	100.0
Prime movers, total.....	22	2,755	30	4,170	34	4,012	46	4,203	37	4,080	45.0	61.7
Steam, total.....	22	2,755	20	3,820	30	4,207	30	4,176	36	4,683	45.0	60.0
Engines.....	22	2,755	25	3,470	29	4,097	30	4,176	(1)	(1)	45.0	60.0
Turbines.....			1	350	1	200			(1)	(1)		
Internal-combustion engines.....			1	60	1	60	15	107	1	6		1.6
Water wheels and water turbines.....			3	290	3	255	1	10				0.1
Electric motors driven by purchased energy.....	3,207	3,293	2,692	3,649	1,809	3,782	967	2,663	768	2,273	54.4	38.3
Electric motors, total.....	3,608	4,630	3,143	5,067	2,494	6,074	1,569	5,132	1,270	4,273	100.0	100.0
Driven by purchased energy.....	3,207	3,293	2,692	3,649	1,809	3,782	967	2,663	768	2,273	71.1	51.9
Driven by energy generated in establishments reporting.....	401	1,337 <i>Kilowatts</i> 2,403	451	1,418 <i>Kilowatts</i> 4,002	505	2,292 <i>Kilowatts</i> 6,128	542	2,460	511	2,000	29.0	48.1
Electric generators.....	10	<i>Kilowatt-hours</i> 3,754,115	25	4,002	20	(4)	(4)	(4)	(4)	(4)		
Electric energy purchased <sup>1</sup> .....				(4)		(4)		(4)		(4)		

<sup>1</sup> Not called for separately on schedule.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.

<sup>4</sup> Data incomplete.

TABLE 5.—CORSETS AND ALLIED GARMENTS—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, 1914, AND 1909, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures.]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum	
		January	February	March	April	May	June	July	August	September	October	November	December		
United States:															
1929.....	13,604	<i>13,053</i>	13,474	13,927	14,089	13,940	13,840	13,085	13,590	13,086	13,676	13,015	13,435	13,435	93.0
1925.....	14,525	<i>13,664</i>	14,182	14,870	15,208	15,182	14,781	14,730	14,727	14,863	14,632	14,031	16,545	16,545	87.3
1919.....	18,415	<i>17,052</i>	17,188	17,222	17,481	17,597	17,726	18,214	18,758	10,146	10,816	20,217	20,563	20,563	82.9
1914.....	20,400	<i>21,633</i>	22,092	22,280	22,315	21,619	21,065	20,290	20,238	10,800	18,813	18,049	17,749	17,749	79.5
1909.....	17,504	<i>16,847</i>	17,206	17,616	17,685	17,370	17,221	17,224	17,355	17,860	18,254	18,167	18,065	18,065	92.3
Connecticut.....	2,800	<i>2,669</i>	2,732	2,774	2,730	2,748	2,741	2,789	2,823	2,858	2,876	2,840	3,015	3,015	88.5
Illinois.....	1,572	<i>1,584</i>	1,581	1,606	1,632	1,635	1,600	1,576	1,594	1,548	1,504	1,502	1,503	1,503	91.9
Indiana.....	463	<i>468</i>	474	481	470	482	472	457	460	455	440	445	445	445	91.3
Massachusetts.....	700	<i>614</i>	631	668	712	728	742	722	769	761	713	725	712	712	70.8
Michigan.....	1,208	<i>1,066</i>	1,183	1,205	1,332	1,393	1,295	1,251	1,198	1,205	1,209	1,143	1,143	1,143	73.9
New Jersey.....	1,516	<i>1,502</i>	1,520	1,535	1,542	1,560	1,558	1,531	1,485	1,475	1,512	1,488	1,481	1,481	94.9
New York.....	4,702	<i>4,590</i>	4,748	4,916	4,894	4,720	4,672	4,607	4,540	4,697	4,738	4,700	4,579	4,579	92.1

## FURNISHING GOODS, MEN'S, NOT ELSEWHERE CLASSIFIED

Description of the industry.—The establishments covered by this industry classification are engaged primarily in the manufacture of men's neckwear, belts (other than leather), bath robes, lounging garments, pajamas, underwear cut and sewed from purchased fabric, etc.

TABLE 1.—FURNISHING GOODS, MEN'S—SUMMARY FOR THE UNITED STATES: 1909 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel, and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>	Horsepower
1929.....	598	26,598	\$23,009,301	\$83,031,818	\$150,903,003	\$67,331,785	7,036
1927.....	534	25,183	22,070,339	82,839,406	145,474,143	62,634,737	7,100
1926.....	410	21,094	17,438,160	69,861,348	120,867,599	51,006,248	4,977
1923.....	454	18,958	14,810,103	67,230,870	102,951,687	45,714,808	5,470
1921.....	421	15,921	12,409,819	47,193,111	77,520,542	30,333,431	(3)
1919.....	487	18,044	13,562,866	64,743,912	107,834,055	43,090,783	5,050
1914.....	551	22,459	8,415,480	31,593,442	52,453,338	20,859,896	5,840
1909 <sup>4</sup> .....	602	15,920	5,907,370	20,224,090	42,120,938	15,005,848	3,983
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929.....	12.0	5.6	4.3	1.0	3.8	7.5	-2.1
1926-1927.....	27.4	19.4	26.6	18.6	20.4	22.8	44.5
1923-1925.....	-7.7	11.3	17.7	22.1	17.4	11.6	-0.0
1921-1923.....	7.8	19.1	18.8	21.3	32.8	50.7	-----
1919-1921.....	-13.6	-16.0	-8.1	-27.1	-28.1	-20.6	-----
1910-1929.....	22.8	40.4	69.6	29.2	40.0	56.3	24.3
1909-1919.....	-19.1	19.0	129.6	146.0	156.0	170.9	-12.1

<sup>1</sup> The figures for all years refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products.

<sup>2</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

<sup>3</sup> Not called for on schedule.

<sup>4</sup> No comparable data available for years prior to 1909.

# FURNISHING GOODS, MEN'S, NOT ELSEWHERE CLASSIFIED

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**TABLE 2.—FURNISHING GOODS, MEN'S—GENERAL STATISTICS, BY STATES, 1929, 1927, AND 1919**

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Cen-sus year	Number of estab-lish-ments	Salaried offi-cers and em-ploy-ees <sup>1</sup>	Wage earners (av-er-age for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIP-MENT			Salaries	Wages	Paid for contract work	COST OF MATERIALS, CON-TAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manu-facture <sup>3</sup>	
					Total	Prime movers	Mo-tors run by pur-chased energy				Total	Materials and con-tainers	Fuel and pur-chased energy			
United States	1929	598	2,526	26,588	7,036	1,009	5,427	\$7,450,130	\$23,009,391	\$5,014,701	\$83,631,818	\$83,062,195	\$569,623	\$150,993,603	\$67,331,785	
	1927	534	3,093	25,189	7,100	1,951	5,239	6,553,571	22,070,339	4,706,717	82,839,409	82,400,045	438,401	145,474,143	62,634,737	
	1919	487	3,083	18,944	5,650	2,859	2,309	3,115,308	13,562,866	1,754,499	64,743,912	64,492,968	250,914	107,834,695	43,000,783	
Individual States:																
Alabama	1929	6	15	482	245		245	127,281	303,447		1,018,826	1,011,744	7,082	1,017,486	598,660	
California	1929	16	117	612	162		162	256,814	644,570	8,234	2,639,884	2,631,450	7,428	4,531,611	1,892,727	
	1927	11	104	359	41		41	168,047	397,274		1,822,412	1,817,141	5,271	2,076,875	1,154,403	
	1919	8	67	263	24		24	145,365	204,846	1,190	1,298,258	1,296,407	1,701	2,205,038	900,780	
Connecticut	1929	10	42	995	114		114	153,095	588,345	143,081	2,825,860	2,812,361	13,508	4,010,067	1,793,138	
	1927	11	91	870	104		104	262,163	936,113	128,500	3,165,600	3,080,412	16,188	5,370,632	2,264,432	
Georgia	1929	4	16	80	11		11	30,064	44,802		202,667	201,322	1,345	355,291	152,624	
	1927	4	12	70	15		15	15,544	41,002	600	200,607	208,150	1,451	350,410	146,803	
Illinois	1929	30	244	2,630	740		280	600,231	1,411,950	341,430	4,947,428	4,905,467	42,021	8,242,251	3,294,823	
	1927	20	106	2,028	458		208	411,000	24,460		5,111,902	5,092,514	40,388	8,548,663	3,436,761	
	1919	34	354	1,560	983		283	741,077	1,006,797	0,084	4,754,509	4,727,508	27,001	8,535,094	3,780,585	
Indiana	1929	8	121	1,778	1,017		800	213,860	1,285,332		3,249,174	3,218,483	30,691	5,829,397	2,589,223	
	1927	7	100	1,260	879		720	128,001	1,002,335	20,106	2,785,302	2,764,842	20,520	4,560,124	1,774,762	
Maryland	1929	44	231	4,634	1,286		330	585,493	2,718,830	708,512	8,129,529	8,061,408	68,121	15,598,081	7,469,452	
	1927	31	379	4,896	1,610		705	926,055	2,758,272	362,857	7,700,300	7,708,750	60,646	15,330,639	7,561,543	
	1919	29	450	4,075	1,042		655	950,632	2,288,208	154,305	8,200,921	8,252,057	44,864	14,505,923	6,290,002	
Massachusetts	1929	30	163	1,321	172		172	442,429	1,110,270	151,543	3,730,707	3,710,043	20,754	7,061,267	3,330,470	
	1927	20	147	1,098	128		128	303,489	697,787	122,138	3,071,050	3,056,308	14,601	6,077,603	3,000,544	
	1919	14	60	275	33		33	203,924	291,301	60,805	1,020,727	1,022,280	4,447	2,890,264	963,577	
Michigan	1929	6	12	95	29		29	35,809	104,153		310,547	308,892	1,655	574,478	263,931	
	1927	3	16	96	19		19	45,916	85,295		353,641	351,730	1,911	616,659	262,418	
	1919	3	11	28	6		6	16,277	22,290		110,350	110,104	255	201,685	90,726	
Missouri	1929	21	120	1,065	265		265	380,455	790,064	11,567	3,657,084	3,633,215	24,709	5,149,034	2,091,050	
	1927	15	97	631	103		103	249,095	570,770		2,481,789	2,471,824	9,965	3,880,807	1,408,018	
	1919	12	123	374	60	12	48	591,995	277,844	569	1,709,726	1,780,394	4,332	2,892,863	1,102,077	
New Jersey	1929	22	81	1,447	418		190	207,299	1,087,092	577,370	2,098,379	2,077,204	21,175	5,920,205	2,921,916	
	1927	20	248	1,186	305		157	203,157	830,633	295,767	2,449,161	2,424,102	25,059	4,594,380	2,145,219	
	1919	29	212	2,841	1,038		733	305	1,040,722	213,816	4,065,805	4,031,122	34,743	9,262,744	4,296,879	
New York	1929	201	951	6,280	1,230		1,236	3,301,599	8,070,198	2,864,210	38,228,638	38,070,117	149,521	68,617,231	30,388,593	
	1927	288	1,262	6,890	2,050		8	2,042	2,014,091	0,354,786	3,302,332	3,270,518	31,817	71,895,573	30,099,055	
	1919	256	1,250	5,061	1,075		344	781	3,749,381	5,757,680	1,266,181	33,240,159	33,168,517	81,642	53,260,883	20,020,724
Ohio	1929	16	60	865	138		138	270,045	798,373	2,036	2,585,775	2,573,233	12,542	4,727,458	2,141,683	
	1927	13	82	600	87		87	200,321	446,011	42,380	2,074,449	2,066,160	8,280	3,074,714	1,600,265	
	1919	12	143	292	59	20	39	278,540	227,862	14,302	1,399,378	1,394,756	4,622	2,184,070	785,601	
Pennsylvania	1929	51	170	3,239	672		672	317,968	2,015,239	197,726	5,891,519	5,838,033	52,586	10,836,193	4,944,074	
	1927	47	200	2,063	528		528	368,432	1,624,288	340,106	5,077,733	5,036,531	41,202	9,844,797	4,167,064	
	1919	40	155	1,721	374		95	390,431	1,011,061	4,621	3,062,840	3,040,004	22,836	5,398,666	2,335,826	
Texas	1929	3	6	60	16		16	12,045	22,212		100,436	99,193	1,243	207,704	107,268	
Groups of States:																
Ark., 1 est.; La., 4; Okla., 1	1929	6	12	66	21		21	18,500	46,181		204,070	203,637	1,042	337,620	132,947	
Colo., 1 est.; Iowa, 2; Minn., 2; Nebr., 2; Wis., 3	1929	10	51	595	150		150	98,177	400,721	1,630	1,475,464	1,466,832	8,622	2,920,873	1,461,419	
Del., 4 est.; Vt., 1, Va., 1	1929	6	51	421	101		101	102,000	332,183	7,416	732,188	637,085	95,103	1,441,350	799,171	
Ky., 2 est.; N. C., 3; S. C., 1	1929	6	34	844	155		155	125,792	462,194		1,084,027	1,075,020	9,008	1,893,888	809,261	
Oreg., 2 est.; Wash., 5	1929	7	14	60	13		13	64,749	57,335		218,418	217,601	817	476,173	257,755	
States not shown separately.	1927	32	154	2,524	653		653	354,564	1,498,371	7,471	4,180,777	4,098,204	32,513	7,738,167	3,607,390	
	1919	44	243	1,548	371		371	530,479	917,589	30,566	3,898,170	3,873,769	24,411	6,407,176	2,500,000	

<sup>1</sup> Not including proprietors and firm members, as follows: For 1929, 408; 1927, 436; 1919, 503. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 29,582; 1927, 28,712; 1919, 22,530.

<sup>2</sup> The figures for all years refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products.

<sup>3</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

<sup>4</sup> Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919 but not in the United States totals.

<sup>5</sup> Alabama, 2 establishments; Arkansas, 2; Colorado, 1; Delaware, 5; Iowa, 1; Kentucky, 2; Louisiana, 1; Minnesota, 2; Nebraska, 2; North Carolina, 3; Oregon, 1; South Carolina, 1; Texas, 1; Vermont, 1; Washington, 3; West Virginia, 1; Wisconsin, 2.

<sup>6</sup> Connecticut, 5 establishments; Delaware, 7; Georgia, 2; Indiana, 2; Iowa, 4; Kentucky, 3; Louisiana, 1; Maine, 1; Minnesota, 1; Nebraska, 1; North Carolina, 3; Oregon, 1; Rhode Island, 3; South Carolina, 4; Vermont, 2; Washington, 2; Wisconsin, 2.

TABLE 3.—FURNISHING GOODS, MEN'S—PRODUCTION, BY CLASS, QUANTITY, AND VALUE, BY STATES: 1929 AND 1927

The figures for both years refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products. Figures are given for each State which can be shown separately without disclosing data for individual establishments. Certain of the "Other States," however, reported larger quantities and values of the specified products than some of the States shown separately.]

CLASS AND STATE	1929		1927	
	Quantity	Value	Quantity	Value
1. Men's furnishing-goods industry, all products, total value.....		\$150,063,003		\$145,474,143
2. Men's furnishing goods.....		141,233,605		136,920,202
3. Other products (not normally belonging to the industry).....		5,607,149		5,380,002
4. Receipts for contract work.....		3,122,789		3,173,879
5. Men's furnishing goods made as secondary products in other industries, value.....		12,731,758		12,062,980
Men's furnishing goods, all industries: Aggregate value (sum of 2 and 5).....		153,965,423		149,883,242
Neckwear (other than collars), not made in knitting mills— Total value.....		86,560,582		81,520,931
Neckties— Four-in-hand, total.....	Dozens 10,273,097	67,091,934	Dozens 8,211,951	60,073,480
California.....	476,055	3,481,448	374,070	2,712,480
Illinois.....	401,273	3,267,638	305,846	2,677,814
Maryland.....	205,320	1,313,408	175,292	1,243,557
Massachusetts.....	429,700	2,795,820	369,270	2,478,336
Missouri.....	573,880	3,717,070	425,204	2,857,103
New Jersey.....	201,973	1,801,017	86,777	512,086
New York.....	6,695,864	41,680,853	5,337,020	38,955,141
Ohio.....	322,969	2,644,120	260,061	2,107,749
Pennsylvania.....	337,354	2,322,380	284,080	1,933,396
Other States (for 1929: Colo., Conn., Ga., Ind., Ky., La., Mich., Minn., Nebr., Oreg., Tex., Wash., Wis.).....	627,803	5,167,250	506,591	4,534,889
Bow, total.....	2,523,557	0,237,438	3,108,313	12,113,827
California.....	136,866	450,603	67,942	188,304
Illinois.....	99,014	676,673	162,732	793,811
Maryland.....	63,314	242,000	60,821	254,810
Missouri.....	91,114	330,360	131,097	500,008
New York.....	1,260,822	4,107,240	1,727,055	6,591,055
Pennsylvania.....	45,307	248,757	68,053	244,539
Other States (for 1929: Colo., Conn., Ga., Ind., Ky., La., Mass., Mich., Minn., Nebr., N. J., Ohio, Oreg., Tex., Wash., Wis.).....	797,120	3,272,825	960,353	3,540,040
Other neckties.....	278,414	1,070,616	(1)	(1)
Scarfs, total.....	516,310	0,203,810	623,393	7,414,646
Illinois.....	51,262	603,703	132,353	1,258,004
New York.....	372,192	4,603,198	425,475	5,209,785
Other States (for 1929: Calif., Md., Minn., Mo., Nebr., N. J., Ohio, Pa., Wash., Wis.).....	91,866	1,196,000	65,565	886,257
Other neckwear, total.....		2,350,784		1,018,069
New York.....		1,880,884		1,824,532
Other States (for 1929: Calif., Ga., Ill., Md., Mass., Ohio, Pa., Wash., Wis.).....		466,000		94,437
Sleeping garments, total.....	1,847,018	24,218,644	1,400,837	10,521,023
Nightshirts, total.....	244,684	2,533,143	251,412	2,517,796
Maryland.....	58,111	690,088	21,745	212,105
New York.....	42,367	394,712	35,490	386,836
Pennsylvania.....	59,349	534,184	120,132	1,158,342
Other States (for 1929: Conn., Ill., Ind., Iowa, Mass., N. J., Tex.).....	84,767	1,013,259	74,045	760,513
Pajamas, total.....	Dozen suits 1,602,434	21,685,501	Dozen suits 1,200,425	17,003,227
Illinois.....	45,184	698,842	(2)	(2)
Maryland.....	304,751	5,928,008	229,359	3,621,207
Massachusetts.....	26,315	465,714	(2)	(2)
New Jersey.....	337,924	5,116,947	216,231	3,875,244
New York.....	250,861	2,910,044	275,028	3,344,632
Ohio.....	87,807	483,628	(2)	(2)
Pennsylvania.....	359,685	4,080,045	201,228	3,481,090
Other States (for 1929: Calif., Conn., Ind., Iowa, Mo., Tex.).....	150,007	2,102,273	197,579	2,681,088
Underwear (not made in knitting mills), total.....	6,167,860	30,926,784	6,110,938	38,070,825
Athletic underwear, total.....	4,726,744	23,358,398	5,887,825	30,354,788
Two-piece suits, woven fabric, total.....	Dozen pieces 1,305,281	6,931,856	Dozen pieces 808,323	4,549,667
Maryland.....	392,561	2,011,420	233,511	1,368,791
Massachusetts.....	119,634	485,056	(2)	(2)
New York.....	131,007	396,836	19,161	127,454
Pennsylvania.....	44,888	169,850	(2)	(2)
Other States (for 1929: Ala., Calif., Conn., Del., Ill., Ind., Mo., N. J., N. C., S. C., Tex., Va.).....	617,091	3,268,694	555,051	8,053,422

See footnotes at end of table.

FURNISHING GOODS, MEN'S, NOT ELSEWHERE CLASSIFIED

TABLE 3.—FURNISHING GOODS, MEN'S—PRODUCTION, BY CLASS, QUANTITY, AND VALUE, BY STATES: 1929 AND 1927—Continued

[See note at head of this table]

CLASS AND STATE	1929		1927	
	Quantity	Value	Quantity	Value
Men's furnishing goods, all industries—Continued.				
Underwear—Continued.				
Athletic underwear—Continued.				
Union suits, woven fabric, total.....	<i>Dozens</i> 3,201,160	\$15,781,819	<i>Dozens</i> 5,070,502	\$31,805,121
Alabama.....	320,500	1,174,701	( <sup>1</sup> )	( <sup>1</sup> )
Illinois.....	409,020	1,718,083	( <sup>1</sup> )	( <sup>1</sup> )
Indiana.....	549,048	2,720,943	443,787	2,780,645
Maryland.....	419,402	3,076,805	901,653	7,877,570
Massachusetts.....	111,432	408,780	( <sup>2</sup> )	( <sup>2</sup> )
Missouri.....	146,732	608,946	( <sup>2</sup> )	( <sup>2</sup> )
New York.....	324,508	1,406,385	782,512	4,600,470
Ohio.....	201,101	745,022	( <sup>3</sup> )	( <sup>3</sup> )
Pennsylvania.....	124,563	368,665	428,438	2,200,568
Other States (for 1929: Conn., Del., Ga., Ky., N. J., N. C., S. C., Tex., Va., Wash.).....	640,064	3,373,480	2,433,112	14,330,862
Shirts, knit fabric.....	160,363	644,723	( <sup>4</sup> )	( <sup>4</sup> )
Other underwear, total.....	<i>Dozen pieces</i> 1,440,636	7,568,380	<i>Dozen pieces</i> 223,113	1,715,537
Maryland.....	201,000	670,614	( <sup>4</sup> )	( <sup>4</sup> )
Massachusetts.....	53,384	201,270	( <sup>4</sup> )	( <sup>4</sup> )
New York.....	121,622	656,326	( <sup>4</sup> )	( <sup>4</sup> )
Pennsylvania.....	424,382	1,645,491	( <sup>4</sup> )	( <sup>4</sup> )
Other States (for 1929: Calif., Ind., Iowa, La., Mich., N. J., Ohio, Okla., S. C., Tex., Vt.).....	640,230	4,295,685	( <sup>4</sup> )	( <sup>4</sup> )
Bathrobes, total.....	<i>Number</i> 1,076,014	8,000,885	<i>Number</i> 1,360,840	6,591,758
New York.....	1,188,830	6,960,945	669,330	4,808,401
Other States (for 1929: Ala., Ark., Conn., Ill., Mass., Ohio, Pa.).....	488,084	1,045,940	301,510	1,723,267
Lounging garments, total.....	301,150	2,168,888	302,476	3,002,367
New York.....	188,658	1,543,472	358,430	2,695,528
Other States (for 1929: Ill., Md., Mass., Mo., Oreg.).....	172,492	625,416	34,046	300,839
Other furnishing goods, men's.....		1,183,640		1,176,839

<sup>1</sup> No data.

<sup>2</sup> Withheld from publication in order to avoid disclosing production of individual establishments; included in item for "Other States."

<sup>3</sup> Withheld from publication in order to avoid disclosing production of individual establishments; included in item for "Other underwear."

<sup>4</sup> Withheld from publication in order to avoid disclosing production of individual establishments.

CENSUS OF MANUFACTURES: 1929

TABLE 4.—FURNISHING GOODS, MEN'S—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSE-POWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
Prime movers and electric motors driven by purchased energy, aggregate.....	4,195	Horse-power 7,036	3,199	Horse-power 7,190	2,381	Horse-power 4,977	1,781	Horse-power 5,659	1,532	Horse-power 5,840	100.0	100.0
Prime movers, total.....	13	1,609	24	1,951	12	959	44	2,859	82	2,511	22.9	59.5
Steam engines.....	7	972	13	1,472	8	602	30	2,644	32	2,008	13.8	46.7
Internal-combustion engines.....	4	237	9	270	2	57	11	140	49	488	3.4	2.5
Water wheels and water turbines.....	2	400	2	200	2	300	3	75	1	15	5.7	1.3
Electric motors driven by purchased energy.....	4,182	5,427	3,175	5,239	2,369	4,018	1,737	2,800	1,450	3,329	77.1	40.5
Electric motors, total.....	4,330	5,759	3,400	5,892	2,396	4,125	2,076	4,042	1,565	4,247	100.0	100.0
Driven by purchased energy.....	4,182	5,427	3,175	5,239	2,369	4,018	1,737	2,800	1,450	3,329	94.2	69.3
Driven by energy generated in establishments reporting.....	157	332	225	653	27	107	339	1,242	115	918	5.8	30.7
Electric generators.....	11	Kilowatts 917 Kilowatt-hours	10	Kilowatts 817	3	Kilowatts 274	(1)	(1)	(1)	(1)		
Electric energy purchased <sup>2</sup> .....		12,375,760		(3)		(3)		(1)		(1)		

<sup>1</sup> Not called for on schedule.  
<sup>2</sup> This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.  
<sup>3</sup> Data incomplete.

TABLE 5.—FURNISHING GOODS, MEN'S—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, AND 1914, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
United States:														
1929.....	26,588	24,001	25,008	23,788	26,766	26,783	26,655	26,000	<i>24,445</i>	26,330	28,199	28,796	27,785	84.9
1925.....	21,094	<i>19,282</i>	19,992	20,593	20,554	20,753	20,035	20,379	19,958	21,452	22,656	23,429	23,430	82.3
1919.....	18,944	18,007	18,724	<i>17,656</i>	17,710	17,923	18,443	18,807	19,331	19,194	19,857	20,577	20,469	85.7
1914.....	22,459	22,179	22,407	22,929	22,447	21,965	21,871	21,752	<i>21,026</i>	22,614	23,439	23,321	22,899	92.3
Alabama.....	482	486	484	484	480	482	500	511	<i>445</i>	463	485	489	479	87.1
California.....	612	539	581	620	554	520	499	492	607	708	799	794	635	61.6
Connecticut.....	605	<i>569</i>	602	630	610	599	587	592	584	608	641	646	604	88.1
Georgia.....	80	78	79	72	72	82	83	91	<i>45</i>	88	83	89	100	43.0
Illinois.....	2,039	<i>1,629</i>	1,791	1,854	2,001	2,035	2,278	2,276	1,954	1,965	2,111	2,241	2,299	79.9
Indiana.....	1,778	1,862	1,889	1,896	1,925	1,864	1,681	1,648	1,603	<i>1,592</i>	1,724	1,796	1,852	82.7
Maryland.....	4,034	4,324	4,530	4,604	4,667	4,800	4,830	4,727	<i>4,179</i>	4,700	4,772	4,780	4,583	86.5
Massachusetts.....	1,321	<i>1,159</i>	1,325	1,400	1,375	1,341	1,291	1,214	1,162	1,322	1,446	1,526	1,395	74.0
Michigan.....	95	86	84	86	95	102	80	73	78	101	112	119	118	61.3
Missouri.....	1,065	<i>902</i>	958	1,106	1,106	1,062	984	905	963	1,104	1,255	1,297	1,151	69.5
New Jersey.....	1,447	1,368	<i>1,586</i>	1,433	1,468	1,446	1,404	1,409	1,401	1,446	1,530	1,555	1,495	89.1
New York.....	6,280	<i>5,840</i>	6,208	6,354	6,269	6,177	6,114	5,989	5,967	6,329	6,715	6,804	6,588	86.0
Ohio.....	865	<i>694</i>	751	806	813	893	898	850	799	863	1,013	1,050	978	66.1
Pennsylvania.....	3,239	3,060	3,188	3,254	3,293	3,321	3,321	3,229	<i>2,999</i>	3,072	3,384	3,396	3,385	87.2
Texas.....	60	<i>50</i>	44	47	50	48	45	47	55	91	80	96	78	37.5

## GLOVES AND MITTENS, CLOTH OR CLOTH AND LEATHER COMBINED, MADE FROM PURCHASED FABRICS

Description of the industry.—This industry embraces establishments whose principal products are men's and women's cloth and cloth-and-leather gloves and mittens made from purchased fabrics.

TABLE 1.—GLOVES AND MITTENS, CLOTH OR CLOTH AND LEATHER—SUMMARY FOR THE UNITED STATES: 1919 TO 1920

Data for establishments with products under \$5,000 in value included for 1919 but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel, and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>	Horsepower
1920.....	125	0, 270	\$5, 014, 275	\$10, 280, 234	\$20, 882, 058	\$10, 503, 724	3, 702
1927.....	131	10, 208	6, 060, 708	17, 302, 106	30, 202, 152	12, 809, 986	4, 112
1925.....	130	9, 061	5, 709, 401	17, 077, 323	29, 631, 710	11, 854, 303	4, 102
1923.....	120	8, 864	5, 295, 095	18, 292, 054	28, 125, 528	9, 835, 474	3, 143
1921.....	128	6, 758	3, 294, 070	10, 101, 470	15, 212, 800	5, 021, 423	(3)
1919.....	182	8, 086	4, 855, 240	10, 002, 402	28, 220, 113	12, 127, 051	3, 304
PER CENT OF INCREASE OR DECREASE (—)							
1927-1920.....	-4. 6	-0. 0	-11. 3	10. 0	-1. 1	-17. 3	-10. 0
1925-1927.....	-5. 8	13. 6	16. 8	-3. 3	2. 3	10. 9	0. 2
1923-1925.....	7. 8	2. 2	7. 8	-1. 7	5. 0	17. 5	30. 5
1921-1923.....	0. 8	53. 0	60. 8	79. 5	84. 9	65. 8	.....
1919-1921.....	-20. 7	-35. 9	-32. 2	-36. 7	-46. 1	-84. 0	.....
1919-1920.....	-31. 3	3. 3	21. 8	10. 0	5. 9	-12. 0	10. 0

<sup>1</sup> The figures for all census years refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products.

<sup>2</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

<sup>3</sup> Not called for on schedule.

<sup>4</sup> No comparable data available for years prior to 1919.

## CENSUS OF MANUFACTURES: 1929

TABLE 2.—GLOVES AND MITTENS, CLOTH OR CLOTH AND LEATHER—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Census year	Number of establishments	Salaried officers and employees <sup>1</sup>	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
					Total	Prime movers	Motors run by purchased energy			Total	Materials and containers	Fuel and purchased energy		
United States.....	1920	125	582	9,270	3,702	275	3,427	\$1,012,521	\$5,914,275	\$19,289,234	\$19,111,483	\$177,751	\$29,882,058	\$10,593,724
	1927	131	456	10,296	4,112	473	3,639	956,181	6,669,708	17,392,166	17,204,566	187,570	30,202,152	12,809,980
	1919	182	627	8,988	3,364	511	2,853	1,237,076	4,855,246	16,092,462	15,939,953	152,509	28,220,113	12,127,651
Individual States:														
Illinois.....	1920	10	64	1,330	453	245	208	125,579	863,033	2,726,650	2,700,967	25,683	4,673,786	1,947,136
	1927	12	53	1,710	451	155	200	133,102	1,086,594	2,903,983	2,874,785	29,198	4,986,101	2,082,178
	1919	14	68	708	254	80	174	103,101	365,924	1,278,581	1,205,570	13,011	2,413,310	1,134,720
Indiana.....	1920	23	132	2,584	991	-----	991	208,234	1,530,601	5,772,505	5,730,328	42,177	7,807,397	2,034,892
	1927	21	71	2,500	992	-----	992	145,040	1,480,680	3,769,941	3,734,450	35,482	6,772,472	3,002,531
	1919	24	100	1,520	650	30	620	270,217	764,022	3,674,326	3,648,380	25,946	5,860,311	2,185,935
Iowa.....	1920	8	25	333	184	-----	184	31,090	207,858	710,150	699,970	10,180	1,067,036	386,886
	1927	8	53	390	188	25	163	96,552	250,247	703,973	693,394	10,579	1,407,881	703,908
	1919	0	29	244	112	-----	112	32,312	97,937	525,778	521,116	4,662	757,257	231,479
Michigan.....	1920	4	12	177	96	-----	96	20,298	167,123	486,310	482,376	3,943	771,307	284,988
	1927	6	16	207	112	-----	112	35,336	158,048	400,174	396,080	4,094	610,325	216,151
	1919	9	14	132	107	21	86	27,124	68,604	399,503	397,569	1,934	532,652	133,149
New York.....	1920	20	30	536	189	-----	189	64,394	470,121	992,648	979,997	12,651	2,010,795	1,018,147
	1927	21	23	560	142	3	139	42,100	454,806	829,036	816,240	12,796	1,061,460	832,424
	1919	44	172	2,980	663	206	457	308,431	1,687,376	2,477,057	2,436,594	40,663	6,788,192	4,311,136
Ohio.....	1920	20	198	2,101	876	30	845	218,482	1,380,335	4,516,804	4,472,014	44,790	6,992,127	2,475,323
	1927	22	86	2,353	1,092	39	903	209,340	1,617,440	4,341,065	4,262,771	48,294	7,116,890	2,774,826
	1919	35	144	2,162	839	51	788	300,160	1,151,938	4,909,080	4,868,998	40,082	7,567,764	2,668,684
Pennsylvania.....	1920	6	18	186	142	-----	142	27,133	114,827	871,962	367,541	4,421	631,264	250,302
	1927	8	22	261	117	-----	117	36,699	147,807	460,970	465,179	5,791	738,203	277,233
	1919	19	44	438	305	105	200	95,100	269,822	689,957	673,631	7,326	1,080,348	390,301
Groups of States:														
Conn., 1 est.; Me., 1; Mass., 1; N. H., 1; Ky., 2 est.; N. C., 3; S. C., 1; Tenn., 2; Va., 1	1920	4	10	111	29	-----	29	18,787	71,592	134,682	131,009	3,013	262,483	127,501
Mo., 5 est.; Oreg., 1; Wash., 3; Wis., 4	1920	9	31	570	238	-----	238	68,677	301,741	1,128,393	1,119,951	8,352	1,072,080	543,788
Other States (Calif., 3; Kans., 1; Minn., 2; Nebr., 1; Okla., 1)	1920	8	24	463	218	-----	218	62,359	348,444	962,300	954,400	7,900	1,516,357	553,997
States not shown separately.....	1927	33	132	2,325	1,108	251	857	257,400	1,474,020	3,983,024	3,941,688	41,336	6,903,760	2,929,736
	1919	31	56	801	434	18	410	100,413	449,623	2,147,180	2,128,185	18,995	3,220,279	1,073,090

<sup>1</sup> Not including proprietors and firm members, as follows: For 1920, 63; 1927, 72; 1919, 133. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1920, 9,924; 1927, 10,824; 1919, 9,746.

<sup>2</sup> The figures for all census years refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products.

<sup>3</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

<sup>4</sup> California, 3 establishments; Colorado, 1; Connecticut, 1; Kansas, 1; Kentucky, 1; Maine, 1; Massachusetts, 1; Minnesota, 3; Missouri, 6; Nebraska, 1; New Hampshire, 1; North Carolina, 4; Oregon, 1; South Carolina, 1; Tennessee, 1; Virginia, 1; Washington, 3; Wisconsin, 2.

<sup>5</sup> California, 2 establishments; Connecticut, 1; Kansas, 1; Kentucky, 1; Maine, 2; Maryland, 2; Massachusetts, 2; Minnesota, 1; Missouri, 4; Nebraska, 1; New Hampshire, 1; New Jersey, 2; North Carolina, 4; Oregon, 1; Rhode Island, 1; South Carolina, 1; Tennessee, 1; Washington, 3.

# GLOVES AND MITTENS, CLOTH OR CLOTH AND LEATHER COMBINED 395

**TABLE 3.—GLOVES AND MITTENS, CLOTH OR CLOTH AND LEATHER—PRODUCTION, BY KIND, QUANTITY, AND VALUE, BY STATES: 1929 AND 1927**

[The figures refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products. For convenience, statistics showing the total production of leather, cloth, and knit gloves and mittens in all industries have been assembled in this table. Statistics are shown for each State for which figures can be given without disclosing data for individual establishments. Certain of the "Other States," however, reported larger quantities and values of the specified products than some of the States shown separately]

KIND	1929		1927	
	Dozen pairs	Value	Dozen pairs	Value
1. Leather glove and mitten industry, all products, total value.....		\$30,122,720		\$36,602,053
2. Gloves and mittens, total.....	3,545,119	38,410,514	2,954,124	35,720,872
3. Leather.....	2,970,037	36,491,328	2,743,542	34,751,304
4. Cloth and cloth and leather combined.....	502,766	1,817,934	200,376	848,230
5. Other.....	6,310	101,252	10,206	121,338
6. Other products (not normally belonging to the industry).....		596,092		837,092
7. Receipts for contract work.....		115,223		103,189
8. Cloth glove and mitten industry, all products, total value.....		20,882,958		30,202,152
9. Gloves and mittens, total.....	10,007,180	28,629,693	10,927,386	20,437,905
10. Cloth and cloth and leather combined.....	15,021,288	28,170,873	10,883,000	20,072,721
11. Leather.....	52,936	391,478	31,705	247,374
12. Other.....	32,002	67,342	12,021	117,000
13. Other products (not normally belonging to the industry).....		1,228,700		702,957
14. Receipts for contract work.....		24,505		1,200
15. Gloves and mittens made in the knit-goods industry.....	654,151	3,780,204	1,050,054	7,337,808
16. Gloves and mittens made as secondary products in other industries, total.....	104,008	520,231	140,522	384,032
17. Leather.....	11,240	110,000	26,222	211,387
18. Cloth.....	92,769	410,231	123,300	172,645
Gloves and mittens, all industries: Aggregate (sum of 2, 9, 15, and 16).....	20,310,464	71,346,042	21,031,086	72,880,707
All-woven fabric, total.....	10,308,087	14,200,205	10,194,661	14,103,348
Illinois.....	405,730	630,921	299,795	574,421
Indiana.....	2,838,303	3,857,249	1,955,770	3,058,525
Iowa.....	698,519	1,001,807	888,237	735,774
New York.....	507,900	893,088	406,977	700,417
Ohio.....	3,192,600	4,468,080	3,645,730	4,020,179
Other States.....	2,576,636	3,418,460	3,498,142	4,495,032
All-knit fabric, total.....	3,727,701	8,807,272	5,036,055	13,280,644
Gloves, total.....	3,470,067	8,171,812	(1)	(1)
Cotton, total.....	3,022,004	4,782,482	(1)	(1)
Warp-knit, total.....	2,972,650	4,700,333	(1)	(1)
Sueded.....	1,202,720	1,981,833	(1)	(1)
Other than sueded.....	1,769,930	2,727,500	(1)	(1)
Cone-knit.....	49,435	78,140	(1)	(1)
Woolen and worsted.....	117,068	618,081	(1)	(1)
Silk.....	322,651	2,721,442	(1)	(1)
Other.....	17,264	48,007	(1)	(1)
Mittens, total.....	248,604	725,400	(1)	(1)
Woolen and worsted.....	116,047	404,010	(1)	(1)
Wool and cotton.....	132,047	320,550	(1)	(1)
Combination of woven or knitted fabric and leather.....	3,105,110	11,027,705	3,026,684	9,908,502
All-leather, lined and unlined, total.....	3,040,222	30,092,800	2,801,460	35,210,065
California.....	69,578	986,307	60,206	940,865
Illinois.....	206,050	1,080,146	174,793	1,830,121
New York.....	1,648,026	24,501,525	1,506,220	23,100,712
Wisconsin.....	619,480	5,931,420	589,630	5,794,007
Other States.....	406,188	3,593,318	470,022	3,525,370
Other gloves and mittens.....	30,278	168,594	22,227	230,238

<sup>1</sup> No comparable data available.

## CENSUS OF MANUFACTURES: 1929

TABLE 4.—GLOVES AND MITTENS, CLOTH OR CLOTH AND LEATHER—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, AND 1919, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		PER CENT DISTRIBUTION OF RATED HORSEPOWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
Prime movers and electric motors driven by purchased energy, aggregate.....	1,132	Horse-power 3,702	1,164	Horse-power 4,112	1,025	Horse-power 4,102	757	Horse-power 3,364	100.0	100.0
Prime movers, total.....	4	275	12	473	15	507	24	511	7.4	15.2
Steam, total.....	3	245	6	380	9	475	10	387	6.6	11.5
Engines.....	3	245	6	380	9	475	9	207	6.6	7.9
Turbines.....							1	120		3.6
Internal-combustion engines.....	1	30	6	93	6	92	14	124	0.8	3.7
Electric motors driven by purchased energy.....	1,128	3,427	1,162	3,639	1,010	3,535	733	2,853	92.6	84.8
Electric motors, total.....	1,153	3,500	1,204	3,836	1,022	3,753	773	3,045	100.0	100.0
Driven by purchased energy.....	1,128	3,427	1,162	3,639	1,010	3,535	733	2,853	97.9	93.7
Driven by energy generated in establishments reporting.....	25	73	42	107	12	218	40	192	2.1	6.3
Electric generators.....	3	Kilowatts 130 Kilowatt-hours	5	Kilowatts 312	5	Kilowatts 265	(1)	(1)		
Electric energy purchased <sup>1</sup> .....		2,344,823		(2)		(2)		(1)		

<sup>1</sup> Not called for on schedule.

<sup>2</sup> This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.

<sup>3</sup> Data incomplete.

TABLE 5.—GLOVES AND MITTENS, CLOTH OR CLOTH AND LEATHER—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, AND 1919, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Percent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
United States:														
1929.....	9,270	8,401	8,500	8,704	8,788	8,950	9,114	9,147	9,397	9,776	10,070	10,234	10,148	82.1
1925.....	9,061	9,709	9,361	9,152	8,841	8,666	8,493	8,107	8,660	9,070	9,409	9,573	9,720	83.4
1919 <sup>1</sup> .....	8,986	11,069	10,118	9,053	7,947	7,605	7,896	8,250	8,545	8,518	8,880	9,099	10,846	68.7
Illinois.....	1,330	1,198	1,212	1,283	1,201	1,207	1,324	1,331	1,357	1,401	1,424	1,423	1,446	82.9
Indiana.....	2,584	2,444	2,480	2,491	2,483	2,486	2,552	2,502	2,548	2,664	2,741	2,794	2,824	86.5
Iowa.....	333	329	334	331	322	318	310	321	343	356	334	343	343	89.3
Michigan.....	177	178	181	185	192	179	166	179	173	181	182	179	157	78.6
New York.....	536	492	495	513	521	535	531	520	525	553	576	580	593	83.0
Ohio.....	2,191	1,975	1,966	2,032	2,022	2,048	2,099	2,125	2,195	2,291	2,445	2,554	2,541	77.0
Pennsylvania.....	186	202	205	207	200	200	137	131	137	202	203	205	201	63.3

<sup>1</sup> No comparable figures available for years prior to 1919.

## HANDKERCHIEFS

**Description of the industry.**—The principal products of establishments classified in this industry are handkerchiefs. At the censuses for 1925 and prior years manufacturers of women's handkerchiefs were assigned to the "Millinery and lace goods" industry and manu-

facturers of men's handkerchiefs were classified in the "Furnishing goods, men's, not elsewhere classified" industry. No comparable statistics for years prior to 1927 are, therefore, available for the handkerchief industry.

**TABLE 1.—HANDKERCHIEFS—GENERAL STATISTICS, BY STATES: 1929 AND 1927**

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups]

STATE	Census year	Number of establishments	Salaried officers and employees <sup>1</sup>	Wage earners (average for the year)	HORSE POWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	Paid for contract work	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
					Total	Prime movers	Motors run by purchased energy				Total	Materials and containers	Fuel and purchased energy		
United States.....	1929	105	451	0,014	2,409	1,035	1,374	\$1,172,291	\$4,035,901	\$1,940,587	\$10,342,735	\$10,220,104	\$116,631	\$20,553,777	\$13,211,012
	1927	115	584	0,050	2,065	1,558	1,107	1,330,522	5,264,147	1,706,719	18,205,237	18,051,540	153,691	31,588,220	13,382,083
Per cent of increase (+) or decrease (-).....	1927-1929	-8.7	-22.8	-9.7	-0.6	-33.6	+24.1	-12.5	-11.0	+10.2	-10.2	-10.1	-24.1	-0.4	-1.3
Individual States:															
New Jersey.....	1929	31	167	2,918	1,024	900	724	532,423	2,220,990	957,449	6,820,515	6,768,677	51,438	12,057,607	5,828,042
	1927	35	207	3,427	2,004	1,423	581	602,847	2,747,171	588,419	7,807,968	7,715,491	92,477	13,772,578	5,964,010
New York.....	1929	44	191	1,420	307	135	172	451,926	1,313,207	820,030	4,860,970	4,842,314	27,056	9,280,916	4,410,916
	1927	53	196	1,570	337	135	202	433,638	1,383,450	1,000,522	6,091,665	6,063,753	27,012	10,828,565	4,730,900
Pennsylvania.....	1929	7	22	513	120	.....	120	30,305	303,430	67,707	1,370,000	1,350,881	10,119	2,384,953	1,014,953
	1927	6	41	530	108	.....	108	77,924	427,289	185	1,203,030	1,180,705	14,225	2,049,573	845,643
Groups of States:															
Conn., 1 est.; Me., 1; Mass., 1; R. I., 4; Vt., 1.....	1929	8	16	314	88	.....	88	28,594	192,175	60,541	1,316,590	1,312,061	4,529	1,795,335	478,715
Ill., 1 est.; Ky., 1; Mo., 1; Va., 1; W. Va., 1.....	1929	5	25	481	146	.....	146	60,764	282,000	.....	1,078,932	1,070,863	8,069	1,858,105	770,533
Ga., 1 est.; N. C., 2; Tenn., 1.....	1929	4	14	285	110	.....	110	33,850	170,880	.....	734,605	730,549	4,056	1,214,111	470,506
Other States (Calif., 2 est.; Okla., 1; Tex., 2; Wash., 1.....	1929	6	16	74	5	.....	5	25,420	63,093	31,800	143,123	142,359	764	353,390	210,267
States not shown separately.....	1927	21	80	1,132	216	.....	216	105,113	706,228	171,593	3,101,074	3,082,507	19,077	4,937,564	1,835,830

<sup>1</sup> Not including proprietors and firm members, as follows: For 1929, 60; 1927, 71. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 6,525; 1927, 7,314.

<sup>2</sup> The figures for both census years refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products.

<sup>3</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

<sup>4</sup> No comparable data for years prior to 1927.

<sup>5</sup> California, 1 establishment; Connecticut, 1; Illinois, 2; Maine, 1; Missouri, 1; North Carolina, 2; Rhode Island, 6; Tennessee, 1; Texas, 2; Vermont, 1; Virginia, 1; Washington, 1; West Virginia, 1.

## CENSUS OF MANUFACTURES: 1929

TABLE 2.—HANDKERCHIEFS—PRODUCTION, BY KIND, QUANTITY, AND VALUE, BY STATES: 1929 AND 1927

[The figures refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products. Statistics are given for each State which can be shown separately without disclosing data for individual establishments. Certain of the "Other States," however, reported larger quantities and values than some of the States shown separately.]

KIND	1929		1927	
	Dozens	Value	Dozens	Value
1. Handkerchief industry, all products, total value.....		\$20,553,777		\$31,588,220
2. Handkerchiefs.....	39,400,163	27,407,068	39,605,208	29,697,141
3. Receipts for contract work.....		1,421,808		1,299,164
4. Products (not normally belonging to the industry).....		724,901		591,915
5. Handkerchiefs made as secondary products in other industries, value.....	575,733	1,141,141	1,274,376	1,653,410
Handkerchiefs, all industries: Aggregate (sum of 2 and 5).....	39,975,896	28,548,209	40,879,674	31,350,551
Men's handkerchiefs, total.....	21,024,221	14,685,731	19,708,351	15,767,333
New Jersey.....	6,441,452	5,319,097	6,802,508	5,483,034
New York.....	6,440,966	4,736,133	6,144,904	6,339,467
Pennsylvania.....	827,185	1,077,408	610,043	1,175,814
Other States (Calif., Ga., Ill., Me., Mass., Mo., N. C., R. I., Tex., Va., W. Va.).....	7,314,618	3,553,093	6,149,996	2,769,018
Women's handkerchiefs, total.....	18,951,675	13,862,478	21,171,323	15,583,218
New Jersey.....	6,927,587	5,778,005	8,820,136	6,931,727
New York.....	6,303,541	5,124,118	5,735,473	4,714,833
Other States (Calif., Conn., Ill., Ky., Me., Mass., Mo., N. C., Okla., Pa., R. I., Tenn., Tex., Va., Wash., W. Va.).....	5,720,547	2,960,355	6,615,664	3,936,658

TABLE 3.—HANDKERCHIEFS—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS, ELECTRIC MOTORS, AND GENERATORS, 1929 AND 1927; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		Per cent distribution of rated horse-power capacity, 1929	TYPE	1929		1927		Per cent distribution of rated horse-power capacity, 1929
	Number	Capacity	Number	Capacity			Number	Capacity	Number	Capacity	
Prime movers and electric motors driven by purchased energy, aggregate.....	600	Horse-power 2,400	526	Horse-power 2,665	100.0	Electric motors, total.....	761	Horse-power 1,606	633	Horse-power 1,687	100.0
Prime movers, steam engines and turbines, total.....	8	1,035	11	1,553	43.0	Driven by purchased energy.....	601	1,374	515	1,107	81.0
Engines.....	7	1,000	8	1,475	41.5	Driven by energy generated in establishments reporting.....	100	322	118	680	19.0
Turbines.....	1	35	3	83	1.5	Electric generators.....	5	Kilowatts 600 Kilowatt-hours	8	Kilowatts 800	
Electric motors driven by purchased energy.....	601	1,374	515	1,107	57.0	Electric energy purchased.....		1,782,026		(*)	

\* This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.

\* Data incomplete.

TABLE 4.—HANDKERCHIEFS—WAGE EARNERS, BY MONTHS, BY STATES: 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures.]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
United States: 1929 <sup>1</sup> .....	6,014	<b>5,748</b>	5,934	6,062	<b>6,212</b>	6,177	5,004	5,893	5,832	5,950	6,182	6,165	6,007	92.5
New Jersey.....	2,018	<b>2,760</b>	2,846	2,944	<b>3,082</b>	2,989	2,893	2,873	2,881	2,895	3,018	2,906	2,901	91.3
New York.....	1,429	<b>1,428</b>	1,478	1,482	<b>1,491</b>	1,487	1,438	1,375	1,327	1,401	1,410	1,419	1,405	89.0
Pennsylvania.....	513	<b>459</b>	487	502	<b>510</b>	529	539	519	501	487	532	558	529	82.6

<sup>1</sup> No comparable figures available for prior years.

# SHIRTS

Description of the industry.—Establishments classified in this industry are engaged primarily in the manufacture of men's, boys', and juniors' shirts (including work shirts), and boys' blouses. Some establishments in this industry perform contract work on ma-

terials furnished and owned by other manufacturers. Contract plants report receipts for this work as value of products, and for this reason the total value of products shown for the shirt industry includes some duplication.

**TABLE 1.—SHIRTS—SUMMARY FOR THE UNITED STATES: 1899 TO 1920**

[Data for establishments with products under \$5,000 in value included for 1910 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel, and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>	Horsepower
1920	863	59,830	\$43,428,224	\$116,678,496	\$228,321,610	\$111,643,120	17,040
1927	907	57,216	42,007,827	129,743,737	241,640,939	111,600,202	14,916
1925	840	49,864	35,673,731	129,753,752	225,062,022	96,200,170	13,884
1923	934	51,672	37,043,405	139,354,361	241,331,220	101,070,865	14,050
1921	860	45,427	33,182,332	123,250,180	203,044,370	80,085,196	(3)
1919	896	39,603	25,833,855	127,037,745	205,327,133	78,230,388	14,800
1914	792	51,672	19,100,697	50,064,974	95,815,013	45,150,039	17,117
1909	770	48,513	16,632,398	44,902,870	82,309,142	37,400,263	12,056
1904	641	36,400	11,233,302	25,639,462	59,971,105	25,331,703	8,238
1899	600	36,622	10,804,327	22,950,564	47,121,530	24,170,906	6,205
PER CENT OF INCREASE OR DECREASE (—)							
1927-1920	-4.0	4.6	1.0	-10.1	-5.5	-0.2	14.2
1925-1927	8.0	14.7	20.5	(*)	6.0	16.3	7.4
1923-1925	-10.1	-3.5	-6.0	-6.0	-6.4	-5.7	-1.2
1921-1923	8.6	13.7	14.3	13.1	18.3	20.4	-----
1919-1921	-4.0	14.7	28.4	-3.0	-0.7	3.1	-----
1916-1920	-3.7	51.1	88.1	-8.2	11.2	42.7	14.4
1909-1919	16.4	-18.4	55.3	182.5	149.2	109.2	17.7
1899-1909	11.6	32.5	52.7	96.0	74.9	54.8	162.0

<sup>1</sup> The figures for all census years refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products.

<sup>2</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

<sup>3</sup> Not called for on schedule.

<sup>4</sup> Less than one-tenth of 1 per cent.

**TABLE 2.—SHIRTS—GENERAL STATISTICS, BY STATES: 1920, 1927, AND 1919**

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Census year	Number of establishments	Salary of officers and employees <sup>1</sup>	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	Paid for contract work	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
					Total	Prime movers	Motors run by purchased energy				Total	Materials and containers	Fuel and purchased energy		
United States	1920	863	3,494	59,830	17,040	5,144	11,896	\$8,140,844	\$43,428,224	\$18,846,655	\$116,678,496	\$115,602,275	\$1,076,221	\$228,321,610	\$111,643,120
	1927	907	4,523	57,216	14,916	3,710	11,206	9,695,000	42,007,827	16,662,341	129,743,737	125,030,067	1,103,770	241,640,939	111,600,202
	1919	896	4,722	39,603	14,800	7,932	6,958	9,820,355	25,833,855	10,991,200	127,037,745	120,431,022	655,823	205,327,133	78,230,388
Individual States:															
California	1920	18	66	938	309	-----	399	142,035	800,491	-----	1,659,729	1,051,101	8,538	3,436,720	1,476,991
	1927	23	112	1,092	439	-----	439	242,598	1,050,980	5,000	2,230,053	2,214,074	10,879	4,198,501	1,907,548
	1919	18	63	630	135	-----	135	125,010	386,841	17,936	1,320,161	1,320,876	5,585	2,172,356	840,105
Connecticut	1920	19	125	2,393	502	200	302	352,675	2,071,584	406,490	3,626,830	3,580,093	46,746	7,796,523	4,100,684
	1927	19	127	1,823	614	375	239	250,024	1,392,598	150,008	3,007,074	2,971,085	30,589	5,727,904	2,720,320
	1919	10	58	582	371	341	30	127,404	408,474	118,117	2,070,132	2,050,894	13,208	3,262,180	1,222,048
Delaware	1920	7	10	432	49	-----	40	24,392	208,417	-----	200,463	254,724	5,739	507,324	336,861
	1927	8	15	343	67	18	40	19,683	168,210	-----	133,845	120,143	7,702	300,167	220,322
	1919	4	5	80	25	18	7	8,840	31,791	-----	60,045	60,071	2,074	125,553	50,508
Illinois	1920	22	64	1,118	224	-----	224	100,738	744,068	5,508	1,281,712	1,260,761	20,051	2,567,558	1,285,840
	1927	34	93	1,053	287	75	212	203,148	842,327	320,955	2,039,739	2,018,242	21,497	4,038,304	2,058,505
	1919	30	147	842	228	80	148	368,811	647,959	13,741	2,301,007	2,347,138	13,020	4,169,359	1,838,292
Indiana	1920	14	66	2,020	833	250	583	198,792	1,051,526	152,002	6,153,795	6,090,189	63,600	10,794,050	4,580,255
	1927	16	70	2,659	635	100	535	136,590	1,077,422	117,806	5,065,704	5,098,052	67,112	10,523,545	4,557,781
	1919	14	109	1,901	1,382	1,325	57	206,185	1,072,575	-----	6,363,434	6,333,637	30,397	8,006,333	2,542,899
Iowa	1920	5	13	130	50	-----	50	23,708	85,053	51,572	437,038	435,370	2,597	708,881	360,043
	1927	5	23	90	101	-----	101	40,142	60,462	84,146	570,740	567,048	2,792	926,390	355,050
	1919	4	23	73	10	-----	10	33,690	40,895	-----	48,400	47,438	1,058	141,338	92,842
Kansas	1920	3	12	55	9	-----	9	32,102	40,268	-----	73,340	72,140	1,200	236,236	162,896
	1927	4	17	94	14	-----	14	34,156	62,400	-----	140,850	139,375	1,475	364,275	223,425
	1919	4	24	118	24	-----	24	42,820	61,752	-----	106,640	105,451	1,189	886,530	180,890
Kentucky	1920	6	59	590	100	-----	100	124,960	344,757	305,065	2,223,984	2,208,790	15,195	3,585,477	1,361,493
	1927	6	41	436	65	-----	65	98,108	240,823	237,061	1,782,014	1,775,341	6,673	2,067,174	1,185,100

See footnotes at end of table.

## CENSUS OF MANUFACTURES: 1929

TABLE 2.—SHIRTS—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919—Continued

[See note at head of this table]

STATE	Census year	Number of establishments	Salaried officers and employees <sup>1</sup>	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	Paid for contract work	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
					Total	Prime movers	Motors run by purchased energy				Total	Materials and containers	Fuel and purchased energy		
Individual States—Con.															
Maine.....	1929	7	46	542	177	---	177	\$103,127	\$308,436	---	\$571,486	\$562,206	\$9,280	\$1,230,656	\$668,169
	1927	8	64	602	125	---	125	102,230	309,228	---	853,466	845,170	8,296	1,047,286	793,820
	1919	11	73	546	157	20	137	118,192	328,746	\$222	1,550,978	1,539,411	11,567	2,211,804	660,826
Maryland.....	1929	42	128	2,461	510	27	483	250,479	1,475,551	651,356	4,296,198	4,253,434	42,764	8,010,437	3,714,239
	1927	49	143	2,374	614	66	548	254,855	1,480,827	347,830	4,702,874	4,661,104	41,770	8,622,936	3,920,062
	1919	47	253	2,486	808	220	678	538,332	1,662,570	414,340	8,199,072	8,152,906	46,166	12,174,083	3,975,611
Massachusetts.....	1929	11	83	1,277	358	165	193	129,655	962,274	34,828	2,465,804	2,449,407	16,337	4,699,693	2,238,880
	1927	10	61	1,059	450	173	283	97,029	802,471	---	2,078,139	2,053,863	24,276	3,937,390	1,850,257
	1919	12	53	1,000	407	365	42	61,192	781,297	77,909	2,804,620	2,847,727	16,893	5,107,607	2,243,077
Michigan.....	1929	11	35	453	100	---	100	79,359	253,933	---	768,627	760,502	8,065	1,426,369	657,742
	1927	11	41	407	54	---	54	88,707	238,309	---	669,054	661,883	7,171	1,271,473	552,410
	1919	10	44	477	68	---	68	38,565	236,509	1,608	1,086,253	1,078,875	7,378	1,726,477	640,224
Minnesota.....	1929	6	14	57	19	---	19	20,883	46,330	---	94,518	93,636	882	262,763	108,245
	1927	5	13	51	12	---	12	31,406	48,011	---	81,311	80,687	624	235,376	154,065
	1919	9	80	263	101	75	26	146,028	181,961	---	625,346	621,373	3,970	1,180,332	551,983
Missouri.....	1929	27	178	3,587	1,102	510	592	413,841	2,289,743	571	5,755,040	5,701,763	53,277	9,528,618	3,773,578
	1927	24	220	3,550	1,190	657	535	419,440	2,490,008	---	6,124,394	6,061,617	62,777	10,471,444	4,374,076
	1919	19	332	2,715	1,220	880	349	796,844	1,839,763	8,447	7,264,812	7,226,120	38,692	11,701,712	4,439,900
Nebraska.....	1929	4	15	16	5	---	5	31,708	14,248	15,816	105,825	105,441	384	204,907	99,682
	1927	6	14	246	6	---	6	26,225	166,955	---	952,458	951,343	1,115	1,274,622	322,164
	1919	5	4	111	19	---	19	7,153	70,032	---	154,640	153,096	1,553	241,830	87,181
New Jersey.....	1929	51	107	4,693	614	207	617	535,074	3,882,884	1,792,150	10,321,822	10,240,136	82,686	21,510,955	11,170,133
	1927	52	373	4,815	860	200	570	1,158,919	4,182,070	1,274,909	9,632,428	9,459,065	73,363	21,151,380	11,718,952
	1919	46	273	2,884	671	410	261	427,768	1,870,884	650,448	8,177,080	8,134,860	42,220	12,249,537	4,072,461
New York.....	1929	290	1,060	15,072	6,037	3,344	2,693	2,632,532	12,831,588	11,440,901	39,468,039	39,152,952	315,087	70,993,611	40,525,572
	1927	315	1,533	13,500	4,318	1,035	3,283	3,521,273	12,718,800	11,268,277	49,266,688	48,998,408	268,280	91,887,722	42,621,034
	1919	334	1,800	12,136	4,014	1,667	2,347	4,030,322	9,568,566	8,882,301	60,305,712	60,189,865	205,847	97,851,812	37,456,100
North Carolina.....	1929	6	21	298	73	---	73	40,760	141,134	---	481,661	476,312	5,349	780,386	208,725
	1927	6	20	309	62	---	62	42,635	136,159	---	410,244	406,652	3,592	670,577	269,333
Ohio.....	1929	23	200	1,881	417	---	417	300,832	1,569,610	71,192	3,479,740	3,447,335	32,405	7,162,756	3,683,016
	1927	24	234	2,280	960	400	560	367,207	1,941,600	65,962	4,081,606	4,042,081	39,525	8,517,515	4,435,909
	1919	32	249	1,906	900	586	374	500,943	1,182,936	31,348	3,750,000	3,731,346	27,654	7,389,827	3,630,827
Oklahoma.....	1929	4	10	43	62	---	62	24,215	32,204	57,521	388,691	387,639	1,161	630,620	247,938
	1927	4	12	45	9	---	9	23,946	38,739	73,168	444,146	443,210	936	701,677	347,531
	1919	4	18	69	9	---	9	51,514	39,906	---	384,906	384,556	434	572,757	187,707
Oregon.....	1929	7	21	317	158	140	18	46,100	312,736	1,713	976,963	973,250	3,713	1,544,316	597,353
Pennsylvania.....	1929	211	767	16,478	3,590	30	3,590	1,864,214	10,072,293	2,554,288	23,576,788	23,308,903	267,885	47,593,671	24,016,883
	1927	207	972	15,899	3,060	392	2,068	1,062,800	10,162,204	1,514,509	26,026,312	25,693,001	333,311	47,290,587	21,291,275
	1919	216	754	8,932	3,366	1,625	1,741	1,543,128	4,401,063	564,322	14,597,113	14,446,086	150,427	24,774,554	10,177,441
Tennessee.....	1929	9	45	694	173	---	173	116,901	309,048	195,883	1,340,608	1,324,974	15,634	2,510,363	1,169,755
	1927	11	68	1,131	241	---	241	141,624	629,567	134,123	2,757,544	2,735,267	24,277	4,208,091	1,450,517
	1919	9	127	320	66	---	66	55,204	125,010	1,142	801,026	797,119	3,901	1,197,368	396,348
Texas.....	1929	7	10	214	75	50	25	15,900	147,827	---	331,587	327,688	3,909	623,176	291,589
	1927	9	25	199	38	---	38	36,880	119,435	---	173,663	170,466	3,197	428,016	254,356
Virginia.....	1929	7	17	480	78	---	78	22,270	242,501	---	550,504	544,643	5,861	903,267	352,753
	1927	10	20	787	128	---	128	42,444	390,944	---	640,610	629,212	11,404	1,106,304	555,688
	1919	5	4	127	62	---	62	4,708	37,858	---	61,722	59,580	2,142	151,238	89,516
Wisconsin.....	1929	8	61	389	250	131	116	125,644	399,892	---	775,056	763,530	12,120	1,632,696	857,034
	1927	7	50	405	192	131	61	125,164	399,386	---	939,361	928,218	11,143	1,857,948	898,588
	1919	6	80	457	298	175	123	203,245	352,346	---	1,867,273	1,857,700	9,573	2,879,920	1,012,647
Groups of States:															
Ala., 3 est.; Fla., 1; Ga., 0.....	1929	10	37	608	205	---	205	66,323	358,353	221,793	1,835,728	1,828,601	7,127	2,970,862	1,135,134
Ark., 1 est.; Colo., 2; Utah, 1.....	1929	4	8	220	42	---	42	12,286	104,837	---	322,267	319,702	2,559	620,544	198,277
D. C., 2 est.; S. C., 1; W. Va., 4.....	1929	7	32	325	65	---	65	74,140	180,118	140,622	1,112,918	1,108,052	4,866	1,770,434	657,516
Idaho, 1 est.; Wash., 4; Wyo., 1.....	1929	6	23	149	27	---	27	70,443	122,833	85,000	783,553	782,099	1,454	1,303,445	519,892
La., 2 est.; Miss., 5.....	1929	7	20	560	91	---	91	40,274	213,711	102,255	812,512	805,470	7,042	1,410,514	588,092
R. I., 2 est.; Vt., 2.....	1929	4	12	423	277	---	277	27,645	243,373	---	34,161	22,407	11,754	323,796	294,835
States not shown separately.....															
	1927	35	150	1,601	369	---	369	230,062	863,357	459,587	4,087,854	4,060,469	27,394	6,913,235	2,855,381
	1919	47	149	878	428	145	280	288,266	494,260	210,136	2,863,121	2,843,257	19,861	4,689,936	1,825,815

<sup>1</sup> Not including proprietors and firm members, as follows: For 1929, 530; 1927, 611; 1919, 949. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 63,854; 1927, 62,360; 1919, 45,274.

<sup>2</sup> The figures for all census years refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products.

<sup>3</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

<sup>4</sup> Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919 but not in the United States totals.

<sup>5</sup> Alabama, 2 establishments; Arkansas, 1; Colorado, 3; District of Columbia, 2; Florida, 1; Georgia, 6; Idaho, 1; Louisiana, 2; Mississippi, 4; Oregon, 2; Utah, 1; Vermont, 4; Washington, 3; West Virginia, 2; Wyoming, 1.

<sup>6</sup> District of Columbia, 1 establishment; Colorado, 3; Georgia, 6; Kentucky, 4; Louisiana, 5; New Hampshire, 1; North Carolina, 1; Oregon, 1; Rhode Island, 3; South Carolina, 1; Texas, 2; Utah, 2; Vermont, 9; Washington, 3; West Virginia, 4; Wyoming, 1.

# SHIRTS

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**TABLE 3.—SHIRTS—PRODUCTION, BY CLASS, QUANTITY, AND VALUE, BY STATES: 1929 AND 1927**

[The figures refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products. Statistics are presented for all States for which separate figures can be given without disclosing the output of individual establishments.]

CLASS AND STATE	1929		1927		CLASS AND STATE	1929		1927		
	Quantity	Value	Quantity	Value		Quantity	Value	Quantity	Value	
1. Shirt industry, all products, total value.....		\$228,321,616		\$241,649,939	Shirts, incl. neckbands—Contd.					
2. Shirts, including neckbands, etc., for sale as such.....		198,683,380		214,740,943	Shirts—Continued.					
3. Other products (not normally belonging to the industry).....		12,008,706		12,332,435	Men's shirts, etc.—Contd.					
4. Receipts for contract work.....		17,629,524		14,576,561	Collar-attached style—Con.					
5. Shirts made as secondary products in other industries, value.....		15,620,942		17,536,818	Ala., Ga., Ky., N. C., S. C., Tenn., W. Va.	Dozens	\$2,207,543	Dozens	(1)	
Shirts, including neckbands, etc., for sale as such, all industries:					Colo., Kans., La., Okla., Tex.	63,429	1,190,860	(1)	(1)	
Aggregate value (sum of 2 and 5).....		214,310,328		232,277,761	Oreg., Utah, Wash.	37,326	748,861	(1)	(1)	
Shirts, total value.....		212,717,800		230,385,270	Other States (Calif., D. C., Mo., Nebr., R. I., Wis.)	67,310	874,036	282,212	\$4,351,224	
Men's shirts (except work and flannel), total.....	Dozens	10,062,934	146,753,310	10,870,980	156,140,821	Men's work shirts, total.....	5,142,276	36,343,144	5,862,322	40,309,757
Neckband style, total.....	2,952,438	40,293,091	3,814,838	50,833,014	Maryland.....	416,703	2,435,743	721,466	3,563,047	
California.....	27,420	450,870	10,744	533,345	Missouri.....	170,837	1,310,751	295,878	2,603,282	
Connecticut.....	129,632	1,566,078	124,011	2,530,278	New York.....	327,880	2,156,472	554,497	3,336,902	
Illinois.....	17,627	960,061	31,592	923,791	North Carolina.....	96,415	570,397	54,977	401,956	
Indiana.....	38,266	664,368	47,543	970,503	Ohio.....	97,206	722,052	116,370	948,240	
Kansas.....	1,015	101,072	2,177	110,235	Pennsylvania.....	500,490	5,009,733	532,692	4,338,647	
Maryland.....	69,282	1,106,724	150,810	2,658,574	Tennessee.....	627,602	3,358,569	692,167	4,004,963	
Michigan.....	2,985	150,458	49,076	814,172	Ala., Fla., Ga., Miss.	495,306	3,045,081	(1)	(1)	
Minnesota.....	1,998	122,902	15,997	157,950	Ark., Okla., Tex.	186,937	1,576,428	(1)	(1)	
Missouri.....	26,100	507,054	122,906	1,475,521	Ill., Ind., Iowa, Ky., Mich., Wis.	1,083,448	11,737,351	(1)	(1)	
New Jersey.....	206,380	4,037,509	334,338	7,074,440	N. J., Va., W. Va.	207,212	1,811,760	(1)	(1)	
New York.....	1,148,647	16,975,471	1,621,127	26,124,295	Other States (Calif., Conn., Idaho, Mass., Oreg., Wash., Wyo.)	363,051	2,602,201	2,904,275	21,112,631	
Ohio.....	25,024	340,541	142,891	1,895,877	Men's flannel shirts, total.....	559,679	9,401,283	907,474	15,452,208	
Pennsylvania.....	750,072	9,151,959	1,007,180	12,340,598	California.....	19,149	435,496	25,444	724,270	
Texas.....	12,913	131,753	13,789	119,880	Missouri.....	21,348	632,078	36,836	754,937	
Ala., Ga., N. C., S. C.	124,073	1,281,812	(1)	(1)	New York.....	184,447	2,672,341	360,210	5,098,006	
Mo., Mass., R. I.	188,322	3,110,806	(1)	(1)	Pennsylvania.....	184,322	2,361,995	158,864	2,248,516	
Other States (Calif., D. C., Iowa, Ky., La., Nebr., Okla., Oreg., Tenn., Va., Wash., W. Va., Wis.)	82,986	913,994	121,757	2,133,507	D. C., Mo., Md., Mass., N. J., R. I.	32,302	589,596	(1)	(1)	
Collar-attached style, total.....	8,010,496	100,400,225	7,065,148	96,307,807	Oreg., Utah, Wash.	27,401	997,300	(1)	(1)	
California.....	153,097	2,802,517	120,622	2,200,164	Other States (Ill., Mich., Ohio, Okla., Tex., Wis.)	87,650	1,802,387	326,130	5,720,479	
Connecticut.....	308,500	3,619,283	97,348	1,549,319	Boys' shirts (except work and flannel), total.....	1,305,583	9,361,120	742,609	6,008,280	
Illinois.....	89,650	1,403,465	132,995	1,734,907	New York.....	682,221	4,051,063	277,239	2,246,385	
Indiana.....	281,703	3,513,093	200,993	3,323,631	Pennsylvania.....	120,094	1,272,073	120,460	1,305,587	
Iowa.....	17,247	273,449	12,431	241,678	Ill., Ind., Iowa, Mo., Ohio, Tenn.	409,351	3,339,834	(1)	(1)	
Maryland.....	308,190	4,469,194	247,252	3,146,165	Other States (Calif., Fla., Md., Mass., Nebr., Tex., Va., W. Va., Wis.)	84,917	698,210	335,910	3,056,308	
Massachusetts.....	97,210	1,507,637	181,626	2,827,692	Boys' flannel shirts.....	216,196	1,384,267	63,956	543,087	
Michigan.....	67,556	1,004,294	4,017	145,644	Boys' blouses, total.....	1,178,600	7,800,607	1,575,540	10,961,474	
Minnesota.....	11,360	203,270	(1)	(1)	New York.....	650,944	5,961,474	970,959	6,255,113	
Missouri.....	382,273	4,065,448	347,216	4,158,490	Pennsylvania.....	138,767	1,211,465	175,144	1,649,069	
New Jersey.....	703,698	12,606,828	523,847	8,919,012	Other States (Calif., Ill., Mass., Mo., Nebr., N. J., Ohio, W. Va.)	88,908	633,068	420,437	3,057,292	
New York.....	3,144,680	40,323,260	3,127,890	41,613,426	Juniors' shirts (ages 6 to 12).....	202,882	1,608,123	45,753	270,052	
Ohio.....	172,417	2,134,377	260,588	3,000,656	Neckbands, etc., for sale as such.....		1,592,468		1,892,482	
Pennsylvania.....	1,810,533	21,830,557	1,437,252	16,005,789						
Virginia.....	71,805	555,407	(1)	(1)						

1 Included in figure for "Other States" to avoid disclosing the output of individual establishments.

## CENSUS OF MANUFACTURES: 1929

TABLE 4.—SHIRTS—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSEPOWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
Prime movers and electric motors driven by purchased energy, aggregate.....	7,322	Horse-power 17,040	5,428	Horse-power 14,916	4,128	Horse-power 13,884	2,688	Horse-power 14,890	1,823	Horse-power 17,117	100.0	100.0
Prime movers, total.....	39	5,144	47	3,710	71	4,384	149	7,032	275	10,936	30.2	53.3
Steam, total.....	32	4,762	36	3,409	41	3,640	78	6,992	124	9,054	27.9	47.0
Engines.....	29	2,602	36	3,409	41	3,640	78	6,992	(1)	(1)	15.0	47.0
Turbines.....	3	2,100							(1)	(1)	12.3	
Internal-combustion engines.....	4	85	9	70	27	515	66	638	127	1,077	0.5	4.3
Water wheels and water turbines.....	3	297	2	225	3	229	5	302	24	855	1.7	2.0
Electric motors driven by purchased energy.....	7,283	11,890	5,381	11,200	4,067	9,500	2,530	6,958	1,548	6,131	69.8	46.7
Electric motors, total.....	8,179	15,244	5,867	12,548	4,400	10,577	3,111	9,491	2,128	8,670	100.0	100.0
Driven by purchased energy.....	7,283	11,890	5,381	11,200	4,067	9,500	2,530	6,958	1,548	6,131	78.0	73.3
Driven by energy generated in establishments reporting.....	896	3,348	486	1,642	362	1,077	572	2,533	580	2,548	22.0	26.7
Electric generators.....	27	Kilowatts 4,579 Kilowatt-hours 16,858,601	27	Kilowatts 2,021	23	Kilowatts 1,744	(1)	(2)	(1)	(2)		
Electric energy purchased <sup>1</sup> .....				(1)		(1)		(2)		(2)		

<sup>1</sup> Not called for separately on schedule.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.

<sup>4</sup> Data incomplete.

TABLE 5.—SHIRTS—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, AND 1914, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	*NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
United States:														
1929.....	59,830	<i>58,176</i>	59,346	59,794	60,067	59,554	58,845	58,027	59,233	60,481	61,306	61,463	60,926	94.7
1925.....	49,804	<i>46,444</i>	47,540	48,823	49,507	50,131	49,806	49,555	49,710	50,094	51,228	52,381	52,480	88.5
1919.....	39,603	<i>37,554</i>	37,748	36,986	36,966	37,418	37,773	37,558	38,895	40,736	42,002	44,736	45,970	80.4
1914.....	51,072	<i>56,006</i>	56,487	56,659	54,890	53,483	51,365	49,985	48,164	<i>47,754</i>	48,763	50,113	50,005	84.3
California.....	938	<i>709</i>	1,014	1,014	998	984	900	867	1,021	986	940	915	801	69.4
Connecticut.....	2,393	<i>2,299</i>	2,371	2,414	2,352	2,305	2,238	<i>2,231</i>	2,437	2,467	2,523	2,533	2,540	87.8
Delaware.....	432	<i>419</i>	422	419	430	421	435	439	<i>406</i>	434	451	459	460	88.5
Illinois.....	1,118	<i>928</i>	980	1,017	1,105	1,117	1,143	1,137	1,140	1,169	1,215	1,229	1,228	75.5
Indiana.....	2,926	<i>2,792</i>	2,852	2,870	2,864	2,904	2,925	2,896	2,991	3,005	3,033	2,994	2,991	92.1
Iowa.....	130	<i>108</i>	128	122	129	140	155	149	120	134	151	113	115	69.7
Kansas.....	55	<i>52</i>	55	55	61	60	58	<i>51</i>	54	52	54	53	54	83.6
Kentucky.....	596	<i>618</i>	628	615	581	573	<i>566</i>	585	580	501	607	605	600	90.4
Maine.....	542	<i>547</i>	549	540	543	529	545	557	536	<i>510</i>	541	562	534	91.8
Maryland.....	2,461	<i>2,405</i>	2,443	2,494	2,436	2,381	2,434	2,476	<i>2,515</i>	2,374	2,801	2,581	2,591	80.0
Massachusetts.....	1,277	<i>1,269</i>	1,302	1,285	1,257	1,232	<i>1,214</i>	1,221	1,218	1,353	1,346	1,348	1,305	89.7
Michigan.....	453	<i>387</i>	410	422	433	438	439	438	408	487	501	501	507	79.3
Minnesota.....	57	<i>56</i>	58	60	60	59	60	55	<i>53</i>	55	58	58	53	88.3
Missouri.....	3,587	<i>3,631</i>	3,632	3,555	3,530	3,472	<i>3,468</i>	3,546	3,592	3,615	3,637	3,643	3,713	93.4
Nebraska.....	16	<i>16</i>	16	16	16	16	16	16	16	16	16	16	16	
New Jersey.....	4,693	<i>4,592</i>	4,578	4,600	4,713	4,712	4,634	4,726	4,727	4,727	4,792	4,760	4,730	95.0
New York.....	15,072	<i>14,833</i>	15,107	15,332	15,428	15,097	14,639	<i>14,609</i>	14,674	15,230	15,411	15,526	14,967	94.1
North Carolina.....	298	<i>281</i>	273	291	283	315	317	269	<i>261</i>	290	314	343	333	76.1
Ohio.....	1,881	<i>1,833</i>	1,873	1,853	1,909	1,910	1,842	<i>1,756</i>	1,845	1,870	1,964	1,944	1,934	89.4
Oklahoma.....	43	<i>43</i>	43	43	43	43	43	43	43	43	43	43	43	
Oregon.....	317	<i>290</i>	301	296	297	300	349	357	348	341	325	316	281	78.7
Pennsylvania.....	16,478	<i>16,060</i>	16,292	16,327	16,450	16,290	16,196	16,120	16,375	16,633	16,873	16,951	17,093	94.0
Tennessee.....	684	<i>673</i>	688	686	684	685	685	688	682	680	684	685	683	98.5
Texas.....	214	<i>192</i>	203	215	211	202	208	211	215	224	227	236	228	81.4
Virginia.....	489	<i>401</i>	498	489	490	493	488	478	473	<i>469</i>	497	499	492	94.0
Wisconsin.....	389	<i>492</i>	499	507	501	487	447	422	409	396	217	155	148	28.0

# SUSPENDERS, GARTERS, AND OTHER ELASTIC WOVEN GOODS, MADE FROM PURCHASED WEBBING

Description of the industry.—The principal products of the establishments assigned to this industry are suspenders, garters, and other elastic goods, made from purchased webbing.

TABLE 1.—SUSPENDERS, GARTERS, ETC.—SUMMARY FOR THE UNITED STATES: 1923 TO 1929

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel, and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>	Horsepower
1929.....	91	4,341	\$3,971,030	\$17,905,748	\$30,473,169	\$12,567,421	1,180
1927.....	91	4,061	3,520,147	16,259,683	26,085,376	10,725,693	983
1925.....	93	3,835	3,072,302	16,499,915	27,504,028	11,004,113	876
1923 <sup>3</sup> .....	100	3,468	2,891,526	13,634,072	24,207,342	10,363,270	809
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929.....		6.0	12.5	10.1	12.9	17.2	20.0
1925-1927.....	( <sup>4</sup> )	5.0	11.0	-1.5	-1.9	-2.5	12.2
1923-1925.....	-7.0	10.9	6.3	18.4	13.2	0.2	8.3

<sup>1</sup> For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.  
<sup>2</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.  
<sup>3</sup> No comparable figures available for years prior to 1923.  
<sup>4</sup> Per cent not computed where base is less than 100.

TABLE 2.—SUSPENDERS, GARTERS, ETC.—GENERAL STATISTICS, BY STATES: 1929 AND 1927

This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments. Certain of the "Other States," however, reported larger values of products than some of the States shown separately.]

STATE	Census year	Number of establishments	Salaried officers and employes <sup>1</sup>	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
					Total	Prime movers	Motors run by purchased energy			Total	Materials and containers	Fuel and purchased energy		
United States.....	1929	91	539	4,341	1,180	21	1,159	\$1,430,206	\$3,971,030	\$17,905,748	\$17,820,000	\$85,748	\$30,473,169	\$12,567,421
	1927	91	706	4,061	983	71	912	2,207,076	3,520,147	16,259,683	16,179,675	80,108	26,085,376	10,725,693
Connecticut.....	1929	5	46	394	120	—	120	133,208	481,224	1,285,082	1,275,679	9,403	2,043,824	1,358,742
	1927	7	50	286	38	—	38	137,957	278,848	1,670,662	1,671,813	4,849	2,123,207	516,635
Massachusetts.....	1929	9	97	644	172	18	154	213,366	403,324	2,313,050	2,301,535	11,521	3,507,267	1,194,211
	1927	8	90	623	181	68	113	241,473	487,744	2,022,447	2,005,497	16,950	3,019,041	696,594
Minnesota.....	1929	4	4	19	0	—	0	4,847	14,488	30,767	30,231	536	78,957	48,190
	1927	4	5	26	12	—	12	7,084	19,137	69,475	68,793	772	118,810	49,341
New York.....	1929	41	118	1,105	239	—	239	401,413	1,133,218	5,067,615	5,043,881	23,734	7,942,300	2,874,685
	1927	42	133	1,045	213	—	213	348,483	1,084,983	4,484,277	4,462,483	21,794	6,980,608	2,496,331
Wisconsin.....	1929	4	2	5	4	—	4	7,000	5,045	23,622	23,340	276	40,024	26,302
	1927	5	1	12	5	—	5	1,300	9,240	61,712	61,278	434	100,625	38,913
Other States.....	<sup>4</sup> 1929	28	272	2,174	639	3	636	670,463	1,843,731	9,185,606	9,145,328	40,278	16,259,897	7,065,291
	<sup>5</sup> 1927	25	478	2,069	534	3	531	1,470,779	1,649,195	8,045,110	8,069,801	35,369	14,642,989	6,597,879

<sup>1</sup> Not including proprietors and firm members, as follows: For 1929, 75; 1927, 88. The total numbers of persons engaged—proprietors and firm members, salaried officers and employes, and wage earners—as reported for the industry, are as follows: For 1929, 4,955; 1927, 4,915.  
<sup>2</sup> The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for 1927 represent production. See GENERAL EXPLANATIONS—Value of Products.  
<sup>3</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.  
<sup>4</sup> California, 2 establishments; Colorado, 1; Illinois, 8; Iowa, 1; Kentucky, 2; Maryland, 1; Michigan, 1; Missouri, 4; North Carolina, 2; Ohio, 2; Pennsylvania, 4.  
<sup>5</sup> California, 2 establishments; Colorado, 1; Illinois, 8; Iowa, 1; Kentucky, 1; Michigan, 1; Missouri, 2; North Carolina, 1; Ohio, 3; Pennsylvania, 4; Washington, 1.

## CENSUS OF MANUFACTURES: 1929

TABLE 3.—SUSPENDERS, GARTERS, ETC.—PRODUCTION, BY CLASS, QUANTITY, AND VALUE, BY STATES: 1929 AND 1927

[The figures refer to sales (shipments or deliveries) by manufacturers. See GENERAL EXPLANATIONS—Value of Products. Figures are given for each State which can be shown separately without disclosing data for individual establishments. Certain of the "Other States," however, reported larger quantities and values of the specified classes of products than some of the States shown separately.]

CLASS AND STATE	1929		1927	
	Quantity	Value	Quantity	Value
1. "Suspenders, garters, and other elastic woven goods, made from purchased webbing" industry, all products, total value.....		\$30,473,169		\$26,985,376
2. Suspenders, garters, and other elastic woven goods.....		24,071,772		25,020,760
3. Other products (not normally belonging to the industry).....		5,286,735		1,788,299
4. Receipts for contract work.....		214,662		100,317
5. Suspenders, garters, and other elastic woven goods made as secondary products in other industries, value.....		1,550,146		1,848,640
Suspenders, garters, and other elastic woven goods, all industries: Aggregate value (sum of 2 and 5).....		26,530,918		26,869,400
Suspenders, total.....	<i>Dozens</i> 1,703,680	7,549,422	<i>Dozens</i> 1,350,476	6,204,305
New York.....	730,957	2,502,039	436,050	1,393,092
Wisconsin.....	12,720	53,624	13,838	65,378
Other States (for 1929: Calif., Colo., Conn., Ill., Iowa, Md., Mass., Mich., Minn., Mo., N. C., Ohio, Pa.).....	1,040,004	4,002,959	800,088	3,834,935
Garters and hose supporters: Men's, total.....	4,234,407	8,154,490	3,550,687	8,003,244
Connecticut.....	984,537	1,218,050	(1)	(1)
New York.....	1,357,725	1,525,973	1,255,133	1,086,856
Other States (for 1929: Calif., Ill., Mass., Mich., Mo., N. C., Ohio, Pa.).....	1,892,235	5,410,461	2,295,554	6,016,388
Women's, total.....	6,358,370	6,556,436	5,500,557	8,049,605
Connecticut.....	1,028,042	1,076,348	1,210,126	1,790,104
Massachusetts.....	2,313,510	1,658,047	2,002,702	1,408,809
New York.....	2,056,716	2,490,825	1,717,464	2,710,957
Other States (for 1929: Calif., Ill., Minn., Mo., N. C., Pa.).....	959,502	1,331,216	570,205	2,040,645
Arm bands, total.....	415,927	377,556	533,605	516,136
New York.....	93,503	64,411	96,160	91,984
Other States (for 1929: Calif., Conn., Ill., Mass., N. C., Ohio, Pa.).....	322,334	313,145	437,445	424,152
Other elastic woven goods made from purchased webbing, total.....		3,803,014		5,006,110
Connecticut.....		202,248		(1)
New York.....		617,682		613,820
Other States (for 1929: Calif., Ill., Ky., Mass., Minn., Mo.).....		2,983,084		4,392,281

<sup>1</sup> Included in item for "Other States" to avoid disclosing output of individual establishments.

TABLE 4.—SUSPENDERS, GARTERS, ETC.—PRIME MOVERS, MOTORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		Per cent distribution of rated horse-power capacity, 1929
	Number	Capacity	Number	Capacity	Number	Capacity	
Prime movers and electric motors driven by purchased energy, aggregate.....	1,622	<i>Horse-power</i> 1,180	718	<i>Horse-power</i> 983	620	<i>Horse-power</i> 876	100.0
Prime movers, total.....	2	21	3	71	2	78	1.8
Steam engines.....	1	18	1	18	1	18	1.5
Internal-combustion engines.....	1	3	1	3			0.3
Water wheels and water turbines.....			1	50	1	60	
Electric motors driven by purchased energy.....	1,620	1,159	715	912	618	798	98.2
Electric energy purchased <sup>1</sup> .....		<i>Kilowatt-hours</i> 1,417,539		(?)		(?)	

<sup>1</sup> This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.

<sup>2</sup> Data incomplete.

SUSPENDERS, GARTERS, AND OTHER ELASTIC WOVEN GOODS 405

TABLE 5.—SUSPENDERS, GARTERS, ETC.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929 AND 1925, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum	
		January	February	March	April	May	June	July	August	September	October	November	December		
United States:															
1929	4,341	<i>3,041</i>	4,170	4,331	4,301	4,283	4,107	4,347	4,430	4,031	4,700	4,054	4,082	82.6	
1925	3,835	<i>3,457</i>	3,672	3,784	3,691	3,690	3,740	3,818	3,849	4,047	4,133	4,251	3,902	80.9	
Connecticut	394	280	394	391	396	391	393	390	398	391	390	403	<i>385</i>	95.5	
Massachusetts	644	<i>648</i>	568	696	631	637	651	634	657	726	712	672	606	74.7	
Minnesota	19	21	21	20	21	21	15	15	14	15	16	25	23	56.0	
New York	1,105	932	1,017	1,056	1,046	1,044	917	1,157	1,198	1,274	1,302	1,253	1,060	70.4	
Wisconsin	5	5	5	5	5	5	5	5	5	5	5	5	5		

## THE WOOL-MANUFACTURES GROUP

**Relationship of the industries.**—The wool-manufactures group of five industries embraces establishments engaged primarily in the manufacture of (1) woollen goods, (2) worsted goods, (3) wool carpets and rugs, other than rag, (4) wool, hair, and jute-felt goods, and (5) wool-felt hats. The reports for three other industries, namely, wool shoddy, wool pulling, and wool scouring, which represent processes in the manufacture of wool materials, rather than the production of finished goods, are presented in connection with those for the wool-manufactures group. Some of the products reported by establishments classified in the wool-manufactures group are not strictly all wool. For example: In the manufacture of many of the wool carpets and rugs it is necessary to use stronger yarns than wool, such as jute, linen, or cotton, for the ground or

foundation weave. Other fibers mixed with wool are found to some extent in many different types of fabrics besides carpets and rugs. Fabrics made wholly or in part from such animal hair as alpaca, vicuna, and mohair, and the hair of camels and cattle, are also included with wool manufactures.

**Machinery in use.**—Statistics on machinery in use or available for use and on the total production of yarns and recovered wool fiber are shown for the wool-manufactures group as a whole, and detailed production figures are given in combination for the woollen-goods and worsted-goods industries (see "Detailed statistics of products," p. 412), but the other classes of statistics are presented separately for each industry of the group.

**TABLE 1.—MACHINERY, ACTIVE AND IDLE, BY KIND AND NUMBER, FOR THE WOOL-MANUFACTURES GROUP, FOR THE UNITED STATES: 1929, 1927, 1925, 1919, 1914, AND 1909**

[No data on machinery were called for on the schedules for 1923 and 1921. The term "Active" refers to machinery which was in use at any time within the census year]

KIND	NUMBER									
	1929			1927			1925	1919	1914	1909
	Total	Active	Idle	Total	Active	Idle	Active and idle <sup>1</sup>	Active	Active	Active
Woolen cards (sets) <sup>2</sup> .....	5,403	5,100	243	5,780	5,525	255	6,140	5,835	5,382	5,555
Wool-combing machines.....	2,661	2,441	220	2,838	2,578	260	2,733	2,294	2,425	2,120
Spindles <sup>3</sup> .....	5,652,740	5,272,040	380,700	5,070,750	5,003,768	372,982	6,126,029	5,242,613	5,006,286	4,570,089
Looms (power and hand) <sup>4</sup> .....	69,770	58,818	10,952	70,335	65,737	10,598	80,670	77,338	76,789	73,268
Pickers.....	1,093	1,055	38	1,039	1,001	38	1,125	1,223	1,392	1,565
Garnett machines.....	204	259	5	183	169	14	206	211	221	251
Gill boxes.....	4,989	4,613	376	4,696	4,178	518	(5)	(5)	(5)	(5)

<sup>1</sup> Active and idle machinery not separately reported.

<sup>2</sup> Includes shoddy cards.

<sup>3</sup> Woolen, worsted, shoddy, and cotton spindles.

<sup>4</sup> Exclusive of carpet and rug looms.

<sup>5</sup> Not called for on schedule.

**TABLE 2.—WOOLEN CARDS (INCLUDING SHODDY CARDS) USED IN WOOL MANUFACTURES—NUMBER OF SETS, BY WIDTH, FOR THE UNITED STATES, 1929, 1927, 1925, 1919, 1914, AND 1909, AND BY STATES, 1929**

[No data on machinery were called for on the schedules for 1923 and 1921. All figures except those for 1925 refer to cards which were in use at some time within the census years]

STATE	NUMBER OF SETS					STATE	NUMBER OF SETS						
	Total	Under 40 inches <sup>1</sup>	40 inches <sup>1</sup>	48 inches	60 inches <sup>2</sup>		Over 60 inches	Total	Under 40 inches	40 inches <sup>1</sup>	48 inches	60 inches <sup>2</sup>	Over 60 inches
<b>United States:</b>						<i>States: 1929—Continued</i>							
1929.....	5,160	96	311	2,581	2,011	161	Michigan.....	56			40	16	
1927.....	5,525	126	517	2,820	1,881	181	Minnesota.....	47	2	1	22	2	
1925 <sup>3</sup> .....	6,140	129	570	3,062	2,206	173	Missouri.....	8			6	2	
1919.....	5,835	132	765	3,241	1,598	108	New Hampshire.....	316		35	242	30	
1914.....	5,382	113	820	2,306	1,272	811	New Jersey.....	186		15	38	83	50
1909.....	5,555	146	819	2,624	1,328	688	New York.....	636	14	12	409	188	13
<i>States: 1929</i>							North Carolina.....	51		1	4	46	
California.....	21			2	16	3	Ohio.....	79	1		15	61	2
Connecticut.....	469	2	34	278	143	12	Oregon.....	43		1	23	10	
Georgia.....	55		1	19	35		Pennsylvania.....	565	30		107	413	5
Illinois.....	67			21	40		Rhode Island.....	241		15	127	84	15
Indiana.....	46			43	3		Tennessee.....	74			21	53	
Iowa.....	15			15			Utah.....	7			7		
Kentucky.....	23		1	1	21		Vermont.....	143			94	48	1
Maine.....	512		33	323	156		Virginia.....	39		1	8	18	12
Maryland.....	25			14	11		Washington.....	8			6	2	
Massachusetts.....	1,315	39	162	646	430	48	West Virginia.....	35	4		5	26	
							Wisconsin.....	88	4	9	45	30	

<sup>1</sup> Includes data for cards between 40 and 48 inches in width, as follows: For 1929, 78 sets; for 1927, 112; for 1925, 49; for 1919, 85; for 1914, 104; for 1909, 117.

<sup>2</sup> Includes data for cards between 48 and 60 inches in width, as follows: For 1929, 64 sets; for 1927, 50; for 1925, 50; for 1919, 19; for 1914, 2; for 1909, 8.

<sup>3</sup> The figures for 1925 cover both active and idle cards and therefore are not strictly comparable with those for other years. See headnote.

<sup>4</sup> Includes data for cards not distributed by width, as follows: For 1914, 742 sets; for 1909, 456 sets.

THE WOOL-MANUFACTURES GROUP

TABLE 3.—MACHINERY, ACTIVE AND IDLE, BY KIND AND NUMBER, FOR THE WOOL-MANUFACTURES GROUP, BY INDUSTRIES, FOR THE UNITED STATES: 1929

KIND	WOOL MANUFACTURES, TOTAL						WOOLEN GOODS					
	1929			1927			1929			1927		
	Total	Active	Idle	Total	Active	Idle	Total	Active	Idle	Total	Active	Idle
Cards, number, total.....	8,147	7,705	442	8,563	8,185	378	4,177	3,934	243	4,351	4,175	1,176
Woolen <sup>2</sup> (number of sets).....	5,403	5,160	243	5,750	5,525	225	3,053	2,765	168	4,157	3,983	1,174
Worsted.....	2,221	2,089	132	2,344	2,221	123	149	149	0	170	168	2
Cotton.....	523	526	0	493	439	54	159	82	77	124	124	0
Producing spindles, total.....	4,622,732	4,348,956	343,776	5,016,848	4,697,945	318,903	1,768,553	1,620,891	107,662	1,909,022	1,835,335	73,687
Woolen <sup>2</sup> .....	2,033,791	1,912,237	91,554	2,093,952	2,002,287	91,665	1,644,461	1,567,635	76,826	1,716,042	1,643,631	72,411
Worsted.....	2,545,001	2,309,343	235,658	2,798,200	2,576,434	221,766	88,032	73,960	14,072	172,042	170,756	1,286
Cotton.....	143,940	127,376	16,564	124,696	119,224	5,472	35,560	19,296	16,264	20,948	20,948	0
Mule, total.....	2,778,513	2,627,779	150,734	2,908,626	2,755,059	153,567	1,643,792	1,555,488	88,302	1,709,954	1,640,107	69,857
Woolen <sup>2</sup> .....	1,944,722	1,832,360	91,362	2,056,610	1,967,009	89,601	1,607,002	1,530,176	76,826	1,696,584	1,626,727	69,857
Worsted.....	505,826	477,943	27,883	545,552	520,128	25,424	20,100	20,100	0	5,916	5,916	0
Cotton.....	27,983	16,476	11,476	1,464	4,462	0	16,688	5,212	11,476	7,464	7,464	0
Frame, total.....	1,914,219	1,721,177	193,042	2,107,222	1,942,556	164,666	124,553	105,403	19,160	199,058	195,238	3,840
Woolen <sup>2</sup> .....	99,069	88,577	10,492	97,342	87,888	9,454	37,459	37,459	0	19,458	16,904	2,554
Worsted.....	1,739,162	1,551,400	187,762	1,992,648	1,796,908	195,740	67,832	63,860	14,072	166,126	164,840	1,286
Cotton.....	115,988	110,900	5,088	1,117,232	1,111,768	5,464	19,172	14,084	5,088	13,484	13,484	0
Doubling and twisting spindles, total.....	960,017	923,084	36,933	959,902	905,829	54,073	116,173	107,850	8,323	165,046	99,653	5,393
Woolen.....	63,353	59,940	3,413	65,252	60,967	4,285	76,006	73,600	2,406	76,006	73,493	2,513
Worsted.....	821,368	787,873	33,495	859,446	809,632	49,814	39,370	33,590	5,980	28,440	25,560	2,880
Cotton.....	45,296	45,271	25	5,204	5,224	0	100	100	0	600	600	0
Power looms:												
Looms, except carpet and rug, total.....	69,554	58,631	10,923	76,183	65,595	10,588	28,667	25,761	2,906	28,682	27,245	1,437
Broad (64 inches and over, reed space), total.....	53,414	46,403	7,011	54,459	49,091	5,368	23,158	20,989	2,240	22,614	21,443	1,171
Automatic.....	21,085	17,659	3,426	18,069	15,519	2,550	6,230	6,230	0	4,423	4,423	0
Other than automatic.....	32,329	28,818	3,511	36,360	32,572	3,788	15,838	14,709	1,129	18,006	17,020	986
Medium (60 inches and over but under 64 inches), total.....	3,511	2,415	1,096	9,752	6,806	2,946	1,072	797	275	673	658	15
Automatic.....	491	336	155	6,156	4,508	1,648	351	199	152	76	67	9
Other than automatic.....	3,020	2,079	941	3,596	2,298	1,297	721	598	123	587	591	6
Narrow (under 50 inches), total.....	12,629	9,813	2,816	11,942	9,701	2,241	4,407	4,025	382	5,365	5,144	251
Automatic.....	6,854	5,162	1,692	4,459	3,623	836	713	711	2	650	650	0
Other than automatic.....	5,775	4,651	1,124	7,483	6,078	1,405	3,694	3,314	380	4,715	4,494	251
Carpet and rug looms, total.....	10,267	8,078	2,189	9,980	8,069	1,911						
Carpet looms.....	4,256	3,294	962	3,293	2,725	568						
Rug looms.....	6,011	4,784	1,227	6,687	5,344	1,343						
Hand looms.....	216	187	29	182	139	43	134	120	14	116	113	3
Wool-combing machines, total.....	2,661	2,441	220	2,888	2,678	260	81	73	8	78	75	3
American manufacture, total.....	986	843	143	753	688	65	28	20	8	7	7	0
English (or Bradford).....	964	821	143	702	664	62	25	20	5	7	7	0
Other.....	22	22	0	51	48	3						
Foreign manufacture, total.....	1,675	1,598	77	2,085	1,890	195	53	53	0	71	68	3
English (or Bradford).....	948	915	33	1,349	1,246	103	24	29	47	47	44	3
French.....	727	683	44	736	644	92	24	24	24	24	24	0
GH boxes, total.....	4,989	4,613	376	4,696	4,178	518	199	169	30	207	192	15
American.....	1,443	1,310	133	1,114	1,022	62	35	33	2	34	34	0
Foreign.....	3,546	3,303	243	3,582	3,156	426	164	136	28	173	158	15
Brading machines.....	153	153	0	106	92	14	18	18	0	13	12	1
Pickers.....	1,093	1,055	38	1,099	1,091	8	730	698	32	725	694	31
Garnett machines.....	294	259	35	183	169	14	99	96	3	68	61	7

See footnotes at end of table.

TABLE 3.—MACHINERY, ACTIVE AND IDLE, BY KIND AND NUMBER, FOR THE WOOL-MANUFACTURES GROUP, BY INDUSTRIES, FOR THE UNITED STATES: 1929—Continued

KIND	WORSTED GOODS						CARPETS AND RUGS						FELT GOODS AND WOOL-FELT HATS					
	1929			1927			1929			1927			1929			1927		
	Total	Active	Idle	Total	Active	Idle	Total	Active	Idle	Total	Active	Idle	Total	Active	Idle	Total	Active	Idle
Cards, number, total.....	2,635	2,545	90	2,763	2,685	128	820	778	42	597	862	45	615	448	67	562	523	29
Woolen <sup>2</sup> (number of sets).....	231	230	2	372	351	21	605	599	6	700	669	31	514	447	67	551	522	29
Worsted.....	2,048	1,960	88	2,146	2,039	107	98	62	36	127	113	14	1	1	1	1	1	1
Cotton.....	286	286		245	245		117	117		70	70							
Producing spindles, total.....	2,649,179	2,447,989	201,190	2,837,445	2,615,665	221,780	224,583	189,939	34,644	219,818	198,002	21,816	50,617	50,137	480	50,563	48,943	1,610
Woolen <sup>3</sup> .....	168,558	167,958	620	168,839	188,739	5,100	140,155	126,527	13,628	133,518	120,974	12,544	30,617	30,137	480	30,563	28,943	1,610
Worsted.....	2,324,413	2,133,843	200,570	2,550,466	2,330,258	211,208	62,556	41,540	21,016	75,692	66,220	9,272	10,608	10,608		10,608		
Cotton.....	86,208	86,208		93,140	87,668	5,472	21,872	21,872		10,608	10,608							
Mule, total.....	936,685	888,169	48,516	1,018,075	947,549	70,526	150,445	137,009	13,436	133,014	120,470	12,544	47,593	47,113	460	48,573	46,963	1,610
Woolen <sup>3</sup> .....	152,946	152,326	620	178,439	173,339	5,100	137,181	123,745	13,436	133,014	120,470	12,544	47,593	47,113	460	48,573	46,963	1,610
Worsted.....	783,739	735,843	47,896	839,636	774,210	65,426	2,000	2,000		183,014	183,014							
Cotton.....							11,264	11,264										
Frame, total.....	1,712,494	1,559,920	152,574	1,819,370	1,668,116	151,254	74,138	62,980	21,208	86,804	77,532	9,272	3,024	3,024		1,980	1,980	
Woolen <sup>3</sup> .....	15,612	15,612		15,400	15,400		2,974	2,782	192	504	504							
Worsted.....	1,610,674	1,488,000	122,674	1,710,830	1,565,948	144,882	60,556	39,540	21,016	75,692	66,420	9,272	3,024	3,024		1,980	1,980	
Cotton.....	86,208	86,208		93,140	87,668	5,472	10,608	10,608		10,608	10,608							
Doubling and twisting spindles, total.....	774,194	765,910	18,284	811,888	767,972	43,886	68,686	58,340	10,326	42,276	37,456	4,820	984	984		742	742	
Woolen.....	3,480	3,480		4,556	4,556		1,020	1,020		12,916	12,916							
Worsted.....	762,616	744,332	18,284	806,282	763,436	42,846	19,182	9,956	9,226	24,724	20,636	4,088	984	984		742	742	
Cotton.....	8,088	8,088					36,568	36,568		4,624	4,624							
Power looms:.....	40,077	32,103	7,974	46,276	37,440	8,836	91	69	22	433	146	287	719	698	21	792	767	25
Looms, except carpet and rug, total.....	29,473	24,745	4,728	31,048	26,880	4,168	69	47	22	69	64	5	684	672	12	738	704	24
Broad (64 inches and over, reed space), total.....	13,334	11,180	2,154	13,229	11,659	1,570	69	47	22	69	64	5	132	128	4	183	173	20
Automatic.....	15,939	13,565	2,374	17,519	15,021	2,498							592	544	8	595	531	4
Other than automatic.....	2,399	1,585	814	8,800	6,019	2,781	22	22		262	82	180	18	11	7	47	47	
Medium (50 inches and over but under 64 inches), total.....	118	115	3	6,060	3,841	2,219	22	22		12	12							
Automatic.....	2,281	1,470	811	2,740	2,178	562				250	70	180	18	11	7	38	38	
Other than automatic.....	8,205	5,773	2,432	6,428	4,541	1,887												
Narrow (under 50 inches), total.....	6,139	4,449	1,690	3,806	2,971	835												
Automatic.....	2,066	1,324	742	2,622	1,971	651												
Other than automatic.....																		
Carpet and rug looms, total <sup>1</sup> .....							10,267	8,078	2,189	9,980	8,009	1,971						
Carpet looms.....							4,256	3,364	862	3,203	2,725	478						
Rug looms.....							6,011	4,684	1,327	6,777	5,284	1,493						
Hand looms.....	64	49	15	36	26	10	16	16					2	2				
Wool-combing machines, total.....	2,499	2,321	178	2,674	2,430	244	81	47	34	86	73	13						
American manufacture, total.....	907	804	103	700	646	54	51	19	32	46	35	11						
English (or Bradford).....	885	782	103	649	598	51	51	19	32	46	35	11						
Other.....	22	22		51	48	3												
Foreign manufacture, total.....	1,592	1,517	75	1,974	1,784	190	30	28	2	40	38	2						
English (or Bradford).....	889	838	31	1,262	1,164	98	30	26	2	40	38	2						
French.....	703	689	44	712	620	92												
Gill boxes, total.....	4,675	4,368	317	4,837	4,567	470	115	86	29	152	119	33						
American.....	1,369	1,244	125	1,034	972	62	39	33	6	46	46							
Foreign.....	3,306	3,114	192	3,803	3,595	408	76	53	28	106	73	33						
Beading machines.....	65	65		30	30		12	12		62	62							
Pickers.....	154	150	4	123	118	5	88	87	1	79	78		121	120	1	112	111	2
Garnett machines.....	25	25		26	24	2	31	31		38	34	4	109	107	2	51	50	1

<sup>1</sup> Sets of cards. <sup>2</sup> Includes shoddy cards. <sup>3</sup> Includes shoddy spindles. <sup>4</sup> For distribution by kind of looms see Tables 5 and 6 of report for "Carpets and rugs, wool, other than rag", p. 422.

# THE WOOL-MANUFACTURES GROUP

**TABLE 4.—MACHINERY, ACTIVE AND IDLE, BY KIND AND NUMBER, FOR THE WOOL-MANUFACTURES GROUP, BY STATES: 1929**

KIND	United States	California	Connecticut	Georgia	Illinois	Indiana	Iowa	Kentucky	Maine	Maryland	Massachusetts	Michigan	Minnesota	Missouri	New Hampshire	New Jersey
<b>ACTIVE AT ANY TIME WITHIN THE CENSUS YEAR</b>																
Cards, total number.....	7,705	22	476	78	71	40	15	38	504	25	2,410	50	47	8	400	383
Woolen <sup>1</sup> (number of sets).....	5,160	21	469	55	67	46	15	23	512	25	1,315	50	47	8	310	186
Worsted.....	2,089		6		4			15	26		885				84	107
Cotton.....	456	1		23					50		210					
Producing spindles, total.....	4,348,956	11,280	195,727	28,686	14,280	22,468	5,400	20,564	310,588	10,418	1,461,140	23,474	14,306	2,880	203,928	231,152
Woolen <sup>2</sup> .....	1,912,237	7,080	186,327	23,180	10,689	22,468	5,400	15,234	100,182	10,418	486,823	23,474	14,306	2,880	119,930	75,217
Worsted.....	2,300,343	3,000	9,400	288	3,600			14,360	111,024		882,063				83,992	155,935
Cotton.....	127,376			5,212					0,332		81,360					
Mule spindles, total.....	2,027,770	6,400	186,191	23,358	9,921	22,318	5,400	15,234	188,800	9,018	769,805	20,504	13,532	2,880	128,020	166,266
Woolen <sup>2</sup> .....	1,853,300	6,400	186,191	18,140	9,921	22,318	5,400	15,234	188,800	9,018	474,029	20,504	13,532	2,880	117,334	74,433
Worsted.....	767,043			5,212							295,836				10,592	91,833
Cotton.....	10,470															
Frame spindles, total.....	1,721,177	4,880	9,536	5,328	4,368	150		14,360	121,048	800	681,281	2,880	864		75,992	64,886
Woolen <sup>2</sup> .....	58,877	1,280	136	5,040	768	150			1,262	800	12,794	2,880	864		2,502	784
Worsted.....	1,551,400	3,600	9,400	288	3,600			14,360	111,024		587,127				73,490	64,102
Cotton.....	110,900								0,332		81,360					
Doubling and twisting spindles, total.....	623,084	1,420	19,734	672	1,800	1,096	300	5,870	20,872	360	287,192	2,456	614	20	19,952	46,766
Woolen.....	80,040	410	13,894		240	1,096	300	70	3,608	360	10,748	2,456	614	20	1,370	5,020
Worsted.....	787,878	980	5,840	72	1,620			5,800	20,304		273,172				18,576	41,746
Cotton.....	45,266			600							3,272					
Power looms, except carpet and rug, total.....	58,631	90	3,985	551	203	311	77	208	4,588	342	20,100	282	140	50	3,492	2,027
Automatic.....	23,083		509	265	138	138		10	1,604	24	10,311	28	2	16	1,974	408
Other than automatic.....	35,548	90	3,176	266	203	173	77	198	2,984	318	9,849	254	147	40	1,518	2,521
Broad (64 inches and over, read space).....	46,403	50	2,920	284	203	202	76	193	3,441	188	14,087	282	140	50	3,320	2,784
Medium (50 inches and over, but under 64 inches, read space).....	2,415	40	455	50		1					586				32	143
Narrow (under 50 inches, read space).....	9,813		310	211		48	1	15	734	154	5,487				140	
Power looms, carpet and rug.....	8,078		539								1,331			45		439
Hand looms.....	187		3						22		42					41
Gill boxes, total.....	4,013	10	15	12	15			43	169		1,095				143	367
American.....	1,310		15		13				10		612				66	39
Foreign.....	3,303	16		12	2				27		1,453				77	318
Wool-combing machines.....	2,441		4		3				13		1,667				98	328
Pickers.....	1,055	11	85	10	13	10			3		286			4	45	61
Garnett machines.....	269	5	10		3	1			2		38			1	5	45
<b>IDLE THROUGHOUT THE CENSUS YEAR</b>																
Cards, total number.....	442		51			1			21		160		2	6		30
Woolen <sup>1</sup> (number of sets).....	243		15			1			21		60		2	0		25
Worsted.....	132		36								44				14	11
Cotton.....	67										47					
Producing spindles, total.....	343,776		27,818	216		720			30,018		130,835	600	1,090		12,160	57,752
Woolen <sup>2</sup> .....	91,554		16,306			720			8,042		21,822	600	1,090		6,224	2,872
Worsted.....	235,668		11,512	216					17,488		101,237				5,636	54,880
Cotton.....	16,554								5,688		7,776					
Mule spindles, total.....	159,734		16,306			720			8,042		88,930	600	1,090		10,810	32,552
Woolen <sup>2</sup> .....	91,362		16,306			720			8,042		21,630	600	1,090		6,224	2,872
Worsted.....	47,896										6,524				4,692	20,680
Cotton.....	11,476										7,776					
Frame spindles, total.....	193,042		11,512	216					22,576		91,005				1,344	25,200
Woolen <sup>2</sup> .....	192										192					
Worsted.....	187,792		11,512	216					17,488		91,713				1,344	25,200
Cotton.....	5,088								5,088							
Doubling and twisting spindles, total.....	36,933		1,880	60					200		21,524		300			1,090
Woolen.....	3,443								200		1,600		300			
Worsted.....	33,490		1,880	60							20,524					1,090
Cotton.....																
Power looms, except carpet and rug, total.....	10,023		507	3		13	1	256			5,070	22	26		445	2,275
Automatic.....	5,347		76	3				43			3,538				269	791
Other than automatic.....	5,676		431			13	1	213			1,541	22	26		176	1,484
Broad (64 inches and over, read space).....	7,011		504	3				222			2,958	22	26		433	1,348
Medium (50 inches and over, but under 64 inches, read space).....	1,066								25		41				12	925
Narrow (under 50 inches, read space).....	2,816		3				1				2,080					2
Power looms, carpet and rug.....	2,189		167								80					98
Hand looms.....	29							15								
Gill boxes, total.....	376		17	14					7		209				2	32
American.....	133		5								63					2
Foreign.....	243		12	14					7		146				2	30
Wool-combing machines.....	220		18	4					19		47					30
Pickers.....	38								5		4			1		
Garnett machines.....	5	1							1						2	14

<sup>1</sup> Includes shoddy cards.

<sup>2</sup> Includes shoddy spindles.

CENSUS OF MANUFACTURES: 1929

TABLE 4.—MACHINERY, ACTIVE AND IDLE, BY KIND AND NUMBER, FOR THE WOOL-MANUFACTURES GROUP, BY STATES: 1929—Continued

KIND	New Mexico	New York	North Carolina	Ohio	Oregon	Pennsylvania	Rhode Island	South Carolina	Tennessee	Texas	Utah	Vermont	Virginia	Washington	West Virginia	Wisconsin
ACTIVE AT ANY TIME WITHIN THE CENSUS YEAR																
Cards, total number		802	51	148	47	841	673		77	13	7	143	39	8	35	93
Woolen <sup>1</sup> (number of sets)		636	51	79	43	555	241		74		7	143	30	8	35	88
Worsted		79		69	4	270	432			13						5
Cotton		147				16			3							
Producing spindles, total		302,911	24,416	66,442	22,572	497,772	683,719	6,160	37,539	1,720	2,476	68,435	21,008	2,520	19,608	35,592
Woolen <sup>2</sup>		160,963	24,416	31,258	17,792	187,750	125,672	160	37,539		2,476	58,435	19,008	2,520	17,040	32,898
Worsted		110,476		35,184	4,780	310,022	558,047	6,000		1,720		10,000	2,000		2,508	2,784
Cotton		31,472														
Mule spindles, total		197,013	13,476	26,038	17,792	301,787	331,462	160	37,531		2,476	58,235	18,018	2,520	17,040	34,248
Woolen <sup>2</sup>		155,149	13,476	26,938	17,792	183,790	122,542	160	37,531		2,476	58,235	18,018	2,520	17,040	32,664
Worsted		31,200				117,988	208,910									1,584
Cotton		11,264														
Frame spindles, total		105,298	10,940	39,504	4,780	195,985	352,267	6,000	8	1,720		10,200	3,680		2,508	1,344
Woolen <sup>2</sup>		5,814	10,940	4,320		3,951	3,130		8			200	1,080			144
Worsted		79,276		35,184	4,780	192,034	349,137	6,000		1,720		10,000	2,000		2,508	1,200
Cotton		20,208														
Doubling and twisting spindles, total		97,403	90	15,370	2,072	105,602	272,777	100	1,000			5,740	800	90	1,476	2,374
Woolen		12,391	90	656	672	18,336	14,539	100	1,000			540		90		1,318
Worsted		46,314		14,714	1,400	87,266	250,238					5,200	800		1,476	360
Cotton		38,698				2,000										696
Power looms, except carpet and rug, total		2,355	468	1,306	332	5,525	7,585	166	810	40	41	1,757	378	80	277	390
Automatic		1,116	418	557	40	1,204	3,008	152	164	10	35	720	169	24	10	143
Other than automatic		1,239	50	749	292	4,321	4,577	14	646	30	6	1,037	209	56	201	247
Broad (64 inches and over, reed space)		2,150	466	1,189	332	3,889	6,892	166	400		41	1,472	377	63	270	386
Medium (50 inches and over, but under 64 inches, reed space)		127		100		450	6					4				2
Narrow (under 50 inches, reed space)		69	2	17		1,186	687		410	40				1	17	2
Power looms, carpet and rug		2,775	47	0		2,801				40		281				82
Hand looms	2	30	34	1		10	2									
Gill boxes, total		228		34	9	700	822			42				4		24
American		112		34	9	164	209			42						
Foreign		116				545	613							4		24
Wool-combing machines		95	2	42	6	330	467			4						5
Pickers		118	4	21	12	111	31		10	5		49	9	5	10	13
Garnett machines		51	2	7	3	30	10		0			3	3			15

IDLE THROUGHOUT THE CENSUS YEAR

Cards, total number		25	20			58	12			3		5			4	15
Woolen <sup>1</sup> (number of sets)		25				50						5				15
Worsted						8	12			3					4	
Cotton			20													
Producing spindles, total		23,018	3,700			21,704	23,851			3,692		2,180				2,850
Woolen <sup>2</sup>		13,346				14,270	320					2,180				2,856
Worsted		9,672				7,494	28,531			3,692						
Cotton			3,700													
Mule spindles, total		13,346	3,700			14,270	4,420					2,180				2,850
Woolen <sup>2</sup>		13,346				14,270	320					2,180				2,856
Worsted							4,100									
Cotton			3,700													
Frame spindles, total		9,672				7,494	10,431			3,692						
Worsted		9,672				7,494	10,431			3,692						
Doubling and twisting spindles, total		3,445				4,748	2,660					300				120
Woolen		355				1,168						300				120
Worsted		3,090				3,580	2,660									
Power looms, except carpet and rug, total		174	2	12		1,332	701					24		10	14	21
Automatic		4	2	12		279	313					4		2	2	11
Other than automatic		170				1,053	388					20		14	14	10
Broad (64 inches and over, reed space)		144				776	502					24		2	14	20
Medium (50 inches and over, but under 64 inches, reed space)		4				89										
Narrow (under 50 inches, reed space)		26	2	12		467	199							14		1
Power looms, carpet and rug		1,090		1		761										2
Hand looms		12	2													
Gill boxes, total		8		5		4	37			32					0	
American		2		5		1	23			32						
Foreign		6				3	14								0	
Wool-combing machines		15		10		7	33			5					5	1
Pickers		3				6									3	
Garnett machines		1				1										1

<sup>1</sup> Includes shoddy cards.

<sup>2</sup> Includes shoddy spindles.

THE WOOL-MANUFACTURES GROUP

TABLE 5.—YARNS AND RECOVERED WOOL FIBER—PRODUCTION IN WOOL MANUFACTURES, BY KIND AND QUANTITY, BY INDUSTRIES, FOR THE UNITED STATES: 1929 AND 1919

PRODUCT	Census year	Total	Made for sale	MADE FOR USE IN SAME ESTABLISHMENTS				
				Total	Woolen mills	Worsted mills	Felt mills	Carpet mills
		Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Yarns, total.....	1929	495,853,084	177,517,183	318,335,901	148,039,243	85,139,859	5,933,857	79,222,942
	1919	438,242,300	118,970,054	319,272,246	195,400,171	82,584,590	5,955,334	35,272,155
Woolen.....	1929	247,422,128	51,248,614	196,173,514	113,622,138	10,522,433	<sup>1</sup> 5,933,857	60,095,036
	1919	226,616,131	28,056,769	197,659,362	147,232,110	18,207,724	4,005,124	28,121,404
Worsted <sup>2</sup> .....	1929	181,205,445	104,410,117	76,879,328	865,421	70,672,556	( <sup>1</sup> )	5,341,351
	1919	143,801,552	75,735,205	68,066,347	1,113,750	61,350,377	-----	5,602,211
Wool and cotton mixed.....	1929	38,180,750	9,140,502	29,040,248	28,286,547	753,701	( <sup>1</sup> )	( <sup>3</sup> )
	1919	56,961,185	13,466,054	43,555,131	40,819,384	720,282	1,860,210	155,255
Cotton and other.....	1929	28,054,761	12,711,950	16,242,811	5,265,137	3,191,160	-----	<sup>3</sup> 7,780,505
	1919	10,863,432	869,026	9,994,406	6,294,918	2,306,203	-----	1,393,285
Recovered wool fiber.....	1929	33,507,632	2,545,961	30,961,671	28,083,144	1,305,208	263,402	1,214,917
	1919	21,810,761	1,431,839	20,378,922	17,605,485	476,490	1,304,811	842,166

<sup>1</sup> Item for "Woolen" includes data for small amounts of "Worsted" and "Wool and cotton mixed," to avoid disclosing data for individual establishments.

<sup>2</sup> Includes small quantities of mohair and similar yarns.

<sup>3</sup> Item for "Cotton and other" includes data for "Wool and cotton mixed," to avoid disclosing data for individual establishments.

## WOOLEN GOODS AND WORSTED GOODS

Description of the industries.—The manufacture of woolen goods and the manufacture of worsted goods are treated as separate industries, and each establishment engaged primarily in the production of either class of goods is assigned to one industry or the other according to the character of its products of chief value. Woolen goods are made of carded yarns, the fibers of which are to some extent crossed. Worsted goods are made of combed yarns, from which the short

fibers have been removed and the long fibers left in a more or less parallel condition.

Detailed statistics of products.—To a considerable extent woolen goods are made by worsted mills and worsted goods by woolen mills as secondary products, and for this reason the detailed statistics of quantities and values of products for the two industries are combined in Tables 3 and 4.

TABLE 1.—SUMMARY FOR THE INDUSTRIES, IN COMBINATION AND SEPARATELY, FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>	Horsepower
<b>WOOLEN GOODS AND WORSTED GOODS</b>							
1929	724	140,959	\$164,151,331	\$502,531,522	\$827,000,348	\$324,474,820	567,783
1927	759	154,361	173,821,905	502,107,842	817,978,200	315,870,457	550,125
1925	832	165,224	191,270,791	620,401,943	957,790,338	337,388,305	570,295
1923	851	194,552	232,084,522	622,731,847	1,062,558,438	430,820,591	638,465
1921	814	162,304	174,894,708	400,045,562	765,583,768	355,538,200	(3)
1919	852	168,787	168,108,081	655,594,683	1,065,434,072	390,839,389	408,219
1914	799	158,692	75,963,444	246,496,606	379,484,379	132,987,713	375,673
1909	911	163,192	69,727,046	273,438,570	419,743,521	146,304,051	342,720
1904	1,018	141,998	55,007,343	197,489,306	307,041,710	110,462,404	270,433
1899	1,221	125,901	44,849,744	148,087,178	238,744,502	90,657,324	234,125
Per cent of increase or decrease (—):							
1927-1929	-4.6	-4.8	-5.6	0.1	1.1	2.7	2.1
1925-1927	-8.8	-6.0	-9.1	-19.1	-14.6	-6.4	-2.5
1923-1925	-2.2	-15.1	-14.2	-0.4	-9.0	-23.3	5.0
1921-1923	4.5	19.8	27.5	55.7	40.6	23.7	
1919-1921	-4.5	-2.7	4.0	-39.9	-29.1	-11.1	
1919-1929	-15.0	-11.9	-2.4	-24.5	-22.4	-18.8	21.8
1909-1919	-6.5	2.2	141.1	143.4	163.8	173.3	36.0
1899-1909	-25.4	29.6	55.5	84.6	75.8	61.4	46.4
<b>WOOLEN GOODS</b>							
1929	460	58,474	\$60,013,599	\$165,882,063	\$200,938,949	\$125,056,886	195,247
1927	471	61,790	72,156,158	172,700,233	301,308,743	123,008,510	191,703
1925	503	67,050	82,436,037	219,618,330	361,524,034	141,005,704	193,080
1923	513	72,408	87,313,708	201,547,430	364,287,817	162,740,387	180,567
1921	493	59,434	62,893,150	120,275,820	230,944,847	110,009,027	(3)
1919	560	62,957	66,595,820	217,065,333	364,890,590	140,931,267	172,191
1914	501	49,155	24,204,479	63,696,042	103,815,905	40,119,863	133,062
1909	587	52,180	22,575,175	65,651,634	107,118,858	41,467,224	130,708
1904	792	72,747	28,827,556	87,830,825	142,106,688	54,365,833	155,496
1899	1,035	68,893	24,767,006	71,011,956	118,430,158	47,418,202	138,428
Per cent of increase or decrease (—):							
1927-1929	-2.3	-5.4	-8.5	-3.0	-3.4	-2.8	1.8
1925-1927	-6.4	-7.9	-12.5	-21.4	-16.7	-0.4	-0.7
1923-1925	-1.9	-7.4	-5.0	9.0	-0.8	-12.8	6.0
1921-1923	4.1	28.3	38.8	67.0	57.7	47.1	
1919-1921	-12.0	-10.4	-5.0	-44.8	-36.7	-24.7	
1919-1929	-17.9	-7.1	-0.9	-23.0	-20.3	-14.9	13.4
1909-1919	-4.6	20.7	195.0	232.0	240.6	254.3	31.7
1899-1909	-43.3	-24.3	-8.8	-7.5	-9.6	-12.5	-5.0
<b>WORSTED GOODS</b>							
1929	264	88,485	\$88,137,732	\$336,649,459	\$536,067,399	\$109,417,940	372,530
1927	283	92,671	101,665,747	326,407,609	516,669,556	187,261,947	364,422
1925	320	98,108	108,834,754	400,783,613	596,266,304	195,482,601	377,215
1923	338	122,144	135,670,814	421,184,417	698,270,621	277,036,204	367,808
1921	321	105,930	112,001,618	279,769,742	524,638,921	244,869,179	(3)
1919	292	103,830	101,512,855	447,629,350	700,537,432	252,908,132	294,028
1914	208	109,527	51,748,965	182,500,624	275,668,474	92,307,850	242,521
1909	324	111,012	47,151,871	207,786,936	312,624,663	104,837,727	212,012
1904	226	69,251	26,269,787	109,658,481	185,745,052	56,066,871	114,937
1899	186	57,008	20,092,738	77,076,222	120,314,344	43,239,122	95,097
Per cent of increase or decrease (—):							
1927-1929	-8.3	-4.4	-3.5	2.2	3.8	6.5	2.2
1925-1927	-12.5	-5.7	-6.6	-17.8	-13.3	-4.2	-3.4
1923-1925	-2.7	-10.6	-10.8	-4.8	-14.6	-20.5	5.4
1921-1923	5.3	15.3	21.1	50.5	33.1	13.2	
1919-1921	9.9	2.0	10.3	-37.5	-25.1	-3.2	
1919-1929	-9.0	-14.8	-3.3	-24.8	-23.5	-21.2	26.7
1909-1919	-9.9	-6.5	115.3	115.4	124.1	141.2	38.7
1899-1909	74.2	94.7	134.7	169.6	159.8	142.5	121.6

<sup>1</sup> The figures for all years refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products.

<sup>2</sup> Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

<sup>3</sup> Not called for on schedule.

# WOOLEN GOODS AND WORSTED GOODS

TABLE 2.—GENERAL STATISTICS FOR THE INDUSTRIES, BY STATES: 1929, 1927, AND 1919

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments in Covered—Size]

STATE	Cen- sus year	Num- ber of estab- lish- ments	Sala- ried officers and em- ployees	Wage earn- ers (aver- age for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PUR- CHASED ELECTRIC ENERGY			Value of products <sup>1</sup>	Value added by manufac- ture <sup>1</sup>
					Total	Primo movers	Motors run by pur- chased energy			Total	Materials	Fuel and purchased energy		
<b>WOOLEN GOODS</b>														
United States	1929	460	* 4,056	58,474	195,247	119,734	75,513	\$13,815,454	\$66,013,599	\$165,882,063	\$159,773,700	\$6,103,357	\$200,933,949	\$125,056,880
	1927	471	* 3,570	61,790	191,703	130,645	61,058	12,059,574	72,156,158	172,700,233	166,321,575	6,378,058	301,308,743	128,608,510
	1919	560	* 3,805	62,957	172,191	133,781	438,410	13,141,096	66,695,826	217,065,333	212,180,028	6,770,305	304,896,500	140,931,257
<b>Individual States:</b>														
California	1929	5	37	370	1,132	-----	1,132	120,033	305,430	968,006	930,988	37,018	1,501,325	592,410
Connecticut	1929	32	413	5,357	17,447	14,901	2,450	1,572,665	0,039,076	12,621,487	12,073,024	547,663	22,457,785	9,836,208
	1927	29	351	5,938	16,307	14,615	1,692	1,358,440	7,205,284	15,633,012	15,032,100	601,812	27,841,649	12,207,737
	1919	35	289	6,351	14,670	10,983	3,606	1,079,305	5,955,985	10,144,407	18,614,892	529,516	32,357,060	13,212,083
Illinois	1929	3	33	340	1,443	1,018	425	130,281	361,442	804,882	855,281	39,601	1,561,928	607,646
	1927	4	41	532	1,469	1,203	178	140,410	597,387	1,717,475	1,656,722	60,763	2,608,810	951,335
	1919	4	31	482	1,112	925	187	114,086	386,208	1,704,844	1,604,094	40,780	2,707,908	1,003,004
Indiana	1929	7	62	635	1,887	1,165	722	262,157	663,321	2,030,128	1,954,264	75,864	3,470,841	1,440,713
	1927	6	64	711	1,670	1,449	221	437,000	762,350	2,410,623	2,343,540	79,074	4,301,798	1,882,175
	1919	11	50	948	1,860	1,600	260	220,779	725,120	3,310,983	3,248,027	71,956	4,542,007	1,242,084
Maine	1929	48	507	6,520	23,386	13,700	9,590	1,400,720	7,484,852	14,918,300	16,218,548	699,812	31,782,318	14,863,058
	1927	50	420	6,140	24,012	14,940	9,972	1,162,250	7,625,452	16,005,180	16,331,875	38,305	30,924,967	13,050,807
	1919	59	462	6,915	21,941	16,590	5,351	1,484,727	7,929,318	25,715,681	25,014,080	701,651	42,441,533	16,726,652
Maryland	1929	3	30	505	1,708	1,585	123	110,214	408,844	1,465,218	1,428,078	37,140	2,657,742	1,192,524
	1927	3	25	469	1,648	1,565	83	84,257	600,067	1,408,251	1,369,731	38,623	2,571,577	1,103,323
	1919	3	13	207	1,200	1,200	60	20,801	228,636	884,345	802,486	21,859	1,541,205	650,800
Massachusetts	1929	93	938	15,711	52,552	33,506	18,950	3,256,641	18,661,353	39,568,343	37,803,633	1,765,710	71,080,687	31,481,344
	1927	99	841	15,923	52,148	35,539	16,009	2,794,518	19,308,612	40,341,042	38,652,470	1,688,672	73,740,314	33,300,272
	1919	111	1,040	17,568	50,109	37,948	12,152	3,515,670	19,709,670	62,003,518	60,372,260	1,721,258	105,183,068	43,089,550
Michigan	1929	9	80	955	3,392	765	2,027	250,041	980,837	4,185,137	4,040,903	135,234	6,266,040	2,080,003
	1927	8	80	873	2,494	1,165	1,299	195,045	854,887	2,738,640	2,637,214	104,426	4,296,405	1,587,765
	1919	9	66	812	1,592	736	766	250,216	718,475	2,881,058	2,807,067	78,901	4,571,704	1,690,546
Minnesota	1929	11	61	410	1,682	705	977	262,127	381,768	1,520,714	1,492,682	87,032	2,854,568	1,324,844
	1927	11	59	508	1,581	880	901	257,192	510,011	1,580,450	1,537,094	42,705	2,505,166	1,414,707
	1919	11	107	574	1,491	805	680	268,062	474,386	1,780,141	1,734,052	45,489	2,804,250	1,094,118
New Hamp- shire	1929	30	288	4,040	15,846	12,291	3,555	883,707	4,628,036	10,955,508	10,482,884	472,624	18,688,433	7,732,925
	1927	35	264	5,007	18,403	15,601	2,992	774,908	6,141,009	13,140,981	12,615,827	531,154	24,143,480	10,000,460
	1919	39	281	5,317	17,379	15,738	1,641	870,145	5,862,151	18,690,671	18,176,812	519,850	31,245,162	12,548,491
New Jersey	1929	10	138	1,904	10,110	6,150	3,900	627,108	2,206,213	5,733,720	5,530,573	203,147	10,628,578	4,894,858
	1927	8	50	1,176	3,493	2,850	643	240,842	1,500,856	3,104,856	2,984,228	120,627	5,487,032	2,482,777
	1919	6	69	1,271	2,795	2,795	-----	324,040	1,165,897	3,055,877	2,960,281	95,596	5,210,270	2,154,393
New York	1929	23	173	2,358	8,623	5,030	3,503	506,251	3,004,334	7,149,116	6,850,778	288,338	14,191,048	7,042,832
	1927	23	128	2,631	9,094	6,116	2,978	451,210	3,292,700	7,190,091	6,806,244	323,817	13,008,008	6,178,847
	1919	25	172	3,348	10,000	6,995	3,071	570,111	3,241,421	10,812,368	10,499,300	313,068	17,546,090	6,783,722
North Carolina	1929	7	33	1,104	2,788	480	2,308	104,851	937,008	3,433,154	3,344,513	88,641	6,010,905	2,580,751
	1927	6	23	1,156	2,371	515	1,856	92,051	1,028,079	3,317,912	3,215,645	102,267	5,505,489	2,187,577
Ohio	1929	8	38	606	1,016	520	1,006	184,471	557,348	1,649,755	1,598,160	51,596	3,080,040	1,130,285
	1927	9	42	754	2,233	1,015	1,218	172,451	726,362	2,310,867	2,224,377	86,430	3,618,194	1,307,387
	1919	10	66	786	2,040	1,105	935	242,461	595,245	2,028,320	1,971,447	56,873	3,835,985	1,357,655
Oregon	1929	8	81	977	2,770	1,145	1,634	212,065	1,000,871	1,919,435	1,832,621	86,014	4,307,067	2,388,232
	1927	6	77	1,076	2,525	1,155	1,370	227,848	1,145,225	2,113,605	2,033,491	80,014	4,351,802	2,208,207
	1919	5	50	808	2,341	1,403	938	130,530	754,064	1,946,469	1,858,725	87,744	3,856,659	1,410,190
Pennsylvania	1929	69	463	6,231	19,638	8,921	10,717	1,780,058	7,040,030	28,787,730	28,178,484	600,246	44,328,145	15,540,415
	1927	79	411	6,718	21,373	11,183	10,100	1,613,736	8,106,544	27,117,604	26,437,128	680,470	41,832,191	14,714,637
	1919	108	467	7,398	15,961	12,532	3,429	1,769,398	8,267,436	28,330,245	27,805,192	524,053	48,230,627	19,069,882
Rhode Island	1929	21	192	2,919	7,584	5,331	2,253	628,770	3,489,884	10,302,412	10,021,934	280,578	10,789,514	6,487,102
	1927	24	169	3,275	7,158	5,314	1,844	587,255	4,161,577	11,567,020	11,270,620	326,394	19,256,063	7,659,043
	1919	26	198	3,144	7,170	5,925	1,251	801,076	3,569,272	13,782,113	13,489,394	292,710	22,231,010	8,449,306
Tennessee	1929	8	93	1,638	3,561	1,878	1,683	284,030	1,104,245	2,470,474	2,306,032	83,442	4,544,686	2,065,212
	1927	9	73	1,583	2,958	1,767	1,201	226,031	1,011,465	2,637,004	2,450,652	77,962	4,285,869	1,748,265
	1919	13	97	1,300	1,990	1,022	944	165,474	693,015	2,232,395	2,192,762	99,633	4,242,067	2,009,662
Vermont	1929	16	103	1,490	6,149	5,093	1,056	373,443	1,713,045	3,553,190	3,371,771	181,320	7,191,773	3,636,073
	1927	15	140	2,610	9,665	6,090	575	408,154	3,058,143	6,981,756	6,672,720	309,030	10,930,729	3,957,973
Virginia	1929	7	52	1,003	2,250	722	1,537	126,270	922,861	1,980,501	1,925,194	64,397	3,780,022	1,790,621
	1927	6	60	749	1,803	1,001	802	150,840	737,823	1,520,059	1,465,210	54,810	3,544,263	2,024,204
	1919	12	31	630	1,405	1,105	300	60,056	469,223	1,638,397	1,488,254	50,143	2,693,142	1,154,745
West Virginia	1929	7	50	779	1,574	1,115	469	191,417	790,200	1,773,373	1,718,884	54,489	3,501,822	1,728,449
	1927	7	37	618	1,410	535	884	93,463	605,545	1,250,247	1,060,310	186,028	2,551,026	1,294,779
Wisconsin	1929	20	91	852	3,000	1,921	1,160	232,059	834,828	1,857,301	1,765,688	91,613	3,516,426	1,050,125
	1927	16	62	1,042	2,789	1,947	842	198,231	1,083,041	2,261,323	2,178,024	83,290	4,382,266	2,120,943
	1919	21	77	849										

CENSUS OF MANUFACTURES: 1929

TABLE 2.—GENERAL STATISTICS FOR THE INDUSTRIES, BY STATES: 1929, 1927, AND 1919—Continued

[See note at head of this table]

STATE	Census year	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
					Total	Prime movers	Motors run by purchased energy			Total	Materials	Fuel and purchased energy		
<b>WOOLEN GOODS—continued</b>														
<b>Groups of States: Ga., 3 est.; Ky., 4; S. C., 1.....</b>														
	1929	8	66	1,182	2,412	577	1,835	\$199,330	\$659,327	\$2,412,000	\$2,343,480	\$69,411	\$4,286,652	\$1,873,752
<b>Other States (Iowa, 2 est.; Mo., 1; N. Mex., 1; Utah, 2; Wash., 1).....</b>														
	1929	7	45	567	2,589	945	1,644	139,810	548,186	1,672,400	1,605,731	66,678	2,681,114	1,068,705
<b>States not shown separately.....</b>														
	1927	18	135	2,292	5,060	1,420	3,640	378,451	2,183,659	5,439,914	5,267,729	172,185	9,471,125	4,031,211
	1919	52	283	6,183	16,410	12,215	3,201	1,037,340	4,988,951	15,717,997	15,221,442	496,465	26,538,927	10,821,020
<b>WORSTED GOODS</b>														
<b>United States.....</b>														
	1929	264	75,225	88,485	372,536	275,772	96,764	16,322,297	98,137,732	336,640,459	328,573,235	8,076,224	536,067,399	199,417,040
	1927	288	74,823	92,571	364,422	283,882	80,640	15,804,253	101,665,747	329,407,609	310,029,109	9,778,500	516,669,550	187,261,047
	1919	292	75,413	103,830	204,028	256,159	37,869	17,840,660	101,512,355	447,629,350	438,007,687	9,621,763	700,537,482	252,008,132
<b>Individual States:</b>														
<b>Connecticut.....</b>														
	1929	11	235	3,932	9,063	5,364	3,639	692,295	5,742,628	17,976,695	17,084,604	292,001	27,890,179	9,913,484
	1927	11	221	3,055	5,987	4,594	1,393	482,137	4,307,185	14,673,183	14,386,698	280,585	22,108,275	7,430,092
	1919	9	132	2,447	6,794	6,420	374	420,197	2,611,470	12,593,939	12,346,020	247,019	18,928,293	6,834,354
<b>Maine.....</b>														
	1929	7	126	3,956	15,651	3,390	12,261	540,185	3,550,018	10,694,568	10,220,367	465,211	22,119,509	11,425,031
	1927	0	145	4,244	10,936	2,475	8,461	691,753	4,642,346	11,367,724	10,885,345	532,379	21,849,221	10,481,497
	1919	7	94	2,998	6,432	2,995	3,437	332,829	3,111,432	10,511,127	10,167,784	343,343	17,885,677	7,374,550
<b>Massachusetts.....</b>														
	1929	63	1,031	20,002	162,846	130,377	32,469	4,935,830	33,700,230	106,421,555	103,255,678	3,166,877	171,817,773	65,366,218
	1927	75	1,796	35,141	156,421	129,007	27,414	5,167,387	38,666,775	122,808,953	118,280,421	4,528,532	195,095,492	72,280,539
	1919	71	1,699	36,296	128,630	113,217	15,413	5,254,931	36,949,984	156,616,543	146,340,845	4,275,698	237,443,077	86,826,534
<b>New Jersey.....</b>														
	1929	13	983	7,293	29,601	27,347	2,254	2,723,775	8,700,919	21,028,904	20,505,048	523,256	38,416,468	17,386,551
	1927	16	728	8,777	35,943	36,297	2,640	2,685,103	10,734,246	28,522,134	27,820,243	701,891	47,781,728	10,250,594
	1919	20	1,092	13,219	27,661	23,817	3,244	3,004,698	13,003,328	51,516,883	50,484,385	1,032,498	65,115,024	43,698,141
<b>New York.....</b>														
	1929	13	195	3,952	12,267	10,187	2,080	591,221	3,983,571	11,455,140	11,145,020	309,220	17,954,760	6,499,620
	1927	15	227	3,472	14,519	11,892	3,127	701,071	3,571,839	10,670,127	10,264,591	405,536	17,676,747	7,005,629
	1919	14	204	4,404	12,789	12,289	600	962,461	3,833,733	14,417,303	14,045,741	371,562	21,111,159	6,693,856
<b>Pennsylvania.....</b>														
	1929	61	762	10,692	29,950	19,226	10,724	2,528,284	12,458,290	51,980,520	51,134,172	846,348	81,204,842	20,224,323
	1927	67	907	10,546	30,177	20,266	9,911	2,295,465	11,491,549	42,701,992	41,941,567	766,425	63,796,023	21,058,031
	1919	89	889	15,400	38,947	31,684	7,263	2,729,788	16,566,889	82,511,946	81,517,520	994,426	118,475,141	35,963,195
<b>Rhode Island.....</b>														
	1929	72	1,016	21,216	70,056	43,479	26,577	3,569,141	22,946,332	91,620,116	89,538,055	2,082,061	138,197,177	46,677,061
	1927	71	877	21,114	72,244	47,965	24,279	3,323,982	22,338,332	79,525,037	77,883,648	2,141,380	118,310,113	38,785,076
	1919	62	1,041	21,240	51,742	44,067	7,675	4,320,295	20,674,333	103,132,665	101,302,820	1,829,839	153,080,939	49,948,274
<b>Groups of States: Ga., 2 est.; Ky., 2; Md., 1; S. C., 1; Tex., 1; Va., 2; W. Va., 1.....</b>														
	1929	10	99	1,167	4,021	1,282	2,730	251,155	842,449	5,252,306	5,162,127	90,170	8,032,052	2,780,616
<b>Other States (Calif., 1 est.; Ill., 1; N. H., 6; Ohio, 3; Oreg., 1; Vt., 1; Wis., 1).....</b>														
	1929	14	188	6,315	39,141	35,120	4,021	544,411	5,910,265	20,219,655	19,917,684	301,971	30,434,660	10,215,091
<b>States not shown separately.....</b>														
	1927	24	222	6,222	35,105	31,886	3,309	547,355	5,823,475	19,138,459	18,710,696	421,763	30,063,967	10,025,499
	1919	20	292	7,757	23,138	21,070	1,468	806,648	6,358,686	22,328,944	21,801,566	527,378	38,498,172	16,160,223

<sup>1</sup> The figures for all years refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products.  
<sup>2</sup> Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.  
<sup>3</sup> Not including proprietors and firm members, as follows: For 1929, 115; 1927, 149; 1919, 268. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 62,645; 1927, 65,509; 1919, 67,020.  
<sup>4</sup> Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919 but not in the United States totals.  
<sup>5</sup> California, 4 establishments; Georgia, 3; Iowa, 2; Kentucky, 4; Missouri, 1; New Mexico, 1; Utah, 2; Washington, 1.  
<sup>6</sup> California, 2 establishments; Delaware, 1; Georgia, 3; Iowa, 2; Kentucky, 3; Missouri, 2; North Carolina, 5; Utah, 2; Vermont, 17; Washington, 3; West Virginia, 6.  
<sup>7</sup> Not including proprietors and firm members, as follows: For 1929, 53; 1927, 62; 1919, 120. The total numbers of persons engaged—proprietors and firm members salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 93,763; 1927, 97,456; 1919, 109,372.  
<sup>8</sup> California, 1 establishment; Delaware, 1; Georgia, 1; Illinois, 1; Kentucky, 1; Louisiana, 1; Maryland, 1; New Hampshire, 4; Ohio, 3; Oregon, 1; South Carolina, 2; Texas, 1; Vermont, 1; Virginia, 1; West Virginia, 1; Wisconsin, 2.  
<sup>9</sup> Delaware, 1 establishment; Georgia, 1; Illinois, 1; Kentucky, 1; New Hampshire, 5; Ohio, 3; Oregon, 1; South Carolina, 1; Texas, 1; Vermont, 1; West Virginia, 1; Wisconsin, 3.

# WOOLEN GOODS AND WORSTED GOODS

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**TABLE 3.—PRODUCTS, BY CLASS, QUANTITY, AND VALUE, BY INDUSTRIES, FOR THE UNITED STATES: 1929 AND 1927**

[The figures for both census years refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products]

KIND	1929			1927		
	Total	Woolen-goods industry	Worsted-goods industry	Total	Woolen-goods industry	Worsted-goods industry
1. Woolen-goods and worsted-goods industries, all products, total value.....	\$827,006,348	\$200,038,949	\$530,067,399	\$817,078,209	\$301,308,743	\$516,000,556
2. Woolen goods and worsted goods.....	\$793,141,322	\$284,713,450	\$508,427,872	\$704,003,008	207,431,234	\$496,631,774
3. Other products (not normally belonging to these industries).....	\$19,124,435	\$2,511,215	\$16,013,220	\$12,335,551	\$1,501,652	\$10,743,899
4. Receipts for contract work.....	\$14,740,591	\$3,714,284	\$11,026,307	\$11,570,740	\$2,285,867	\$9,293,883
5. Woolen goods and worsted goods made as secondary products in other industries, value.....	\$9,734,273	\$3,105,375	\$6,628,898	\$14,145,016	\$3,870,957	\$10,274,059
<b>Woolen goods and worsted goods, all industries:</b>						
Aggregate value (sum of 2 and 5).....	\$802,375,595	\$287,818,825	\$515,059,770	\$808,208,024	\$301,302,101	\$506,905,883
<b>Woven goods—</b>						
Pounds.....	336,364,964	188,146,720	148,218,244	319,057,204	188,002,244	131,565,050
Square yards.....	513,951,108	204,200,604	249,750,504	557,900,031	288,768,647	269,221,484
Value.....	\$671,137,940	\$242,083,481	\$320,054,450	\$584,307,728	\$260,188,626	\$324,200,202
<b>Yarns for sale—</b>						
Total pounds.....	150,473,453	60,617,282	89,856,171	145,763,120	51,420,624	94,342,496
Total value.....	\$190,757,752	\$44,340,448	\$156,417,304	\$184,024,709	\$30,898,672	\$144,126,137
<b>Woolen—</b>						
All-wool—						
Pounds.....	48,835,238	47,800,754	944,484	41,804,274	37,373,756	4,430,518
Value.....	\$33,903,007	\$32,036,823	\$968,184	\$31,255,104	\$20,177,000	\$5,078,104
Wool and cotton combined—						
Pounds.....	6,302,957	(1)	(1)	7,001,030	(1)	(1)
Value.....	\$3,906,733	(1)	(1)	\$6,461,500	(1)	(1)
<b>Worsted—</b>						
All-wool—						
Pounds.....	80,051,646	6,158,702	82,892,884	81,378,178	6,028,535	75,349,643
Value.....	\$140,294,850	\$7,243,070	\$133,021,780	\$126,235,653	\$7,717,417	\$117,518,241
Wool and cotton combined—						
Pounds.....	2,571,662	(1)	(1)	3,300,234	(1)	(1)
Value.....	\$3,345,072	(1)	(1)	\$4,322,380	(1)	(1)
Mohair and similar yarns—						
Pounds.....	12,711,950	101,523	12,550,427	11,070,404	(1)	(1)
Value.....	\$18,330,000	\$253,804	\$18,082,100	\$17,750,001	(1)	(1)
Wool card rolls, batts, and batting, for sale—						
Pounds.....	704,838			423,125		
Value.....	\$661,037			\$450,977		
Tops and stubbing, for sale—						
Pounds.....	14,093,514	702,228	14,006,124	18,283,332	418,575	18,287,882
Value.....	\$15,720,593	\$658,867	\$15,723,093	\$20,808,114	\$445,505	\$20,813,550
Wool and wool waste, for sale—						
Pounds.....	46,368,388	9,330,570	37,028,818	48,520,410	7,303,510	41,216,900
Value.....	\$15,597,383	\$739,030	\$14,801,344	\$18,524,400	\$760,588	\$17,750,908

<sup>1</sup> Included in total for "Yarns for sale" but not shown separately, to avoid disclosing production of individual establishments.

**TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, BY STATES: 1929**

[The statistics refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products. Figures are given for each State which can be shown separately without disclosing data for individual establishments. In some cases, however, certain of the "Other States" reported larger quantities and values than some of the States shown separately]

KIND AND STATE	Pounds	Square yards	Value	KIND AND STATE	Pounds	Square yards	Value
1. Woolen-goods and worsted-goods industries, all products, total value.....			\$827,006,348	Woolen goods and worsted goods, all industries—Continued.			
2. Woolen goods and worsted goods.....			793,141,322	Men's-wear fabrics—Continued.			
3. Other products (not normally belonging to these industries).....			19,124,435	Woolen—Continued.			
4. Receipts for contract work.....			14,740,591	Shirtings (Calif., Me., Mass., Mich., N. H., Oreg., Pa., R. I., Vt., Wash., Wis.).....	2,058,614	3,544,840	\$1,901,171
5. Woolen goods and worsted goods made as secondary products in other industries, value.....			9,734,273	Topcoatings, total.....	5,332,528	7,008,133	10,315,176
<b>Woolen goods and worsted goods, all industries:</b>				Connecticut.....	1,184,356	1,436,014	2,251,276
Aggregate value (sum of 2 and 5).....			\$802,375,595	Maine.....	330,322	382,493	602,261
<b>Men's-wear fabrics—</b>				Massachusetts.....	908,494	1,200,791	1,580,670
Woolen, total.....	81,029,562	105,761,680	121,668,428	Other States (Md., Mich., Minn., N. H., N. Y., Ohio, Oreg., Pa., R. I., Tenn., Vt., Wis.).....	2,009,366	3,078,935	5,811,970
Suitings and pantings (except flannels), total.....	34,802,070	51,400,142	52,750,300	Overcoatings, total.....	21,653,818	18,020,028	25,018,969
Connecticut.....	8,422,938	4,682,462	5,316,667	Connecticut.....	2,053,667	2,171,267	3,568,822
Maine.....	6,039,279	10,060,161	9,249,564	Maine.....	1,420,001	1,102,620	2,884,066
Massachusetts.....	8,006,967	10,503,588	12,435,012	Massachusetts.....	11,717,585	9,453,370	11,481,849
Michigan.....	103,007	237,308	303,842	Other States (Conn., Ill., Ind., Me., Mich., N. J., N. Y., Pa., Vt., Va., Wis.).....	1,932,122	1,575,532	1,351,333
New Hampshire.....	3,005,650	4,785,460	3,083,853	Rhode Island.....	881,727	1,317,617	808,080
New York.....	2,155,005	2,043,974	4,305,748	Vermont.....	985,270	320,082	900,062
Pennsylvania.....	1,460,325	2,242,817	1,772,970	Wisconsin.....	680,098	539,954	632,319
Vermont.....	542,503	730,444	702,554	Other States (Calif., Md., Mich., N. H., N. J., N. Y., N. C., Ohio, Pa., Tenn.).....	2,013,288	1,638,008	3,324,908
Other States (Calif., Ga., Ill., Ind., Iowa, Ky., Md., N. C., Oreg., R. I., Penn., Va., W. Va., Wis.).....	8,036,270	14,720,838	14,500,190	Uniform cloths, total.....	2,505,769	3,524,362	6,803,040
Flannel suitings and pantings, total.....	2,008,717	3,029,406	4,203,753	Massachusetts.....	763,893	965,242	1,068,654
Maine.....	291,804	521,945	660,564	New Hampshire.....	11,604	20,361	23,120
Massachusetts.....	580,340	1,000,872	1,067,867	Other States (Conn., Ill., Ind., Me., Mich., N. J., N. Y., Pa., Vt., Va., Wis.).....	1,800,212	2,538,759	5,231,260
Other States (Calif., Conn., Mich., N. H., N. C., Pa., R. I., Vt., Va.).....	1,217,564	2,310,880	2,460,332	Cap cloths, total.....	3,402,477	4,344,900	5,135,450
				Massachusetts.....	153,363	263,021	339,023
				Pennsylvania.....	724,051	1,225,236	1,246,559
				Other States (Conn., Me., N. H., R. I., Va.).....	2,525,063	2,856,643	3,549,868

See footnotes at end of table.

## CENSUS OF MANUFACTURES: 1929

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, BY STATES: 1929—Continued

[See note at head of this table]

KIND AND STATE	Pounds	Square yards	Value	KIND AND STATE	Pounds	Square yards	Value
Woolen goods and worsted goods, all industries—Continued.				Woolen goods and worsted goods, all industries—Continued.			
Men's-wear fabrics—Continued.				Women's-wear fabrics—Continued.			
Woolen—Continued.				Woolen—Continued.			
Auto cloths (except pile fabrics), total	7,008,937	9,782,838	\$12,557,706	Coatings, total	20,732,300	32,193,748	\$30,578,134
Connecticut	928,235	1,019,151	2,186,573	Maine	3,962,545	5,549,291	7,460,347
Other States (Ga., Mass., Mich., N. H., N. J., N. Y., Ohio, Vt., W. Va.)	6,740,702	8,763,687	10,371,133	Massachusetts	6,064,252	9,209,419	9,240,613
Other, total	2,016,622	3,435,081	2,762,863	New Hampshire	2,818,104	4,332,455	5,017,851
Connecticut	245,756	313,340	340,074	Oregon	202,680	316,232	233,877
Other States (Calif., Ill., Ind., Mo., Minn., N. H., N. Y., Ohio, Oreg., Vt., Wash., Wis.)	1,770,866	3,121,691	2,422,789	Pennsylvania	1,118,612	2,032,136	1,887,141
Worsted, total	72,006,790	130,318,343	199,674,354	Rhode Island	778,146	1,236,036	899,029
Staple suitings and pantings, total	35,009,508	60,316,224	89,005,476	Other States (Calif., Conn., N. J., N. Y., Ohio, Vt., Wash., Wis.)	5,788,022	9,518,179	11,803,376
Massachusetts	12,344,522	25,133,591	33,061,351	Worsted, total	17,500,953	37,192,796	41,139,399
Pennsylvania	3,501,735	6,781,987	10,787,193	Dress fabrics and suitings, total	15,200,080	33,514,051	35,907,490
Rhode Island	13,389,630	16,471,179	31,785,034	Massachusetts	8,162,400	15,865,906	15,692,094
Other States (Conn., N. H., N. J., N. Y., Ohio, Oreg., Vt., Va.)	5,803,711	11,029,467	13,481,898	New Jersey	2,203,012	6,595,114	7,170,010
Fancy suitings and pantings, total	33,756,060	62,495,221	90,895,092	Pennsylvania	858,728	1,798,687	2,268,948
Connecticut	2,275,305	4,032,680	7,121,160	Other States (Ky., N. Y., Ohio, R. I.)	4,065,910	9,344,354	10,768,938
Massachusetts	11,603,779	22,207,080	34,374,546	Coatings (Ky., Mass., N. J., Pa.)	2,158,832	3,425,749	4,815,784
New Jersey	2,009,552	3,973,095	6,308,139	Other (Ky., Mass., N. Y., Pa.)	142,032	242,906	416,125
New York	2,013,520	3,325,691	7,495,722	Woolen and worsted made with cotton or manipulated warps, total	9,074,005	10,795,028	7,613,052
Pennsylvania	2,480,166	3,309,030	7,237,345	Dress fabrics and suitings (Me., Md., Mass., N. H., N. J., N. Y., Pa.)	1,501,838	2,589,094	1,625,134
Rhode Island	8,495,444	15,474,460	25,440,462	Coatings, total	7,212,817	7,388,046	5,612,592
Other States (Ga., Me., N. H., Ohio, S. C., Vt., Va.)	4,278,294	8,103,279	11,827,718	Massachusetts	6,267,303	6,000,601	3,967,705
Tropicals and summer fabrics (Mass., Pa., R. I.)	1,483,129	3,659,485	4,124,014	Other States (Mo., N. H., N. J., Pa., R. I.)	945,454	1,288,445	1,544,827
Uniform cloths (Conn., Ind., Mass., N. J., N. Y., Ohio, Pa., R. I., Vt.)	1,417,799	2,524,835	4,231,545	Other (Conn., Me., Pa., R. I.)	350,350	817,888	475,326
Topcoatings (Conn., Mass.)	54,355	96,321	152,690	Blankets—			
Overcoatings and auto cloths (except pile fabrics) (Conn., Mass., N. J., N. Y., Ohio)	485,039	645,377	1,095,027	All-wool, total	12,420,020	18,094,945	15,831,332
Other (Conn., Mass., Pa.)	310,819	580,830	1,080,540	Maine	1,075,267	2,131,133	1,837,217
Woolen and worsted made with cotton or manipulated warps, total	45,150,074	83,435,610	50,130,207	Ohio	1,147,698	1,832,264	1,611,724
Suitings and pantings, total	18,917,308	36,501,086	25,008,326	Oregon	893,569	844,540	843,373
Connecticut	973,533	2,251,967	1,205,984	Pennsylvania	1,128,583	2,253,009	1,493,672
Maine	2,262,720	4,490,467	3,374,980	Other States (Calif., Conn., Ind., Iowa, Ky., Mass., Mich., Minn., N. H., N. Y., N. C., Tenn., Utah, Vt., Va., Wash., W. Va., Wis.)	7,006,562	11,033,903	10,045,340
Massachusetts	6,366,454	12,625,015	9,395,905	Wool and cotton, total <sup>1</sup>	15,795,731	28,094,076	10,622,065
New Hampshire	663,040	1,247,991	799,210	North Carolina	6,094,027	13,010,038	3,942,331
Pennsylvania	2,657,232	5,590,375	3,103,596	Oregon	709,470	1,409,241	844,401
Other States (Ga., Md., Mich., Mo., N. J., Ohio, Oreg., R. I., Tenn., Utah, Vt., Va.)	5,094,273	10,386,361	7,078,651	Tennessee	668,492	1,104,397	652,310
Shirtings and flannels, total	6,450,714	11,354,120	3,816,414	West Virginia	643,425	910,073	401,101
Massachusetts	1,888,982	3,312,940	954,789	Other States (Calif., Conn., Ind., Ky., Me., Mass., Minn., N. H., Ohio, Pa., Utah, Va., Wash., Wis.)	7,110,311	11,500,817	4,842,636
Other States (Conn., Me., N. H., N. Y., Oreg., Pa., R. I., Utah, Vt., W. Va.)	4,561,732	8,041,171	2,861,625	Horse blankets (Conn., Ind., Me., Mass., N. H., N. Y.)	475,481	394,444	212,209
Overcoatings, total	7,304,526	6,250,886	5,504,959	Upholsteries (except pile fabrics and auto cloths) and draperies (Ky., Me., Mass., R. I.)	1,275,026	2,870,672	2,098,513
Massachusetts	4,729,695	4,130,465	3,669,598	Other woolen and worsted woven goods, except pile fabrics, total	11,639,481	14,017,617	8,180,268
Other States (Conn., Md., N. H., N. J., R. I., Vt.)	2,664,831	2,120,421	1,845,451	Massachusetts	7,319,522	8,160,042	4,180,048
Cap cloths, total	1,103,462	1,590,131	1,319,779	Other States (Conn., Iowa, Me., N. H., N. J., N. Y., N. C., Ohio, Oreg., Pa., R. I., Va., Wash.)	4,319,059	5,800,075	4,041,220
Pennsylvania	545,793	893,207	698,973	Pile fabrics (except women's coatings)—			
Other States (Conn., Ill., Mass., Mo., N. Y., R. I., Vt.)	557,669	786,924	620,806	Mohair (including combinations with wool) (Conn., Me., Mass., N. Y., Pa., R. I.)	36,347,613	31,732,243	54,468,724
Auto cloths (except pile fabrics) (Conn., Me., Mass., Mo., N. H., Pa., R. I.)	4,860,785	6,657,660	3,900,469	Other pile fabrics (Conn., Me., N. Y., Pa.)	458,025	583,468	1,181,794
Other, total	6,423,270	21,081,727	10,580,270	Yarns for sale—			
Massachusetts	3,453,370	15,765,203	7,117,393	Woolen—			
Other States (Conn., Ga., Ill., Ind., Me., Minn., N. H., N. Y., Pa., R. I., Vt.)	2,969,909	5,316,524	3,462,907	All-wool, total	48,835,238		33,905,007
Women's-wear fabrics—				Massachusetts	4,680,483		3,934,173
Woolen, total	31,891,095	50,700,337	56,789,695	Minnesota	112,042		107,912
Dress fabrics and suitings, total	11,158,795	18,515,689	20,203,561	Pennsylvania	32,690,886		19,678,170
Connecticut	79,543	110,448	114,230	Rhode Island	4,126,078		4,416,763
Maine	1,021,264	1,620,728	1,326,733	Other States (Calif., Conn., Ind., Ky., Me., Md., Mich., N. J., N. Y., N. C., Ohio, Vt., W. Va., Wis.)	7,895,949		5,768,984
Massachusetts	5,061,688	7,645,104	7,431,004	Wool and cotton combined, total	6,302,957		3,906,733
New Hampshire	1,725,515	2,800,472	3,189,286	Pennsylvania	2,016,302		1,349,575
New Jersey	1,893,553	3,729,417	5,664,767	Other States (Mass., Mich., N. Y., Ohio, R. I., Vt., Wis.)	4,287,655		2,557,158
Pennsylvania	525,624	1,030,410	1,044,388				
Other States (Calif., N. Y., R. I., Vt.)	851,608	1,570,001	1,438,153				

<sup>1</sup> These figures relate solely to production in the woolen-goods and worsted-goods industries; data for cotton and wool blankets made in the cotton-goods industry are not included. The total production of blankets composed of wool and cotton by all establishments reporting the manufacture of such blankets in 1929 amounted to 58,053,769 square yards, valued at \$10,614,798.

# WOOLEN GOODS AND WORSTED GOODS

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TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, BY STATES: 1929—Continued

[See note at head of this table]

KIND AND STATE	Pounds	Square yards	Value	KIND AND STATE	Pounds	Square yards	Value
Woolen goods and worsted goods, all industries—Continued.				Woolen goods and worsted goods, all industries—Continued.			
Yarns for sale—Continued.				Wool card rolls, batts, and batting, for sale, total.....	704,838		\$661,957
Worsted—				Minnesota.....	91,078		104,692
All-wool, total.....	89,051,646		\$140,264,850	Wisconsin.....	200,833		243,324
Massachusetts.....	24,433,977		36,329,476	Other States (Calif., Ind., Mich., N. Y., N. C., Ohio, Oreg., Pa., Wash.).....	412,927		313,041
New Jersey.....	5,805,145		10,328,670	Tops and slubbing for sale, total.....	14,093,514		15,720,593
New York.....	2,166,364		3,602,556	Pennsylvania.....	1,740,666		1,200,663
Pennsylvania.....	22,723,899		32,543,367	Other States (Ky., Mo., Mass., N. H., N. J., N. Y., R. I.).....	12,256,818		14,429,900
Rhode Island.....	23,982,174		42,516,264	Noils and wool waste, for sale, total.....	46,368,388		15,507,383
Other States (Calif., Conn., Ill., Ky., Mo., N. H., Ohio, Oreg., Wis.).....	9,850,087		14,044,517	Connecticut.....	565,241		45,282
Wool and cotton combined, total.....	2,571,662		3,345,072	Maine.....	1,935,030		314,072
Rhode Island.....	1,174,729		1,614,703	Massachusetts.....	18,664,711		5,670,526
Other States (Me., Mass., Pa.).....	1,396,933		1,730,360	New Jersey.....	4,273,173		1,342,869
Mohair and similar yarns, total.....	12,711,950		18,336,090	New York.....	1,186,407		474,139
Massachusetts.....	4,702,942		7,722,440	Pennsylvania.....	5,683,280		1,811,827
Rhode Island.....	5,675,942		7,892,247	Rhode Island.....	0,676,023		4,410,080
Other States (Conn., Me., N. H., Pa., Tex.).....	2,333,066		2,721,304	Other States (Ill., Ky., Md., Mich., Minn., N. H., N. C., Ohio, Oreg., Tenn., Vt., Wis.).....	4,384,523		1,522,588

TABLE 5.—PRINCIPAL MATERIALS CONSUMED IN THE WOOLEN-GOODS AND WORSTED-GOODS INDUSTRIES, BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES: 1929 AND 1927

[The difference between the sum of the costs of the several kinds of materials shown in this table and the total cost of materials consumed, as given in other tables is due to the fact that this table covers only certain specified materials, whereas the others cover all materials]

KIND	WOOLEN-GOODS INDUSTRY			WORSTED-GOODS INDUSTRY		
	1929		1927	1929		1927
	Cost	Pounds	Pounds	Cost	Pounds	Pounds
Wool:						
In condition in which purchased, total.....	\$73,968,260	139,964,412	139,227,574	\$120,518,987	271,475,254	204,841,100
Domestic.....	53,310,783	84,654,621	91,087,765	85,102,605	100,881,425	184,677,215
Foreign.....	20,597,477	55,309,791	48,139,809	44,416,382	80,593,829	110,163,884
Equivalent in scoured condition.....		106,959,102	105,996,914		148,006,806	131,593,169
Animal hair, total.....	2,860,728	5,672,165	5,562,406	12,893,160	21,003,058	20,440,807
Camel, alpaca, and vicuña.....	1,733,015	1,340,068	770,313	1,690,050	1,066,730	1,211,645
Mohair.....	167,602	201,808	802,731	10,020,971	10,859,568	14,864,889
Other animal hair.....	970,111	4,024,160	3,989,362	1,173,148	3,077,060	4,364,273
Cotton, total.....	3,360,201	10,427,860	18,556,150	999,597	3,730,331	4,200,040
Domestic.....	1,763,753	8,228,065	8,144,720	879,301	3,463,056	3,663,413
Foreign.....	1,602,448	8,199,801	10,411,433	120,296	275,375	626,626
Recovered wool fiber, rags, clippings, etc.....	20,988,218	92,087,436	80,589,300	283,685	915,092	931,614
Tops, purchased, total.....	192,037	175,330	1,918,581	60,512,016	53,222,303	48,009,015
Wool.....	192,037	175,330	( <sup>1</sup> )	57,758,487	40,611,871	44,223,467
Mohair.....			( <sup>1</sup> )	2,753,529	3,610,432	4,086,418
Waste and noils, purchased, total.....	23,201,107	50,927,471	47,710,544	4,243,200	7,695,275	4,277,911
Wool waste and noils.....	20,606,272	44,614,169	42,213,607	3,820,177	6,832,050	4,122,776
Silk waste and noils, and mohair noils.....	2,684,925	6,313,272	5,496,937	414,118	863,216	155,135
Yarns, purchased, total.....	21,480,098	25,906,023	24,356,761	102,862,242	87,606,987	60,070,571
Woolen.....	4,585,145	4,014,600	3,894,879	5,447,188	4,417,505	3,837,485
Worsted.....	8,714,440	4,954,778	5,134,483	61,712,296	38,381,740	34,752,680
Cotton.....	5,300,321	13,588,972	12,025,489	12,556,777	29,360,958	10,540,897
Rayon.....	1,022,955	959,171	735,164	3,675,845	2,523,187	788,748
Thrown and spun silk.....	331,581	87,438	405,327	5,106,203	1,073,380	1,401,847
Mohair.....	10,487	5,060	( <sup>2</sup> )	10,192,340	7,577,380	( <sup>2</sup> )
Other.....	1,428,100	2,295,714	2,164,410	4,201,584	4,266,747	8,640,908

<sup>1</sup> Not shown separately to avoid disclosing the consumption by individual establishments.  
<sup>2</sup> Not called for on schedule.

## CENSUS OF MANUFACTURES: 1929

TABLE 6.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925: QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929; FOR THE INDUSTRIES

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSEPOWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
<b>WOOLEN GOODS</b>												
Prime movers and electric motors driven by purchased energy, aggregate.....	13,290	Horse-power 195,247	8,439	Horse-power 191,703	7,691	Horse-power 193,080	4,265	Horse-power 172,191	( <sup>1</sup> )	Horse-power 133,052	100.0	100.0
Prime movers, total.....	655	119,734	707	130,645	853	135,936	957	133,781	( <sup>1</sup> )	121,825	61.3	77.7
Steam, total.....	315	80,671	340	83,107	378	87,800	451	85,400	( <sup>1</sup> )	70,950	41.3	49.7
Engines.....	281	58,847	325	65,550	344	66,080	436	74,876	( <sup>2</sup> )	( <sup>2</sup> )	30.1	-----
Turbines.....	34	21,824	24	17,038	34	21,120	15	10,623	( <sup>2</sup> )	( <sup>2</sup> )	11.2	-----
Internal-combustion engines.....	15	1,592	12	1,578	18	1,773	39	1,577	( <sup>1</sup> )	1,777	0.8	0.9
Water wheels and water turbines.....	325	37,471	406	45,870	457	40,407	467	46,705	( <sup>1</sup> )	43,089	10.2	27.1
Electric motors driven by purchased energy.....	12,035	75,513	7,672	61,058	6,838	57,094	3,308	38,410	( <sup>1</sup> )	11,227	38.7	22.3
Electric motors, total.....	20,003	132,062	14,535	115,785	14,566	112,175	5,634	64,201	( <sup>1</sup> )	23,861	100.0	100.0
Driven by purchased energy.....	12,035	75,513	7,672	61,058	6,838	57,094	3,308	38,410	( <sup>1</sup> )	11,227	57.2	59.8
Driven by energy generated in establishments reporting.....	8,068	56,549	6,863	54,727	7,728	55,081	2,326	25,791	( <sup>1</sup> )	12,634	42.8	40.2
Electric generators.....	269	Kilowatts 48,837 Kilowatt-hours 92,599,317	252	Kilowatts 43,418	293	Kilowatts 45,855	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	-----	-----
Electric energy purchased.....				( <sup>4</sup> )		( <sup>4</sup> )		( <sup>4</sup> )		( <sup>4</sup> )	-----	-----
<b>WORSTED GOODS</b>												
Prime movers and electric motors driven by purchased energy, aggregate.....	15,389	Horse-power 372,536	10,287	Horse-power 364,422	12,353	Horse-power 377,215	4,685	Horse-power 294,028	( <sup>1</sup> )	Horse-power 242,521	100.0	100.0
Prime movers, total.....	438	275,772	509	283,882	598	300,051	661	256,159	( <sup>1</sup> )	230,726	74.0	87.1
Steam, total.....	335	239,455	399	255,286	380	264,989	500	226,467	( <sup>1</sup> )	200,520	64.3	77.0
Engines.....	219	76,421	257	81,229	266	98,876	433	123,393	( <sup>2</sup> )	( <sup>2</sup> )	20.5	-----
Turbines.....	116	163,034	142	174,057	114	166,113	78	103,074	( <sup>2</sup> )	( <sup>2</sup> )	43.8	-----
Internal-combustion engines.....	5	7,232	1	36	1	36	6	216	( <sup>1</sup> )	675	1.0	0.1
Water wheels and water turbines.....	93	29,085	100	28,500	127	36,026	140	29,476	( <sup>1</sup> )	29,531	7.8	10.0
Electric motors driven by purchased energy.....	14,951	96,764	9,778	80,540	11,845	77,164	4,024	37,869	( <sup>1</sup> )	11,795	26.0	12.9
Electric motors, total.....	40,041	320,975	32,370	264,324	32,525	252,400	12,209	166,919	( <sup>1</sup> )	115,535	100.0	100.0
Driven by purchased energy.....	14,951	96,764	9,778	80,540	11,845	77,164	4,024	37,869	( <sup>1</sup> )	11,795	29.3	22.7
Driven by energy generated in establishments reporting.....	25,090	233,211	22,592	183,784	20,680	175,236	8,275	129,050	( <sup>1</sup> )	103,740	70.7	77.3
Electric generators.....	270	Kilowatts 175,177 Kilowatt-hours 118,808,357	277	Kilowatts 183,126	310	Kilowatts 181,052	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	-----	-----
Electric energy purchased.....				( <sup>4</sup> )		( <sup>4</sup> )		( <sup>4</sup> )		( <sup>4</sup> )	-----	-----

<sup>1</sup> No data.

<sup>2</sup> Not called for separately on schedule.

<sup>3</sup> Not called for on schedule.

<sup>4</sup> This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.

<sup>5</sup> Data incomplete.

WOOLEN GOODS AND WORSTED GOODS

TABLE 7.—WAGE EARNERS, BY MONTHS, FOR THE INDUSTRIES, FOR THE UNITED STATES, 1920, 1925, 1919, AND 1914, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Percent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
<b>WOOLEN GOODS</b>														
United States:														
1920.....	58,474	60,482	60,485	60,387	61,439	61,215	<b>61,764</b>	60,883	57,978	57,082	57,518	52,100	<i>51,200</i>	83.0
1925.....	67,056	72,049	70,239	69,577	68,553	68,288	67,071	65,007	<i>63,322</i>	64,532	64,843	65,944	65,242	87.0
1919.....	62,037	52,063	47,872	50,508	58,242	63,030	60,442	68,038	60,131	60,571	60,428	70,129	70,374	68.0
1914.....	40,165	48,401	40,267	51,141	61,490	61,403	50,763	48,228	<i>46,685</i>	48,512	48,207	47,420	48,432	90.5
California.....	370	413	378	<i>301</i>	330	361	384	374	402	396	402	340	340	72.0
Connecticut.....	5,367	5,681	5,398	5,541	5,821	5,727	5,733	5,440	5,116	<i>4,808</i>	5,085	4,908	4,947	82.5
Illinois.....	340	366	337	354	366	354	342	364	357	326	310	<i>292</i>	313	70.8
Indiana.....	635	791	730	733	726	<i>351</i>	582	603	608	614	651	654	636	47.5
Maine.....	6,526	6,721	6,461	6,522	7,325	7,200	7,279	6,772	6,109	6,158	6,437	5,096	<i>5,654</i>	76.0
Maryland.....	505	530	571	593	594	583	584	568	548	448	435	<i>205</i>	341	44.0
Massachusetts.....	15,711	15,707	15,986	16,346	16,500	17,321	17,219	16,712	16,350	15,701	15,037	12,708	<i>12,708</i>	73.4
Michigan.....	955	968	906	1,050	1,001	1,004	971	928	951	971	948	930	730	70.4
Minnesota.....	410	431	434	426	410	407	403	413	422	401	405	397	<i>371</i>	85.5
New Hampshire.....	4,040	4,250	4,490	4,213	4,075	4,005	4,210	3,911	3,892	4,015	4,270	<i>3,601</i>	3,725	78.0
New Jersey.....	1,004	1,584	1,795	1,949	1,982	2,023	1,977	1,940	1,955	1,988	1,991	1,847	1,711	83.2
New York.....	2,358	2,396	2,420	2,420	2,423	2,424	2,475	2,405	2,384	2,380	2,400	2,235	<i>1,932</i>	78.1
North Carolina.....	1,104	1,116	1,125	1,134	1,128	1,093	1,084	1,114	1,124	1,137	1,123	<i>950</i>	1,143	81.0
Ohio.....	606	568	592	678	<i>538</i>	571	555	601	620	604	702	680	595	76.6
Oregon.....	977	1,001	801	982	1,005	973	901	988	1,022	887	972	1,000	998	80.8
Pennsylvania.....	6,231	6,330	6,351	6,317	6,141	6,080	<i>5,958</i>	6,158	6,145	6,303	6,504	6,290	6,124	91.0
Rhode Island.....	2,919	3,488	3,495	2,980	3,171	3,192	3,328	3,221	2,415	<i>2,592</i>	2,580	2,438	2,382	67.7
Tennessee.....	1,638	1,612	<i>1,546</i>	1,607	1,641	1,678	1,691	1,680	1,664	1,640	1,662	1,630	1,595	91.4
Vermont.....	1,409	1,614	1,735	1,600	1,573	1,478	1,539	1,438	1,456	1,394	1,460	1,362	<i>1,278</i>	73.7
Virginia.....	1,033	1,104	968	1,020	1,025	1,016	1,015	1,004	972	945	1,047	1,007	<i>913</i>	82.7
West Virginia.....	779	772	878	894	868	910	915	854	856	908	819	827	<i>481</i>	62.0
Wisconsin.....	852	1,110	1,054	947	957	982	740	<i>605</i>	778	720	813	823	918	69.0
<b>WORSTED GOODS</b>														
United States:														
1923.....	88,485	80,350	90,960	89,911	87,950	80,423	87,805	86,206	87,718	80,672	91,189	87,101	<i>84,346</i>	92.6
1925.....	98,168	107,574	105,849	100,702	95,719	90,977	<i>88,284</i>	80,439	93,780	96,007	100,247	104,087	104,448	82.1
1919.....	103,830	88,631	<i>67,439</i>	73,916	91,796	101,375	111,621	110,598	117,664	119,097	116,640	118,637	122,465	55.1
1914.....	109,527	106,861	109,448	112,715	113,676	113,263	112,862	108,235	107,010	100,330	111,730	108,597	<i>100,681</i>	88.5
Connecticut.....	3,032	3,080	3,725	4,078	4,101	4,179	4,203	4,354	4,460	4,433	3,820	3,187	<i>2,850</i>	63.9
Maine.....	3,056	4,263	4,178	3,983	4,162	3,882	3,707	<i>3,056</i>	3,710	3,852	3,973	3,706	4,352	83.5
Massachusetts.....	20,962	30,273	31,676	31,349	29,367	31,350	30,359	29,241	20,068	30,554	30,925	28,473	<i>26,608</i>	84.0
New Jersey.....	7,293	7,205	7,665	7,227	7,316	7,258	<i>7,044</i>	7,044	7,501	7,452	7,462	7,162	7,180	91.9
New York.....	3,652	3,719	<i>3,686</i>	3,908	3,850	3,983	3,771	3,802	4,020	4,011	4,126	4,255	4,172	86.6
Pennsylvania.....	10,692	10,929	10,650	10,607	10,563	10,575	10,591	10,615	10,856	10,884	11,066	10,787	<i>10,169</i>	91.9
Rhode Island.....	21,216	21,244	21,598	21,353	21,133	20,743	20,597	<i>20,453</i>	21,023	21,346	22,177	21,824	21,125	92.1

## CARPETS AND RUGS, WOOL, OTHER THAN RAG

Description of the industry.—This industry classification covers the manufacture of carpets and rugs (not including those made of rags) in which wool is one of the principal materials used. Such carpets and rugs are usually made with a jute, cotton, or linen back.

(The manufacture of rag carpets and rugs is classified as a separate industry under the designation "Carpets and rugs, rag"; and jute carpets and rugs are included among the products of the "Jute goods" industry.)

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

YEAR OF PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>	Horsepower
1929	07	32,623	\$40,014,207	\$86,650,892	\$176,915,364	\$90,264,472	65,205
1927	65	32,829	42,040,892	85,601,835	106,888,408	81,286,573	65,828
1925	69	33,886	43,382,517	104,195,024	187,778,772	83,583,148	63,068
1923	79	35,217	48,528,430	97,472,644	199,480,623	102,007,979	53,852
1921	72	22,922	28,705,036	50,118,134	103,880,500	53,702,360	(3)
1919	75	22,933	24,216,121	67,118,030	123,263,828	56,135,789	37,593
1914	97	31,300	14,715,615	42,280,223	69,128,185	26,847,062	42,794
1909	130	33,307	16,536,050	30,563,004	71,188,162	31,625,148	37,194
1904	130	33,221	13,724,233	37,947,954	61,586,433	23,638,479	32,970
1899	133	28,411	11,121,383	27,228,719	48,192,351	20,903,032	20,271
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929	(3)	-0.6	-4.8	-1.2	6.0	11.0	-0.9
1925-1927	(3)	-3.1	-3.1	-17.8	-11.1	-2.7	4.5
1923-1925	(3)	-3.8	-10.0	6.9	-5.9	-18.1	17.0
1921-1923	(3)	53.6	69.1	94.5	92.0	89.7	-----
1919-1921	(3)	(3)	18.5	-25.3	-15.7	-4.2	-----
1919-1929	(3)	42.3	65.2	29.1	43.5	60.8	73.4
1909-1919	-40.0	-31.1	55.9	69.0	73.1	77.5	1.1
1899-1909	4.5	17.2	39.7	45.3	47.7	50.9	41.0

<sup>1</sup> The figures for all years refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products.

<sup>2</sup> Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

<sup>3</sup> Not called for on schedule.

<sup>4</sup> Per cent not computed where base is less than 100.

<sup>5</sup> Less than one-tenth of 1 per cent.

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments]

STATE	Census year	Number of establishments	Salaried officers and employees <sup>1</sup>	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
					Total	Prime movers	Motors run by purchased energy			Total	Materials	Fuel and purchased energy		
United States	1929	07	2,418	32,623	65,205	41,003	24,202	\$7,359,683	\$40,014,207	\$86,650,892	\$84,420,991	\$2,229,901	\$176,915,364	\$90,264,472
	1927	65	1,784	32,829	65,828	45,045	19,839	5,416,434	42,040,892	85,601,835	83,265,796	2,336,039	106,888,408	81,286,573
	1919	75	1,268	22,933	37,593	31,069	4,624	4,749,784	24,216,121	67,118,030	66,390,376	1,727,663	123,263,828	56,135,789
Massachusetts	1929	9	228	4,297	8,171	6,000	2,171	763,633	5,105,113	9,922,493	9,648,536	273,957	22,040,332	12,117,839
	1927	10	371	4,473	10,771	8,643	2,128	820,466	5,012,874	10,637,977	10,320,774	317,203	22,680,243	12,042,200
	1919	10	225	3,134	6,132	5,395	737	740,712	3,145,512	8,021,376	7,746,326	275,050	13,563,090	5,572,614
New York	1929	11	1,109	14,926	21,827	18,138	3,689	3,107,153	17,715,750	32,184,626	31,299,699	884,927	67,580,359	35,404,833
	1927	9	480	15,190	24,805	17,736	7,129	1,485,249	10,891,062	32,744,913	31,763,117	901,796	67,780,146	35,044,232
	1919	10	364	9,073	15,281	10,637	4,644	1,405,687	10,083,498	23,430,006	22,705,598	673,407	48,717,885	25,278,880
Pennsylvania	1929	32	685	6,904	16,545	7,070	9,475	2,412,325	9,179,105	23,803,680	23,228,424	575,156	45,557,834	21,754,254
	1927	36	611	7,678	10,171	9,007	1,007	2,144,659	10,277,504	27,089,952	26,468,816	621,136	40,707,789	19,617,787
	1919	48	625	7,626	12,446	11,222	1,224	1,693,863	7,970,547	27,532,169	26,960,532	571,637	47,470,830	19,947,661
Other States	1929	15	396	6,496	18,602	9,795	8,867	1,076,672	7,924,230	20,740,293	20,244,332	495,961	41,727,839	20,987,546
	1927	10	322	5,482	10,924	9,395	1,529	960,160	6,760,852	15,128,993	14,723,089	405,904	29,711,281	14,582,268
	1919	7	154	3,100	4,311	3,816	496	909,522	3,010,564	8,125,489	7,917,920	207,569	13,462,123	5,336,634

<sup>1</sup> Not including proprietors and firm members, as follows: For 1929, 10; 1927, 9; 1919, 50. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 35,051; 1927, 34,622; 1919, 24,251.

<sup>2</sup> The figures for all years refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products.

<sup>3</sup> Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

<sup>4</sup> Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919 but not in the United States totals.

<sup>5</sup> Connecticut, 1 establishment; Minnesota, 2; New Jersey, 8; North Carolina, 1; Ohio, 1; Wisconsin, 2.

<sup>6</sup> Connecticut, 1 establishment; New Jersey, 6; North Carolina, 1; Wisconsin, 2.

<sup>7</sup> Connecticut, 1 establishment; New Jersey, 6; Wisconsin, 1.

# CARPETS AND RUGS, WOOL, OTHER THAN RAG

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**TABLE 3.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1923 TO 1929**

[The figures for all census years refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products]

KIND	1929		1927		1925		1923	
	Square yards	Value	Square yards	Value	Square yards	Value	Square yards	Value
1. Wool-carpet and rug industry, all products, total value.....		\$176, 916, 364		\$166, 888, 468		\$187, 778, 772		\$199, 480, 623
2. Wool carpets and rugs.....		174, 007, 066		163, 217, 310		181, 884, 180		192, 157, 473
3. Other products (not normally belonging to the industry).....		2, 810, 634		3, 671, 098		5, 894, 586		7, 323, 150
4. Receipts for contract work.....		30, 766						
5. Wool carpets and rugs made as secondary products in other industries, value.....		218, 310		71, 951		150, 572		257, 651
Wool carpets and rugs, all industries: Aggregate value (sum of 2 and 5).....	73, 410, 821	174, 280, 275	67, 232, 813	163, 280, 261		182, 034, 758		192, 415, 124
Carpets, total.....	27, 385, 080	61, 787, 720	16, 872, 436	40, 777, 584	21, 859, 377	40, 023, 024	21, 722, 706	51, 524, 376
Axminster.....	6, 879, 749	14, 766, 054	2, 044, 142	7, 572, 028	4, 592, 047	9, 814, 060	4, 285, 204	11, 531, 050
Wilton.....	4, 299, 576	16, 763, 837	3, 705, 808	15, 093, 470	3, 399, 606	15, 463, 082	2, 815, 605	13, 634, 200
Brussels.....	119, 613	644, 791	20, 199	69, 837	25, 467	71, 084	52, 693	160, 157
Tapestry velvet.....	13, 550, 709	20, 193, 064	0, 954, 883	14, 101, 133	8, 824, 725	17, 128, 500	7, 807, 710	17, 796, 584
Tapestry Brussels.....	1, 280, 442	1, 335, 489	1, 644, 222	1, 504, 918	1, 271, 956	1, 310, 210	1, 322, 213	1, 663, 254
Ingrain.....	259, 289	164, 686	265, 000	218, 255	810, 502	653, 111	693, 404	622, 821
Other.....	1, 055, 702	1, 918, 305	1, 217, 573	2, 217, 343	2, 025, 005	4, 575, 431	4, 655, 690	6, 876, 049
Rugs made of sewed strips, total.....	3, 719, 990	14, 410, 040	9, 339, 709	35, 196, 388	14, 264, 113	53, 027, 772	17, 043, 379	65, 104, 745
Wilton.....	2, 030, 388	10, 778, 432	4, 492, 830	23, 765, 650	5, 933, 825	35, 804, 247	6, 633, 663	30, 608, 039
Other.....	1, 689, 602	3, 631, 608	4, 846, 879	11, 430, 738	8, 330, 288	17, 763, 525	11, 309, 716	28, 435, 806
Rugs, woven whole, total.....	42, 305, 751	98, 088, 509	41, 020, 668	87, 465, 280	36, 065, 691	70, 383, 362	43, 915, 363	75, 789, 001
Sheen type.....	1, 659, 827	12, 715, 594	(1)	(1)	(1)	(1)	(1)	(1)
Other than sheen type.....	40, 648, 924	85, 372, 915	(1)	(1)	(1)	(1)	(1)	(1)
Axminster.....	20, 716, 175	44, 810, 794	19, 048, 377	44, 959, 296	15, 980, 446	38, 153, 246	9, 566, 761	22, 235, 242
Wilton.....	5, 022, 841	25, 046, 009	1, 977, 091	10, 000, 143	1, 489, 222	6, 073, 597	1, 090, 706	4, 791, 655
Tapestry velvet.....	7, 545, 532	14, 066, 139	9, 386, 064	18, 879, 326	8, 877, 877	19, 820, 145	9, 826, 709	20, 224, 299
Tapestry Brussels.....	3, 453, 194	3, 526, 299	5, 152, 628	5, 595, 295	4, 087, 063	6, 257, 948	11, 638, 584	15, 040, 615
Chenille.....	546, 340	3, 393, 860	329, 170	2, 747, 794	437, 415	3, 828, 730	532, 394	4, 367, 333
Wool and paper fiber (mixed).....	980, 653	829, 803	1, 335, 734	1, 073, 045	1, 849, 949	1, 589, 198	6, 019, 567	3, 078, 228
All paper, warp and filling.....	2, 922, 284	1, 798, 949	2, 020, 493	2, 047, 262				
Other.....	1, 199, 732	3, 806, 665	869, 065	2, 190, 628	2, 785, 949	3, 669, 582	4, 024, 640	5, 148, 798

<sup>1</sup> Not reported separately.

**TABLE 4.—PRINCIPAL MATERIALS CONSUMED IN THE WOOL-CARPET AND RUG INDUSTRY, BY KIND, QUANTITY, AND COST, 1929, AND BY KIND AND QUANTITY, 1927 AND 1925**

[The differences between the sums of the costs of the several kinds of materials shown in this table and the total costs of materials as given in Tables 1 and 2 are due to the fact that this table covers only certain specified materials, whereas the others cover all materials]

KIND	1929		1927		1925		KIND	1929		1927		1925	
	Cost	Pounds	Pounds	Pounds	Pounds	Pounds		Cost	Pounds	Pounds	Pounds	Pounds	Pounds
Wool (principally foreign): <sup>1</sup>							Yarns, purchased:						
In condition in which purchased.....	\$27, 878, 181	95, 769, 001	88, 159, 995	85, 625, 307			Woolen.....	\$23, 244, 298	37, 691, 080	27, 682, 593	29, 833, 627		
Equivalent in scoured condition.....		66, 220, 562	57, 122, 806	60, 551, 610			Worsted.....	3, 249, 057	3, 099, 094	7, 274, 158	9, 002, 232		
Animal hair.....	794, 015	3, 980, 899	2, 587, 650	2, 854, 382			Cotton.....	8, 590, 036	28, 401, 754	25, 688, 094	25, 296, 097		
Cotton.....	1, 479, 140	8, 545, 263	7, 704, 876	11, 131, 462			Jute.....	12, 750, 890	89, 484, 021	67, 621, 080	89, 673, 475		
Waste and noils, purchased.....	1, 003, 867	3, 951, 052	3, 987, 873	3, 482, 888			Linen.....	122, 281	350, 078	250, 851	933, 499		
							Paper.....	630, 091	7, 699, 239	8, 139, 830	(1)		
							Other yarns.....	308, 098	1, 046, 900	1, 026, 683	4, 692, 329		

<sup>1</sup> Statistics for domestic and for foreign wool can not be given separately without disclosing data for individual establishments.

<sup>2</sup> No data.

## CENSUS OF MANUFACTURES: 1929

TABLE 5.—POWER LOOMS, ACTIVE AND IDLE, BY KIND AND NUMBER, FOR THE WOOL-CARPET AND RUG INDUSTRY, FOR THE UNITED STATES: 1929, 1927, AND 1925

[This table does not include data for looms used on goods other than carpets and rugs by establishments engaged primarily in weaving carpets and rugs, as follows: 1929, 91; 1927, 433; 1925, 430. These figures are totals for active and idle looms]

KIND	NUMBER							KIND	NUMBER						
	1929			1927			1925 <sup>3</sup>		1929			1927			1925 <sup>3</sup>
	Total	Ac- tive <sup>1</sup>	Idle <sup>2</sup>	Total	Ac- tive <sup>1</sup>	Idle <sup>2</sup>			Total	Ac- tive <sup>1</sup>	Idle <sup>2</sup>	Total	Ac- tive <sup>1</sup>	Idle <sup>2</sup>	
Carpet and rug looms, total.....	10,267	8,078	2,189	9,080	8,009	1,971	10,288	Wilton.....	2,672	2,204	468	2,827	2,306	431	2,771
Ingrain.....	391	297	94	313	193	120	414	Axminster.....	3,161	2,452	709	3,111	2,533	578	3,576
Broad ingrain.....	92	62	30	104	78	26	180	Smyrna.....	260	106	150	232	109	123	337
Tapestry Brussels and vel- vet.....	2,406	2,024	472	2,697	2,152	545	2,293	Chenille.....	578	445	133	304	139	115	435
Body Brussels.....	17	17		17	17		18	Other.....	604	471	133	375	342	33	285

<sup>1</sup> Active at any time within year.<sup>2</sup> Idle throughout entire year.<sup>3</sup> Active and idle looms were not separately reported for 1925.

TABLE 6.—POWER LOOMS, ACTIVE AND IDLE, BY KIND AND NUMBER, FOR THE WOOL-CARPET AND RUG INDUSTRY, BY STATES: 1929

[This table does not include data for 91 looms (active and idle) used on goods other than carpets and rugs by establishments engaged primarily in weaving carpets and rugs]

KIND	United States	Connecticut	Massachusetts	New Jersey	New York	Pennsylvania	Other States <sup>1</sup>	KIND	United States	Connecticut	Massachusetts	New Jersey	New York	Pennsylvania	Other States <sup>1</sup>
	ACTIVE AT ANY TIME WITHIN THE YEAR								IDLE THROUGHOUT THE YEAR						
Carpet and rug looms, total.....	8,078	539	1,331	449	2,775	2,801	183	Carpet and rug looms, total.....	2,189	157	80	98	1,060	761	
Carpet looms, total.....	3,304	186	573	155	873	1,570	31	Carpet looms, total.....	862	21		41	332	468	
Ingrain.....	115				0	106		Ingrain.....	24					24	
Broad ingrain.....	19				19			Broad ingrain.....	16					16	
Tapestry Brussels and tapes- try velvet.....	1,230	186	87	32	240	694		Tapestry Brussels and tapes- try velvet.....	282	21		14	148	90	
Body Brussels.....	15		10		5			Wilton.....	38			5		33	
Wilton.....	724		286	65		373		Axminster.....	404			22	184	198	
Axminster.....	1,099		190	58	614	237		Other.....	98					98	
Smyrna.....	31						31	Rug looms, total.....	1,327	136	80	57	758	293	3
Chenille.....	10				10			Ingrain.....	70		59			11	
Other.....	142						142	Broad ingrain.....	14					14	
Rug looms, total.....	4,684	353	758	294	1,902	1,225	152	Tapestry Brussels and tapes- try velvet.....	190			27	163		
Ingrain.....	182		155			27		Wilton.....	430	64		23	243	100	
Broad ingrain.....	43					43		Axminster.....	395	72		7	147	79	
Tapestry Brussels and tapes- try velvet.....	785		16	33	567	109		Smyrna.....	150				90	60	
Body Brussels.....	2							Chenille.....	183				112	20	1
Wilton.....	1,480	149	313	186	280	552		Other.....	35		21		3	9	2
Axminster.....	1,353	204	122	75	736	201	15								
Smyrna.....	75				59	16									
Chenille.....	435		4		238	170	23								
Other.....	329		146		22	47	114								

<sup>1</sup> Minnesota: 34 active Smyrna carpet looms and 14 active chenille rug looms.

North Carolina: 15 active Axminster and 32 active "Other" rug looms.

Ohio: 9 active and 1 idle chenille rug looms.

Wisconsin: 82 active and 2 idle "Other" rug looms.

TABLE 7.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSEPOWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
Prime movers and electric motors driven by purchased energy, aggregate	4,223	Horse-power 65,205	3,974	Horse-power 65,829	3,111	Horse-power 63,008	783	Horse-power 37,593	747	Horse-power 42,704	100.0	100.0
Prime movers, total	87	41,003	90	45,945	96	45,608	100	31,060	146	33,635	62.9	82.6
Steam, total	75	30,450	86	44,125	84	44,108	87	28,777	121	20,486	60.5	76.5
Engines	55	17,010	63	21,330	63	22,210	77	22,952	(1)	(1)	20.1	61.1
Turbines	20	22,440	23	22,780	21	21,880	10	5,825	(1)	(1)	34.4	15.5
Internal-combustion engines	1	45	2	44	3	40	2	85	2	19	0.1	0.2
Water wheels and water turbines	11	1,508	11	1,776	9	1,511	11	2,207	23	4,130	2.3	5.9
Electric motors driven by purchased energy	4,130	24,202	3,875	19,883	3,015	17,340	688	6,524	601	9,160	37.1	17.4
Electric motors, total	8,506	60,415	9,506	111,284	8,201	53,985	3,045	24,530	2,472	25,251	100.0	100.0
Driven by purchased energy	4,130	24,202	3,875	19,883	3,015	17,340	688	6,524	601	9,159	40.1	29.6
Driven by energy generated in establishments reporting	4,370	36,213	5,631	91,401	5,186	36,645	2,357	18,012	1,871	16,092	59.9	73.4
Electric generators	59	Kilowatts 25,627	71	Kilowatts 25,385	72	Kilowatts 25,543	(1)	(1)	(1)	(1)		
Electric energy purchased <sup>1</sup>		Kilowatt-hours 10,393,703		(1)		(1)		(1)		(1)	*	

<sup>1</sup> Not called for separately on schedule.  
<sup>2</sup> Not called for on schedule.  
<sup>3</sup> This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.  
<sup>4</sup> Data incomplete.

TABLE 8.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, 1914, AND 1909, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

State	Average number employed during year	Number employed on 15th day of month or nearest representative day												Per cent minimum is of maximum	
		January	February	March	April	May	June	July	August	September	October	November	December		
United States:															
1929	32,623	32,004	33,238	33,404	33,412	33,170	32,730	31,960	31,572	32,109	33,548	33,836	<b>20,597</b>	80.8	
1925	33,880	35,403	35,736	35,625	34,120	34,220	33,782	32,787	<b>52,605</b>	32,518	32,524	33,283	33,426	90.5	
1919	22,633	<i>15,622</i>	18,681	19,374	20,792	22,443	23,596	24,421	25,011	24,398	25,300	25,001	<b>26,602</b>	70.3	
1914	31,309	33,021	33,160	33,175	32,041	32,902	31,472	29,202	29,862	30,202	30,843	30,032	<b>29,240</b>	88.1	
1909	33,307	33,312	33,603	33,313	<i>32,719</i>	32,535	33,185	33,297	33,337	33,402	33,082	33,397	<b>34,067</b>	96.0	
Massachusetts	4,207	4,463	4,437	4,612	4,631	4,584	4,553	4,206	3,650	4,053	3,994	4,036	<b>3,836</b>	85.0	
New York	14,026	15,479	15,592	15,624	15,397	15,012	14,731	14,022	14,507	14,685	15,715	15,866	<b>11,976</b>	75.5	
Pennsylvania	6,904	7,116	7,195	7,151	7,054	7,076	6,878	6,595	<i>6,498</i>	6,722	6,960	6,975	<b>6,653</b>	90.3	

## FELT GOODS, WOOL, HAIR, OR JUTE

Description of the industry.—This industry classification is applied to textile mills whose principal products are felt goods (not including wool-felt hats) made of wool, hair, or jute, either by weaving or by felting without weaving. In the latter process heat, moisture, and pressure are employed.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>	Horsepower
1929	54	5,540	\$7,531,298	\$26,223,967	\$45,465,823	\$10,241,856	25,055
1927	50	5,452	6,653,147	23,289,338	41,894,844	18,605,608	23,479
1925	50	5,146	6,403,687	26,354,123	43,775,018	17,421,495	23,478
1923	53	5,735	6,634,964	23,894,034	42,036,964	18,142,330	20,522
1921	49	4,180	4,625,883	11,232,119	24,129,890	12,897,271	(3)
1919	49	5,236	4,873,490	22,780,775	39,229,540	16,448,765	16,411
1914	53	4,035	2,089,243	8,308,270	13,692,765	5,384,495	14,619
1909	43	3,544	1,711,880	6,987,206	11,852,626	4,885,420	11,233
1904	39	3,254	1,356,754	5,754,026	8,948,694	3,194,568	9,766
1899	36	2,688	1,024,835	3,801,028	6,461,661	2,660,663	7,841
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929	(4)	1.6	13.2	12.6	8.5	3.4	9.3
1925-1927	(4)	5.9	3.9	-11.6	-4.3	6.8	(5)
1923-1925	(4)	-10.3	-3.5	10.3	4.1	-4.0	14.4
1921-1923	(4)	37.2	43.4	112.7	74.2	40.7	
1919-1921	(4)	-20.2	-6.1	-50.7	-38.5	-21.6	
1919-1929	(5)	5.8	54.5	15.1	15.9	17.0	56.3
1909-1919	(5)	47.7	184.7	227.0	231.0	236.7	46.1
1899-1909	(4)	31.8	67.0	83.8	83.4	83.6	43.3

<sup>1</sup> The figures refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products.  
<sup>2</sup> Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.  
<sup>3</sup> Not called for on schedule.  
<sup>4</sup> Per cent not computed where base is less than 100.  
<sup>5</sup> Less than one-tenth of 1 per cent.

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

(This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups)

STATE	Census year	Number of establishments	Salaried officers and employees <sup>1</sup>	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
					Total	Prime movers	Motors run by purchased energy			Total	Materials	Fuel and purchased energy		
United States	1929	54	637	5,540	25,055	11,196	14,459	\$2,500,180	\$7,531,298	\$26,223,967	\$25,384,953	\$830,014	\$45,465,823	\$10,241,856
	1927	50	555	5,452	23,479	11,797	11,682	2,201,898	6,653,147	23,289,338	22,435,023	854,315	41,894,844	18,605,608
	1919	49	690	5,236	10,411	12,175	4,236	2,007,342	4,873,490	22,780,775	22,165,136	625,639	39,229,540	16,448,765
Individual States:														
Connecticut	1929	4	36	213	1,801	865	936	132,190	312,164	1,235,415	1,174,381	61,034	1,839,846	604,431
	1927	4	34	309	1,888	780	603	153,872	360,601	1,498,347	1,421,572	76,775	2,182,222	683,875
	1919	3	44	334	1,007	825	272	140,741	304,621	1,470,134	1,421,122	40,012	2,528,676	1,058,542
Massachusetts	1929	15	104	893	5,095	1,633	3,462	362,131	1,158,018	4,785,092	4,579,433	205,659	7,696,058	2,910,966
	1927	13	121	940	5,251	2,030	3,221	388,732	1,188,959	5,181,063	4,932,707	248,356	8,470,933	3,280,870
	1919	15	223	1,086	5,243	2,951	2,292	507,093	1,154,905	6,039,710	6,421,600	218,020	10,286,361	3,646,651
New York	1929	10	240	1,858	8,550	2,763	5,787	1,031,913	2,620,437	6,802,400	6,582,082	220,318	14,170,008	7,367,608
	1927	11	195	1,956	7,828	2,814	5,014	954,241	2,411,800	6,840,440	6,621,349	228,091	13,736,490	6,887,050
	1919	10	152	1,401	5,167	4,867	300	611,650	1,404,655	6,512,938	6,370,203	142,730	10,694,583	4,181,650
Groups of States:														
Ill., 2 est.; Ohio, 2	1929	4	95	1,025	2,330	2,200	130	442,369	1,234,973	3,828,212	3,763,966	64,246	6,725,187	2,896,975
Mo., 2 est.; N. H., 1;														
R. I., 2	1929	6	25	436	2,073	1,330	743	112,440	517,598	1,460,061	1,417,783	42,278	2,736,483	1,276,422
N. J., 5 est.; Pa., 4;														
Va., 1	1929	10	77	730	2,921	1,315	1,606	242,122	1,068,143	4,262,039	4,087,428	174,611	6,992,700	2,730,670
Other States (Calif.,														
2 est.; Mich., 1;														
Wis., 3)	1929	6	51	415	2,885	1,090	1,795	183,021	613,905	3,850,748	3,779,880	70,868	5,305,532	1,454,784
States not shown separately	1927	22	204	2,247	9,017	6,173	2,844	705,053	2,682,607	9,760,488	9,460,305	301,093	17,505,199	7,744,711
	1919	21	271	2,415	4,904	3,532	1,372	837,852	2,009,309	8,157,998	7,942,121	215,877	15,719,920	7,661,922

<sup>1</sup> Not including proprietors and firm members, as follows: For 1929, 8; 1927, 7; 1919, 8. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 6,185; 1927, 6,014; 1919, 5,934.  
<sup>2</sup> The figures for all years refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products.  
<sup>3</sup> Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.  
<sup>4</sup> California, 1 establishment; Illinois, 1; Maine, 2; Michigan, 1; New Hampshire, 1; New Jersey, 5; Ohio, 3; Pennsylvania, 3; Rhode Island, 2; Virginia, 1; Wisconsin, 2.  
<sup>5</sup> California, 1 establishment; Illinois, 1; Maine, 2; Michigan, 1; Missouri, 1; New Jersey, 6; Ohio, 2; Pennsylvania, 4; Rhode Island, 1; Wisconsin, 2.

# FELT GOODS, WOOL, HAIR, OR JUTE

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**TABLE 3.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1929<sup>1</sup>**

[These figures refer to production, not sales. See GENERAL EXPLANATION—Value of Products]

KIND	1929		KIND	1929	
	Pounds	Value		Pounds	Value
1. Felt-goods industry, all products, total value.....		\$45,405,823	Felt goods, all industries—Continued.		
2. Felt goods.....		41,793,807	Felt cloths—Continued.		
3. Other products (not normally belonging to the industry).....		3,558,484	Laundry-machine felts.....	382,738	\$488,058
4. Receipts for contract work.....		113,532	Other woven felts.....	862,374	1,924,441
5. Felt goods made as secondary products in other industries, value.....		400,720	Trimming and lining felts.....	0,147,012	3,880,009
Felt goods, all industries:			Buffing-wheel and polishing felts, total.....	2,202,490	1,050,086
Aggregate value (sum of 2 and 5).....		42,203,533	Wool.....	783,949	1,146,077
Felt cloths (woven), total.....	7,075,076	17,113,027	Hair.....	1,598,541	510,009
Paper-makers' felts.....	5,820,964	14,700,528	Piano felts.....	200,933	343,786
			Shoe and shoe linings.....	1,607,108	1,182,815
			Shoe and slipper felts <sup>2</sup> .....	6,148,028	2,081,014
			Carpet-lining and cushion felts <sup>3</sup> .....	21,612,078	4,462,176
			Pipe and boiler insulating felts <sup>4</sup> .....	10,960,507	1,440,571
			Building-insulation and acoustic felts <sup>5</sup> .....	11,241,530	1,307,328
			Other felts (principally wool).....	18,791,184	7,816,021

<sup>1</sup> Because of changes in the form of the schedule used for 1929, no comparable data for prior years can be given.  
<sup>2</sup> Can not be separately distributed by kinds of fiber used without disclosing the production of individual establishments, but the 4 items, "Shoe and slipper felts," "Carpet-lining and cushion felts," "Pipe and boiler insulating felts," and "Building-insulation and acoustic felts," combined, are composed of the following: Hair felts, 30,487,825 pounds, valued at \$7,319,162; jute felts, 6,578,265 pounds, valued at \$1,120,952; hair-and-jute mixed felts, 11,002,962 pounds, valued at \$1,850,935.

**TABLE 4.—PRINCIPAL MATERIALS CONSUMED IN THE INDUSTRY, BY COST AND QUANTITY, 1929, AND BY QUANTITY, 1927 AND 1925, FOR THE UNITED STATES**

[The difference between the sum of the costs of the several kinds of materials shown in this table and the total cost of materials consumed as given in Tables 1 and 2 is due to the fact that this table covers only certain specified materials, whereas Tables 1 and 2 cover all materials]

	1929		1927	1925		1929		1927	1925
	Cost	Pounds	Pounds	Pounds		Cost	Pounds	Pounds	Pounds
Wool:					Wool rolls.....	\$1,035,842	1,297,534	2,000,428	(1)
In condition in which purchased, total.....	\$12,318,000	18,022,000	16,532,792	16,518,843	Wool waste.....	612,484	3,092,677	1,017,694	(1)
Domestic.....	6,770,450	9,924,157	9,501,514	8,073,970	Recovered wool fiber.....	1,508,707	3,293,422	0,548,430	5,508,758
Foreign.....	5,548,510	8,097,942	7,031,248	7,844,873	Animal hair.....	4,723,786	52,631,203	34,318,091	30,524,425
Equivalent in scoured condition.....	13,591,548	18,477,847	12,060,853		Cotton.....	470,538	2,559,106	2,270,823	2,498,715
					Rags, clippings, etc.....	1,127,134	8,270,132	3,559,130	(1)

<sup>1</sup> No data.

**TABLE 5.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929**

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSE-POWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
		Horse-power		Horse-power		Horse-power		Horse-power		Horse-power		
Prime movers and electric motors driven by purchased energy, aggregate.....	2,085	25,655	1,613	23,479	1,425	23,478	404	16,411	324	14,016	100.0	100.0
Prime movers, total.....	00	11,190	80	11,707	86	12,400	83	12,176	105	12,320	43.0	74.2
Steam, total.....	42	9,012	41	9,442	46	9,960	60	9,830	73	8,072	35.1	59.9
Engines.....	37	6,102	36	5,975	41	6,087	56	7,805	(1)	(1)	24.0	47.0
Turbines.....	5	2,850	5	3,467	5	3,273	4	2,025	(1)	(1)	11.1	12.3
Internal-combustion engines.....	1	21			1	5	2	4	2	202	0.1	(2)
Water wheels and water turbines.....	17	2,160	30	2,355	30	2,436	21	2,341	30	3,146	8.4	14.3
Electric motors driven by purchased energy.....	2,025	14,450	1,533	11,082	1,339	11,078	411	4,236	219	1,690	50.4	25.8
Electric motors, total.....	2,706	19,040	2,100	17,049	2,126	19,002	911	7,920	432	3,851	100.0	100.0
Driven by purchased energy.....	2,025	14,450	1,533	11,082	1,339	11,078	411	4,236	219	1,690	73.0	53.4
Driven by energy generated in establishments reporting.....	771	5,187	657	6,207	787	5,524	500	3,690	213	2,155	20.4	46.6
Electric generators.....	23	Kilowatts 5,202 Kilowatt-hours	21	Kilowatts 4,745	25	Kilowatts 5,172	(2)	(2)	(2)	(2)		
Electric energy purchased <sup>4</sup> .....		13,973,517		(2)		(2)		(2)		(2)		

<sup>1</sup> Not called for separately on schedule.

<sup>2</sup> Less than one-tenth of 1 per cent.

<sup>3</sup> Not called for on schedule.

<sup>4</sup> This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.

<sup>5</sup> Data incomplete.

## CENSUS OF MANUFACTURES: 1929

TABLE 6.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, AND 1914, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum	
		January	February	March	April	May	June	July	August	September	October	November	December		
United States:															
1929.....	5,540	<b>5,404</b>	5,571	5,701	5,683	5,028	5,571	5,418	5,392	5,505	5,032	5,550	<i>5,336</i>	5,211	94.5
1925.....	5,140	5,333	<b>5,351</b>	5,258	5,108	4,967	4,921	<i>4,890</i>	4,986	5,145	5,253	5,204	5,211	5,211	91.4
1919.....	5,236	5,076	5,015	4,899	4,888	4,874	5,012	5,128	5,424	5,508	5,529	5,688	5,744	5,744	84.9
1914.....	4,035	<b>4,282</b>	4,067	4,176	4,142	4,045	4,008	<i>3,872</i>	3,874	3,953	4,008	3,952	4,011	4,011	90.4
Connecticut.....	213	<b>200</b>	211	217	212	210	209	209	209	222	227	232	202	202	86.2
Massachusetts.....	863	902	910	937	919	870	820	<b>790</b>	844	856	844	820	837	837	84.3
New York.....	1,858	<b>1,744</b>	1,834	1,852	1,840	1,872	1,874	1,802	1,822	1,883	1,947	1,916	1,847	1,847	89.0

## HATS, WOOL-FELT

Description of the industry.—This industry embraces establishments engaged primarily in the manufacture of felt hats from raw wool. These establishments card the wool and make both hat bodies and finished hats. Some of the hat bodies (principally women's) are sold as such. Establishments whose principal products are

women's wool-felt hats made from purchased hat bodies are classified in the "Millinery" industry.

Omission of State statistics.—In order to avoid disclosing the data reported by individual establishments, no State statistics are given for this industry.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years, but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel, and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>	Horsepower
1929.....	14	2,028	\$2,314,680	\$4,678,189	\$9,055,590	\$4,377,401	2,811
1927 <sup>3</sup> .....	12	2,113	2,190,031	4,489,717	8,806,610	4,316,899	2,405
1925.....	22	1,854	1,085,798	5,122,755	8,048,644	3,825,880	2,550
1923.....	21	1,950	2,004,774	4,467,010	8,643,217	4,180,207	2,762
1921.....	20	1,428	1,317,685	2,453,607	4,961,324	2,510,717	( <sup>4</sup> )
1919.....	40	1,448	1,387,777	3,600,822	6,730,652	3,030,830	2,694
1914.....	30	1,249	599,578	978,330	1,944,484	900,145	3,091
1909.....	31	1,986	987,693	2,472,263	4,382,411	1,910,148	2,821
1904.....	17	1,503	619,194	1,366,810	2,467,206	1,087,459	1,847
1899.....	24	2,108	937,855	2,042,292	3,591,940	1,549,738	2,324
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929.....	( <sup>5</sup> )	-4.0	5.7	4.2	2.8	1.4	16.0
1925-1927.....	( <sup>5</sup> )	14.0	10.3	-12.4	-1.0	12.8	-5.7
1923-1925.....	( <sup>5</sup> )	-4.9	-0.9	14.0	3.5	-8.6	-7.7
1921-1923.....	( <sup>5</sup> )	36.0	48.8	81.7	74.1	66.7	-----
1919-1921.....	( <sup>5</sup> )	-1.4	-2.0	-33.7	-26.3	-17.4	-----
1919-1929.....	( <sup>5</sup> )	40.1	66.8	26.4	34.4	44.0	4.3
1909-1919.....	( <sup>5</sup> )	-27.1	40.5	49.7	53.8	59.1	6.9
1899-1909.....	( <sup>5</sup> )	-5.8	5.3	21.1	22.0	23.3	8.5

<sup>1</sup> For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.

<sup>2</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

<sup>3</sup> Revised.

<sup>4</sup> Not called for on schedule.

<sup>5</sup> Per cent not computed where base is less than 100.

TABLE 2.—GENERAL STATISTICS FOR THE UNITED STATES: 1929, 1927, AND 1919

[Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Census year	Number of establishments	Salaried officers and employees <sup>1</sup>	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
					Total	Prime movers	Motors run by purchased energy			Total	Materials and containers	Fuel and purchased energy		
United States.....	<sup>4</sup> 1929	14	169	2,028	2,811	1,820	991	\$305,830	\$2,314,680	\$4,678,189	\$4,624,092	\$153,197	\$9,055,590	\$4,377,401
	<sup>5</sup> 1927	12	92	2,113	2,405	1,975	430	258,938	2,190,031	4,489,717	4,313,955	175,762	8,806,610	4,316,899
	<sup>7</sup> 1919	40	157	1,448	2,694	2,280	455	358,251	1,387,777	3,600,822	3,594,716	105,106	6,730,652	3,030,830

<sup>1</sup> Not including proprietors and firm members, as follows: For 1929, 5; 1927, 9; 1919, 43. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 2,202; 1927, 2,214; 1919, 1,648.

<sup>2</sup> The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products.

<sup>3</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

<sup>4</sup> Connecticut, 1 establishment; Massachusetts, 3; New York, 4; Pennsylvania, 6. (See "Omission of State statistics," above.)

<sup>5</sup> Massachusetts, 2 establishments; New York, 2; Pennsylvania, 8.

<sup>6</sup> Revised.

<sup>7</sup> California, 2 establishments; Colorado, 1; Connecticut, 1; Florida, 1; Georgia, 1; Illinois, 4; Louisiana, 3; Massachusetts, 2; Minnesota, 1; New Jersey, 3; New York, 9; Ohio, 1; Pennsylvania, 10; Washington, 1.

CENSUS OF MANUFACTURES: 1929

TABLE 3.—PRODUCTS, BY KIND, NUMBER, AND VALUE, FOR THE UNITED STATES: 1923 TO 1929

[The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products]

KIND	1929	1927	1925	1923	KIND	1929	1927	1925	1923
Aggregate value.....	\$9,055,560	\$8,806,016	\$8,948,644	\$8,643,217	Wool-felt hats—Continued. Women's and children's— Dozens.....	172,193	1 187,583	230,850	314,799
Wool-felt hats, total:					Value.....	\$1,806,187	\$2,434,612	\$3,600,712	\$4,998,476
Dozens.....	306,804	1 376,632	373,019	453,951	Wool-felt bodies and hats in the rough:				
Value.....	\$4,409,791	\$5,032,698	\$6,340,306	\$7,182,458	Dozens.....	500,516	378,876	185,452	50,196
Men's—					Value.....	\$3,021,354	\$2,734,287	\$1,347,337	\$478,689
Dozens.....	227,611	1 188,040	142,160	139,152	Other products, value.....	\$1,024,445	\$1,030,731	\$1,261,001	\$982,170
Value.....	\$2,603,604	\$2,697,986	\$2,739,504	\$2,183,982					

<sup>1</sup> Revised.

TABLE 4.—PRINCIPAL MATERIALS AND EQUIPMENT USED IN THE INDUSTRY: 1929

MATERIALS	Pounds	Cost	EQUIPMENT	Number
Wool:			Cards (sets).....	90
In condition in which, purchased, total.....	1,492,513	\$1,220,698	Pickers.....	18
Domestic.....	895,116	532,779	Hat formers.....	79
Foreign.....	597,397	687,919		
Equivalent in scoured condition.....	1,021,108			
Wool waste and noils.....	2,160,659	( <sup>1</sup> )		

<sup>1</sup> No data.

TABLE 5.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSEPOWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
Prime movers and electric motors driven by purchased energy, aggregate.....	181	Horse-power 2,811	1 115	1 2,405	121	1 2,550	129	1 2,694	42	1 3,091	100.0	100.0
Prime movers, total.....	13	1,820	15	1,975	22	2,175	18	2,239	20	2,762	64.7	83.1
Steam, total.....	10	1,565	12	1,720	16	1,975	15	1,874	15	2,260	55.7	60.6
Engines.....	9	1,405	11	1,620	14	1,795	15	1,874	( <sup>2</sup> )	( <sup>2</sup> )	52.1	60.6
Turbines.....	1	100	1	100	2	180			( <sup>2</sup> )	( <sup>2</sup> )	3.6	
Internal-combustion engines.....					4	40						
Water wheels and water turbines.....	3	255	3	255	2	160	3	365	5	493	0.1	13.5
Electric motors driven by purchased energy.....	168	991	100	430	99	375	111	455	22	329	35.3	16.9
Electric motors, total.....	241	1,841	1 183	1 1,170	185	1,051	164	855	68	997	100.0	100.0
Driven by purchased energy.....	168	991	1 100	1 430	99	375	111	455	22	329	53.8	53.2
Driven by energy generated in establishments reporting.....	73	850	83	740	86	676	53	400	46	668	46.2	46.8
Electric generators.....	4	Kilowatts 750	4	Kilowatts 738	6	Kilowatts 936	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )		
Electric energy purchased.....		Kilowatt-hours 509,545		( <sup>3</sup> )		( <sup>3</sup> )		( <sup>3</sup> )		( <sup>3</sup> )		

<sup>1</sup> Revised.

<sup>2</sup> Not called for separately on schedule.

<sup>3</sup> Not called for on schedule.

<sup>4</sup> This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.

<sup>5</sup> Data incomplete.

TABLE 6.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, AND 1914

[The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Percent minimum is of maximum	
		January	February	March	April	May	June	July	August	September	October	November	December		
United States:															
1929.....	2,028	1,830	1,782	2,056	2,203	2,284	2,369	2,030	2,252	2,243	1,909	1,717	<i>1,677</i>	66.6	
1925.....	1,854	1,532	1,671	1,528	1,527	2,036	2,218	2,159	2,348	2,206	1,932	<i>1,603</i>	1,681	64.0	
1919.....	1,448	<i>916</i>	1,061	1,085	1,230	1,499	1,690	1,730	1,923	1,818	1,449	1,497	1,472	47.6	
1914.....	1,249	<i>855</i>	984	1,058	1,253	1,400	1,491	1,442	1,618	1,480	1,472	1,053	1,002	55.0	

# WOOL PULLING

Description of the industry.—This industry covers establishments engaged primarily in pulling wool from pelts. Considerable wool pulling is done in tanning and in slaughtering and meat-packing establishments,

but this work is not represented in the statistics for the wool-pulling industry, which embraces only those establishments engaged wholly or mainly in wool pulling.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1890 TO 1920

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>	Horsepower
1920.....	18	506	\$907,278	\$10,916,004	\$13,648,064	\$2,781,070	1,847
1927.....	18	524	708,090	12,466,056	14,640,401	2,174,345	2,403
1925.....	23	573	840,850	13,637,313	15,209,221	1,571,908	2,700
1923.....	27	690	866,468	11,308,221	15,176,021	3,807,809	2,837
1921.....	22	552	693,475	5,197,095	6,767,161	1,570,000	( <sup>3</sup> )
1919.....	24	705	909,788	12,809,592	17,361,231	4,551,639	2,162
1914.....	34	708	452,190	6,632,161	8,272,721	1,040,620	2,248
1909.....	37	631	386,915	4,103,250	5,180,856	1,077,600	1,366
1904.....	34	681	364,754	103,984	881,700	777,722	1,324
1899.....	34	475	247,950	53,975	531,287	477,312	820
PER CENT OF INCREASE OR DECREASE (—)							
1927-1920.....	( <sup>4</sup> )	13.7	18.0	-12.4	-6.8	25.6	-23.1
1925-1927.....	( <sup>4</sup> )	-8.0	-8.5	-3.0	-3.7	38.3	-11.2
1923-1925.....	( <sup>4</sup> )	-17.7	-3.0	20.6	0.2	-59.4	-4.0
1921-1923.....	( <sup>4</sup> )	26.1	21.0	117.0	124.3	140.3	-----
1919-1921.....	( <sup>4</sup> )	-21.7	-23.8	-50.4	-61.0	-65.6	-----
1919-1920.....	( <sup>4</sup> )	-15.5	-0.3	-14.8	-21.4	-40.0	-14.6
1909-1919.....	( <sup>4</sup> )	11.7	135.1	212.2	235.1	322.4	58.8
1899-1909.....	( <sup>4</sup> )	32.8	50.0	7,502.1	875.2	128.8	66.0

<sup>1</sup> For 1920, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.  
<sup>2</sup> Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.  
<sup>3</sup> Not called for on schedule.  
<sup>4</sup> Per cent not computed where base is less than 100.

TABLE 2.—GENERAL STATISTICS, BY STATES: 1920, 1927, AND 1919

[Pennsylvania is the only State for which separate figures can be given without disclosing data for individual establishments]

STATE	Census year	Number of establishments	Salaried officers and employees <sup>1</sup>	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
					Total	Prime movers	Motors run by purchased energy			Total	Materials	Fuel and purchased energy		
United States.....	1920	18	72	506	1,847	380	1,467	\$251,871	\$907,278	\$10,916,004	\$10,831,040	\$85,054	\$13,648,064	\$2,781,070
	1927	18	70	524	2,403	925	1,478	191,328	768,090	12,466,056	12,309,437	98,619	14,640,401	2,174,345
	1919	21	111	705	2,162	1,590	572	283,208	909,788	12,809,592	12,730,810	78,782	17,361,231	4,551,639
Pennsylvania.....	1920	4	10	230	435	125	310	112,840	309,314	5,190,016	5,153,855	36,161	6,517,100	1,327,084
	1927	4	19	206	635	375	260	67,225	329,570	5,478,373	5,445,372	33,001	6,520,594	1,048,221
	1919	4	13	150	320	200	60	35,333	215,714	4,040,892	4,020,391	20,471	5,604,276	1,569,414
Groups of States: Calif., 3 est.; Ore., 1; Utah, 1; Wash., 1. Other States (Ill., 3 est.; Ind., 1; Mo., 2; N. J., 1; N. Y., 1).....	1920	6	23	176	567	70	497	76,020	264,700	2,953,098	2,936,132	16,966	3,453,835	500,737
	1920	8	30	181	845	185	660	62,111	243,204	2,773,880	2,741,053	32,827	3,677,129	903,240
States not shown separately.....	<sup>4</sup> 1927	14	51	318	1,708	550	1,218	124,102	439,420	6,987,683	6,924,065	63,618	8,113,807	1,126,124
	<sup>5</sup> 1919	20	98	555	1,842	1,330	512	247,875	694,074	8,768,730	8,710,419	58,311	11,750,955	2,088,225

<sup>1</sup> Not including proprietors and firm members, as follows: For 1920, 7; 1927, 14; 1919, 23. The numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1920, 675; 1927, 608; 1919, 839.  
<sup>2</sup> For 1920, sales (shipments or deliveries) by manufacturers; for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.  
<sup>3</sup> Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.  
<sup>4</sup> California, 3 establishments; Illinois, 2; Indiana, 1; Maine, 2; New Jersey, 1; Ohio, 1; Oregon, 1; Utah, 1; Virginia, 1; Washington, 1.  
<sup>5</sup> California, 2 establishments; Illinois, 5; Indiana, 1; Maine, 2; New Jersey, 3; New York, 2; Ohio, 2; Oregon, 1; Utah, 1; Washington, 1.

CENSUS OF MANUFACTURES: 1929

TABLE 3.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1927 AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSE-POWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
Prime movers and electric motors driven by purchased energy, aggregate.....	500	<i>Horse-power</i> 1,847	127	<i>Horse-power</i> 2,403	131	<i>Horse-power</i> 2,700	72	<i>Horse-power</i> 2,162	65	<i>Horse-power</i> 2,248	100.0	100.0
Prime movers, total.....	7	380	12	025	15	1,073	22	1,500	23	1,809	20.6	73.5
Steam, total.....	6	330	11	875	14	1,028	19	1,320	26	1,610	17.0	61.1
Engines.....	6	330	10	725	12	863	19	1,320	(1)	(1)	17.9	61.1
Turbines.....			1	150	2	176			(1)	(1)		
Internal-combustion engines.....					1	45	1	150	1	150		6.9
Water wheels and water turbines.....	1	50	1	50			2	120	1	100	2.7	5.6
Electric motors driven by purchased energy.....	499	1,467	116	1,478	116	1,638	50	572	37	379	70.4	26.5
Electric motors, total.....	499	1,467	119	1,531	119	1,668	61	732	39	424	100.0	100.0
Driven by purchased energy.....	499	1,467	116	1,478	116	1,633	50	572	37	379	100.0	78.1
Driven by energy generated in establishments reporting.....			4	53	3	35	11	160	2	45		21.9
Electric generators.....		<i>Kilo-watts</i>	2	<i>Kilo-watts</i> 125	1	<i>Kilo-watts</i> 25	(?)	(?)	(?)	(?)		
Electric energy purchased <sup>1</sup> .....		<i>Kilowatt-hours</i> 1,345,025		(?)		(?)		(?)		(?)		

<sup>1</sup> Not called for separately on schedule.  
<sup>2</sup> Not called for on schedule.  
<sup>3</sup> This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.  
<sup>4</sup> Data incomplete.

TABLE 4.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, 1914, AND 1909, AND FOR PENNSYLVANIA, 1929

[Pennsylvania is the only State for which separate figures can be given without disclosing data for individual establishments. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum	
		January	February	March	April	May	June	July	August	September	October	November	December		
United States:															
1929.....	560	582	602	609	<b>619</b>	612	583	<i>563</i>	504	608	616	508	599	91.0	
1925.....	573	614	637	623	626	540	508	<i>503</i>	558	571	576	582	535	79.0	
1919.....	705	673	679	621	621	621	<i>613</i>	693	727	754	811	816	831	78.8	
1914.....	708	733	720	750	723	700	671	<i>658</i>	690	673	676	720	762	86.4	
1909.....	631	625	653	609	580	580	572	<i>548</i>	576	620	695	763	759	71.8	
Pennsylvania.....	239	<b>243</b>	<b>243</b>	<b>243</b>	237	<i>235</i>	<i>235</i>	236	230	237	239	242	242	96.7	

# WOOL SCOURING

Description of the industry.—This industry embraces (a) independent establishments engaged primarily in scouring, sorting, and carbonizing wool owned by others, and (b) independent establishments engaged primarily in scouring, sorting, and carbonizing purchased wool. As a rule, however, these operations are performed in the mills which manufacture the wool into yarn or cloth, and the work done in these mills is not represented in the statistics for the wool-scouring industry.

The establishments which scour wool on contract report as "Value of products" only the amounts received for their work, whereas those which scour purchased wool report the amounts paid for unscoured wool under "Cost of materials" and the value of the scoured wool as "Value of products." Thus the comparableness of the figures for cost of materials and value of products as between one census year and another is affected by variations in the relative amounts of work done by the two classes of establishments.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>	Horsepower
1929	21	1,302	\$1,770,974	\$3,021,731	\$6,241,264	\$3,210,533	8,241
1927	25	1,386	1,081,774	3,009,956	6,661,694	3,652,938	7,935
1925	25	1,112	1,000,667	2,627,166	5,861,490	3,304,514	7,823
1923	26	1,473	2,025,307	4,528,082	6,190,661	3,661,169	6,976
1921	24	1,536	2,067,407	3,303,717	6,419,605	3,451,888	(3)
1919	33	2,177	2,896,463	7,228,350	13,679,584	6,451,234	9,710
1914	24	1,050	616,593	3,176,438	4,565,412	1,888,074	7,579
1909	28	1,142	557,718	2,122,102	3,289,216	1,197,113	6,732
1904	27	779	397,811	214,624	1,662,000	838,285	3,458
1899	25	720	338,606	103,826	880,800	695,083	2,000
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929	(4)	-6.1	-10.6	0.4	-6.3	-11.8	3.0
1925-1927	(4)	24.6	23.8	10.1	14.2	10.5	1.4
1923-1925	(4)	-24.5	-21.0	-44.2	-28.8	-9.7	12.1
1921-1923	(4)	-4.1	-2.0	37.1	20.1	4.1	
1919-1921	(4)	-29.4	-28.6	-54.3	-56.1	-45.5	
1919-1929	(4)	-40.2	-38.9	-58.2	-54.4	-50.1	-15.1
1909-1919	(4)	90.6	410.3	240.6	315.9	452.8	44.2
1899-1909	(4)	58.6	64.7	604.8	260.7	67.7	132.1

<sup>1</sup> For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.  
<sup>2</sup> Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.  
<sup>3</sup> Not called for on schedule.  
<sup>4</sup> Per cent not computed where base is less than 100.

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments. Certain of the "Other States," however, reported larger values of products than California]

STATE	Census year	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
					Total	Prime movers	Motors run by purchased energy			Total	Materials	Fuel and purchased energy		
United States	1929	21	192	1,302	8,241	4,685	3,556	\$624,397	\$1,770,974	\$3,021,731	\$2,726,543	\$295,188	\$6,241,264	\$3,210,533
	1927	25	188	1,386	7,935	5,201	2,644	491,440	1,081,774	3,009,956	2,725,149	284,807	6,661,694	3,652,938
	1919	33	221	2,177	9,710	6,740	2,970	727,174	2,896,463	7,228,350	6,789,007	439,343	13,679,584	6,451,234
California	1929	3	12	83	915	220	695	21,520	88,061	54,899	40,643	14,256	194,834	139,635
	1927	3	12	108	806	225	581	20,170	131,102	40,221	34,131	15,060	289,183	239,062
	1919	3	0	86	391	275	116	16,560	86,659	111,599	94,171	17,428	208,359	156,760
Massachusetts	1929	11	65	635	4,255	2,365	1,890	277,812	898,515	885,488	731,713	153,775	2,476,104	1,530,616
	1927	12	47	568	3,880	2,345	1,544	156,082	853,615	688,494	510,846	177,648	2,089,325	1,350,531
	1919	13	58	1,012	4,628	3,170	1,458	232,155	1,407,574	1,050,195	838,883	211,312	3,669,326	2,619,125
Other States	<sup>5</sup> 1929	7	115	584	3,071	2,100	971	325,065	784,308	2,081,344	1,954,187	127,157	3,570,326	1,488,082
	<sup>6</sup> 1927	10	129	710	3,240	2,721	510	300,188	902,057	2,272,241	2,180,172	92,069	4,303,486	2,031,245
	<sup>7</sup> 1919	17	154	1,079	4,771	3,205	1,476	478,459	1,312,220	6,066,556	5,855,953	210,603	9,741,905	3,675,349

<sup>1</sup> Not including proprietors and firm members as follows: For 1929, 2; 1927, 7; 1919, 9. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 1,496; 1927, 1,531; 1919, 2,407.  
<sup>2</sup> For 1929, sales (shipments or deliveries) by manufacturers; for earlier years, production. See GENERAL EXPLANATION—Value of Products.  
<sup>3</sup> Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.  
<sup>4</sup> Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919 but not in the United States totals.  
<sup>5</sup> Illinois, 3 establishments; New Jersey, 1; New York, 1; Pennsylvania, 1; Rhode Island, 1.  
<sup>6</sup> Connecticut, 1 establishment; Illinois, 4; New Jersey, 1; New York, 1; Pennsylvania, 2; Rhode Island, 1.  
<sup>7</sup> Delaware, 1 establishment; Illinois, 4; Kentucky, 1; New Jersey, 2; New Mexico, 1; New York, 1; Ohio, 1; Oregon, 2; Pennsylvania, 3; Wisconsin, 1.

## CENSUS OF MANUFACTURES: 1929

TABLE 3.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSEPOWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
Prime movers and electric motors driven by purchased energy, aggregate.....	576	Horse-power 8,241	210	Horse-power 7,935	200	Horse-power 7,823	337	Horse-power 9,710	107	Horse-power 7,570	100.0	100.0
Prime movers, total.....	21	4,685	18	5,201	20	5,247	36	6,740	39	6,465	56.8	69.4
Steam, total.....	15	3,830	13	4,075	15	4,622	28	5,865	28	5,250	46.5	60.4
Engines.....	9	1,620	12	4,275	13	3,220	26	5,705	(1)	(1)	19.7	58.8
Turbines.....	6	2,210	1	400	2	1,402	2	100	(1)	(1)	26.8	1.0
Internal-combustion engines.....			1	21								
Water wheels and water turbines.....	6	855	4	595	6	625	8	876	11	1,215	10.4	0.0
Electric motors driven by purchased energy.....	555	3,550	192	2,644	180	2,570	301	2,970	68	1,114	43.2	30.0
Electric motors, total.....	892	9,047	545	9,109	476	5,600	345	3,544	132	1,466	100.0	100.0
Driven by purchased energy.....	555	3,550	192	2,644	180	2,570	301	2,970	68	1,114	36.9	33.8
Driven by energy generated in establishments reporting.....	337	6,091	353	6,555	296	3,030	44	574	64	352	63.1	16.2
Electric generators.....	7	Kilowatts 1,514 Kilowatt-hours 3,723,182	7	Kilowatts 2,085	9	Kilowatts 1,470	(?)	(?)	(?)	(?)		
Electric energy purchased <sup>1</sup> .....				(?)		(?)		(?)		(?)		

<sup>1</sup> Not called for separately on schedule.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.

<sup>4</sup> Data incomplete.

TABLE 4.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, 1914, AND 1909, AND BY STATES, 1929

(This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures.)

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Percent minimums of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
United States:														
1929.....	1,302	1,344	1,403	1,254	<i>1,152</i>	1,170	1,233	1,307	1,303	1,322	1,337	1,331	1,416	81.4
1925.....	1,112	1,305	1,236	934	927	<i>755</i>	972	1,104	1,157	1,208	1,215	1,301	1,224	67.6
1919.....	2,177	1,896	1,728	<i>1,658</i>	1,757	2,132	2,363	2,512	2,563	2,443	2,412	2,307	2,363	64.9
1914.....	1,059	1,044	1,132	1,161	1,087	1,199	1,118	1,096	950	960	906	1,047	1,118	70.9
1909.....	1,142	975	943	<i>922</i>	938	1,051	1,136	1,128	1,193	1,203	1,332	1,378	1,434	64.3
California.....	83	129	121	55	<i>32</i>	54	64	73	57	69	96	121	124	24.8
Massachusetts.....	635	632	700	636	559	514	552	663	670	682	659	676	663	73.4

# WOOL SHODDY

Description of the industry.—This industry consists in the recovery of wool fiber from rags, waste, noils, tailors' clippings, etc. The products are termed "shoddy," "mungo," "flocks" (the result of shearing cloth), and "wool extract." The recovered fiber may be used alone or mixed with new materials for various textile purposes.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1909<sup>1</sup> TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>	Horsepower
1929	50	1,702	\$2,109,374	\$10,126,717	\$15,344,978	\$5,218,201	15,940
1927	55	1,670	1,910,195	7,980,875	12,590,720	4,615,851	15,363
1925	68	2,218	2,409,261	14,012,456	21,021,882	6,109,420	15,435
1923	59	2,128	2,442,522	10,027,386	16,097,515	6,070,129	12,496
1921	53	1,170	1,256,240	4,470,050	6,803,118	2,323,162	( <sup>4</sup> )
1919	78	2,560	2,653,169	16,070,315	23,254,398	7,178,083	16,567
1914	64	2,145	1,050,114	5,200,003	7,706,843	2,406,910	12,244
1909	80	1,923	864,066	4,539,979	6,854,993	2,315,014	12,367
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929	( <sup>5</sup> )	4.9	10.1	25.0	21.8	13.1	3.8
1925-1927	( <sup>5</sup> )	-24.3	-26.6	-40.5	-40.1	-24.4	-0.5
1923-1925	( <sup>5</sup> )	4.2	6.8	40.3	25.0	6	23.5
1921-1923	( <sup>5</sup> )	81.9	94.4	137.2	145.4	101.3	
1919-1921	( <sup>5</sup> )	-51.4	-62.7	-72.1	-70.7	-67.6	
1910-1929	( <sup>5</sup> )	-31.3	-20.5	-37.0	-34.0	-27.3	-3.8
1909-1919	( <sup>5</sup> )	33.4	207.1	254.1	239.2	210.1	34.0

<sup>1</sup> No comparable data available for years prior to 1909.

<sup>2</sup> The figures for all years refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products.

<sup>3</sup> Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

<sup>4</sup> Not called for on schedule.

<sup>5</sup> Per cent not computed where base is less than 100.

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Census year	Number of establishments	Salaried officers and employees <sup>1</sup>	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
					Total	Prime movers	Motors run by purchased energy			Total	Materials	Fuel and purchased energy		
United States	1929	50	278	1,702	15,040	6,073	9,867	\$1,017,154	\$2,109,374	\$10,126,717	\$9,707,517	\$419,200	\$15,344,978	\$5,218,201
	1927	55	230	1,670	15,353	6,912	8,441	819,350	1,910,195	7,980,875	7,534,053	446,222	12,590,720	4,615,851
	1919	78	320	2,560	10,567	9,569	6,998	1,017,223	2,653,169	16,070,315	15,572,310	504,005	23,254,398	7,178,083
Individual States:														
Maine	1929	3	18	77	973		973	47,360	78,724	650,751	637,315	10,436	838,408	181,657
Massachusetts	1929	22	81	503	5,467	2,271	3,196	274,634	642,330	2,096,937	1,929,611	167,326	3,571,253	1,474,310
	1927	24	70	492	4,585	1,846	2,730	243,969	607,280	1,581,370	1,413,053	168,237	2,901,059	1,319,689
	1919	23	101	623	4,419	2,025	1,794	330,230	684,722	3,699,308	3,573,404	126,404	5,514,555	1,814,747
New York	1929	7	58	403	3,806	1,267	2,009	300,730	490,201	2,920,245	2,846,298	73,947	4,244,266	1,323,061
	1927	7	28	183	2,812	1,220	1,592	137,041	236,047	1,348,628	1,303,719	44,909	1,913,590	594,962
	1919	14	62	380	3,213	2,023	1,190	143,831	353,605	1,913,679	1,856,727	56,952	3,058,292	1,144,613
Rhode Island	1929	5	11	26	222		222	20,922	42,083	195,061	181,628	13,973	270,437	74,836
	1927	3	6	22	203		203	24,590	32,758	124,122	110,007	14,055	196,091	72,569
	1919	7	6	70	544	222	322	14,620	80,161	245,060	224,442	20,618	444,795	199,735
Groups of States:														
Conn., 2 est.;	1929	5	53	259	3,223	1,535	1,688	139,238	270,846	1,596,129	1,544,390	51,739	2,190,291	594,072
Del., 1; Vt., 2;	1929	8	62	480	2,180	1,010	1,179	225,270	585,130	2,061,054	2,508,275	92,779	4,230,473	1,509,419
Ohio, 3 est.; Pa., 5														
States not shown separately	<sup>4</sup> 1927	21	132	982	7,003	3,846	3,817	413,720	1,030,204	4,926,755	4,767,784	218,971	7,585,356	2,658,631
	<sup>5</sup> 1919	34	167	1,493	8,518	4,699	3,810	619,452	1,534,591	10,217,793	9,917,737	300,031	14,236,756	4,018,983

<sup>1</sup> Not including proprietors and firm members, as follows: For 1929, 17; 1927, 35; 1919, 64. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—are as follows: For 1929, 2,057; 1927, 1,950; 1919, 2,950.

<sup>2</sup> The figures for all years refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products.

<sup>3</sup> Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

<sup>4</sup> Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919 but not in the United States totals.

<sup>5</sup> Connecticut, 3 establishments; Illinois, 1; Maine, 2; New Jersey, 2; Ohio, 3; Pennsylvania, 7; Vermont, 2; Wisconsin, 1.

<sup>6</sup> Connecticut, 9 establishments; Illinois, 2; Maine, 3; New Jersey, 2; Ohio, 3; Pennsylvania, 9; Tennessee, 1; Vermont, 3; Wisconsin, 2.

## CENSUS OF MANUFACTURES: 1929

TABLE 3.—PRODUCTS, BY QUANTITY AND VALUE, FOR LEADING STATES: 1929 AND 1927

[The figures for both census years refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products]

PRODUCT	1929		1927		PRODUCT	1929		1927	
	Pounds	Value	Pounds	Value		Pounds	Value	Pounds	Value
1. Wool-shoddy industry, all products, total value.....		\$15,344,078		\$12,596,720	Recovered wool fiber, all industries:				
2. Recovered wool fiber <sup>1</sup> .....	56,908,767	12,034,839	40,823,323	10,700,485	Aggregate value (sum of 2 and 5).....	60,107,687	\$13,354,351	41,148,562	\$10,737,406
3. Other products (not normally belonging to the industry).....		1,236,546		524,007	Massachusetts.....	12,851,224	2,753,300	6,397,403	1,866,150
4. Receipts for contract work.....		1,173,594		1,363,234	New York.....	21,743,930	3,004,508	6,762,021	1,694,404
5. Recovered wool fiber made as a secondary product in other industries, value.....	3,198,020	410,512	325,239	27,921	Other States.....	25,612,627	6,630,534	27,988,538	7,176,753

<sup>1</sup> Includes carbonized rags (wool extract).

TABLE 4.—MATERIALS CONSUMED AND EQUIPMENT USED IN THE INDUSTRY: 1929, 1927, AND 1925

[The difference between the sum of the costs of the several kinds of materials shown in this table and the total cost of materials consumed as given in Tables 1 and 2 is due to the fact that this table covers only certain specified materials, whereas Tables 1 and 2 cover all materials]

KIND	1929		1927	1925	KIND	1929	1927	1925
	Cost	Pounds	Pounds	Pounds		Number	Number	Number
MATERIALS					EQUIPMENT			
Rags, clippings, etc.....	\$8,545,400	63,972,152	50,671,625	60,352,123	Cards (sets).....	348	442	530
Scoured wool.....	48,097	54,690	75,567	100,775	Garnett machines.....	178	113	149
Wool waste and other nolls and waste.....	507,714	4,056,749	1,747,120	16,705,572	Pickers.....	350	270	307

TABLE 5.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSEPOWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
		Horsepower		Horsepower		Horsepower		Horsepower		Horsepower		
Prime movers and electric motors driven by purchased energy, aggregate.....	575	15,940	408	15,353	424	15,435	419	16,567	108	12,244	100.0	100.0
Prime movers, total.....	48	6,073	53	6,912	67	7,587	93	9,569	100	10,748	38.1	57.8
Steam, total.....	19	4,021	28	5,145	35	5,303	45	6,544	61	7,498	25.2	30.5
Engines.....	17	3,221	25	4,245	30	4,348	44	6,414	(1)	(1)	20.2	38.7
Turbines.....	2	800	3	900	5	955	1	130	(1)	(1)	5.0	0.8
Internal-combustion engines.....	3	195					2	76	1	20	1.2	0.5
Water wheels and water turbines.....	26	1,857	25	1,707	32	2,284	46	2,949	44	3,230	11.6	17.8
Electric motors driven by purchased energy.....	527	9,867	415	8,441	357	7,848	326	6,908	62	1,496	61.9	42.2
Electric motors, total.....	704	11,267	633	10,481	559	9,578	392	9,109	84	1,916	100.0	100.0
Driven by purchased energy.....	527	9,867	415	8,441	357	7,848	326	6,908	62	1,496	87.6	70.1
Driven by energy generated in establishments reporting.....	177	1,400	218	2,040	202	1,730	66	2,201	22	420	12.4	29.9
Electric generators.....	9	Kilowatts 1,316	11	Kilowatts 1,335	12	Kilowatts 1,940	(2)	(2)	(2)	(2)		
Electric energy purchased <sup>3</sup> .....		Kilowatt-hours 7,905,042		(4)		(4)		(2)		(2)		

<sup>1</sup> Not called for separately on schedule.<sup>2</sup> Not called for on schedule.<sup>3</sup> This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.<sup>4</sup> Data incomplete.

WOOL SHODDY

TABLE 6.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, 1914, AND 1909, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum of maximum	
		January	February	March	April	May	June	July	August	September	October	November	December		
United States:															
1929	1,762	<b>1,954</b>	1,885	1,884	1,800	1,780	1,770	1,798	1,716	1,705	1,688	1,600	<i>1,482</i>	75.8	
1925	2,218	<b>2,579</b>	2,552	2,577	2,427	2,226	2,107	2,040	2,089	1,989	1,985	<i>1,975</i>	2,071	76.6	
1919	2,506	<b>2,516</b>	<i>2,405</i>	2,444	2,585	2,664	2,650	2,580	2,592	2,637	2,530	2,520	<b>2,600</b>	90.1	
1914	2,145	<b>2,143</b>	2,224	2,220	2,250	2,188	2,137	2,037	2,041	<i>2,011</i>	2,034	2,104	<b>2,288</b>	88.0	
1909	1,923	<b>1,864</b>	1,908	1,924	1,895	1,904	1,920	1,915	1,860	1,916	1,952	1,956	<b>2,038</b>	91.6	
Maine	77	85	88	91	83	71	69	77	84	70	77	31	<i>56</i>	60.2	
Massachusetts	503	584	546	544	542	503	503	477	480	504	500	457	<b>400</b>	68.5	
New York	408	409	414	413	427	416	407	409	403	407	406	404	<b>582</b>	89.5	
Rhode Island	26	30	29	32	27	33	36	28	24	24	21	18	19	54.5	

## Group 3.—FOREST PRODUCTS

### THE GROUP AS A WHOLE

The forest products group, which comprises the industries engaged in the manufacture of lumber and of the various classes of products made from lumber, embraces practically all the industries in which wood in some form is the principal material. Among the products of some of these industries are articles made from other materials than lumber. For example, the furniture industry includes the manufacture of metal furniture and metal store and office fixtures. Considering the industry as a whole, however, wood is the principal material, and therefore it has been included in this group.

This group has been changed slightly as compared with the corresponding one as constituted at the census for 1927, by the transfer to the "Furniture, including

store and office fixtures" industry of establishments engaged primarily in the manufacture of sewing-machine cases, cabinets, and tables, formerly classified in the "Sewing machines, cases, and attachments" industry, in Group 13. The 1927 figures for the furniture industry and for the "Furniture and related industries" subgroup, and the 1927 aggregates for the group as a whole have been adjusted for comparison with 1929, but no adjustments have been made for 1925 or earlier years.

Summary statistics for the group and its component subgroups and industries are given in the table below, and detailed reports for the individual industries, all of which have previously been published in pamphlet form, appear on pages 439 to 540.

#### SUMMARY FOR GROUP 3.—FOREST PRODUCTS: 1914 TO 1929

[Data for establishments with products under \$5000 in value included for 1919 and 1914 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

INDUSTRY	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel and purchased electric energy	Value of products	Value added by manufacture <sup>1</sup>	Horsepower
Aggregate for the group	1929	28,912	870,383	\$639,382,973	\$1,586,182,953	\$3,591,765,090	\$2,005,582,137	3,674,204
	1927	20,169	894,508	631,920,537	1,636,647,040	3,462,925,107	1,826,278,127	3,332,457
	1925	21,926	921,206	978,472,291	1,725,350,920	3,089,129,705	1,963,775,785	3,472,979
	1923	21,678	931,816	962,594,530	1,660,395,023	3,033,385,573	1,966,990,550	3,336,236
	1921	21,398	793,369	670,461,643	1,197,627,939	2,466,857,043	1,259,229,104	( <sup>2</sup> )
	1919	41,201	894,001	859,872,003	1,308,341,322	3,113,460,426	1,745,119,104	3,409,746
	1914	43,466	895,294	446,897,411	706,935,795	1,616,452,752	850,516,957	3,170,436
Basic industries, total	1929	14,164	400,482	437,840,193	432,336,872	1,814,702,721	882,425,849	1,997,963
	1927	8,723	453,131	431,490,496	508,679,628	1,259,369,752	760,690,124	1,795,875
	1925	10,286	504,711	473,085,408	693,935,093	1,408,427,334	874,492,241	2,094,631
	1923	16,671	531,545	492,617,237	584,802,432	1,534,990,570	950,188,144	1,944,962
	1921	10,253	392,756	323,977,320	386,881,353	930,015,365	543,134,012	( <sup>2</sup> )
	1919	27,406	610,254	507,530,475	487,412,343	1,445,430,157	958,023,814	2,367,953
	1914	28,722	515,780	249,117,996	288,890,348	738,815,980	440,925,632	2,203,552
Excelsior	1929	66	1,241	1,219,144	2,439,539	5,008,799	2,599,239	10,667
	1927	64	1,272	1,181,488	2,547,114	4,821,098	2,273,984	10,939
	1925	72	1,300	1,179,667	2,573,016	4,901,085	2,328,060	11,993
	1923	75	1,285	1,206,204	2,765,841	5,361,830	2,595,989	10,939
	1921	79	1,087	978,186	2,754,731	4,213,214	1,458,483	( <sup>2</sup> )
	1919	95	1,242	1,144,503	2,521,967	4,913,450	2,301,483	10,332
	1914	99	1,177	558,464	1,402,914	2,515,456	1,112,542	10,715
Lumber and timber products, not elsewhere classified	1929	12,915	419,084	421,584,874	419,603,388	1,273,472,320	853,808,032	1,085,301
	1927	7,510	413,946	413,361,954	493,959,120	1,214,645,683	720,680,563	1,781,734
	1925	9,207	467,090	456,715,665	579,474,682	1,421,161,836	841,087,154	2,049,500
	1923	9,393	495,932	475,962,443	573,063,833	1,494,462,031	921,308,198	1,932,091
	1921	9,092	364,247	313,486,957	377,927,443	902,501,306	524,673,863	( <sup>2</sup> )
	1919	26,119	480,946	480,419,091	470,960,488	1,387,471,413	916,510,925	2,355,345
	1914	27,229	479,786	239,976,562	281,951,873	715,310,333	433,358,460	2,190,359
Turpentine and rosin	1929	1,183	40,157	15,930,175	10,293,954	36,281,032	25,087,678	1,995
	1927	1,149	37,918	16,953,054	12,173,394	39,902,971	27,720,577	3,211
	1925	1,007	29,413	15,190,076	11,887,395	42,364,413	30,477,018	3,138
	1923	1,203	34,828	15,448,590	8,972,758	35,166,715	26,193,957	1,932
	1921	1,062	27,422	9,512,177	6,199,179	23,300,845	17,101,066	( <sup>2</sup> )
	1919	1,191	28,067	16,972,881	13,929,888	53,051,294	30,121,400	2,270
	1914	1,394	34,817	8,582,970	5,535,561	20,990,191	15,454,030	2,478

See footnotes at end of summary.

# FOREST PRODUCTS

## SUMMARY FOR GROUP 3.—FOREST PRODUCTS: 1914 TO 1929

[See note at head of this table]

INDUSTRY	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel and purchased electric energy	Value of products	Value added by manufacture	Horsepower
<b>Wood-reworking industries, total.....</b>	1920	6,081	114,640	\$142,500,381	\$337,204,405	\$656,344,743	\$318,089,338	787,600
	1927	5,692	117,905	140,782,771	359,310,239	672,330,252	313,020,013	727,274
	1925	5,727	132,115	100,164,028	410,467,058	708,288,374	357,831,316	680,399
	1923	5,150	125,060	159,700,092	441,283,568	783,761,079	342,467,621	575,740
	1921	5,314	97,410	115,619,175	307,088,920	538,617,025	230,628,099	( <sup>1</sup> )
	1919	6,554	109,137	112,408,160	334,878,271	560,482,054	245,603,783	405,720
	1914	7,220	119,535	73,767,544	293,948,785	680,037,700	146,680,011	480,538
<b>Lists and related products.....</b>	1920	58	1,760	2,569,368	2,314,597	7,080,555	5,374,958	7,230
	1927	60	1,718	2,504,116	2,505,032	7,520,140	5,024,117	7,055
	1925	62	2,035	3,012,136	3,019,014	9,301,105	6,252,001	7,512
	1923	64	2,258	3,122,737	3,190,640	9,890,925	6,703,285	6,005
	1921	67	2,618	3,492,152	4,335,005	12,377,360	8,041,395	( <sup>2</sup> )
	1919	64	2,910	3,415,950	3,932,602	12,470,630	8,537,877	5,539
	1914	66	2,094	1,511,299	1,342,720	4,680,215	3,246,405	5,227
<b>Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....</b>	1920	4,840	90,134	116,422,604	290,008,490	553,583,438	257,574,009	677,908
	1927	4,561	90,589	120,130,713	321,443,318	581,633,737	290,190,419	630,074
	1925	4,701	111,320	140,502,039	403,220,767	710,801,207	307,634,500	597,103
	1923	4,215	103,008	133,328,599	401,173,813	692,781,284	291,619,474	493,421
	1921	4,366	78,033	95,051,153	272,081,818	462,648,874	190,507,956	( <sup>3</sup> )
	1919	5,309	86,050	91,076,620	290,265,652	500,438,258	201,172,500	417,070
	1914	5,841	96,244	61,040,230	184,227,441	307,672,478	133,445,037	410,260
<b>Window and door screens and weather strip.....</b>	1920	280	4,034	4,057,601	10,512,746	24,451,700	13,938,354	14,034
	1927	214	3,661	4,805,057	9,303,982	22,614,301	15,339,370	11,520
	1925	183	3,803	4,087,461	9,515,351	22,497,107	12,852,550	10,074
	1923	165	3,087	4,190,519	9,595,525	21,250,148	11,600,023	9,615
	1921	157	2,120	2,655,825	6,102,420	12,637,778	5,935,468	( <sup>4</sup> ) 7,515
	1919	214	2,179	2,040,768	4,897,389	10,932,857	6,935,468	7,515
	1914	220	3,104	1,891,267	4,200,569	9,167,288	4,900,719	8,128
<b>Wood turned and shaped and other wooden goods, not elsewhere classified<sup>5</sup>.....</b>	1920	894	18,712	18,010,688	28,428,563	69,619,990	41,191,427	88,398
	1927	748	15,937	16,333,285	26,063,007	60,630,005	34,400,098	77,425
	1925	721	14,948	14,802,392	24,635,929	55,728,095	31,092,169	65,110
	1923	715	17,013	10,050,137	27,347,580	50,810,722	32,483,132	65,800
	1921	724	14,639	13,517,045	25,408,723	51,553,013	26,084,200	( <sup>5</sup> )
	1919	967	17,092	14,098,910	26,782,598	50,640,400	29,857,832	65,599
	1914	1,102	18,033	8,412,788	19,118,055	29,208,816	16,090,760	62,924
<b>Wooden-container industries, total.....</b>	1920	1,760	54,972	51,078,070	129,055,812	235,177,631	105,522,110	190,844
	1927	1,648	56,124	52,720,040	134,410,511	235,677,940	101,102,420	192,489
	1925	1,762	57,901	55,671,473	142,774,003	249,612,107	100,843,264	192,281
	1923	1,872	62,121	58,270,757	154,804,443	265,600,597	110,600,151	200,457
	1921	1,872	51,923	46,795,760	125,804,710	204,773,941	78,914,225	( <sup>6</sup> )
	1919	2,808	65,415	57,774,731	172,707,071	300,985,895	118,278,224	185,509
	1914	3,090	66,085	31,688,457	93,052,101	151,490,592	58,447,401	174,068
<b>Baskets and rattan and willow ware, not including furniture.....</b>	1920	273	9,363	9,671,080	8,820,100	22,851,043	14,030,877	20,180
	1927	230	9,205	9,607,806	9,231,144	21,728,900	12,497,756	17,821
	1925	230	6,808	6,032,572	6,767,051	16,658,080	9,980,499	12,704
	1923	215	5,838	4,463,409	6,118,809	14,712,549	8,563,680	11,474
	1921	198	4,705	3,051,485	5,230,308	11,241,001	6,010,633	( <sup>7</sup> )
	1919	375	4,533	3,360,086	4,004,241	11,821,167	6,916,026	6,310
	1914	410	4,574	1,922,065	2,090,285	6,578,408	3,579,183	7,201
<b>Boxes, cigar, wooden.....</b>	1920	118	4,374	3,507,711	5,238,209	12,489,425	7,221,216	5,518
	1927	130	4,577	3,025,329	5,620,725	12,008,739	7,288,514	5,478
	1925	155	4,830	3,060,578	5,450,365	12,921,803	7,474,011	5,210
	1923	170	5,101	4,170,030	6,249,422	14,706,255	8,546,833	6,054
	1921	171	4,057	3,728,362	6,778,439	14,310,054	7,538,515	( <sup>8</sup> )
	1919	189	5,218	3,512,236	6,330,540	13,110,213	6,773,673	5,009
	1914	238	5,835	2,208,842	4,209,480	8,330,007	4,067,421	5,251
<b>Boxes, wooden, except cigar boxes.....</b>	1920	792	30,554	29,193,575	74,081,037	135,025,675	60,943,738	137,261
	1927	748	30,797	29,250,361	75,797,392	133,002,877	58,165,485	135,037
	1925	824	34,834	33,794,709	80,391,171	152,204,579	65,903,403	143,519
	1923	804	30,154	36,464,026	94,080,353	162,857,784	68,777,431	140,410
	1921	878	32,505	28,307,330	73,269,702	122,587,682	40,317,880	( <sup>9</sup> )
	1919	1,140	42,445	30,811,185	102,940,235	177,818,451	74,872,219	143,683
	1914	1,174	38,548	18,200,067	52,839,647	86,560,807	33,727,160	124,240
<b>Cooperage.....</b>	1920	586	10,691	11,705,704	41,515,500	64,841,788	23,326,288	33,885
	1927	528	11,455	12,937,490	43,821,250	66,947,424	23,126,174	33,553
	1925	553	11,483	12,007,014	44,175,086	67,734,662	23,588,070	30,768
	1923	623	12,023	13,182,623	48,355,799	73,134,000	24,778,210	33,519
	1921	625	9,876	10,193,589	40,589,207	59,833,404	16,017,197	( <sup>10</sup> )
	1919	1,099	13,210	14,082,224	58,520,655	88,230,061	29,715,400	30,688
	1914	1,259	17,128	9,160,583	32,043,683	50,017,320	17,073,637	38,177
<b>Furniture and related industries, total.....</b>	1920	4,184	209,010	263,028,805	402,676,237	1,036,658,032	573,982,695	547,199
	1927	3,593	203,338	258,300,241	426,643,600	999,997,940	543,324,250	488,000
	1925	3,601	196,043	244,880,435	418,234,980	951,170,039	532,935,059	434,238
	1923	3,434	182,014	222,400,583	372,544,567	851,801,060	479,250,400	500,080
	1921	3,449	134,937	167,245,987	279,040,911	600,239,374	327,198,433	( <sup>11</sup> )
	1919	3,879	152,847	156,162,148	291,002,000	649,072,813	349,070,747	288,105
	1914	3,964	142,280	80,808,720	138,369,244	302,570,540	164,174,302	258,354
<b>Billiard and pool tables, bowling alleys, and accessories.....</b>	1920	40	1,890	1,802,017	3,238,399	8,821,363	5,552,967	6,402
	1927	34	1,184	1,549,880	2,393,003	7,111,871	4,717,878	2,335
	1925	33	1,037	1,354,064	1,780,623	5,014,310	3,833,600	2,120
	1923	32	876	1,400,590	2,225,920	6,230,394	4,007,474	2,897
	1921	30	925	1,050,978	3,377,473	7,307,920	3,099,447	( <sup>12</sup> )
	1919	49	2,101	2,426,363	6,109,852	15,733,047	9,032,105	5,261
	1914	54	1,453	984,517	2,484,261	4,894,081	2,405,820	3,197

See footnotes at end of summary.

## CENSUS OF MANUFACTURES: 1929

## SUMMARY FOR GROUP 3.—FOREST PRODUCTS: 1914 TO 1929

[See note at head of this table]

INDUSTRY	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel and purchased electric energy	Value of products	Value added by manufacture <sup>1</sup>	Horsepower
<b>Furniture and related industries—Continued.</b>								
Furniture, including store and office fixtures.....	1920	3,778	193,309	\$242,832,096	\$420,454,109	\$958,116,358	\$621,062,189	563,970
	1927	3,228	188,143	238,240,167	392,008,519	885,204,300	493,105,781	455,881
	1925	3,230	181,016	225,297,743	384,875,068	868,710,971	483,844,993	402,719
	1923	3,047	168,157	204,560,069	342,442,530	776,846,732	434,404,202	344,954
	1921	3,038	124,362	144,148,061	253,706,187	550,413,020	290,700,833	( <sup>2</sup> )
	1919	3,279	140,252	143,152,217	265,725,010	579,906,306	314,181,886	265,156
	1914	3,338	130,423	73,401,011	124,096,099	271,610,464	147,614,365	239,052
Mirror and picture frames.....	1929	178	4,446	5,752,196	0,532,524	10,237,807	12,705,373	8,334
	1927	166	4,400	5,893,073	7,056,400	19,488,721	12,432,261	6,228
	1925	162	4,230	5,045,706	6,834,063	19,169,007	12,334,954	6,102
	1923	223	4,496	5,701,320	6,178,448	18,641,496	12,403,048	4,407
	1921	259	3,846	4,879,454	5,643,719	15,448,208	9,804,489	( <sup>2</sup> )
	1919	420	4,708	4,775,227	7,227,232	18,384,562	11,157,330	4,659
	1914	438	4,787	2,850,258	4,468,492	11,014,207	6,645,715	4,054
Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment.....	1929	188	9,784	13,181,656	26,451,148	60,483,314	34,032,166	28,493
	1927	165	9,551	12,617,121	25,094,718	58,163,054	33,068,336	24,210
	1925	167	9,300	12,688,682	24,744,336	57,065,842	32,021,606	23,267
	1923	132	8,485	10,732,610	21,694,669	50,076,444	28,381,775	17,136
	1921	116	5,804	7,160,594	16,313,562	33,010,226	16,696,064	( <sup>2</sup> )
	1919	122	5,786	5,809,351	11,948,072	26,048,808	14,090,830	13,020
	1914	134	5,617	3,672,334	7,343,392	15,051,794	7,708,402	11,151
Other allied industries, total.....	1929	714	37,270	44,260,455	224,249,627	349,820,763	125,571,136	144,538
	1927	623	34,010	39,620,683	207,530,972	325,673,277	118,130,305	128,150
	1925	550	30,836	35,674,947	129,948,886	221,628,851	91,679,965	101,421
	1923	542	30,170	32,538,961	112,960,023	197,342,255	84,382,232	105,097
	1921	530	26,328	27,824,295	97,852,003	177,206,338	79,354,335	( <sup>2</sup> )
	1919	560	26,348	25,990,489	82,340,971	156,483,507	73,142,530	72,369
	1914	461	21,614	11,614,694	41,648,317	72,928,928	31,280,611	53,024
Caskets, coffins, burial cases, and other morticians' goods.....	1929	414	13,033	16,411,027	30,350,294	88,281,872	48,031,578	30,609
	1927	340	11,665	14,420,598	33,327,469	74,800,850	41,563,381	31,105
	1925	326	11,479	14,056,507	32,771,236	70,412,087	37,641,451	29,164
	1923	327	11,593	13,333,045	31,541,179	65,557,821	34,016,642	27,340
	1921	314	9,966	10,585,816	27,016,780	54,795,073	27,778,884	( <sup>2</sup> )
	1919	351	11,890	11,450,957	31,595,287	64,377,133	32,781,846	22,190
	1914	287	9,468	5,381,842	13,257,078	26,325,162	13,068,084	18,060
Cork products.....	1929	35	3,842	4,208,674	12,602,522	23,623,329	10,420,807	14,829
	1927	27	3,185	3,560,013	9,396,123	17,368,825	7,973,702	11,683
	1925	33	3,297	3,538,263	7,208,711	16,020,369	8,751,598	11,084
	1923	30	3,478	3,594,294	8,045,677	15,566,455	7,520,878	10,062
	1921	45	2,774	2,672,250	6,773,301	12,967,768	6,194,467	( <sup>2</sup> )
	1919	62	3,545	3,387,114	9,134,950	15,282,230	7,147,280	8,556
	1914	52	3,454	1,582,431	4,751,440	7,875,407	3,123,967	5,786
Matches.....	1929	21	3,760	4,118,093	12,526,327	20,351,025	7,824,698	17,097
	1927	19	3,905	4,150,988	11,884,075	24,905,835	13,021,760	17,607
	1925	25	4,627	4,706,871	12,913,267	23,741,469	10,828,202	16,314
	1923	22	4,712	4,424,742	11,786,382	23,940,064	12,153,682	15,388
	1921	23	4,539	4,280,438	13,239,571	30,273,873	17,634,362	( <sup>2</sup> )
	1919	21	3,726	3,069,537	6,852,970	18,495,870	11,642,906	12,047
	1914	20	3,800	1,757,975	5,201,598	12,556,270	7,354,681	7,457
Pulp goods.....	1929	45	3,558	4,591,688	12,067,760	27,210,892	15,152,132	14,190
	1927	44	2,966	3,782,927	11,375,407	23,950,127	12,574,720	13,839
	1925	35	3,017	3,767,833	10,286,201	20,270,005	9,683,804	11,338
	1923	40	3,648	4,089,761	11,208,769	20,435,862	9,227,083	13,605
Rules, wood, metal, and other <sup>3</sup> .....	1923	11	219	218,351	289,203	759,194	519,691	714
	1921	11	188	162,291	137,538	533,873	306,335	( <sup>2</sup> )
	1919	13	168	143,290	133,934	480,543	346,600	200
	1914	10	498	223,772	187,171	634,242	447,071	441
Wood preserving <sup>4</sup> .....	1929	199	13,077	14,939,973	147,702,724	190,944,645	43,241,021	57,913
	1927	193	12,269	13,725,557	141,554,898	184,557,640	43,092,742	59,600
	1925	181	8,416	9,605,973	66,799,471	91,184,381	24,474,010	33,621
	1923	193	6,520	6,878,258	59,138,913	71,082,869	20,043,956	37,998
	1921	73	4,153	4,561,849	34,432,474	47,421,907	12,680,523	( <sup>2</sup> )
	1919	73	3,978	4,342,277	23,241,855	33,239,313	9,907,455	10,104
	1914	68	2,830	1,784,650	16,059,754	21,054,867	4,995,103	11,551

<sup>1</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.<sup>2</sup> Revised. (See note 6.)<sup>3</sup> Not called for on schedule.<sup>4</sup> Revised; revision not carried into total for subgroup or aggregate for group.<sup>5</sup> Formerly two industries, "Wood, turned and shaped, not elsewhere classified" and "Wooden goods, not elsewhere classified."<sup>6</sup> At the census for 1929 establishments engaged primarily in the manufacture of sewing-machine cases, cabinets, and tables, formerly classified in the sewing-machine industry, in Group 13, were transferred to the furniture industry. The figures for 1927 have been revised to include such data, but those for earlier years have not been so adjusted.<sup>7</sup> No comparable figures available for earlier years.<sup>8</sup> Abandoned after census for 1923. Manufacturers of rules classified in other industries, according to character of materials used.<sup>9</sup> The figures for cost of materials, value of products, and value added by manufacture for 1925 and earlier years are not comparable with those for 1927 and 1929 because of the inclusion for 1927 and 1929 and the exclusion for earlier years of the estimated value of forest products not owned by the establishments reporting.

## THE PRINCIPAL LUMBER INDUSTRIES

"LUMBER AND TIMBER PRODUCTS, NOT ELSEWHERE CLASSIFIED"; "PLANING-MILL PRODUCTS (INCLUDING GENERAL MILLWORK), NOT MADE IN PLANING MILLS CONNECTED WITH SAWMILLS"; "BOXES, WOODEN, EXCEPT CIGAR BOXES"; "COOPERAGE"

The reports for the lumber industries are included in the series presenting the results of the biennial censuses of manufactures, and also in the annual series of lumber-production reports which have been published by the Bureau of the Census or by the Forest Service, Department of Agriculture, beginning with 1904.<sup>1</sup>

<sup>1</sup> Statistics have been published by the Bureau of the Census for the years 1904, 1906 to 1912, inclusive, 1916, and 1921 to 1929, inclusive, and by the Forest Service for 1905, 1913, 1915 to 1918, inclusive, and 1920. Data for the 1914 lumber production were collected by the Bureau of the Census in connection with the quinquennial census of manufactures and published by the Forest Service in its Annual Report for 1915. The statistics for all years except 1913 and 1914 include data for lath and shingles. For the years 1921 to 1929 the Bureau of the Census and the Forest Service cooperated in collecting data in 12 Western States, and in compiling the statistics of production for the United States.

The statistics showing quantities of products are presented in the current report, so far as possible, in the same form as for preceding years, in order to preserve their comparableness.

Duplication in cost of materials and value of products.—Some duplication in the total cost of materials and the total value of products as shown in the combined statistics for the four industries results from the use of the products of sawmills as materials by planing mills not operated in conjunction with sawmills (see "Description of the industry," p. 440), and of the products of both sawmills and planing mills as materials by box factories and cooperage plants.

### SUMMARY FOR THE PRINCIPAL LUMBER INDUSTRIES, FOR THE UNITED STATES: 1890 TO 1929

[This table presents combined statistics for four industries, namely, "Lumber and timber products, not elsewhere classified," "Planing-mill products (including general millwork), not made in planing mills connected with sawmills," "Boxes, wooden, except cigar boxes," and "Cooperage." Data for establishments with products under \$5,000 in value are included for 1919 and earlier years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size. The figures for the "Lumber and timber products" and "Planing-mill products" industries for all years and for the "Boxes, wooden" and "Cooperage" industries for 1927 and earlier years refer to production; those for the last-named two industries for 1929 represent manufacturers' sales (shipments or deliveries)]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture <sup>1</sup>	Horsepower
1929	19,142	550,403	\$578,000,817	\$831,200,324	\$2,020,923,281	\$1,195,713,957	2,834,445
1927	13,347	552,787	581,080,478	935,021,080	1,997,210,721	1,062,108,041	2,581,508
1925	15,345	624,730	649,080,027	1,113,208,300	2,852,052,344	1,238,784,038	2,820,880
1923	16,005	650,122	658,937,001	1,116,073,798	2,423,238,108	1,300,564,310	2,003,444
1921	14,901	484,751	447,857,029	763,865,170	1,544,371,160	780,505,000	( <sup>2</sup> )
1919	33,667	623,666	632,230,026	631,093,030	2,153,064,180	1,222,271,150	2,046,080
1914	35,503	631,670	320,232,442	551,062,644	1,150,500,938	607,004,204	2,763,044
1909	42,045	714,508	327,700,158	540,270,029	1,205,750,274	685,470,046	2,881,347
1904	26,070	553,715	255,310,815	391,417,028	633,091,403	542,273,775	1,014,793
1899	20,827	630,883	107,181,406	387,114,720	700,432,105	412,317,370	1,087,133
PER CENT OF INCREASE OR DECREASE (-)							
1927-1929	43.4	-0.4	-0.5	-11.1	1.5	12.6	9.8
1925-1927	-13.0	-11.5	-10.5	-16.0	-15.1	-14.9	-8.5
1923-1925	1.7	-3.0	-1.4	-0.3	-2.0	-5.2	8.1
1921-1923	0.9	34.1	47.1	46.2	58.9	67.4	
1919-1921	-55.6	-22.3	-20.2	-18.0	-28.3	-30.1	
1919-1929	-43.1	-11.7	-8.4	-10.8	-5.0	-2.2	-3.3
1909-1919	-19.9	-12.7	92.0	72.4	78.6	83.7	2.3
1899-1909	41.0	34.6	66.2	30.6	60.8	61.4	70.8

<sup>1</sup> Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.  
<sup>2</sup> Not called for on schedule.

## LUMBER AND TIMBER PRODUCTS

**Description of the industry.**—Under the industry designation "Lumber and timber products" are classified logging camps; merchant sawmills; combined sawmills and planing mills,<sup>1</sup> including those engaged in the manufacture of boxes;<sup>1</sup> veneer mills; and cooperage-stock mills. Establishments engaged primarily in the manufacture of baskets and boxes are classified in their respective industries—"Baskets and rattan and willow ware, not including furniture," "Boxes, cigar, wooden," and "Boxes, wooden, except cigar boxes"—even though some of them produce veneers from logs or bolts. Data for the logs or bolts consumed in the manufacture of veneers by such establishments, and for the veneers produced either for their own consumption or for sale, so far as reported, are included in the statistics for the consumption of logs and the production of veneers, Tables 20 to 23, inclusive, in the report on the lumber and timber products industry. Establishments engaged primarily in the manufacture of cooperage are classified in the "Cooperage" industry, regardless of whether they produce the cooperage stock used, but data for the cooperage stock (staves, heading, and hoops) produced, either for their own consumption or for sale, by manufacturers of cooperage are included in the data for the production of tight and slack cooperage stock, Tables 24 to 35, inclusive, in the report on the lumber and timber products industry.

The principal products of logging camps are saw logs; shingle, stave, and heading bolts; hewn and round poles; mine timbers; spars; piling; fence posts; railway ties; and wheel, handle, and excelsior stock. The products of sawmills include rough lumber, shingles, lath, sawed railway ties, and cooperage, spool, pencil, penholder, and veneer stock. The principal planing-mill products are dressed lumber, sash, doors, blinds, interior woodwork, and moldings.

Veneers are cut into so many different thicknesses—ranging from less than one one-hundred-and-twentieth of an inch to more than five-sixteenths of an inch—that it is difficult to obtain accurate data pertaining to the number of square feet made. Many manufacturers failed to supply this information because of lack of records. (See Tables 20 to 23, inclusive.)

The products of cooperage-stock mills are tight and slack staves, heading, and wooden hoops used by coopers in the manufacture of hogsheads, barrels, kegs,

kits, and firkins. Containers for liquids are made from "tight cooperage stock" and containers for solids from "slack cooperage stock." Tight and slack cooperage stock are not, as a rule, produced by the same establishments, because of the differences in the kinds of wood used and in the methods of manufacture employed. (See Tables 24 to 35, inclusive.)

Practically all the products of the establishments in this industry are used as materials for remanufacture by establishments in other industries—for example, the manufacture of furniture—or as building materials.

**Establishments producing less than 200,000 feet of lumber or its equivalent.**—As explained elsewhere (see **GENERAL EXPLANATIONS—Establishments Covered—Size**), the censuses of manufactures are, in general, restricted to establishments reporting products valued at \$5,000 or more. This limitation does not, however, apply in the case of sawmills. For census purposes a mill which sawed less than 200,000 feet of lumber or its equivalent in lath (1,000,000) or in shingles (2,000,000) is treated as an establishment with products valued at less than \$5,000. The figures in Tables 1, 2, 36, and 37 do not include data for mills producing less than 200,000 feet of lumber or its equivalent, but the production figures in the other tables cover all mills which sawed 50,000 feet or more of lumber or its equivalent in lath (250,000) or shingles (500,000).

In addition, reports for 1929 were received from 3,818 still smaller mills, each of which sawed less than 50,000 feet of lumber or its equivalent. The total cut of these small mills, however, amounted to only 87,601,000 feet of lumber, 1,891,000 lath, and 23,611,000 shingles. These amounts, which represent slightly more than two-tenths of 1 per cent of the total production as shown in Tables 6, 7, 8, and 19, are not included in the totals given in any of the tables of this report.

**Omission of data for custom mills.**—At the censuses for 1927, 1925, 1923, 1921, 1914, and 1904 the canvass of sawmills was restricted to merchant mills—that is, establishments engaged mainly or exclusively in sawing timber owned by them—and large establishments engaged in contract sawing. At all decennial censuses (for 1929, 1919, etc.), however, the canvass also covered custom mills; that is, small establishments engaged mainly or exclusively in sawing timber not owned by them. The figures for all years as presented in Table 1 and for 1899 and subse-

<sup>1</sup> Planing mills and box factories not operated in conjunction with sawmills are classified separately. (See pp. 465 and 474.)

quent years as given in Table 5 refer to merchant mills only, but the figures for 1889 and earlier years in Table 5 cover both merchant and custom mills, it being impracticable to separate the data for the two classes of mills for those years. All tables giving statistics for quantities of lumber or other products cover the output of all mills sawing 50,000 feet of lumber or its equivalent per annum.

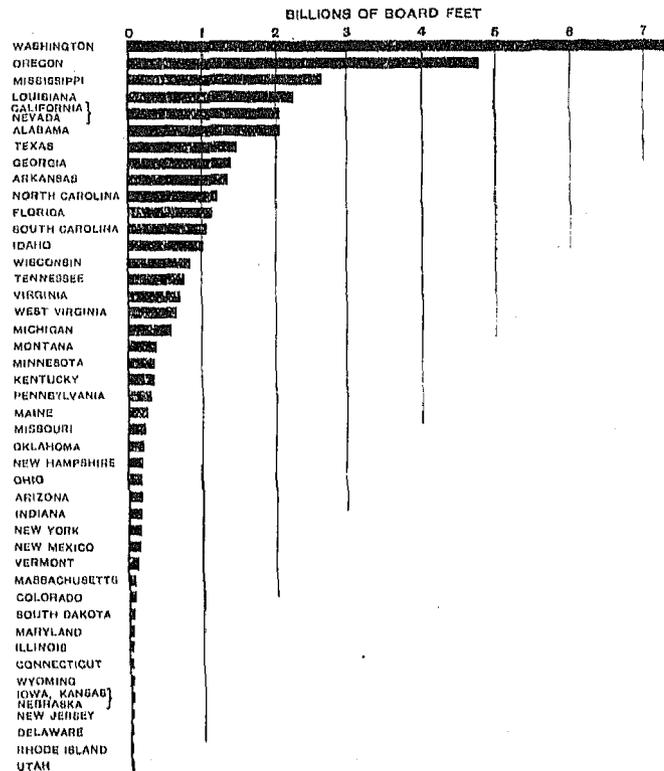
Duplication in cost of materials and value of products.—To the extent to which the products of independent logging concerns are used as materials by sawmills, the value of the products of the former is included both in the total cost of materials and in the total value of products for the industry as a whole. In most cases, however, the logging and the sawing are done by the same establishments, so that no great amount of duplication of this character enters into the totals.

Number of establishments and number of mills.—The numbers of establishments, as shown in Tables 1 and 2, differ somewhat from the numbers of mills, as given in Tables 6, 7, and 19. These differences are due to three causes: (1) The establishments include independent logging camps, which are not, of course, included with mills in Tables 6, 7, and 19. (2) The numbers of mills are the actual numbers of individual mills, whereas in some cases two or more mills operated under a common ownership are counted as a single establishment. (3) The mills include all those whose production amounted to 50,000 feet or more of lumber or its equivalent, whereas the establishments include only those which reported 200,000 feet or more. (See "Establishments producing less than 200,000 feet of lumber," p. 440.)

States reporting more than 1,000,000,000 feet.—The following statement shows, for each of the 13 States which reported the production of more than 1,000,000,000 feet in 1929, the principal species of lumber cut and the percentage which the cut therefrom formed of the total for the State.

STATE	Principal species of timber cut in 1929	Per cent which cut of principal species formed of total for State
Alabama.....	Yellow pine.....	85.5
Arkansas.....	Yellow pine.....	50.0
California.....	Western yellow pine.....	41.6
Florida.....	Yellow pine.....	73.0
Georgia.....	Yellow pine.....	84.1
Idaho.....	White pine.....	42.5
Louisiana.....	Yellow pine.....	58.5
Mississippi.....	Yellow pine.....	80.3
North Carolina.....	Yellow pine.....	73.7
Oregon.....	Douglas fir.....	66.5
South Carolina.....	Yellow pine.....	76.7
Texas.....	Yellow pine.....	80.0
Washington.....	Douglas fir.....	69.0

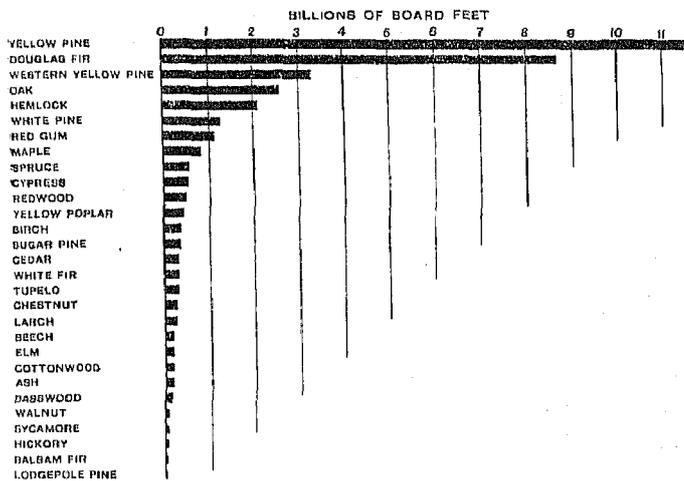
LUMBER CUT, BY STATES: 1929



Principal kinds of wood out.—Seven species each contributed more than 1,000,000,000 feet to the total lumber cut in 1925, 1926, 1927, and 1929, and six in 1928. The cut of yellow pine alone formed more than one-third of the total for 1925, and was only slightly less than one-third of the cut for each year from 1926 to 1929. Statistics for the 29 species of timber which together supplied over 99 per cent of the total cut of lumber in the United States are presented in Table 9, and the production from minor species is given in Table 10. The statement below lists the 17 States which in 1929 led in the production of lumber from 1 or more of these 29 species.

STATE	Kind or kinds of wood in the cut of which the specified State ranked first in 1929
Arkansas.....	Sycamore.
California.....	Redwood, sugar pine, and white fir.
Colorado.....	Lodgepole pine.
Florida.....	Cypress.
Idaho.....	White pine.
Indiana.....	Walnut.
Louisiana.....	Red gum, tupelo, and ash.
Michigan.....	Maple.
Minnesota.....	Cottonwood and balsam fir.
Mississippi.....	Yellow pine.
Montana.....	Larch.
Oregon.....	Western yellow pine.
Pennsylvania.....	Beech.
Tennessee.....	Oak, yellow poplar, and hickory.
Washington.....	Douglas fir, hemlock, cedar, and spruce.
West Virginia.....	Chestnut.
Wisconsin.....	Birch, basswood, and elm.

LUMBER CUT, BY KINDS OF WOOD: 1929



Values of timber products and of sawmill products.—The values of logs and bolts as shown in Table 3 were estimated in part, and therefore these and the total values are given in round thousands of dollars. The bases were the average values reported on the census questionnaires for logs sold and the average costs reported on the Forest Service questionnaires for prices of logs purchased and sold, due allowance being made for costs of delivering logs to the mills. The averages obtained by harmonizing the results from these two sources were adjusted when necessary in accordance with the values of lumber sawed as reported on the census questionnaires. The statistics for timber products other than logs and bolts are not to be considered as complete, because of the fact that an abbreviated questionnaire, which did not call specifically for data on timber products, was used for canvassing many of the small mills.

The total values of lumber shown in Table 4 were obtained by multiplying the production by the average values reported by kinds of wood for the several States.

Average values of lumber, by kinds of wood.—The average values shown in Table 11 were based on returns from a majority of the establishments reporting for each year, and it is believed that they reflect fairly accurately the average values of the several kinds of lumber at the mill, for the United States as a whole. These values vary somewhat in different States because of differences in the quality of timber and the quantities and classes of lumber produced.

Statistics for Alaska.—The canvasses for the censuses of manufactures have not, as a rule, covered the outlying possessions of the United States, but data on the lumber production in Alaska were collected for 1899, 1904, and 1919 and have been collected annually since 1922. The following statement presents statistics compiled from these data, showing the production of lumber and shingles in Alaska from 1899 to 1929.

PRODUCTION OF LUMBER AND SHINGLES IN ALASKA: 1899 TO 1929

YEAR	Number of establishments	LUMBER SAWED (M FEET U. M.)				Shingles (thousands)
		Total	Spruce	Hemlock	All other	
1929.....	19	30,393	21,850	8,205	338	2,354
1928.....	24	31,974	22,748	7,853	1,373	3,333
1927.....	21	41,395	34,571	6,291	533	3,628
1926.....	22	47,950	40,871	5,769	1,320	5,420
1925.....	23	40,557	35,718	2,938	2,201	2,630
1924.....	24	33,097	30,017	1,738	442	5,155
1923.....	20	36,076	33,504	2,266	306	2,279
1922.....	19	50,800	54,005	1,550	620	3,008
1919.....	22	21,673	21,182	491	—	—
1904.....	6	7,974	7,933	—	41	926
1899.....	10	6,571	6,056	15	500	—

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See "Establishments producing less than 200,000 feet of lumber," p. 440]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>	Horsepower	Paid for contract work
1929.....	12,915	410,034	\$421,534,874	\$410,003,388	\$1,273,472,320	\$853,868,932	1,985,301	\$23,009,765
1927.....	7,510	413,940	413,361,054	408,969,120	1,214,645,683	720,086,563	1,781,734	28,483,200
1925.....	9,207	467,090	466,715,065	579,474,682	1,421,161,830	841,687,154	2,649,500	31,308,104
1923.....	9,393	405,932	475,062,443	573,063,833	1,494,462,031	921,308,198	1,932,091	41,245,050
1921.....	9,092	364,247	318,486,957	377,927,443	902,501,306	524,573,863	( <sup>3</sup> )	31,038,315
1919.....	26,119	480,945	489,419,091	470,960,488	1,387,471,413	916,510,925	2,355,345	37,548,473
1914.....	27,229	470,736	239,076,562	281,951,873	715,310,333	433,368,400	2,190,359	31,790,233
1909.....	33,090	547,178	238,866,806	265,559,595	753,388,308	487,828,773	2,818,034	31,107,030
1904.....	19,121	404,563	182,949,649	183,708,206	579,777,310	306,060,614	1,490,516	34,956,938
1899.....	23,043	413,257	147,951,886	242,617,767	555,042,605	312,424,838	1,375,139	( <sup>4</sup> )
PER CENT OF INCREASE OR DECREASE (—)								
1927-1929.....	72.0	1.2	2.0	-15.1	4.8	18.5	11.4	-19.2
1925-1927.....	-18.4	-11.4	-9.5	-14.8	-14.5	-14.4	-13.1	-9.0
1923-1925.....	-2.0	-5.8	-4.0	1.1	-4.9	-8.7	6.1	-24.1
1921-1923.....	3.3	36.2	51.6	51.6	65.6	75.6	—	32.9
1919-1921.....	-65.2	-24.3	-35.0	-19.8	-35.0	-42.8	—	-17.3
1919-1929.....	-50.0	-12.9	-13.0	-10.9	-8.2	-6.8	-15.7	-38.7
1909-1919.....	-21.1	-12.1	104.9	77.3	84.2	87.9	1.7	20.7
1899-1909.....	43.6	32.4	61.4	9.5	35.7	56.1	68.5	—

<sup>1</sup> The figures for all census years refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products.  
<sup>2</sup> Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.  
<sup>3</sup> Not called for on schedule.  
<sup>4</sup> No comparable data.

# LUMBER AND TIMBER PRODUCTS

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TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1910

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States as a group. Certain of the "Other States," however, are more important in the industry than some of the States shown separately. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See "Establishments producing less than 200,000 feet of lumber," p. 440]

STATE	Census year	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	Paid for contract work	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
					Total	Prime movers	Motors run by purchased energy				Total	Materials	Fuel and purchased energy		
United States.....	1929	12,915	21,714	410,084	1,985,301	1,704,202	281,030	\$6,438,366	\$21,684,874	\$23,009,765	\$410,603,388	\$411,076,264	\$8,627,124	\$1,273,472,320	\$653,868,932
	1927	7,510	21,333	413,046	1,781,734	1,553,980	227,748	\$1,956,991	\$11,361,054	\$8,483,260	\$403,959,120	\$493,959,120	(*)	\$1,214,645,683	\$720,686,563
	1910	26,119	26,495	480,945	2,365,345	2,271,473	883,872	\$5,028,273	\$18,010,091	\$7,540,478	\$470,960,488	\$470,960,488	\$1,778,780	\$1,387,471,419	\$610,510,925
Alabama.....	1929	1,141	1,036	25,954	92,825	90,043	2,182	2,457,511	10,257,857	1,294,015	16,310,822	15,999,473	311,349	51,500,007	35,189,185
	1927	814	1,178	27,613	87,308	85,211	2,097	2,420,260	18,028,903	1,807,105	20,580,130	1,462,309	33,610,830	54,206,960	33,610,830
	1910	1,685	1,331	25,778	110,611	100,405	1,206	2,310,862	19,968,420	1,850,932	15,959,005	15,700,781	268,224	55,180,362	30,180,357
Arizona.....	1929	16	90	2,084	8,249	8,249		205,808	2,208,088	(*)	655,425	408,448	180,977	4,410,456	3,764,031
	1927	14	129	1,778	6,361	6,360	1	372,162	1,086,011	60,803	1,243,430	1,243,430		4,462,309	3,218,579
	1910	18	50	972	3,363	3,363		110,484	1,158,052	8,440	628,322	600,616	37,400	2,315,608	1,686,686
Arkansas.....	1929	625	1,302	21,541	88,244	82,084	6,160	3,022,380	17,685,808	1,190,282	19,200,005	18,995,993	270,102	58,063,273	38,707,178
	1927	306	1,321	20,810	80,217	87,123	2,094	3,033,507	17,137,874	1,675,310	23,119,347	23,119,347		57,080,408	34,670,121
	1910	1,500	1,020	30,429	130,686	130,146	540	4,253,070	27,491,844	2,482,037	27,332,623	20,027,359	405,264	84,008,309	66,076,686
California.....	1929	148	1,406	21,822	123,280	105,352	17,927	3,768,787	32,466,404	683,208	10,864,563	10,318,763	545,800	65,197,608	54,333,045
	1927	140	1,360	24,009	125,511	108,357	17,154	3,382,650	34,361,600	605,071	20,304,790	20,304,790		60,783,803	49,440,013
	1910	105	1,024	10,057	68,842	66,568	3,274	2,250,428	22,948,743	506,070	10,530,090	10,211,666	327,626	47,310,672	30,771,672
Colorado.....	1929	61	77	1,210	4,948	4,701	157	136,015	1,455,930	(*)	346,163	308,710	37,453	2,278,660	1,632,497
	1927	62	62	1,100	4,500	4,284	210	114,336	1,278,030	70,688	442,773	442,773		1,925,593	1,225,579
	1910	136	84	823	6,027	5,780	246	117,845	1,053,332	141,335	678,568	672,393	6,166	2,450,731	1,772,173
Connecticut.....	1929	42	14	253	1,720	1,601	38	41,260	254,644	(*)	213,074	204,020	9,054	703,470	580,396
	1927	56	20	406	2,520	2,456	70	44,706	520,802	77,683	402,362	402,362		1,367,287	954,025
	1910	189	40	694	5,713	5,570	143	61,688	715,814	119,468	605,601	605,601	0,920	2,266,556	1,070,964
Delaware.....	1929	10	2	126	701	701		3,042	80,402		80,463	80,463		255,270	174,816
	1927	14	16	178	941	706	176	38,876	124,845	8,330	107,010	107,010		476,496	278,485
	1910	78	16	420	2,564	2,564		22,600	303,726		460,363	460,008	286	1,091,240	624,887
Florida.....	1929	302	785	17,438	68,010	66,138	1,872	2,014,450	12,000,872	374,715	0,071,778	0,802,003	100,776	30,912,873	20,041,095
	1927	146	666	15,247	47,183	45,017	1,566	1,634,433	12,248,910	518,010	10,864,638	10,864,638		32,437,301	21,582,063
	1910	409	71	2,058	97,683	65,870	1,804	1,900,368	10,720,090	673,607	13,533,268	13,467,007	66,182	42,698,091	20,065,233
Georgia.....	1929	1,158	684	15,454	60,812	57,702	3,110	1,301,141	8,011,092	705,570	12,126,886	11,074,737	160,049	31,180,191	10,054,805
	1927	555	550	16,263	50,408	50,007	341	1,153,204	9,005,568	1,070,152	12,313,075	12,313,075		30,780,387	18,473,312
	1910	1,612	403	13,376	50,548	50,466	143	1,111,472	9,078,715	4,060,723	8,700,894	8,323,000	78,694	26,839,279	18,136,385
Idaho.....	1929	101	502	11,228	65,303	30,468	26,825	1,301,800	10,051,800	1,135,080	7,137,275	0,000,271	231,004	33,886,402	26,740,127
	1927	90	465	9,386	53,686	38,864	14,821	1,219,930	11,687,688	1,540,560	10,046,194	10,046,194		31,600,205	21,014,142
	1910	194	403	8,201	47,102	44,818	2,284	960,398	11,084,408	1,292,762	8,478,027	8,478,027	164,828	30,037,027	21,000,600
Illinois.....	1929	52	103	1,280	6,374	4,285	2,089	344,708	1,233,476	(*)	2,828,044	2,705,738	02,306	5,706,736	2,071,604
	1927	26	115	1,106	5,414	3,753	1,661	360,480	1,109,462	67,700	2,760,694	2,760,694		5,304,522	2,537,618
	1910	163	146	1,016	8,311	7,714	597	446,391	1,073,350	32,711	2,071,284	2,018,281	53,003	6,330,180	3,358,896
Indiana.....	1929	207	316	3,254	21,501	12,334	9,267	933,938	3,273,144	20,516	7,040,840	7,763,703	180,142	16,920,622	8,079,777
	1927	140	270	2,921	18,800	9,622	9,274	600,852	3,141,400	103,708	6,892,722	6,892,722		12,862,639	6,460,917
	1910	486	403	4,173	27,984	21,728	6,256	887,013	3,770,450	425,178	8,214,870	8,077,074	137,196	17,775,935	9,501,065
Kansas.....	1929	4	23	122	745	207	448	67,507	156,033	(*)	828,732	820,224	2,508	1,368,603	530,871
Kentucky.....	1929	341	332	4,004	20,006	16,121	3,885	800,221	3,010,130	340,618	0,633,780	6,500,800	123,060	15,486,006	8,832,226
	1927	108	304	3,255	13,487	10,183	3,306	773,262	2,847,560	521,713	6,881,332	6,881,332		12,201,912	6,320,550
	1910	931	465	7,710	35,802	34,201	1,001	1,030,772	0,208,613	1,620,500	0,800,081	0,642,244	158,737	23,283,430	13,482,655
Louisiana.....	1929	274	1,880	30,116	108,630	107,030	700	4,541,173	24,400,911	1,014,512	23,330,003	23,028,813	307,880	78,752,821	55,410,128
	1927	224	1,072	31,010	100,410	105,809	013	4,545,092	27,145,035	1,038,389	30,065,768	30,065,768		85,076,623	50,976,595
	1910	511	2,517	42,194	153,445	152,340	005	6,203,031	42,708,082	2,042,419	37,102,011	36,348,505	754,406	120,716,435	83,013,524
Maine.....	1929	236	175	3,436	27,350	21,597	5,702	368,182	3,320,744	891,051	4,100,880	4,044,298	50,582	11,077,511	0,070,631
	1927	185	185	3,898	26,021	22,056	3,965	335,716	3,013,065	678,860	4,200,883	4,200,883		10,604,352	6,373,464
	1910	637	578	9,794	59,811	56,707	3,014	1,101,920	0,474,567	1,813,417	10,409,460	10,408,543	60,913	28,515,271	18,045,815
Maryland.....	1929	98	42	810	3,787	2,952	835	130,667	694,755		938,381	920,360	0,026	2,488,688	1,550,302
	1927	106	55	943	4,472	3,671	801	138,320	737,334	135,891	957,830	957,830		2,090,206	1,736,376
	1910	303	84	1,844	11,695	11,002	693	180,035	1,481,229	184,203	1,638,476	1,628,501	0,974	4,023,527	2,085,052
Massachusetts.....	1929	82	80	1,010	9,229	5,800	3,336	255,588	1,106,634	100,709	1,088,788	1,019,748	09,040	3,910,100	2,221,408
	1927	70	70	853	7,820	5,845	1,975	158,541	900,071	201,343	1,004,204	1,004,204		3,928,354	2,024,170
	1910	244	71	1,682	14,154	11,832	2,222	133,788	1,045,633	223,603	2,125,558	2,007,244	58,314	5,782,924	3,007,306
Michigan.....	1929	110	468	11,638	60,774	61,597	5,177	1,391,055	14,098,890	1,167,870	12,471,663	11,870,073	604,980	39,100,102	26,628,449
	1927	90	560	12,080	85,942	90,268	25,674	1,613,101	14,707,264	1,102,929	12,202,329	12,202,329		37,495,955	25,038,626
	1910	360	806	14,923	79,449	77,142	2,307	1,627,465	14,593,524	2,332,762	15,093,550	15,471,880	221,676	46,043,856	30,350,299
Minnesota.....	1929	80	177	4,412	18,787	16,073	2,664	447,198	4,744,703	60,175	0,715,008	0,621,464	94,444		

CENSUS OF MANUFACTURES: 1929

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919—Continued

[See note at head of this table]

STATE	Census year	Number of establishments	Salaried officers and employees <sup>1</sup>	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	Paid for contract work	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
					Total	Prime movers	Motors run by purchased energy				Total	Materials	Fuel and purchased energy		
Dollars															
New Hampshire	1929	165	99	1,082	14,052	11,016	3,036	205,715	2,053,188	104,952	4,386,043	4,322,087	61,850	8,259,108	3,872,105
	1927	165	104	2,306	15,005	11,842	3,366	164,349	2,400,712	208,106	6,140,404	6,140,404	—	10,078,216	3,937,812
	1919	327	174	4,976	27,784	20,859	925	302,932	5,002,588	1,535,022	0,080,002	—	34,006	14,902,000	8,877,309
New Mexico	1929	40	77	1,540	6,241	4,859	1,382	207,254	1,430,117	745,676	780,005	664,053	124,052	4,108,302	3,400,207
	1927	34	91	1,743	7,415	5,784	1,051	154,092	1,622,581	895,691	1,197,952	1,197,952	—	4,067,695	3,409,743
	1919	47	87	1,240	4,003	4,003	—	169,828	1,122,887	375,481	653,448	626,240	28,208	2,778,430	2,124,088
New York	1929	174	222	2,700	17,220	12,071	5,155	671,471	2,682,748	431,210	3,992,055	3,888,466	103,689	10,400,120	6,417,074
	1927	166	291	2,295	18,194	13,625	4,500	493,007	2,007,176	495,410	4,398,451	4,398,451	—	9,934,598	5,536,147
	1919	840	377	5,494	46,000	45,055	1,935	703,706	5,251,319	1,077,019	7,466,991	7,206,495	171,496	18,414,957	10,947,906
North Carolina	1929	1,150	810	17,364	68,630	62,025	6,611	1,850,552	12,373,068	699,675	13,523,860	13,212,970	310,800	39,360,383	25,830,523
	1927	597	739	18,403	67,700	52,508	5,302	1,788,463	12,938,467	1,321,782	16,142,724	16,142,724	—	38,764,309	22,821,315
	1919	2,702	1,210	22,728	112,683	111,763	920	2,058,190	10,644,461	1,720,270	15,888,043	15,533,512	356,431	54,928,222	30,030,279
Ohio	1929	268	154	2,007	14,528	10,078	3,550	390,535	1,991,669	60,859	3,235,020	3,143,128	91,602	8,150,804	4,945,774
	1927	167	104	1,730	12,128	8,778	3,350	450,656	1,891,539	105,486	3,784,052	3,784,052	—	7,993,364	4,200,312
	1919	514	251	3,135	20,809	18,798	2,011	450,939	3,048,798	182,841	5,105,793	5,115,721	79,982	12,031,472	6,835,769
Oklahoma	1929	55	102	2,383	10,845	10,815	30	383,263	2,303,420	63,339	1,230,407	1,225,410	4,988	5,901,006	4,730,650
	1927	27	212	2,431	10,725	10,725	—	322,875	2,038,624	109,727	2,058,900	2,058,900	—	5,403,035	3,344,729
	1919	145	108	1,047	8,829	8,790	39	220,300	1,937,871	215,739	1,811,774	1,243,547	568,227	4,903,853	3,592,079
Oregon	1929	608	1,744	34,332	205,658	142,242	63,416	5,120,580	48,310,158	1,669,253	40,080,861	40,017,480	663,381	136,680,812	95,008,951
	1927	363	1,335	30,328	159,917	110,232	49,685	3,732,715	40,788,698	1,784,480	47,632,434	47,632,434	—	112,242,204	64,600,830
	1919	625	1,201	22,884	163,737	142,360	21,371	3,270,501	32,437,677	880,284	32,134,043	31,432,701	701,042	85,347,711	53,213,068
Pennsylvania	1929	324	188	3,417	17,110	16,100	1,010	363,726	3,352,164	610,077	2,798,764	2,712,140	86,605	10,874,012	8,076,268
	1927	338	224	3,552	15,332	14,222	1,110	402,419	3,548,683	604,050	3,084,651	3,084,651	—	10,673,457	9,988,780
	1919	1,384	447	7,703	44,012	43,176	836	639,881	7,381,030	1,300,302	7,843,332	7,688,143	155,189	25,030,803	17,187,471
Rhode Island	1929	9	—	60	590	590	—	—	60,101	—	58,677	58,677	—	161,374	102,607
	1927	9	—	57	435	435	—	—	48,811	—	45,540	45,540	—	139,094	90,548
	1919	23	—	71	1,263	1,263	—	1,080	77,036	2,902	73,458	73,358	100	242,326	168,867
South Carolina	1929	627	658	15,720	54,141	52,133	2,008	1,704,240	9,409,466	518,590	8,860,088	8,677,598	182,490	27,935,772	19,076,684
	1927	207	621	14,539	41,385	39,073	1,412	1,310,904	1,891,328	389,011	8,992,124	8,992,124	—	36,067,141	15,161,001
	1919	610	531	11,713	48,001	47,841	160	1,167,417	9,637,352	450,130	10,065,465	5,800,691	204,774	21,792,368	15,066,903
South Dakota	1929	34	27	852	3,531	3,520	5	74,220	944,625	(9)	847,417	327,025	20,302	1,681,040	1,334,523
	1927	39	39	754	3,410	3,381	38	84,652	727,172	6,907	480,965	480,965	—	1,543,443	1,056,478
	1919	46	31	673	2,842	2,570	272	107,523	702,047	99,196	564,977	550,192	14,875	1,818,741	1,263,764
Tennessee	1929	614	669	10,304	45,458	41,225	4,233	1,874,188	8,053,153	588,237	13,428,387	13,221,953	206,434	32,604,611	19,176,224
	1927	241	866	10,990	30,521	33,136	3,385	1,955,171	8,339,439	698,151	16,313,916	16,313,916	—	20,353,295	20,353,295
	1919	1,460	923	12,847	61,093	59,002	1,431	1,961,705	9,781,185	1,547,049	14,203,086	14,062,127	210,959	38,495,831	24,232,745
Texas	1929	325	819	10,387	58,187	57,462	725	1,862,422	13,915,100	742,422	15,758,161	15,559,567	198,594	44,600,130	28,747,975
	1927	163	880	16,257	54,426	53,517	909	1,888,533	14,271,709	1,146,091	15,688,492	15,688,492	—	43,698,000	28,010,438
	1919	467	1,262	17,359	76,026	73,850	2,175	2,250,761	17,000,612	592,707	15,690,660	15,410,114	271,555	47,884,281	32,108,012
Utah	1929	8	3	69	260	200	—	7,751	63,185	—	12,415	12,415	—	130,105	117,690
	1927	(?)	(?)	(?)	(?)	(?)	—	(?)	(?)	—	(?)	(?)	—	(?)	(?)
	1919	80	2	166	2,043	2,043	—	8,324	180,250	13,850	59,775	56,691	84	387,270	330,405
Vermont	1929	174	123	2,371	10,125	14,607	4,458	285,091	2,204,055	172,870	2,744,475	2,662,877	81,698	7,291,438	4,546,963
	1927	127	59	1,652	15,057	12,404	2,653	109,603	1,535,831	204,955	1,633,703	1,633,703	—	4,551,943	2,918,240
	1919	409	126	3,020	30,580	28,135	2,454	193,538	2,084,167	397,616	2,973,650	2,930,335	34,324	8,301,641	5,387,682
Virginia	1929	811	297	8,720	32,530	20,848	2,688	676,984	6,352,215	419,145	6,770,019	6,042,561	127,458	20,656,537	13,886,618
	1927	305	325	7,561	23,184	21,387	1,747	750,546	6,195,365	1,041,743	6,494,758	6,494,758	—	18,401,408	11,966,650
	1919	1,931	740	16,960	64,501	62,866	1,636	1,250,774	13,412,695	1,240,640	10,604,956	10,439,370	225,586	35,388,875	24,723,919
Washington	1929	772	3,032	58,570	393,434	321,744	71,690	9,259,238	83,753,402	973,970	98,307,706	97,093,036	1,274,731	262,621,468	164,253,702
	1927	538	2,530	55,739	342,771	286,670	56,201	7,536,952	79,269,140	1,438,909	117,441,134	117,441,134	—	237,600,442	120,065,308
	1919	1,130	2,667	53,393	420,518	404,302	16,216	7,030,559	80,482,668	1,693,738	85,309,771	83,873,101	1,433,670	220,512,369	135,205,688
West Virginia	1929	245	388	7,955	25,387	24,519	868	900,432	9,128,999	1,330,155	5,002,344	4,736,174	114,170	23,325,003	18,233,559
	1927	96	382	7,600	22,407	21,701	610	1,003,943	6,416,263	1,098,749	6,357,894	6,357,894	—	22,742,110	16,384,225
	1919	643	488	12,427	40,596	30,710	880	1,345,975	14,023,043	1,818,014	8,551,959	8,239,908	312,051	34,410,523	25,867,664
Wisconsin	1929	139	801	14,489	55,362	48,126	7,237	2,278,060	13,907,320	2,042,486	14,736,322	14,371,907	364,415	44,894,160	30,157,837
	1927	128	829	15,437	53,805	49,767	4,049	2,105,503	15,860,425	1,866,537	17,297,776	17,297,776	—	45,714,935	28,417,159
	1919	372	1,151	21,795	70,967	67,402	3,565	2,531,774	19,659,221	1,070,817	21,391,806	21,024,596	367,300	57,221,434	35,820,638
Wyoming	1929	24	31	793	1,421	1,121	300	90,578	1,037,280	—	213,851	210,700	3,151	1,391,269	1,177,408
	1927	15	36	469	597	597	—	82,375	489,901	—	198,070	198,070	—	873,300	675,270
	1919	68	24	322	1,602	1,607	36	38,270	492,553	24,087	141,809	140,949	920	1,024,919	883,050
Other States <sup>4</sup>	1929	25	43	545	3,077	2,286	791	111,027	532,631	(9)	2,360,741	2,332,635	28,100	3,818,731	1,467,990
	1927	27	48	553	2,059										

# LUMBER AND TIMBER PRODUCTS

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**TABLE 3.—LOGS AND OTHER TIMBER PRODUCTS—PRODUCTION, BY QUANTITY AND VALUE, BY REGIONS:**  
1929<sup>1</sup>

[The figures given in this table refer only to the production of the specified commodities by establishments classified in the "Lumber and timber products" industry, (See "Description of the Industry", p. 440.) They do not, therefore, include data for the same classes of commodities produced on farms, nor for pulpwood produced by establishments classified in the pulp industry.]

REGION	Total value <sup>2</sup>	LOGS AND BOLTS <sup>1</sup>		FIREWOOD		PULPWOOD		FENCE POSTS		POLES, PILES, MASTS, AND SPARS		RAILROAD TIES (HEWED)		OTHER PRODUCTS
		Quantity (M ft., log scale)	Value <sup>3</sup>	Quantity (cords)	Value	Quantity (cords)	Value	Number	Value	Number	Value	Number	Value	Value
United States.....	\$450,022,000	27,782,281	\$433,013,000	203,283	\$1,088,082	704,080	\$7,707,006	5,283,000	\$778,273	2,035,072	\$7,707,007	7,207,123	\$4,811,366	\$4,426,199
Northeastern States <sup>4</sup> .....	20,575,000	682,928	13,047,000	45,112	218,712	234,100	3,065,213	310,003	52,405	104,367	400,108	109,022	120,625	1,772,588
Central States <sup>5</sup> .....	27,272,000	1,173,865	25,324,000	28,904	162,613	80,853	741,801	136,027	42,837	88,062	220,164	768,428	573,483	207,060
Southern States <sup>6</sup> .....	142,171,000	8,808,143	138,231,000	28,231	97,016	58,592	252,655	1,405,778	270,250	307,800	1,490,880	1,747,038	1,060,374	754,590
North Carolina pine States <sup>7</sup> .....	23,037,000	1,502,040	23,367,000	5,887	22,705	23,615	150,130	5,985	2,478	50,840	214,441	71,840	30,602	134,188
Lake States <sup>8</sup> .....	27,429,000	1,167,402	22,057,000	80,213	324,448	281,230	2,400,281	1,720,290	218,710	346,500	750,796	1,520,500	936,401	630,018
North Pacific States <sup>9</sup> .....	100,121,000	10,809,278	103,583,000	39,807	113,768	26,314	131,500	603,518	113,792	410,114	2,140,410	.....	( <sup>10</sup> )	37,067
South Pacific States <sup>11</sup> .....	25,281,000	1,930,033	24,978,000	12,375	65,269	.....	.....	190,472	18,921	.....	( <sup>10</sup> )	244,027	163,534	55,572
North Rocky Mountain States <sup>12</sup> .....	18,802,000	1,137,346	15,884,000	13,049	46,530	.....	( <sup>10</sup> )	503,070	40,378	520,108	2,226,237	622,108	372,838	222,730
South Rocky Mountain States <sup>13</sup> .....	6,677,000	380,841	4,362,000	8,245	32,091	.....	.....	10,950	2,848	117,651	252,245	2,106,735	1,456,355	570,208
Other States <sup>14</sup> .....	1,357,000	40,436	1,280,000	1,870	4,640	.....	.....	4,000	645	425	2,760	40,420	28,674	40,000

<sup>1</sup> Does not include data for logs or other timber products cut for others on contract, for which work \$2,043,810 was received.

<sup>2</sup> Estimated in part. (See "Value of timber products and of sawmill products," p. 442.)

<sup>3</sup> Includes data for 9,137 M feet (b. m.) of hewed timbers valued at \$227,228, and for items covered by footnote 10.

<sup>4</sup> Northeastern States: Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont.

<sup>5</sup> Central States: Illinois, Indiana, Kentucky, Missouri, Ohio, Tennessee, and West Virginia.

<sup>6</sup> Southern States: Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, Oklahoma, and Texas.

<sup>7</sup> North Carolina pine States: North Carolina, South Carolina, and Virginia.

<sup>8</sup> Lake States: Michigan, Minnesota, and Wisconsin.

<sup>9</sup> North Pacific States: Oregon and Washington.

<sup>10</sup> Included in value of "Other products," to avoid disclosing output of individual establishments.

<sup>11</sup> South Pacific States: California and Nevada.

<sup>12</sup> North Rocky Mountain States: Idaho and Montana.

<sup>13</sup> South Rocky Mountain States: Arizona, Colorado, New Mexico, Utah, and Wyoming.

<sup>14</sup> Other States: District of Columbia, Iowa, Kansas, Nebraska, North Dakota, and South Dakota.

## CENSUS OF MANUFACTURES: 1929

TABLE 4.—SAWMILL PRODUCTS, BY QUANTITY AND VALUE, BY REGIONS AND STATES: 1929

REGION AND STATE	Total value	LUMBER		LATH		SHINGLES		OTHER MILL PRODUCTS <sup>1</sup>
		Quantity (M feet b. m.)	Value	Thousands	Value	Thousands	Value	
United States.....	\$1,160,637,193	30,880,032	\$993,738,084	1,705,958	\$5,902,524	6,110,672	\$18,018,588	\$142,977,007
Northeastern States, total.....	49,270,050	1,231,697	39,539,182	81,750	254,715	99,234	312,203	9,163,950
Connecticut.....	1,116,447	30,157	949,007					107,440
Delaware.....	403,589	0,641	272,415	240	840			130,334
Maine.....	8,884,148	237,910	7,177,612	73,767	217,613	96,146	290,130	1,102,703
Maryland.....	2,906,023	64,870	1,495,068	505	2,859	5	15	1,408,081
Massachusetts.....	2,764,647	71,863	2,181,793	20	150	65	325	582,270
New Hampshire.....	5,065,002	191,703	4,746,341	1,065	8,326	422	1,890	909,337
New Jersey.....	2,128,220	15,576	1,556,847	720	2,520	1,285	6,425	562,437
New York.....	9,277,844	169,591	7,896,724	1,203	9,737	277	1,662	1,369,721
Pennsylvania.....	11,162,380	314,250	9,413,076	2,938	10,547	50	400	1,727,463
Rhode Island.....	214,677	6,514	173,002			80	240	41,345
Vermont.....	4,756,267	119,622	3,676,307	636	2,124	904	5,107	1,072,726
Central States, total.....	120,803,007	2,347,232	93,613,281	91,597	354,055	2,084	10,502	35,825,220
Illinois.....	5,880,892	37,681	1,697,204	100	300			4,189,388
Indiana.....	16,485,175	169,970	8,865,077	17	51			7,620,047
Kentucky.....	21,105,019	330,146	13,996,270	3,173	10,471	1,112	5,560	7,153,618
Missouri.....	10,918,069	228,078	7,924,030	1,375	13,750	670	3,350	2,976,330
Ohio.....	10,561,898	175,537	7,196,804	45	375	200	1,000	3,363,719
Tennessee.....	37,871,972	763,828	29,240,420	9,386	41,530	102	592	8,589,380
West Virginia.....	26,913,142	632,992	24,692,876	77,501	237,528			1,932,738
Southern States, total.....	401,758,652	12,483,660	351,580,704	376,084	1,273,550	107,707	397,160	48,507,148
Alabama.....	58,548,550	2,058,904	48,195,415	33,478	114,829	9,890	25,532	10,212,783
Arkansas.....	53,882,161	1,348,318	41,207,563	13,906	40,605	4,808	21,636	12,612,367
Florida.....	36,867,838	1,136,897	32,790,472	107,036	355,360	38,991	137,013	3,504,143
Georgia.....	35,987,052	1,384,260	28,921,737	12,467	41,233	24,073	97,395	6,926,687
Louisiana.....	78,167,904	2,232,360	72,864,712	71,488	221,520	13,705	49,749	5,031,023
Mississippi.....	87,742,702	2,669,496	70,048,741	87,937	307,780	11,158	36,040	8,350,141
Oklahoma.....	6,576,518	199,744	6,277,849	2,982	11,928			236,741
Texas.....	44,045,868	1,451,040	42,274,805	46,830	180,295	4,176	8,895	1,582,373
North Carolina Pine States, total.....	108,586,597	2,078,816	85,045,277	20,774	86,820	34,285	184,363	23,270,137
North Carolina.....	44,263,091	1,202,377	34,215,672	8,206	36,024	24,241	141,325	9,870,070
South Carolina.....	34,427,143	1,007,987	27,754,310	4,071	15,958	10,011	42,847	6,614,023
Virginia.....	29,896,363	768,452	23,075,295	8,497	34,838	33	191	6,786,039
Lake States, total.....	65,140,261	1,771,011	57,537,711	141,230	629,848	73,660	286,070	6,605,620
Michigan.....	22,240,436	571,017	10,390,127	17,520	87,600	35,999	141,836	2,629,873
Minnesota.....	11,770,870	357,180	10,466,676	50,653	249,840	50	160	1,060,164
Wisconsin.....	31,128,955	842,814	27,686,908	67,066	292,403	37,611	144,050	3,095,589
North Pacific States, total.....	286,490,203	12,086,072	251,922,074	805,535	2,632,157	5,664,946	16,512,561	15,423,411
Oregon.....	167,456,736	4,784,909	100,602,976	236,716	811,936	330,672	939,109	5,096,715
Washington.....	179,039,467	7,302,083	151,319,098	568,819	1,820,221	5,333,374	15,573,452	10,326,696
South Pacific States, total.....	68,226,794	2,063,220	64,976,861	54,166	191,206	111,435	260,330	2,792,307
California and Nevada <sup>2</sup> .....	68,226,794	2,063,220	64,976,861	54,166	191,206	111,435	260,330	2,792,307
North Rocky Mountain States, total.....	37,092,807	1,417,592	36,034,589	109,815	370,394	18,108	48,918	638,966
Idaho.....	27,628,022	1,028,791	27,185,580	92,813	304,426	18,088	48,838	80,178
Montana.....	9,464,785	388,711	8,849,009	17,002	65,968	20	80	549,728
South Rocky Mountain States, total.....	10,221,071	425,346	9,965,062	22,113	100,007	113	475	155,527
Arizona.....	4,284,763	174,694	4,188,302	12,063	57,945			38,516
Colorado.....	1,607,359	71,535	1,602,571					4,818
New Mexico.....	3,727,591	148,287	3,579,266	7,699	37,032			111,293
Utah.....	104,053	5,301	103,658	25	182	38	213	
Wyoming.....	497,275	25,629	491,265	1,429	4,848	75	262	900
Other States, total.....	4,038,682	81,458	3,523,253	2,776	9,772			505,657
Iowa, Kansas, and Nebraska <sup>2</sup> .....	2,310,942	20,332	1,838,618					472,324
South Dakota.....	1,727,740	61,126	1,684,635	2,776	9,772			33,333

<sup>1</sup> Veneer and cooperage stock (not including amounts produced and consumed in sawmills reported by establishments classified in the "Lumber and Timber Products" industry and by those engaged primarily in the manufacture of such commodities as baskets, boxes, etc.) and other sawmill products reported by establishments in the "Lumber and Timber Products" industry.

<sup>2</sup> Combined to avoid disclosing output of individual establishments.

# LUMBER AND TIMBER PRODUCTS

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TABLE 5.—LUMBER—PRODUCTION AND PER CENT DISTRIBUTION OF CUT, BY GROUPS OF STATES, FOR SPECIFIED YEARS: 1869 TO 1929

YEAR	Total quantity <sup>1</sup> (M feet b. m.)	NORTHEASTERN STATES <sup>2</sup>		CENTRAL STATES <sup>3</sup>		SOUTHERN STATES <sup>4</sup>		NORTH CAROLINA PINE STATES <sup>5</sup>	
		Quantity (M feet b. m.)	Per cent of total	Quantity (M feet b. m.)	Per cent of total	Quantity (M feet b. m.)	Per cent of total	Quantity (M feet b. m.)	Per cent of total
1929	36,380,032	1,231,607	3.3	2,347,232	6.4	12,483,660	33.8	2,978,816	8.1
1928	34,142,123	1,210,250	3.5	1,663,101	4.9	11,587,530	33.9	2,360,400	7.0
1927	34,532,420	1,231,808	3.6	1,828,050	5.3	12,008,043	34.9	2,407,854	7.0
1926	36,035,030	1,409,030	3.8	1,986,700	5.4	13,002,798	36.2	2,508,453	7.1
1925	38,358,641	1,508,756	3.9	1,908,531	5.1	14,418,275	37.0	2,730,204	7.0
1924	35,980,086	1,018,093	4.6	2,030,512	5.7	13,502,504	37.8	2,040,433	7.4
1923	37,165,505	1,031,111	4.4	2,045,012	5.5	13,524,375	36.4	2,037,003	7.0
1922	31,568,888	1,423,377	4.5	1,702,298	5.0	11,074,771	37.0	2,408,540	7.0
1921	26,960,864	1,707,074	6.7	1,617,425	6.1	11,321,700	42.0	2,208,327	8.2
1920	33,768,800	2,198,000	6.5	2,736,300	8.1	11,490,300	34.0	2,871,000	8.5
1919	34,552,070	2,533,873	7.5	3,015,837	8.7	12,704,433	36.8	3,374,152	9.8
1918	31,800,494	2,373,000	7.4	2,400,000	7.8	11,135,000	34.9	2,040,000	6.3
1917	35,831,239	2,458,146	6.9	2,605,000	7.4	13,000,000	38.8	3,265,000	9.1
1916	36,807,251	3,115,237	7.8	3,315,000	8.3	15,325,000	38.5	4,202,000	10.8
1915	37,011,656	3,775,000	10.2	3,070,000	9.0	15,500,000	36.7	4,300,000	11.0
1914	37,346,023	3,553,092	9.5	3,621,339	9.7	13,383,523	35.8	4,417,404	11.8
1913	38,387,009	3,007,001	8.1	3,930,847	10.2	14,328,810	37.3	3,083,305	10.4
1912	30,158,414	3,712,557	12.3	4,338,440	14.4	13,537,804	44.9	4,580,235	15.2
1911	37,093,297	3,634,743	9.8	4,237,701	11.5	12,221,070	33.0	3,743,386	10.1
1910	40,018,282	3,954,007	9.9	4,074,007	10.2	13,218,670	33.1	4,183,740	10.5
1909	44,509,761	5,197,012	11.7	5,487,165	12.3	14,795,731	33.2	5,177,001	11.6
1899	35,077,595	5,709,221	16.3	5,643,370	16.1	8,403,802	24.0	2,712,186	7.7
1890	23,842,230	4,725,598	19.8	3,120,988	13.1	3,717,728	15.6	1,128,068	4.7
1879	18,091,350	4,042,056	22.5	3,349,232	18.5	1,754,056	9.7	743,433	4.1
1869	12,755,543	4,557,428	35.7	2,284,423	17.9	623,480	7.2	364,261	2.9

YEAR	LAKE STATES <sup>6</sup>		NORTH PACIFIC STATES <sup>7</sup>		SOUTH PACIFIC STATES <sup>8</sup>		NORTH ROCKY MOUNTAIN STATES <sup>9</sup>		SOUTH ROCKY MOUNTAIN STATES <sup>10</sup>		OTHER STATES <sup>11</sup>	
	Quantity (M feet b. m.)	Per cent of total	Quantity (M feet b. m.)	Per cent of total	Quantity (M feet b. m.)	Per cent of total	Quantity (M feet b. m.)	Per cent of total	Quantity (M feet b. m.)	Per cent of total	Quantity (M feet b. m.)	Per cent of total
1929	1,771,011	4.8	12,086,072	32.8	2,003,229	5.0	1,417,502	3.8	425,340	1.2	81,458	0.2
1928	1,803,252	5.3	11,677,201	34.2	1,952,650	5.7	1,305,347	4.0	424,350	1.2	67,875	0.2
1927	1,794,652	5.2	11,318,714	32.8	2,070,811	6.0	1,320,253	3.8	427,938	1.2	63,801	0.2
1926	2,046,928	5.6	12,000,974	32.5	2,187,059	5.9	1,326,169	3.6	343,491	0.9	63,283	0.2
1925	2,444,925	6.4	11,243,708	29.3	2,042,091	5.3	1,529,420	4.0	390,074	1.0	62,848	0.2
1924	2,338,104	6.5	9,032,800	27.6	1,996,400	5.6	1,368,295	3.8	391,750	0.9	60,169	0.2
1923	2,302,301	6.4	10,043,739	28.6	2,118,094	5.7	1,490,847	4.0	311,203	0.8	62,700	0.2
1922	1,944,236	6.2	8,860,045	28.1	1,720,550	5.5	1,161,030	3.7	208,843	0.9	45,183	0.1
1921	1,784,009	6.6	5,854,019	21.7	<sup>12</sup> 1,350,438	5.0	750,000	2.8	195,453	0.7	45,744	0.2
1920	2,386,000	7.1	8,842,000	26.2	1,513,000	4.5	1,380,000	4.1	318,700	0.9	63,000	0.2
1919	2,601,808	7.8	7,538,023	21.8	<sup>12</sup> 1,250,303	3.6	1,052,706	3.0	245,018	0.7	85,143	0.2
1918	3,220,000	10.1	7,313,373	22.9	1,277,034	4.0	1,142,520	3.6	246,774	0.8	52,134	0.2
1917	3,525,000	9.8	7,153,500	20.0	1,417,008	4.0	1,110,000	3.1	260,789	0.7	40,730	0.1
1916	4,050,000	10.2	6,710,000	18.0	1,420,000	3.6	1,230,500	3.1	290,330	0.7	50,184	0.1
1915	3,410,000	9.2	5,940,000	15.2	1,130,000	3.1	1,105,000	3.0	244,094	0.7	57,662	0.2
1914	3,917,666	10.6	5,764,064	15.4	<sup>12</sup> 1,303,183	3.5	1,081,350	2.9	258,483	0.7	45,850	0.1
1913	3,806,040	10.1	6,090,520	17.4	<sup>12</sup> 1,183,380	3.1	1,010,590	2.6	236,126	0.6	60,240	0.2
1912	4,424,429	11.3	6,015,035	15.4	<sup>12</sup> 1,203,050	3.1	985,749	2.5	270,003	0.7	90,104	0.2
1911	4,713,755	12.7	5,868,452	15.0	<sup>12</sup> 1,207,561	3.3	904,086	2.7	290,667	0.8	84,800	0.2
1910	5,030,106	12.6	6,182,125	15.4	<sup>12</sup> 1,254,826	3.1	1,005,073	2.7	320,314	0.8	104,380	0.3
1909	5,476,270	12.3	5,701,911	12.9	<sup>12</sup> 1,143,507	2.9	954,382	2.1	337,093	0.8	170,024	0.4
1899	8,740,842	24.9	2,163,670	6.2	737,760	2.1	321,048	0.9	235,310	0.7	401,465	1.1
1890	8,250,702	34.6	1,510,067	6.3	517,781	2.2	117,311	0.5	132,120	0.6	611,007	2.6
1879	6,278,567	34.7	337,347	1.9	326,340	1.8	39,624	0.2	114,371	0.6	504,730	2.8
1869	3,592,202	28.2	203,036	1.6	353,842	2.8	14,061	0.1	44,735	0.4	417,166	3.3

<sup>1</sup> Computed by the Forest Service, Department of Agriculture, for 1915 to 1918, inclusive, and 1920. For 1910 to 1918, inclusive, 1920, 1922, 1923, 1924, 1925, 1926, 1927, 1928, and 1929 the cut of small mills, each reporting less than 50,000 feet, was omitted, and for 1914, 1921, 1923, 1925, and 1927 the cut of custom mills was also omitted.

<sup>2</sup> Northeastern States: Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont.

<sup>3</sup> Central States: Illinois, Indiana, Kentucky, Missouri, Ohio, Tennessee, and West Virginia.

<sup>4</sup> Southern States: Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, Oklahoma, and Texas.

<sup>5</sup> North Carolina Pine States: North Carolina, South Carolina, and Virginia.

<sup>6</sup> Lake States: Michigan, Minnesota, and Wisconsin.

<sup>7</sup> North Pacific States: Oregon and Washington.

<sup>8</sup> South Pacific States: California and Nevada.

<sup>9</sup> North Rocky Mountain States: Idaho and Montana.

<sup>10</sup> South Rocky Mountain States: Arizona, Colorado, New Mexico, Utah, and Wyoming.

<sup>11</sup> Other States: District of Columbia, Iowa, Kansas, Nebraska, North Dakota, and South Dakota.

<sup>12</sup> Cut for Nevada included under "Other States" for 1900 to 1914, inclusive, and for 1910 and 1921.

CENSUS OF MANUFACTURES: 1929

TABLE 6.—LUMBER—NUMBER AND PRODUCTION OF MILLS CLASSIFIED ACCORDING TO QUANTITY OF LUMBER CUT, BY STATES: 1929

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups. For explanation of differences between total number of mills, as shown in this table, and total number of establishments, as given in Tables 1 and 2, see "Number of establishments and number of mills," p. 441]

STATE	AGGREGATE		CLASS 8 MILLS CUTTING 50,000 M FEET AND OVER		CLASS 7 MILLS CUTTING 25,000 M TO 49,999 M FEET		CLASS 6 MILLS CUTTING 15,000 M TO 24,999 M FEET		CLASS 5 MILLS CUTTING 10,000 M TO 14,999 M FEET <sup>1</sup>		CLASS 4 MILLS CUTTING 5,000 M TO 9,999 M FEET		CLASS 3 MILLS CUTTING 1,000 M TO 4,999 M FEET		CLASS 2 MILLS CUTTING 500 M TO 999 M FEET		CLASS 1 MILLS CUTTING 50 M TO 499 M FEET	
	Number of mills	Quantity (M feet b. m.)	Number of mills	Quantity (M feet b. m.)	Number of mills	Quantity (M feet b. m.)	Number of mills	Quantity (M feet b. m.)	Number of mills	Quantity (M feet b. m.)	Number of mills	Quantity (M feet b. m.)	Number of mills	Quantity (M feet b. m.)	Number of mills	Quantity (M feet b. m.)	Number of mills	Quantity (M feet b. m.)
United States.....	20,037	36,886,032	120	9,525,088	213	7,512,675	211	4,092,850	209	2,642,604	414	2,995,048	3,100	5,523,167	3,585	2,421,900	12,186	2,272,601
Individual States:																		
Alabama.....	1,816	2,058,904			7	234,237	17	311,340	8	95,672	22	162,824	481	790,539	408	281,401	573	176,042
Arizona.....	31	174,594	1		2	148,483	1					1	22,672	6		20	3,439	
Arkansas.....	796	1,348,318	1		10	301,266	12	235,041	8	107,813	30	210,200	121	241,052	143	100,735	471	86,151
Colorado.....	134	71,535	1		1		1				1		10	42,552	16	10,935	100	18,048
Connecticut.....	125	30,157										3	3,962	19	12,763	103	13,432	
Delaware.....	39	9,641												4	2,585	35	7,056	
Florida.....	367	1,136,897			9	348,007	7	126,740	16	106,563	20	198,872	115	240,684	81	61,920	119	23,202
Georgia.....	1,689	1,386,250			2		2		11	101,159	18	128,414	440	650,158	424	286,233	794	160,286
Idaho.....	135	1,028,791	8	563,627	7	236,070	5	88,510	3	34,256	5	35,984	24	50,695	14	9,071	69	10,675
Illinois.....	126	37,681										7	17,520	7	4,814	112	15,347	
Indiana.....	349	169,970							3	68,005	5	34,467	43	92,314	49	33,105	255	44,401
Kentucky.....	835	339,149					2		4	66,806	5	34,467	44	60,866	97	63,911	684	105,807
Louisiana.....	279	2,232,360	1		19	830,321	20	527,000	25	300,817	46	306,035	63	159,007	31	22,730	68	10,750
Maine.....	379	257,010			1		20		2	50,254	3	20,000	59	103,410	49	32,895	268	51,255
Maryland.....	231	54,870										6	8,423	24	15,134	202	31,313	
Massachusetts.....	120	71,863										24	38,500	25	16,903	71	16,454	
Michigan.....	146	571,017	1		6	217,051	9	102,078	6	70,469	9	64,917	12	28,525	8	5,005	96	16,202
Minnesota.....	207	357,180	4	246,657			1		5	753,789			10	22,313	17	10,858	170	23,593
Mississippi.....	1,399	2,069,490	0	309,418	20	770,624	17	339,561	12	151,697	33	223,149	241	420,833	323	214,072	744	150,142
Missouri.....	580	228,078					1		1			20	81,060	117	77,807	441	68,311	
Montana.....	126	388,711	3	220,387	2		1	75,094	1		3	31,340	13	30,203	19	13,202	84	12,416
New Hampshire.....	237	191,703							1		1		58	126,417	57	30,294	120	25,002
New Jersey.....	25	15,570							1				1		3	12,900	20	2,670
New Mexico.....	78	148,287			2		1	85,938	1		2	22,043	12	22,906	9	7,090	51	9,710
New York.....	384	159,691							1		5	45,532	25	40,730	39	25,036	314	48,284
North Carolina.....	1,001	1,202,377			2		1	82,590	7	87,023	20	217,190	203	332,375	352	231,107	1,367	252,002
Ohio.....	472	175,537							38	53,032			38	53,032	77	51,616	357	70,869
Oklahoma.....	105	190,744			2		2	110,247	1				33	68,030	19	12,940	48	7,918
Oregon.....	569	4,784,000	29	2,059,778	27	858,911	16	306,829	16	102,594	43	302,507	154	305,455	70	48,090	214	49,866
Pennsylvania.....	574	314,250			2				3	93,512	2		34	66,231	107	71,080	426	83,418
Rhode Island.....	12	0,514										3	3,845	1		8	19,269	
South Carolina.....	884	1,067,087			4	135,684	5	91,461	11	138,828	20	142,904	192	305,544	244	174,025	408	79,481
South Dakota.....	50	61,126							1				12	52,494	5	3,850	31	4,782
Tennessee.....	1,148	763,828			1		4	110,150	7	89,604	19	133,356	88	151,393	178	118,794	851	160,551
Texas.....	397	1,451,040	2		16	641,806	11	212,339	12	145,730	17	131,776	112	236,100	71	50,318	150	33,505
Utah.....	43	5,301															43	5,301
Vermont.....	280	119,622							5	56,781	3	21,361	28	41,531	51	33,715	201	44,370
Virginia.....	1,356	708,452			1		2	73,237	5			130	200,304	271	176,015	944	180,754	
Washington.....	569	7,302,093	48	3,689,429	53	2,099,124	36	998,601	22	265,521	31	217,119	130	274,204	67	42,843	183	45,132
West Virginia.....	465	632,992	1		2	120,455	5	103,561	7	84,600	18	126,240	42	94,101	47	30,600	343	64,423
Wisconsin.....	215	842,814			0	200,491	10	321,751	12	151,111	13	88,882	18	40,840	18	11,019	132	21,820
Wyoming.....	58	25,629										9	16,972	3	2,025	46	5,732	
Groups of States:																		
Calif., 168 mills; Nov., 1.....	169	2,063,229	15	1,100,600	13	450,703	10	193,366	7	84,267	7	51,460	31	68,864	14	8,602	72	15,449
Iowa, 49 mills; Kans., 17; Nebr., 5.....	71	20,332										5	12,688	1		65	17,044	

The combinations referred to in the following footnotes were made in order to avoid disclosing the production of individual establishments:

- <sup>1</sup> Includes cut of 1 mill in class 8.
- <sup>2</sup> Includes cut of 1 mill in class 6 and 1 mill in class 3.
- <sup>3</sup> Includes cut of 1 mill in class 6 and 1 mill in class 4.
- <sup>4</sup> Includes cut of 2 mills in class 6.
- <sup>5</sup> Includes cut of 2 mills in class 4.
- <sup>6</sup> Includes cut of 1 mill in class 7.
- <sup>7</sup> Includes cut of 1 mill in class 6.
- <sup>8</sup> Includes cut of 2 mills in class 7.
- <sup>9</sup> Includes cut of 1 mill in class 5.
- <sup>10</sup> Includes cut of 1 mill in class 5 and 1 mill in class 4.
- <sup>11</sup> Includes cut of 1 mill in class 5 and 1 mill in class 3.
- <sup>12</sup> Includes cut of 1 mill in class 2.
- <sup>13</sup> Includes cut of 2 mills in class 8.

# LUMBER AND TIMBER PRODUCTS

TABLE 7.—LUMBER—PRODUCTION BY STATES: 1929, 1928, 1927, AND 1919

This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups]

STATE	NUMBER OF ACTIVE MILLS REPORTING				LUMBER SAWED							
					Quantity (M feet b. m.)				Per cent of increase or decrease (—)			
	1929	1928	1927	1919	1929	1928	1927	1919	1928-20	1927-28	1926-27	1919-20
United States.....	20,037	13,268	13,760	20,534	36,886,032	34,142,123	34,532,420	34,552,076	8.0	-1.1	-6.5	0.8
Individual States:												
Alabama.....	1,816	1,502	1,047	1,920	2,058,064	1,080,082	2,171,057	1,798,746	4.0	-8.8	3.2	14.5
Arizona.....	31	25	20	20	174,594	158,047	169,085	73,655	10.5	-6.5	46.7	137.0
Arkansas.....	796	423	400	1,447	1,348,318	1,129,731	1,220,481	1,772,157	10.3	-8.1	-14.7	-23.0
Colorado.....	134	140	110	133	71,535	72,257	67,321	64,864	-1.0	7.3	-10.6	10.3
Connecticut.....	125	139	144	230	30,157	35,356	55,940	89,708	-14.7	-30.8	18.1	-65.2
Delaware.....	30	35	45	80	9,641	13,101	16,824	27,437	-20.7	-21.8	78.4	-64.0
Florida.....	307	203	183	425	1,136,897	995,072	907,128	1,137,432	14.3	0.7	-1.5	(1)
Georgia.....	1,089	982	1,133	1,772	1,380,250	1,039,475	1,201,008	893,965	33.4	-13.5	4.8	55.1
Idaho.....	135	144	145	181	1,028,791	977,468	923,986	765,388	5.3	5.8	-2.5	34.4
Illinois.....	126	52	50	252	37,081	29,023	28,663	64,628	27.2	3.3	-25.3	-41.7
Indiana.....	340	219	256	707	169,070	126,790	148,492	282,487	34.1	-14.0	6.5	-39.8
Kentucky.....	835	331	375	1,222	339,140	174,340	197,018	512,078	94.5	-11.8	-8.8	-33.8
Louisiana.....	279	226	237	476	2,232,300	2,278,422	2,385,724	3,163,871	-2.0	-4.5	-17.4	-20.4
Maine.....	379	411	400	681	267,010	266,523	263,818	596,116	-3.2	1.0	-22.6	-50.7
Maryland.....	231	226	260	500	54,870	59,720	67,541	113,362	-8.1	-11.0	-1.3	-51.0
Massachusetts.....	120	169	175	272	71,863	112,209	88,208	166,811	-36.0	27.2	2.5	-56.0
Michigan.....	146	141	143	373	571,017	572,059	578,254	875,801	-0.2	-1.1	-12.8	-34.8
Minnesota.....	207	130	123	355	357,180	412,343	396,801	699,639	-13.4	3.0	-15.8	-48.0
Mississippi.....	1,396	825	837	1,448	2,669,496	2,524,319	2,556,012	2,390,136	5.8	-1.3	-11.7	11.7
Missouri.....	589	346	350	706	228,078	141,000	180,136	321,383	60.0	-24.0	5.0	-20.0
Montana.....	126	119	120	125	388,711	387,870	390,207	287,378	0.2	-2.1	4.6	35.3
New Hampshire.....	237	279	252	352	191,703	239,201	215,912	338,777	-10.0	10.8	-11.1	-43.4
New Jersey.....	25	22	24	162	15,576	3,220	5,014	36,888	383.7	-30.2	-27.5	-57.8
New Mexico.....	78	77	73	50	148,287	162,030	172,517	86,808	-8.5	-6.1	35.7	70.8
New York.....	384	364	300	1,236	159,591	130,106	142,505	357,704	22.7	-8.7	-16.0	-55.4
North Carolina.....	1,001	1,105	1,142	3,214	1,292,377	1,020,893	1,055,222	1,654,435	17.8	-3.3	8.7	-27.3
Ohio.....	472	332	370	773	175,537	112,220	127,880	280,070	56.4	-12.2	-0.6	-37.3
Oklahoma.....	105	96	74	153	199,744	193,793	169,943	168,493	3.1	14.0	13.3	18.0
Oregon.....	509	440	369	507	4,784,009	4,371,924	3,992,852	2,577,493	0.4	9.5	-10.4	85.0
Pennsylvania.....	574	506	589	1,529	314,250	238,615	277,722	636,471	31.7	-14.1	-12.9	-50.2
Rhode Island.....	12	15	16	30	6,514	4,622	6,815	11,030	40.0	-32.2	25.6	-40.0
South Carolina.....	884	372	370	809	1,007,087	821,016	817,016	621,670	20.9	0.6	-11.3	71.8
South Dakota.....	50	52	48	41	61,126	53,967	46,969	42,070	13.3	15.0	-4.8	42.3
Tennessee.....	1,148	505	506	1,856	763,828	536,306	595,207	792,132	44.0	-10.9	-12.9	-3.6
Texas.....	397	215	194	444	1,451,640	1,446,686	1,446,460	1,379,774	0.3	(1)	-0.7	5.2
Utah.....	43	59	40	82	5,301	7,623	6,152	11,017	-30.5	23.9	-5.0	-55.5
Vermont.....	280	244	252	497	119,622	107,358	90,880	218,479	11.4	18.1	-18.6	-45.2
Virginia.....	1,356	793	688	2,244	798,452	547,706	535,016	1,098,638	29.3	2.3	-20.8	-35.5
Washington.....	509	433	400	592	7,302,063	7,305,277	7,325,892	4,961,220	(1)	-0.3	-2.9	47.2
West Virginia.....	465	225	223	736	932,992	547,823	541,870	763,193	15.5	1.1	-8.0	-17.1
Wisconsin.....	215	191	197	489	842,814	818,850	819,507	1,116,398	2.9	-0.1	-10.2	-24.5
Wyoming.....	58	49	38	54	25,020	24,402	12,863	8,674	5.0	89.7	-33.7	195.5
Groups of States:												
Calif. and Nev.....	169	165	154	161	2,063,220	1,952,659	2,070,811	1,279,698	5.7	-5.7	-5.4	61.2
Iowa, Kans., and Nebr.....	71	25	27	96	20,332	13,998	16,082	21,838	40.2	-18.1	21.3	-6.9

1 Less than one-tenth of 1 per cent.  
 2 Iowa and Kansas only.

CENSUS OF MANUFACTURES: 1929

TABLE 8.—LUMBER—PRODUCTION, BY KINDS OF WOOD: 1929, 1928, 1927, AND 1919

KIND OF WOOD	LUMBER SAWED							
	Quantity (M feet b. m.)				Per cent of increase or decrease (-)			
	1929	1928	1927	1919	1928-29	1927-28	1926-27	1919-1920
Total.....	36,886,032	34,142,123	34,532,420	34,552,076	8.0	-1.1	-0.5	6.8
Ash.....	162,369	130,009	130,820	154,931	17.1	-4.9	-16.8	-1.7
Balsam fir.....	37,602	19,066	15,939	68,030	97.2	19.6	-13.8	-44.7
Basswood.....	133,320	140,094	145,601	183,562	-4.8	-3.8	-4.9	-27.4
Beech.....	180,558	146,207	154,158	368,985	27.0	-5.2	-11.8	-48.0
Birch.....	374,377	337,550	326,788	375,079	10.9	3.3	-10.5	-0.2
Cedar.....	308,830	266,774	305,004	332,234	15.8	-2.8	-16.8	-7.0
Chestnut.....	267,917	259,760	263,771	545,696	3.1	-1.5	-11.3	-50.9
Cottonwood.....	165,300	143,562	103,535	144,155	15.1	38.7	-15.1	14.7
Cypress.....	532,022	601,422	606,079	656,212	6.1	-17.8	-19.0	-18.9
Douglas fir.....	8,688,700	8,440,268	8,443,083	5,902,169	2.8	0.1	-4.1	47.2
Elm.....	175,533	155,003	160,536	194,417	12.8	-2.9	-12.0	-9.6
Hemlock.....	2,098,668	2,221,750	2,070,812	1,754,098	-5.6	7.3	-4.1	19.6
Hickory.....	57,057	47,786	61,584	170,013	10.4	-7.4	-39.7	-66.4
Larch.....	244,719	250,618	288,327	388,121	-2.3	-13.1	13.3	-36.0
Lodgepole pine.....	30,897	26,537	13,255	16,281	16.4	100.2	-51.5	89.8
Maple.....	823,552	742,642	774,000	857,480	10.9	-4.1	-6.0	-4.0
Oak.....	2,574,495	1,830,260	2,013,053	2,708,280	40.7	-0.1	-8.1	-4.9
Red gum.....	1,103,703	907,756	1,101,112	851,431	14.0	-12.1	-2.8	26.0
Redwood.....	485,006	480,827	569,605	410,442	-0.3	-14.5	16.8	18.3
Spruce.....	563,953	571,917	520,467	679,068	-1.4	8.0	-18.2	-42.5
Sugar pine.....	340,294	305,940	282,217	133,658	14.2	8.4	-7.9	161.3
Sycamore.....	57,714	38,454	29,487	28,114	60.1	30.4	-8.3	105.3
Tupelo.....	306,634	316,554	267,192	143,730	-3.1	18.5	4.3	113.3
Walnut.....	71,523	56,650	65,081	30,218	26.3	-13.0	24.9	82.4
Western yellow pine.....	3,288,237	2,976,732	2,798,754	1,755,015	10.5	6.3	-11.8	87.4
White fir.....	307,241	292,085	270,737	223,422	5.2	4.4	-20.1	37.5
White pine.....	1,247,878	1,366,933	1,344,460	1,723,642	-8.7	1.7	-1.6	-27.6
Yellow pine.....	11,629,689	10,610,290	10,891,247	13,032,938	9.6	-2.6	-7.3	-11.0
Yellow poplar.....	435,953	327,833	334,604	328,538	33.0	-2.0	4.1	32.7
Other.....	186,370	155,909	102,576	61,308	19.5	-4.1	52.4	204.6

TABLE 9.—LUMBER—PRODUCTION, BY KINDS OF WOOD, FOR PRINCIPAL STATES: 1929

STATE	Quantity (M feet b. m.)	Average value, M feet, f. o. b. mill	STATE	Quantity (M feet b. m.)	Average value, M feet, f. o. b. mill	STATE	Quantity (M feet b. m.)	Average value, M feet, f. o. b. mill
<b>ASH</b>								
The species of ash covered by this table are as follows: White ash ( <i>Fraxinus americana</i> ); cut principally in the Central States. Green ash ( <i>Fraxinus pennsylvanica lanceolata</i> ); cut principally in the Southern States. Black (or brown) ash ( <i>Fraxinus nigra</i> ); cut in the Lake States and Northwestern States. Red ash ( <i>Fraxinus pennsylvanica</i> ); cut in small quantities in the Eastern States. Oregon ash ( <i>Fraxinus oregona</i> ); cut in the Pacific Northwest.								
United States.....	162,369	\$43.14	Mississippi.....	11,635	\$45.86	Georgia.....	6,303	\$42.91
Louisiana.....	22,346	38.24	South Carolina.....	11,481	50.92	West Virginia.....	4,925	57.07
Arkansas.....	19,855	37.81	Florida.....	10,790	45.08	Michigan.....	4,614	34.51
Tennessee.....	15,253	43.90	Texas.....	8,078	44.01	North Carolina.....	4,356	40.65
			Wisconsin.....	7,485	35.89	Other States <sup>1</sup> .....	25,278	40.12

<sup>1</sup> See Table 19.

**BALSAM FIR**

*Abies balsamea* is the only species cut as balsam fir.

United States.....	37,602	\$25.49	Maine.....	6,292	\$25.80	Michigan.....	1,232	\$30.46
Minnesota.....	26,343	24.95	Vermont.....	2,485	28.40	Other States <sup>1</sup> .....	1,247	24.73

<sup>1</sup> See Table 19.

**BASSWOOD**

The chief species of basswood covered by this table are as follows:  
 Basswood (or linn) (*Tilia glabra*); cut principally in the Lake States.  
 White basswood (*Tilia heterophylla*); cut in the Appalachian Mountain region.

United States.....	133,320	\$39.88	Tennessee.....	5,822	\$10.66	New York.....	3,501	\$37.60
Wisconsin.....	57,099	40.05	North Carolina.....	5,555	37.94	Pennsylvania.....	3,119	35.47
West Virginia.....	17,740	40.07	Kentucky.....	4,931	37.72	Vermont.....	2,636	31.53
Michigan.....	16,922	42.81	Virginia.....	4,688	48.01	Ohio.....	2,007	41.44
			Indiana.....	4,022	41.08	Other States <sup>1</sup> .....	5,288	29.87

<sup>1</sup> See Table 19.

# LUMBER AND TIMBER PRODUCTS

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TABLE 9.—LUMBER—PRODUCTION, BY KINDS OF WOOD, FOR PRINCIPAL STATES: 1929—Continued

STATE	Quantity (M feet b. m.)	Average value, M feet, f. o. b. mill	STATE	Quantity (M feet b. m.)	Average value, M feet, f. o. b. mill	STATE	Quantity (M feet b. m.)	Average value, M feet, f. o. b. mill
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## BEECH

*Fagus grandifolia* is the only species cut for beech lumber.

United States.....	180,558	\$28.30	Ohio.....	22,053	\$22.31	Tennessee.....	9,305	\$33.61
Pennsylvania.....	34,100	29.12	West Virginia.....	13,059	30.27	Vermont.....	7,488	20.62
Indiana.....	24,081	27.53	Kentucky.....	13,733	27.33	Louisiana.....	6,642	25.35
New York.....	24,269	32.14	Michigan.....	13,407	28.60	Other States <sup>1</sup> .....	10,501	26.75

<sup>1</sup> See Table 19.

## BIRCH

The species of birch covered by this table are as follows:

Yellow birch (*Betula lutea*); the principal species cut in the Lake States, New England, and New York.  
Paper birch (*Betula papyrifera*) and gray birch (*Betula populifolia*); cut to a small extent in New England.  
Sweet (or cherry) birch (*Betula tentata*); cut in West Virginia and Pennsylvania.  
River (or red) birch (*Betula nigra*); cut in the Southern States.

United States.....	374,377	\$30.35	Vermont.....	19,440	\$32.37	Pennsylvania.....	6,674	\$34.71
Wisconsin.....	172,191	39.76	Maine.....	18,762	41.04	Massachusetts.....	2,468	26.85
Michigan.....	86,086	37.34	New Hampshire.....	13,470	34.64	Minnesota.....	2,060	24.79
New York.....	33,033	50.48	West Virginia.....	9,271	41.77	Other States <sup>1</sup> .....	9,032	35.66

<sup>1</sup> See Table 19.

## CEDAR

The species of cedar covered by this table are as follows:

Western red cedar (*Thuja plicata*); cut in Washington, Oregon, and Idaho.  
Port orford cedar (*Chamaecyparis lawsoniana*); cut in Oregon.  
Alaska cedar (*Chamaecyparis nootkatensis*); cut in Washington.  
Incense cedar (*Libocedrus decurrens*); cut in California.  
Northern white cedar (or arbovitae) (*Thuja occidentalis*); cut in the Lake States and the Northeastern States.  
Southern white cedar (or juniper) (*Chamaecyparis thyoides*); cut in the Atlantic Coast States.  
Eastern red cedar (*Juniperus virginiana*) and southern red cedar (*Juniperus lucayana*); cut principally in Tennessee, Florida, and Alabama.

United States.....	308,830	\$34.83	California.....	37,707	\$32.27	Tennessee.....	5,026	\$53.75
Washington.....	167,076	36.96	Idaho.....	12,017	20.17	Alabama.....	3,436	83.26
Oregon.....	62,807	35.12	Maine.....	6,161	34.43	Other States <sup>1</sup> .....	8,411	34.78
			North Carolina.....	5,478	37.75			

<sup>1</sup> See Table 19.

## CHESTNUT

*Castanea dentata* is the only species cut for chestnut lumber. Includes several species of chinquapin, such as *Castanea ozarkensis*, cut for ties in Arkansas and possibly in sections farther east.

United States.....	267,917	\$29.51	Virginia.....	32,227	\$29.08	Ohio.....	5,170	\$25.17
West Virginia.....	111,224	32.40	Tennessee.....	31,514	28.34	Other States <sup>1</sup> .....	9,892	29.46
North Carolina.....	44,980	29.78	Pennsylvania.....	10,261	25.18			
			Kentucky.....	13,649	24.05			

<sup>1</sup> See Table 19.

## COTTONWOOD

The species of cottonwood covered by this table are as follows:

Eastern cottonwood (*Populus deltoides*); the species most commonly cut east of the Rocky Mountains and more particularly in the lower Mississippi Valley.  
Swampy cottonwood (*Populus heterophylla*); cut in the Mississippi Valley States.  
Aspen (or popple) (*Populus tremuloides*); cut in the Lake States and the Northeastern States, and to a small extent in the Rocky Mountains and farther west.  
Large-tooth aspen (*Populus grandidentata*); cut in the Lake States and Northeastern States.  
Balsam poplar (*Populus balsamifera*); cut in the Lake States and Eastern States.  
Black cottonwood (*Populus trichocarpa*); cut in the Pacific Coast States.

United States.....	165,306	\$29.70	Louisiana.....	28,042	\$27.39	Missouri.....	4,197	\$27.92
Minnesota.....	44,247	24.73	Arkansas.....	14,068	33.24	Other States <sup>1</sup> .....	24,093	28.00
Mississippi.....	29,946	39.09	Tennessee.....	9,070	29.33			
			Alabama.....	5,624	26.96			

<sup>1</sup> See Table 19.

## CYPRESS

Southern cypress (*Taxodium distichum*) and pond cypress (*Taxodium ascendens*).

United States.....	532,022	\$35.29	South Carolina.....	58,398	\$31.54	Georgia.....	23,095	\$46.17
Florida.....	187,030	30.57	Arkansas.....	54,595	28.53	Texas.....	14,163	36.19
Louisiana.....	111,739	34.11	Mississippi.....	20,896	31.27	Missouri.....	12,473	30.28
			North Carolina.....	24,001	30.83	Other States <sup>1</sup> .....	15,753	31.46

<sup>1</sup> See Table 19.

## DOUGLAS FIR

*Pseudotsuga taxifolia* is practically the only species cut commercially as Douglas fir.

United States.....	8,688,700	\$20.05	Oregon.....	3,182,129	\$19.19	Montana.....	72,830	\$18.21
Washington.....	5,101,356	20.59	California.....	183,738	20.61	New Mexico.....	20,913	23.37
			Idaho.....	108,738	19.20	Other States <sup>1</sup> .....	7,996	20.83

<sup>1</sup> See Table 19.

## CENSUS OF MANUFACTURES: 1929

TABLE 9.—LUMBER—PRODUCTION, BY KINDS OF WOOD, FOR PRINCIPAL STATES: 1929—Continued

STATE	Quantity (M feet b. m.)	Average value, M feet, f. o. b. mill	STATE	Quantity (M feet b. m.)	Average value, M feet, f. o. b. mill	STATE	Quantity (M feet b. m.)	Average value, M feet, f. o. b. mill
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## ELM

The species of elm covered by this table are as follows:

American (white or soft) elm (*Ulmus americana*); cut in all the States east of the Rocky Mountains.

Slippery (or red) elm (*Ulmus fulva*); cut in the same region as American elm.

Rock elm (*Ulmus racemosa*); cut in the Lake States.

Winged elm (*Ulmus alata*) and cedar elm (*Ulmus crassifolia*); cut in small quantities in the lower Mississippi Valley.

United States.....	175,833	\$35.28	Indiana.....	17,361	\$43.30	Mississippi.....	11,252	\$31.33
Wisconsin.....	45,714	35.67	Tennessee.....	16,869	37.69	Ohio.....	9,040	30.65
Michigan.....	23,129	39.65	Arkansas.....	16,162	30.69	Other States <sup>1</sup> .....	20,313	27.03
			Louisiana.....	15,984	32.67			

<sup>1</sup> See Table 19.

## HEMLOCK

The species of hemlock covered by this table are as follows:

Eastern hemlock (*Tsuga canadensis*); cut in the Lake States, Northeastern States, and the Appalachian region.

Western hemlock (*Tsuga heterophylla*); cut in Washington and Oregon.

Mountain hemlock (*Tsuga mertensiana*); cut in small quantities in Washington, Oregon, and California.

Carolina hemlock (*Tsuga caroliniana*); cut in small quantities in the Appalachian region.

United States.....	2,098,608	\$18.90	Pennsylvania.....	80,382	\$26.98	North Carolina.....	12,675	\$16.75
Washington.....	1,252,888	16.63	West Virginia.....	58,133	22.41	Vermont.....	11,907	26.43
Wisconsin.....	282,742	23.53	Maine.....	23,027	22.17	Virginia.....	11,155	22.02
Oregon.....	207,282	18.38	Tennessee.....	19,306	20.35	Other States <sup>1</sup> .....	20,250	22.72
Michigan.....	92,494	23.14	New York.....	13,358	29.67			
			New Hampshire.....	13,009	21.73			

<sup>1</sup> See Table 19.

## HICKORY

Several species of hickory are cut, the principal ones being shagbark hickory (*Hicoria ovala*), big-leaf shagbark hickory (*Hicoria lactinosa*), pignut hickory (*Hicoria glabra*), bitternut hickory (*Hicoria cordiformis*), and mockernut hickory or white hickory (*Hicoria alba*).

United States.....	57,067	\$40.33	Mississippi.....	4,497	\$54.74	Indiana.....	2,584	\$39.74
Tennessee.....	12,841	36.69	Kentucky.....	3,887	30.27	Pennsylvania.....	2,277	26.43
West Virginia.....	9,242	34.25	Ohio.....	3,695	39.37	Other States <sup>1</sup> .....	9,205	30.31
Arkansas.....	5,450	38.00	Alabama.....	3,243	77.13			
			Louisiana.....	3,136	37.68			

<sup>1</sup> See Table 19.

## LARCH

The species of larch covered by this table are as follows:

Western larch (*Larix occidentalis*); the species cut in the Inland Empire and the Pacific Northwest.

Tamarack or larch (*Larix laricina*); cut in the Lake States and New England States.

United States.....	244,719	\$18.35	Idaho.....	83,091	\$18.00	Wisconsin.....	2,500	\$25.59
Montana.....	104,818	17.02	Washington.....	38,258	18.68	Michigan.....	2,050	30.78
			Oregon.....	12,039	18.61	Other States <sup>1</sup> .....	1,973	25.02

<sup>1</sup> See Table 19.

## LODGEPOLE PINE

*Pinus contorta* is the only species cut as lodgepole pine.

United States.....	30,897	\$17.07	Wyoming.....	11,451	\$15.98	Other States <sup>1</sup> .....	7,355	\$17.15
Colorado.....	12,001	20.14						

<sup>1</sup> See Table 19.

## MAPLE

The species of maple covered by this table are as follows:

Sugar (or hard) maple (*Acer saccharum*); cut principally in the Northern States.

Silver (or soft) maple (*Acer saccharinum*); also cut in the Northern States.

Red (or soft) maple (*Acer rubrum*); the principal species of maple cut in the Southern States.

Bigleaf maple (*Acer macrophyllum*); cut in Oregon and Washington.

United States.....	823,552	\$36.93	New York.....	38,222	\$41.15	North Carolina.....	10,058	\$37.69
Michigan.....	296,761	35.39	Ohio.....	32,417	32.37	South Carolina.....	9,940	36.92
Wisconsin.....	195,034	35.44	Indiana.....	27,973	50.50	Mississippi.....	8,216	30.14
West Virginia.....	57,891	30.83	Vermont.....	23,618	34.33	Other States <sup>1</sup> .....	51,682	30.31
Pennsylvania.....	39,939	40.28	Tennessee.....	19,442	44.48			
			Arkansas.....	12,329	37.03			

<sup>1</sup> See Table 19.

# LUMBER AND TIMBER PRODUCTS

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TABLE 9.—LUMBER—PRODUCTION, BY KINDS OF WOOD, FOR PRINCIPAL STATES: 1929—Continued

STATE	Quantity (M feet b. m.)	Average value, M feet, f. o. b. mill	STATE	Quantity (M feet b. m.)	Average value, M feet, f. o. b. mill	STATE	Quantity (M feet b. m.)	Average value, M feet, f. o. b. mill
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## OAK

Commercially the oaks are classed as white and red. The principal commercial species are listed below:

White oaks.—White oak (*Quercus alba*), common throughout the eastern half of the United States; chestnut (or rock) oak (*Quercus montana*), found in the Appalachian region; post oak (*Quercus stellata*) and bur oak (*Quercus macrocarpa*), common throughout the eastern half of the country; overcup oak (*Quercus lyrata*) and swamp chestnut (or basket) oak (*Quercus prinus*), the principal southern white oaks.  
Red oaks.—Red oak (*Quercus borealis maximiliana*), common in the eastern part of the United States; Texas red oak (*Quercus texana*), the principal red oak sawed in the lower Mississippi Valley; pin oak (*Quercus palustris*), found in the Eastern and Central States; scarlet oak (*Quercus coccolinea*), the northern and northeastern red oak; black oak (*Quercus velutina*), common in most States east of the Rocky Mountains; willow oak (*Quercus phellos*), cut mainly in the Southern States; shumard red oak (*Quercus shumardii*), common from eastern Texas to Florida and the South Atlantic States, and through Arkansas and Missouri to Indiana and Illinois.

United States.....	2,574,495	\$38.43	West Virginia.....	208,730	\$44.15	Alabama.....	110,558	\$30.31
Tennessee.....	342,040	41.52	Mississippi.....	173,210	30.05	Pennsylvania.....	92,073	29.26
Louisiana.....	271,168	35.05	Virginia.....	161,034	48.01	Ohio.....	80,333	38.53
Arkansas.....	204,100	36.52	Missouri.....	147,846	30.57	Indiana.....	65,897	52.53
Kentucky.....	210,709	42.54	Texas.....	123,711	33.10	Georgia.....	47,245	26.80
			North Carolina.....	118,731	41.02	Other States <sup>1</sup> .....	155,202	35.35

<sup>1</sup> See Table 19.

## RED GUM

*Liquidambar styraciflua* is the only species cut for red gum lumber. Commercial sap gum is the sapwood of the red gum.

United States.....	1,103,703	\$34.42	Alabama.....	88,440	\$32.78	Florida.....	35,268	\$33.06
Louisiana.....	260,090	35.27	Texas.....	83,325	36.49	North Carolina.....	30,168	28.37
Mississippi.....	181,557	33.04	South Carolina.....	80,047	29.08	Missouri.....	12,420	28.35
Arkansas.....	152,687	34.44	Tennessee.....	70,011	41.40	Virginia.....	10,674	28.37
			Georgia.....	01,240	35.25	Other States <sup>1</sup> .....	18,958	34.70

<sup>1</sup> See Table 19.

## REDWOOD

Redwood (*Sequoia sempervirens*) is the species chiefly cut; bigtree (*Sequoia washingtoniana*) contributes a minor part of the redwood production.

United States.....	485,600	\$31.00	California.....	485,600	\$31.00			
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## SPRUCE

The species of spruce covered by this table are as follows:

Red spruce (*Picea rubra*); the principal species of spruce cut in the Northeastern States and the Appalachian region.  
Sitka spruce (*Picea sitchensis*); the principal species of spruce cut in Oregon and Washington.  
Black spruce (*Picea mariana*); cut in small quantities in the Northeastern States.  
White spruce (*Picea glauca*); cut in the Lake States, New York, and northern New England.  
Engelmann spruce (*Picea engelmannii*); cut in the Rocky Mountain region.

United States.....	503,053	\$28.04	Maine.....	80,120	\$20.18	New Hampshire.....	25,641	\$30.50
Washington.....	104,030	30.15	West Virginia.....	54,135	31.01	Montana.....	16,183	24.01
Oregon.....	139,680	26.10	Vermont.....	32,504	30.30	Other States <sup>1</sup> .....	54,062	25.06

<sup>1</sup> See Table 19.

## SUGAR PINE

*Pinus lambertiana*, the only species cut as sugar pine, is found commercially only in California and southern Oregon.

United States.....	349,204	\$43.08	California.....	327,690	\$44.22	Oregon.....	21,604	\$25.85
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## SYCAMORE

*Platanus occidentalis* is the only species cut as sycamore.

United States.....	57,714	\$30.07	Louisiana.....	4,900	\$20.21	South Carolina.....	1,900	\$30.21
Arkansas.....	15,217	26.72	Alabama.....	3,080	20.40	Georgia.....	1,861	25.18
Tennessee.....	14,090	30.50	Missouri.....	2,231	26.11	Texas.....	1,054	30.00
Mississippi.....	0,172	30.07	Indiana.....	2,150	32.50	Other States <sup>1</sup> .....	2,882	27.35
			Kentucky.....	2,150	30.07			

<sup>1</sup> See Table 19.

## TUPELO

The species of tupelo covered by this table are as follows:

Tupelo gum (or cotton gum) (*Nyssa aquatica*); cut in the Gulf States.  
Black gum (or pepperidge) (*Nyssa sylvatica*); cut in the Atlantic and Central States and sold both as tupelo and as black gum.  
Swamp black gum (*Nyssa biflora*); cut to a small extent in the South Atlantic States.

United States.....	306,634	\$25.30	South Carolina.....	20,318	\$27.22	North Carolina.....	17,074	\$23.15
Louisiana.....	132,207	24.75	Mississippi.....	23,610	20.09	Arkansas.....	13,387	20.70
Texas.....	31,480	24.40	Alabama.....	20,911	26.85	Georgia.....	9,802	25.03
			Florida.....	20,140	22.90	Other States <sup>1</sup> .....	7,976	22.58

<sup>1</sup> See Table 19.

CENSUS OF MANUFACTURES: 1929

TABLE 4.—COTTON GOODS—PRODUCTION, BY CLASS, QUANTITY, AND VALUE, BY STATES: 1929—Continued

[See note at head of this table]

CLASS AND STATE	Number of es- tablishments <sup>1</sup>	QUANTITY		Value	CLASS AND STATE	Number of es- tablishments <sup>1</sup>	QUANTITY		Value
		Pounds	Square yards				Pounds	Square yards	
Cotton goods, all industries—Contd. Woven goods—Continued. Bedspreads and quilts—Contd. All- rayon and part- rayon, total	25	6,069,045	20,741,705	Dollars 7,934,547	Cotton goods, all industries—Contd. Woven goods—Continued. Reps, poplins, and broadcloths— Continued. Average single yarn-count, 41s and over, total	49	30,336,030	135,236,896	Dollars 20,951,098
Massachusetts	6	1,355,032	4,314,011	1,862,918	Massachusetts	20	14,906,580	65,934,079	10,928,457
North Carolina	8	1,791,875	6,019,750	2,323,071	South Carolina	9	5,309,058	24,251,144	3,953,734
Other States (Ala., Me., Pa., R. I., S. C.)	11	2,922,138	10,407,944	3,748,558	Other States (Conn., Me., N. H., N. Y., N. C., R. I.)	20	10,120,392	45,051,673	6,068,907
Cotton bags, made from fabric woven by same establishment (Ala., Conn., Ga., La., Me., Mo., N. Y., Pa.)	12	7,659,518	10,485,645	2,031,568	Pajama checks, dimities, and similar fabrics, total		20,904,845	122,108,968	13,085,354
Pillow tubing (Conn., Ga., Ill., Me., Mass., N. H., N. Y., N. C., S. C.)	19	7,059,588	21,264,466	3,989,009	Massachusetts		6,172,349	49,737,784	6,184,780
Tobacco, cheese, butter, bunting, and bandage cloths, total	31	41,772,410	617,410,845	18,099,850	South Carolina		9,169,298	43,951,905	3,978,590
Massachusetts	11	11,029,314	177,884,474	4,876,876	Other States		5,563,198	28,419,279	2,921,984
North Carolina	3	7,015,715	114,250,611	2,861,267	Average single yarn-count, 40s and under (Ala., Conn., Ga., Mass., N. H., N. C., S. C., Va.)	26	14,833,563	88,378,478	9,008,333
South Carolina	9	15,319,151	202,257,199	6,639,843	Average single yarn-count, 41s and over (Conn., Me., Mass., N. Y., R. I., S. C.)	23	6,071,282	33,730,490	3,477,021
Other States (Conn., Ga., N. H., N. J., N. Y.)	8	8,408,230	123,018,561	3,721,864	Voiles, total		17,908,973	157,449,397	13,406,699
Print cloth, total		301,479,145	1,703,025,248	121,423,305	Massachusetts		13,271,319	118,513,952	10,043,027
North Carolina		29,859,217	157,909,702	11,839,007	Other States		4,637,654	38,935,445	3,363,672
South Carolina		206,187,485	1,170,152,608	82,501,225	Average single-yarn-count, 40s and under, total	20	4,538,344	36,697,293	2,792,319
Massachusetts and Rhode Island		23,247,892	131,426,776	10,069,374	Massachusetts	10	3,095,454	25,783,626	1,978,903
Other States		42,184,551	243,536,162	17,013,699	Other States (Conn., Ga., Me., N. H., N. Y., N. C., R. I.)	10	1,442,890	10,913,667	813,416
Widths narrower than 36 in- ches, total	35	50,110,347	306,071,308	19,277,600	Average single yarn-count, 41s and over, total	38	13,370,629	120,752,104	10,614,380
Massachusetts	8	1,378,096	12,183,104	659,594	Massachusetts	21	10,175,865	92,730,326	8,064,124
South Carolina	15	34,857,342	202,542,897	13,102,468	Other States (Conn., Ga., Me., N. C., R. I., S. C.)	17	3,194,764	28,021,778	2,550,256
Other States (Ala., Ga., Ky., Me., N. H., N. J., R. I., Tenn., Va.)	12	13,874,909	91,345,307	5,515,538	Crêpes, total		5,611,489	36,660,148	6,045,909
Widths 36 inches and wider, total	103	251,368,798	1,396,953,940	102,145,705	Connecticut, Maine, Massa- chusetts, Rhode Island		4,792,271	30,050,310	5,369,671
North Carolina	15	29,859,217	157,909,702	11,839,007	Other States		819,218	6,609,838	676,238
South Carolina	61	171,330,143	967,609,711	69,398,757	Average single yarn-count, 40s and under (Ala., Mass., N. J., R. I., S. C.)	8	1,457,132	7,284,371	831,425
Massachusetts and New Hampshire	13	26,304,207	138,466,449	11,282,591	Average single yarn-count, 41s and over (Conn., Me., Mass., N. C.)	7	4,154,357	29,375,777	5,214,484
Other States (Ala., Ark., Conn., Ga., Me., N. J., N. Y., R. I., Tenn., Va.)	14	23,875,231	132,968,078	9,625,350	Mosquito netting and tarlatan (Conn., Ill., Mass., N. J., N. Y.)	10	3,513,655	33,298,163	2,356,362
Lawns, nainsooks, cambrics, and similar muslins, total		31,144,397	226,553,738	25,418,595	Twirlls and sateens, total		82,492,337	284,117,406	37,441,206
Connecticut		4,223,964	35,404,381	4,489,592	Georgia		16,763,245	36,168,331	6,130,207
Massachusetts		11,026,660	97,174,210	10,012,166	Massachusetts		15,368,434	73,149,815	8,778,656
Rhode Island		5,476,800	25,228,826	4,079,552	North Carolina		4,746,637	16,720,974	2,270,695
South Carolina		2,752,681	10,151,682	1,875,522	Rhode Island		4,389,835	19,938,802	2,536,691
Other States		7,664,292	52,594,639	4,961,763	South Carolina		12,905,638	51,607,835	5,447,679
Average single yarn-count, 40s and under (Conn., Me., Mass., N. H., N. C., R. I., Tenn.)	11	2,404,126	10,626,982	1,100,298	Other States		28,328,493	80,481,599	12,277,278
Average single yarn-count, 41s and over, total	53	28,740,271	215,926,756	24,318,297	Average single yarn-count, 40s and under, total	71	69,467,005	225,685,907	28,384,057
South Carolina	5	2,752,681	10,151,682	1,875,522	Maine	6	1,566,210	3,418,426	683,919
Connecticut, Massachusetts, Rhode Island	38	19,908,472	154,108,686	18,115,748	Massachusetts	17	10,732,715	49,557,959	5,421,149
Other States (Ala., Me., N. Y., N. C., Vt.)	10	6,079,118	45,666,388	4,327,027	North Carolina	0	4,166,006	13,392,580	1,817,316
Reps, poplins, and broadcloths, total		70,678,442	308,620,221	40,554,626	Rhode Island	6	2,954,589	12,564,067	1,404,012
Massachusetts		21,656,374	95,170,439	15,862,151	Alabama and Georgia	14	26,116,308	54,468,501	9,167,967
North Carolina		3,150,211	13,880,749	1,882,726	Other States (Conn., Miss., N. H., N. J., N. Y., S. C., Tenn., Vt., Va.)	22	23,981,177	92,284,374	9,889,694
South Carolina		27,346,535	120,973,704	13,185,129	Average single yarn-count, 41s and over, total	37	13,025,332	58,431,499	9,057,149
Connecticut and Rhode Is- land		12,412,179	53,565,567	6,767,798	Massachusetts	18	4,635,769	23,591,856	3,357,507
Other States		6,113,143	25,029,762	2,856,822	North Carolina	4	530,631	3,328,394	453,379
Average single yarn-count, 40s and under, total	60	40,342,412	173,383,325	19,603,528	Rhode Island	5	1,435,246	7,424,735	1,132,679
Massachusetts	15	6,749,794	29,236,360	4,933,694	Connecticut, Maine, New Hampshire	5	2,933,236	14,427,143	2,194,067
New Hampshire	3	147,513	505,125	119,004	Other States (Ala., Ga., N. Y., S. C.)	5	3,440,450	9,659,371	1,919,517
South Carolina	16	22,037,477	90,722,560	9,231,395	Ginghams, total		30,317,156	147,120,296	17,717,408
Other States (Conn., Ga., Ky., Me., N. J., N. Y., N. C., R. I., Tenn., Va.)	26	11,407,628	46,919,280	5,319,435	North Carolina, South Caro- lina, Virginia		20,624,902	98,035,132	12,064,007
					Other States		9,692,254	49,085,164	5,653,401

TABLE 4.—COTTON GOODS—PRODUCTION, BY CLASS, QUANTITY, AND VALUE, BY STATES: 1929—Continued

[See note at head of this table]

CLASS AND STATE	Number of establishments <sup>1</sup>	QUANTITY		Value	CLASS AND STATE	Number of establishments <sup>1</sup>	QUANTITY		Value
		Pounds	Square yards				Pounds	Square yards	
Cotton goods, all industries—Contd. Woven goods—Continued. Ginghams—Continued. Average single yarn-count, 40s and under, total	36	29,993,503	145,006,845	Dollars 17,247,207	Cotton goods, all industries—Contd. Woven goods—Continued. Draperies—Continued. Average single yarn-count, 41s and over, total	14	1,096,081	3,868,515	Dollars 2,320,665
North Carolina	19	13,198,545	53,587,598	7,585,055	Pennsylvania	3	373,561	792,222	1,149,551
South Carolina	6	3,318,897	23,121,910	1,733,989	Other States (Conn., Me., Mass., N. Y., N. C., R. I., Tex., Va.)	11	722,520	3,076,293	1,171,114
Other States (Ala., Conn., Me., Mass., Miss., N. H., R. I., Tex., Va.)	11	13,476,061	68,297,337	7,978,163	In chief value of rayon (Me., Mass., N. J., N. C., Pa., R. I., S. C.)	18	5,799,158	24,292,002	5,988,490
Average single yarn-count, 41s and over (Me., Mass., N. C., Pa., S. C.)	6	323,653	2,113,451	470,201	Shirtings, made entirely of cotton, total	66	565,859	265,830,195	37,339,976
Cotton table damask (Ga., Me., N. H., N. J., N. Y., N. C., S. C., Va.)	14	12,378,545	35,868,245	8,382,821	Connecticut	263,896	1,490,200	280,877	
Cotton tapestries, total	41	6,639,928	9,810,361	12,995,414	Massachusetts	4,621,939	21,887,602	4,035,348	
North Carolina	4	842,066	1,012,723	650,550	Rhode Island	3,620,930	17,009,012	3,412,328	
Pennsylvania	26	4,216,632	6,501,827	10,430,622	South Carolina	8,702,138	38,874,052	4,857,901	
Other States (Ga., Ky., Md., Miss., N. H., N. J.)	11	1,581,230	2,295,811	1,914,233	North Carolina and Virginia	38,743,703	143,885,033	17,816,122	
Plushes, velvets, and velveteens, total	41,777,351	59,393,597	41,760,522		Other States	10,613,253	42,683,990	6,807,400	
Pennsylvania	15,200,146	16,824,130	16,191,252		Average single yarn-count, 40s and under, total	72	56,122,444	219,094,640	29,357,612
Massachusetts and Rhode Island	8,788,308	12,478,490	8,687,671		Massachusetts	12	1,577,720	7,496,583	1,415,361
North Carolina and South Carolina	6,674,306	8,987,958	7,782,845		North Carolina	24	620,486	92,045,912	11,013,300
Other States	11,114,591	21,103,010	9,098,754		Rhode Island	6	2,293,795	10,739,517	2,121,811
Plushes, total	34,054,259	40,473,750	35,981,435		South Carolina	7	5,268,729	24,609,475	2,901,930
All-cotton, total	40	27,927,018	33,190,317	27,762,701	Other States (Ala., Conn., La., Me., Miss., N. H., Tenn., Tex., Va.)	19	22,361,714	83,303,162	11,905,210
Pennsylvania	18	11,394,956	12,792,533	11,175,947	Average single yarn-count, 41s and over, total	33	10,443,415	46,735,546	7,982,364
New Jersey and Rhode Island	10	9,304,459	10,754,937	8,898,488	Massachusetts	14	3,044,219	14,391,319	2,669,987
Other States (Conn., Del., Md., Mass., N. H., N. Y., N. C., S. C.)	12	7,227,603	9,642,747	7,688,266	North Carolina, South Carolina, Virginia	8	4,076,462	17,324,683	2,608,691
Other, total	18	6,127,241	7,233,433	8,218,734	Other States (Conn., Me., R. I., Vt.)	11	3,322,734	15,019,544	2,703,636
Pennsylvania	10	3,805,190	4,031,547	5,015,305	Shirtings, in chief value of cotton, containing rayon, total <sup>2</sup>	11,707,718	49,837,594	8,116,818	
South Carolina	3	1,836,155	2,160,305	2,008,825	Massachusetts	1,576,455	7,872,703	1,785,674	
Other States (N. H., N. J., N. C., R. I.)	5	485,896	1,091,581	1,194,604	North Carolina	4,862,317	19,034,189	2,737,875	
Velvets (Conn., Ga., N. H., N. J., Tex.)	6	4,300,907	10,694,489	2,006,551	South Carolina	4,582,449	19,180,532	2,879,401	
Velveteens (Ga., Mass., N. Y., R. I., Tenn.)	7	3,422,185	8,225,358	3,772,536	Other States	686,497	3,100,170	714,068	
Corduroys (Ala., Ga., Mass., N. Y., N. C., R. I., Tenn.)	13	15,501,482	27,134,419	9,500,553	Average single yarn-count, 40s and under, total	32	10,146,437	42,258,500	6,269,242
Draperies (except velvets and plushes), total	41,184,860	226,671,163	39,043,368		North Carolina, South Carolina, Texas	18	8,648,005	34,815,016	4,608,950
Massachusetts	13,487,962	93,964,974	12,436,447		Other States (Conn., Mass., N. Y., R. I.)	14	1,498,432	7,443,484	1,660,292
North Carolina	5,894,607	18,839,089	4,592,126		Average single yarn-count, 41s and over (Conn., Mass., Pa., S. C., Vt., Va.)	11	1,561,281	7,579,094	1,847,576
Pennsylvania	1,077,101	2,257,624	3,784,817		Shirtings, in chief value of cotton, containing silk <sup>3</sup> (Conn., Mass., R. I., S. C.)	7	213,259	1,377,803	314,447
Connecticut and Rhode Island	6,848,267	53,976,327	9,546,485		Fabrics (other than shirtings and draperies), in chief value of cotton, containing rayon, total <sup>4</sup>	21,963,487	111,979,184	28,984,042	
Georgia and South Carolina	11,523,070	48,418,294	6,259,302		Massachusetts	7,676,546	44,934,955	12,027,133	
Other States	2,353,853	9,214,855	2,374,191		Rhode Island	2,193,277	11,761,289	3,701,060	
All-cotton, total	26,955,484	171,117,581	22,199,496		North Carolina and South Carolina	6,403,078	24,823,346	5,825,769	
Average single yarn-count, 40s and under, total	54	20,984,037	119,994,791	16,107,889	Other States	5,690,586	30,459,594	7,430,080	
Connecticut	7	2,135,858	18,629,987	2,277,064	Average single yarn-count, 40s and under, total	40	16,062,133	74,416,488	19,789,604
Massachusetts	20	7,136,413	50,927,721	5,802,958	Massachusetts	18	4,818,260	30,495,678	7,960,276
Other States (Calif., Ga., Ky., Me., N. H., N. J., N. C., Pa., R. I., S. C., Tenn.)	27	11,711,766	50,437,083	8,027,867	North Carolina	4	3,285,643	9,555,373	2,363,114
Average single yarn-count, 41s and over, total	24	5,971,447	51,122,790	6,091,607	Rhode Island	5	863,115	2,984,829	1,638,314
Massachusetts	12	3,108,991	27,474,803	2,920,693	Other States (Calif., Conn., Ga., Ky., Me., N. H., N. J., N. Y., Pa., S. C.)	10	7,095,115	31,330,608	7,827,900
Other States (Conn., Ga., Me., N. C., R. I., S. C.)	12	2,862,456	23,647,987	3,170,914	Average single yarn-count, 41s and over, total	25	5,901,354	37,562,696	9,194,438
In chief value of cotton, containing rayon, total <sup>5</sup>	8,430,218	31,261,580	10,855,382		Massachusetts	11	2,853,286	14,439,277	4,066,857
Average single yarn-count, 40s and under, total	34	7,334,137	27,393,065	8,534,717	Rhode Island	4	1,330,162	8,776,460	2,062,746
Massachusetts	8	2,402,527	10,261,909	2,290,644	Other States (Conn., Me., N. H., N. C., Pa.)	10	1,712,906	14,346,959	3,064,835
Other States (Conn., Ga., Md., N. H., N. J., N. Y., N. C., Pa., R. I., S. C., Va.)	26	4,931,610	17,131,156	6,244,073	Fabrics (other than shirtings and draperies) in chief value of cotton, containing silk, total <sup>6</sup>	30	5,096,453	39,581,269	7,564,793
					Massachusetts	18	4,122,795	31,654,902	6,088,663

See footnotes at end of table.

CENSUS OF MANUFACTURES: 1929

TABLE 12.—LUMBER—PRODUCTION IN 1929, AND STOCKS ON HAND AT BEGINNING AND END OF YEARS, 1929, 1927, AND 1925, BY STATES

[This table shows the total cut of lumber during 1929, together with stocks on hand as reported by mills which contributed the specified per cent of the total cut during that year; also the reported stocks on hand at the beginning and end of years 1927 and 1925. Statistics are presented separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups]

STATE	PRODUCTION (M FEET B. M.) 1929		Per cent which production of mills report- ing stocks formed of total produc- tion	STOCKS ON HAND (M FEET B. M.)					
	Total	By mills reporting stocks		1929		1927		1925	
				Jan. 1	Dec. 31	Jan. 1	Dec. 31	Jan. 1	Dec. 31
United States.....	36,886,032	28,811,215	78.1	9,390,732	10,801,545	10,684,199	11,109,225	10,301,273	11,074,877
Individual States:									
Alabama.....	2,058,904	1,074,736	52.2	295,005	397,022	355,860	382,490	325,327	324,971
Arizona.....	174,594	170,732	97.8	30,809	62,727	43,999	68,802	53,923	55,550
Arkansas.....	1,348,318	1,061,392	78.7	442,618	499,336	477,884	485,481	513,401	539,158
Colorado.....	71,535	38,188	53.4	10,335	10,953	11,240	12,281	5,458	13,400
Connecticut.....	30,157	8,790	29.1	6,065	7,732	8,174	11,804	8,915	9,440
Florida.....	1,136,897	887,421	78.1	324,337	380,835	359,981	347,418	314,223	315,833
Georgia.....	1,386,250	653,795	40.7	186,909	236,687	218,199	231,807	203,670	270,300
Idaho.....	1,028,791	979,647	95.2	547,712	549,093	627,013	654,315	705,386	772,104
Illinois.....	37,081	21,406	58.8	13,658	11,724	15,168	13,492	6,538	7,570
Indiana.....	189,970	99,927	58.8	45,179	44,800	40,654	52,654	68,741	52,768
Kentucky.....	339,146	151,758	44.7	76,494	97,325	74,071	85,191	67,080	81,408
Louisiana.....	2,232,800	1,990,240	88.1	712,243	823,103	932,431	939,732	952,875	983,640
Maine.....	267,910	169,442	61.8	72,462	78,515	90,443	95,297	110,302	124,677
Maryland.....	54,870	10,070	18.4	4,810	5,038	7,555	9,498	11,500	13,206
Massachusetts.....	71,893	54,418	75.7	33,000	35,001	28,610	28,455	30,047	32,024
Michigan.....	571,017	496,039	80.9	304,212	322,369	395,615	390,973	415,403	437,340
Minnesota.....	357,180	324,352	90.8	268,730	303,035	265,072	261,055	376,954	413,291
Mississippi.....	2,069,496	2,007,285	75.2	630,611	612,089	542,802	698,814	520,908	550,970
Missouri.....	228,078	104,811	46.0	26,610	29,393	50,273	63,273	69,129	68,594
Montana.....	388,711	351,145	90.3	188,694	195,243	213,358	212,744	186,973	213,605
New Hampshire.....	191,703	89,445	46.7	53,150	62,664	53,411	60,548	78,705	80,020
New Mexico.....	148,287	138,093	93.1	40,692	45,820	42,075	69,080	38,693	40,594
New York.....	159,691	93,232	58.4	40,303	52,035	54,324	62,010	69,992	73,291
North Carolina.....	1,202,377	495,405	41.2	180,514	194,581	232,144	275,535	210,420	234,050
Ohio.....	175,637	62,104	35.4	17,333	20,530	21,023	23,324	20,409	24,283
Oklahoma.....	199,744	169,486	84.9	67,630	70,904	41,498	56,263	31,776	33,423
Oregon.....	4,784,009	4,387,650	91.7	845,600	1,094,427	926,480	952,631	722,936	821,808
Pennsylvania.....	314,260	185,407	59.0	63,770	75,953	80,472	90,145	91,451	101,590
South Carolina.....	1,097,987	614,075	57.5	200,055	244,618	240,889	264,140	216,597	256,915
South Dakota.....	61,126	35,096	57.4	13,194	15,070	11,467	9,710	11,130	12,827
Tennessee.....	763,828	425,797	55.7	252,257	200,927	292,104	331,201	232,382	234,269
Texas.....	1,451,640	1,172,920	80.8	298,808	376,443	372,136	417,434	287,668	310,211
Vermont.....	110,622	55,377	46.3	23,330	30,990	29,044	30,496	48,451	52,678
Virginia.....	708,452	288,118	40.7	105,725	134,107	126,879	142,200	177,732	199,290
Washington.....	7,302,063	6,786,073	92.9	1,201,983	1,444,289	1,409,120	1,484,562	1,259,568	1,307,746
West Virginia.....	632,992	500,660	80.5	265,908	277,504	265,211	278,829	276,415	280,021
Wisconsin.....	842,814	735,530	87.3	426,224	463,643	629,740	470,116	595,411	686,888
Groups of States:									
Calif. and Nev.....	2,093,229	1,997,149	96.8	1,046,293	1,205,695	1,073,066	1,060,551	921,497	981,788
Del., N. J., and R. I.....	31,731	15,531	48.9	20,491	23,151	1,279	2,418	1,368	1,937
Iowa, Kans., Nebr., Utah, and Wyo.....	51,262	23,531	45.9	8,460	10,655	4,554	5,185	4,792	6,765

TABLE 13.—LUMBER—PRODUCTION, AND STOCKS ON HAND AT BEGINNING AND END OF YEAR, BY CLASS OF MILLS: 1929

[This table shows the total cut of lumber during 1929, together with stocks on hand as reported by mills which contributed 78.1 per cent of the total cut. An abbreviated schedule which did not call for data on stocks was used for canvassing the smaller sawmills and other manufacturing establishments. Moreover, many of the mills which reported on the detailed schedule failed to supply data in regard to stocks]

CLASS	Production (M ft. b. m.)	REPORTED STOCKS ON HAND (M FT. B. M.)		Per cent which pro- duction of mills report- ing stocks formed of total produc- tion	CLASS	Production (M ft. b. m.)	REPORTED STOCKS ON HAND (M FT. B. M.)		Per cent which pro- duction of mills report- ing stocks formed of total produc- tion
		Jan. 1, 1929	Dec. 31, 1929				Jan. 1, 1929	Dec. 31, 1929	
Total.....	36,886,032	9,390,732	10,801,545	78.1					
Class 8—Mills cutting 50,000 M feet and over.....	9,525,038	2,754,911	3,093,111	90.1	Class 4—Mills cutting from 5,000 M to 9,999 M feet.....	2,095,048	1,062,553	1,212,150	88.0
Class 7—Mills cutting 25,000 M to 49,999 M feet.....	7,512,075	2,135,008	2,405,399	96.3	Class 3—Mills cutting from 1,000 M to 4,999 M feet.....	5,523,167	828,361	1,024,483	48.4
Class 6—Mills cutting 15,000 M to 24,999 M feet.....	4,092,850	1,373,750	1,565,579	91.1	Class 2—Mills cutting from 500 M to 999 M feet.....	2,421,990	166,288	210,374	23.0
Class 5—Mills cutting 10,000 M to 14,999 M feet.....	2,542,604	972,061	1,128,665	92.2	Class 1—Mills cutting from 50 M to 499 M feet.....	2,272,601	97,800	103,775	9.2

# LUMBER AND TIMBER PRODUCTS

TABLE 14.—LUMBER—PRODUCTION (M FEET B. M.), BY KINDS OF SAWS, BY STATES: 1929

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups]

STATE	Total	CIRCULAR		HAND, GANG, ETC.		STATE	Total	CIRCULAR		HAND, GANG, ETC.	
		Hard-woods	Soft-woods	Hard-woods	Soft-woods			Hard-woods	Soft-woods	Hard-woods	Soft-woods
United States:						Individual States, 1929—					
1929	30,886,032	2,830,334	11,540,708	4,233,353	18,263,637	Continued.	15,576	4,580	687	10,000	
1927	34,532,420	1,902,700	9,105,340	4,187,198	10,277,132	New Jersey					
Individual States, 1929:						New Mexico	148,287		51,700		96,581
Alabama	2,058,064	110,627	1,367,620	109,620	402,088	New York	159,591	96,097	26,620	36,108	2,760
Arizona	174,594		8,250		106,338	North Carolina	1,202,377	148,350	719,248	114,803	219,076
Arkansas	1,348,318	141,858	377,592	384,204	444,574	Ohio	175,537	161,542	755	13,108	42
Colorado	71,535	102	61,343		10,000	Oklahoma	109,744	6,006	78,353	17,939	96,840
Connecticut	30,157	20,239	9,918			Oregon	4,784,009	3,530	1,523,431	8,276	3,248,203
Delaware	6,641	2,340	7,301			Pennsylvania	314,250	176,228	40,212	45,663	52,157
Florida	1,130,897	17,112	481,398	91,363	547,024	Rhode Island		6,514	3,568	2,046	
Georgia	1,380,250	67,089	1,036,379	128,722	63,460	South Carolina	1,067,987	43,248	500,835	146,918	316,986
Idaho	1,028,791		66,646	57	962,688	South Dakota		1	27,921		33,204
Illinois	37,681	26,314	302	10,748	317	Tennessee	768,828	334,034	86,505	214,476	28,723
Indiana	169,070	97,130	21	72,819		Texas	1,451,640	63,213	550,281	200,319	637,827
Kentucky	339,146	202,431	13,700	109,093	13,926	Utah		219	5,082		
Louisiana	2,232,360	105,180	563,408	709,135	851,628	Vermont	119,622	57,257	57,440	2,267	2,658
Maine	257,910	23,540	159,207	1,064	74,060	Virginia	708,452	156,527	387,260	103,946	60,719
Maryland	54,870	23,346	31,524			Washington	7,302,093	17,880	1,726,230	9,476	5,548,477
Massachusetts	71,863	14,124	47,304	4,524	5,911	West Virginia	632,002	179,111	20,593	332,951	100,037
Michigan	571,017	90,032	31,924	352,006	99,155	Wisconsin	842,814	103,672	65,377	385,014	288,721
Minnesota	357,180	20,455	32,175	30,937	273,613	Wyoming	25,620		25,028		
Mississippi	2,669,496	126,255	800,432	369,048	1,313,761	Groups of States, 1929:					
Missouri	228,078	140,080	30,081	43,715	7,302	Calif. and Nev.	2,063,220	411	135,147		1,927,671
Montana	388,711	45	76,697		311,669	Iowa, Kans., and					
New Hampshire	191,703	21,090	131,921	5,547	33,145	Nebr.	20,332	11,944		8,388	

TABLE 15.—LATH—PRODUCTION, FOR SPECIFIED YEARS: 1869 TO 1929

YEAR	Quantity (thousands)	Average value per thousand	YEAR	Quantity (thousands)	Average value per thousand	YEAR	Quantity (thousands)	Average value per thousand
1929	1,705,858	\$3.46	1919	1,724,078	\$4.81	1908	2,080,084	\$2.27
1928	1,003,887	( <sup>1</sup> )	1918	1,362,187	( <sup>1</sup> )	1907	3,003,602	2.82
1927	2,372,333	3.40	1917	2,281,739	( <sup>1</sup> )	1906	3,812,907	3.01
1926	3,083,130	( <sup>1</sup> )	1916	2,754,683	( <sup>1</sup> )	1905	3,111,157	( <sup>1</sup> )
1925	3,161,137	4.28	1915	2,745,134	( <sup>1</sup> )	1904	2,647,847	2.05
1924	2,901,200	( <sup>1</sup> )	1912	2,719,103	( <sup>1</sup> )	1899	2,523,008	1.86
1923	3,328,013	4.50	1911	2,971,110	2.61	1889	2,263,308	1.50
1922	2,940,714	( <sup>1</sup> )	1910	3,404,718	2.31	1879	1,701,788	( <sup>1</sup> )
1921	1,970,696	4.37	1909	3,703,195	2.09	1869	1,205,091	( <sup>1</sup> )
1920	1,952,983	( <sup>1</sup> )						

<sup>1</sup> No data.

TABLE 16.—LATH—PRODUCTION, FOR PRINCIPAL STATES: 1929

STATE	Number of active mills reporting	Quantity (thousands)	STATE	Number of active mills reporting	Quantity (thousands)	STATE	Number of active mills reporting	Quantity (thousands)
United States	528	1,705,858	Mississippi	15	87,937	California	16	54,166
Washington	81	508,819	West Virginia	32	77,501	Texas	12	46,830
Oregon	37	236,716	Maine	29	73,767	Alabama	11	33,478
Florida	24	107,036	Louisiana	21	71,468	Other States <sup>1</sup>	177	131,618
Idaho	18	92,813	Wisconsin	40	67,066			
			Minnesota	16	56,653			

<sup>1</sup> See Table 10.

TABLE 17.—SHINGLES—PRODUCTION, FOR SPECIFIED YEARS: 1869 TO 1929

YEAR	Quantity (thousands)	Average value per thousand	YEAR	Quantity (thousands)	Average value per thousand	YEAR	Quantity (thousands)	Average value per thousand
1929	6,110,672	\$2.06	1919	9,102,704	\$4.10	1908	12,106,483	\$2.00
1928	5,003,690	( <sup>1</sup> )	1918	5,090,182	( <sup>1</sup> )	1907	11,824,475	2.55
1927	6,443,898	2.53	1917	8,696,513	( <sup>1</sup> )	1906	11,858,260	2.04
1926	6,098,346	( <sup>1</sup> )	1916	9,371,838	( <sup>1</sup> )	1905	15,340,000	( <sup>1</sup> )
1925	7,324,027	2.98	1915	8,450,378	( <sup>1</sup> )	1904	14,546,551	1.65
1924	6,862,385	( <sup>1</sup> )	1912	12,037,685	( <sup>1</sup> )	1899	12,102,017	1.50
1923	7,500,893	3.18	1911	12,113,367	2.07	1889	9,275,730	1.84
1922	8,131,242	( <sup>1</sup> )	1910	12,076,302	2.00	1879	5,555,046	( <sup>1</sup> )
1921	6,843,187	2.84	1909	14,307,371	2.03	1869	3,265,516	( <sup>1</sup> )
1920	6,166,416	( <sup>1</sup> )						

<sup>1</sup> No data.

CENSUS OF MANUFACTURES: 1929

TABLE 18.—SHINGLES—PRODUCTION, FOR PRINCIPAL STATES: 1929

STATE	Number of active mills reporting	Quantity (thousands)	STATE	Number of active mills reporting	Quantity (thousands)	STATE	Number of active mills reporting	Quantity (thousands)
United States.....	493	6,110,672	Florida.....	21	38,901	Louisiana.....	7	13,705
Washington.....	135	5,333,374	Wisconsin.....	16	37,611	Mississippi.....	6	11,168
Oregon.....	32	330,072	Michigan.....	8	35,990	South Carolina.....	10	10,011
California.....	18	111,435	Georgia.....	50	24,973	Alabama.....	14	9,806
Maine.....	87	96,146	North Carolina.....	22	24,241	Other States <sup>1</sup> .....	64	14,372
			Idaho.....	3	18,088			

<sup>1</sup> See Table 19.

TABLE 19.—LUMBER, LATH, AND SHINGLES—PRODUCTION OF LUMBER, BY KINDS, AND OF LATH AND SHINGLES, BY STATES: 1929

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups. For explanation of differences between total number of mills, as shown in this table, and total number of establishments, as given in Tables 1 and 2, see "Number of establishments and number of mills," p. 441]

STATE	Number of active mills reporting <sup>1</sup>	Aggregate lumber sawed (M feet b. m.)	SOFTWOOD LUMBER SAWED (M FEET R. M.)														
			Total	Balsam fir	Cedar	Cypress	Douglas fir	Hemlock	Larch	Lodgepole pine	Redwood	Spruce	Sugar pine	Western yellow pine	White fir	White pine	Yellow pine
United States.....	20,178	36,886,032	20,813,345	37,602	308,839	532,022	8,688,700	2,098,668	244,710	30,807	485,606	503,053	349,204	3,288,237	307,241	1,247,878	11,629,689
Individual States:																	
Alabama.....	1,816	2,058,964	1,769,708		3,438	5,066											1,761,200
Arizona.....	31	174,594	174,594				848					65		173,586	66		
Arkansas.....	797	1,348,318	822,166		370	54,565											767,231
Colorado.....	134	71,635	71,343				3,904	160				11,409		42,888	841	50	
Connecticut.....	125	30,167	0,918					3,664	( <sup>2</sup> )							6,240	
Delaware.....	39	9,041	7,301														7,301
Florida.....	369	1,395,897	1,028,422		( <sup>2</sup> )	187,039											840,449
Georgia.....	1,492	1,386,250	1,189,839			23,095			436							770	1,165,627
Idaho.....	137	1,028,701	1,028,734		12,047		108,738	1,418	83,081	3,236		6,244		287,610	88,702	437,508	
Illinois.....	126	37,681	619			616											( <sup>2</sup> )
Indiana.....	349	169,070	21		( <sup>2</sup> )												
Kentucky.....	836	339,146	27,632		2,024	1,940			5,585							2,401	15,562
Louisiana.....	279	2,232,360	1,418,036			111,730											1,300,295
Maine.....	386	257,910	233,297		6,202	6,101			28,027	( <sup>2</sup> )		80,126				117,663	
Maryland.....	231	54,870	31,524			120			( <sup>2</sup> )							886	30,488
Massachusetts.....	120	71,863	53,215			( <sup>2</sup> )			6,559			1,250				45,371	
Michigan.....	146	571,017	122,079		1,232	2,084			92,494	2,650		3,317				20,302	
Minnesota.....	212	567,180	305,788		20,343	414				1,781		10,855				266,396	
Mississippi.....	1,398	2,069,400	2,174,193			( <sup>2</sup> )	29,890										2,144,295
Missouri.....	589	228,078	37,383			160	12,473										24,760
Montana.....	126	388,711	388,669			( <sup>2</sup> )	72,830		104,818	2,842		16,183		170,047	213	21,697	
New Hampshire.....	237	191,703	105,090		694	237			13,000			26,641				125,485	
New Jersey.....	25	15,576	687			343			( <sup>2</sup> )								332
New Mexico.....	78	148,287	148,287				20,913					2,502		110,335	2,537		
New York.....	384	159,591	28,380		86	( <sup>2</sup> )			13,358	( <sup>2</sup> )		1,904				12,307	596
North Carolina.....	1,964	1,292,377	939,224			5,478	24,001		12,676			6,769				4,427	885,874
Ohio.....	472	175,537	797						( <sup>2</sup> )			67				708	
Oklahoma.....	105	190,744	176,199														175,190
Oregon.....	688	4,784,009	4,772,194			62,807	3,182,120	207,282	12,039			139,589	21,604	1,110,389	23,742	3,613	
Pennsylvania.....	574	314,250	92,309			( <sup>2</sup> )			80,382			176				11,439	302
Rhode Island.....	12	6,514	2,946						205								
South Carolina.....	886	1,067,987	877,821			798	58,396										818,625
South Dakota.....	50	61,126	61,125										61,125				
Tennessee.....	1,148	793,828	115,318			5,026	6,782		10,300							7,138	77,000
Texas.....	401	1,451,040	1,188,108			( <sup>2</sup> )	14,163										1,173,937
Utah.....	43	5,301	5,082			( <sup>2</sup> )		734				854		2,222	138		
Vermont.....	280	110,022	90,908		2,488	136			11,807	129		32,594				12,784	
Virginia.....	1,350	708,452	447,979			269	1,259		11,155			333				6,418	428,545
Washington.....	656	7,302,063	7,274,707			107,676	5,101,356	1,252,888	38,288			161,030	440,420	28,400	75,070		
West Virginia.....	465	632,992	120,930			( <sup>2</sup> )		58,133				54,135			2,673		5,986
Wisconsin.....	215	842,814	354,998		407	780		282,742	2,500			4,585			63,015		
Wyoming.....	58	25,029	25,028				2,510				11,451			7,757	57		
Groups of States:																	
Calif. and Nev.....	172	2,063,229	2,062,818			37,797	188,738	2,159			144	485,606	400	327,690	857,858	162,426	
Iowa, Kans., and Nebr.....	71	20,332							64	63							
Undistributed.....						187											3

<sup>1</sup> The differences between the numbers of mills shown in this table and in Tables 6 and 7 are due to the inclusion in this table and the exclusion from Tables 6 and 7 of data for mills engaged exclusively in sawing lath or shingles.  
<sup>2</sup> Less than 60 M feet; included in "Undistributed" item.

# LUMBER AND TIMBER PRODUCTS

**TABLE 19.—LUMBER, LATH, AND SHINGLES—PRODUCTION OF LUMBER, BY KINDS, AND OF LATH AND SHINGLES, BY STATES: 1929—Continued**

(See note at head of this table)

STATE	HARDWOOD LUMBER SAWED (M FEET B. M.)																	Lath (thous- ands)	Shingles (thous- ands)
	Total	Ash	Bass- wood	Beech	Birch	Chest- nut	Cotton- wood	Elm	Hick- ory	Maple	Oak	Red Gum	Sycam- ore	Tupelo	Wal- nut	Yellow poplar	All other		
United States	7,072,687	152,360	133,320	186,558	374,377	207,017	165,300	175,833	57,057	823,552	2,574,405	1,103,703	57,714	306,634	71,523	435,055	180,376	1,705,858	6,110,072
Individual States:																			
Alabama	280,256	3,210	176	1,092	136	150	5,624	2,149	3,243	828	110,568	88,440	3,030	20,911	196	46,030	2,515	33,478	9,896
Arizona	520,152	10,855	55	513	662		18,008	16,162	5,450	12,320	204,100	152,087	15,217	13,387	946	977	4,844	12,063	13,000
Arkansas	192						192												
Colorado	20,239	576	105	878	1,297	2,570	(?)	630	264	2,014	10,483			(?)	430	70			
Connecticut	2,340																		
Delaware	108,476	10,760	54	209			51	539	798	4,263	12,026	35,298	108	20,146		13,232	10,907	107,036	
Florida	100,411	6,303	(?)	142	(?)	1,300	2,180	1,306	616	3,270	47,245	61,240	1,861	9,802	88	60,441	4,317	92,813	38,991
Georgia	57						57											24,073	
Idaho	37,062	438	103	768	(?)	(?)	1,471	1,042	1,335	2,704	18,065	2,671	424	1,153	4,401	245	526	90,146	18,088
Illinois	160,340	2,855	4,022	24,081	165	146	670	17,361	2,584	27,075	66,807	1,330	2,156	14,814	3,625	1,055		17	
Indiana	311,514	2,766	4,031	13,733	579	13,049	660	1,009	3,887	6,801	210,700	6,428	2,156	476	5,400	34,963	2,407	3,179	1,112
Kentucky	814,324	22,340	271	6,642			28,642	15,989	3,130	684	271,108	269,090	4,900	132,267		8,868	50,436	71,458	13,705
Louisiana	24,013	180	720	285	18,752		243	90		1,434	2,791						64	73,767	90,146
Maine	23,348	121	244	132	85	1,935		(?)	432	2,142	15,020	1,624	(?)	220	60	180	499	565	5
Maryland	18,048	635	500	1,906	2,608	600	(?)	84	(?)	3,715	4,009						4,379	20	65
Massachusetts	448,938	4,014	10,622	13,407	80,956		1,320	23,129	227	206,761	5,161	(?)	(?)	140	(?)	75	163	17,520	35,000
Michigan	61,392	155	1,302	2,000			44,247	820	341	2,316							50,653	50	
Minnesota	465,303	11,635	720	2,354	(?)		20,040	11,262	4,407	8,216	173,219	181,637	6,172	23,610	(?)	31,585	10,525	87,937	11,138
Mississippi	100,695	1,215	(?)	102	1,608		4,107	3,482	341	4,832	147,846	12,620	2,231	(?)	11,408	347	288	1,375	670
Missouri	45						(?)											17,002	20
Montana	26,637	423	436	2,746	13,470	1,327	152	(?)		4,205	3,812						56	1,665	422
New Hampshire	14,869	(?)	(?)	(?)		62		50	120	107	5,091	(?)		85	(?)	110		9,220	720
New Jersey																			
New Mexico																		7,000	
New York	131,205	1,804	3,591	24,260	33,933	1,203	(?)	1,080	90	38,222	8,059			144	(?)		17,750	1,208	277
North Carolina	263,153	4,356	5,555	350	1,865	44,980	503	(?)	1,478	10,058	118,731	30,168	120	17,674	153	25,603	1,585	8,200	24,241
Ohio	174,740	3,250	2,007	22,053	1,154	5,170	300	0,049	3,095	32,417	80,333	520	770	378	0,502	3,087	428	45	200
Oklahoma	24,546	255	50				304	433	170	90	17,867	4,546	617	92			131	2,082	
Oregon	11,815	400					2,011			2,806	77							6,461	330,672
Pennsylvania	221,881	3,008	3,110	34,190	5,674	10,261	53	532	2,277	30,939	62,073	550	294	(?)	500	3,706	10,008	2,938	50
Rhode Island	3,568	(?)			(?)	405		(?)		150	2,078								160
South Carolina	100,166	11,481					2,766	1,525	648	0,940	20,231	80,647	1,006	20,318	1,504	20,956	245	4,071	10,611
South Dakota	1																	2,770	
Tennessee	648,510	15,253	5,822	0,305	1,744	31,514	0,079	10,869	13,841	19,442	342,940	70,011	14,000	2,703	5,784	75,078	6,436	9,380	102
Texas	263,532	8,078	157	1,163			1,803	2,305	1,185	200	123,711	83,325	1,054	31,480	(?)		8,870	40,830	4,170
Utah	219	(?)					213										2	25	38
Vermont	59,524	2,623	2,630	7,488	19,440	(?)	392	310		23,618	2,666						303	530	601
Virginia	260,473	1,044	4,588	2,592	523	32,227	808	140	1,337	5,362	161,934	10,674	243	1,002	710	36,602	273	8,497	33
Washington	27,356	226			150		1,874			4,258	400						20,730	568,810	5,333,374
West Virginia	512,062	4,925	17,740	13,989	0,271	111,224	213	301	0,242	37,801	208,780	1,105	144	736	3,182	73,220	3,075	77,501	
Wisconsin	488,710	7,485	57,090	365	172,101		2,500	45,714	(?)	195,094	7,887						310	67,066	37,611
Wyoming	1										(?)							1,426	75
Groups of States:																			
Calif. and Nev.	411										65						346	54,160	111,435
Iowa, Kans., and Nebr.	20,332	64	118	4	96		3,194	377	(?)	500	3,180	(?)		12,470			353		
Undistributed		21	40			17	124	33	58	19	2	55	93	77	30	20			

1 Less than 50 M feet; included in "Undistributed" item.

**TABLE 20.—VENEERS—WOOD CONSUMED IN MANUFACTURE, FOR SPECIFIED YEARS: 1905 TO 1929**

YEAR	Quantity (M feet log scale)	YEAR	Quantity (M feet log scale)	YEAR	Quantity (M feet log scale)
1929	1,112,010	1910	576,581	1907	384,523
1927	961,661	1911	444,886	1906	329,180
1925	734,699	1910	477,479	1905	181,146
1923	645,793	1909	435,081		
1921	400,388	1908	382,542		

1 Compiled by the Forest Service, United States Department of Agriculture.

CENSUS OF MANUFACTURES: 1929

TABLE 21.—VENEERS—WOOD CONSUMED IN MANUFACTURE, BY STATES: 1929, 1927, 1925, AND 1919

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups]

STATE	QUANTITY (M FEET LOG SCALE)				PER CENT DISTRIBUTION				STATE	QUANTITY (M FEET LOG SCALE)				PER CENT DISTRIBUTION			
	1929	1927	1925	1919	1929	1927	1925	1919		1929	1927	1925	1919	1929	1927	1925	1919
United States.....	1,112,910	961,561	734,599	576,581	100.0	100.0	100.0	100.0	Individual States— Continued.								
Alabama.....	43,221	41,424	38,561	42,342	3.9	4.3	5.2	7.3	South Carolina.....	48,960	35,311	29,669	11,151	4.4	3.7	4.0	1.9
Arkansas.....	63,363	57,611	58,122	77,096	5.7	6.0	7.9	13.4	Tennessee.....	24,710	25,580	40,454	38,895	2.2	2.7	5.5	6.7
California.....	28,698	18,379	10,454	(1)	2.6	1.9	1.4	(1)	Texas.....	32,488	29,216	5,711	5,174	2.9	3.0	0.8	0.9
Florida.....	96,199	77,321	29,999	43,936	8.6	8.0	4.1	7.6	Vermont.....	19,056	12,217	10,255	4,971	1.7	1.3	1.4	0.9
Georgia.....	40,388	38,646	11,412	14,863	3.6	4.0	1.5	2.6	Virginia.....	24,688	33,319	26,416	7,521	2.2	3.5	3.6	1.3
Illinois.....	15,821	11,414	11,967	24,367	1.4	1.2	1.6	4.2	Washington.....	181,826	140,319	112,484	14,329	16.3	14.6	15.3	2.5
Indiana.....	30,779	25,092	15,474	24,254	2.8	2.6	2.1	4.2	West Virginia.....	4,264	(1)	(1)	3,478	0.4	(1)	(1)	0.6
Kentucky.....	21,437	24,193	23,309	22,971	1.9	2.5	3.2	4.0	Wisconsin.....	38,724	37,864	34,292	50,502	3.5	3.9	4.7	8.8
Louisiana.....	47,617	35,012	34,395	11,407	4.3	3.0	4.7	2.0	Groups of States:								
Maryland.....	5,092	6,094	3,366	5,103	0.5	0.6	0.5	0.9	Colo., Kans., and Nebr.....	1,819				0.2			
Michigan.....	20,434	20,811	18,096	12,647	1.8	2.2	2.5	2.2	Del. and Mass.....	5,314				0.5			
Mississippi.....	75,427	80,218	57,268	30,061	6.8	8.3	7.8	6.8	Iowa and Minn.....	3,370				0.3			
Missouri.....	16,602	20,825	17,380	18,108	1.5	2.2	2.4	3.1	Mo. and N. H.....	8,913				0.8			
New Jersey.....	5,635	(1)	1,197	0.5	(1)	(1)	0.2	States not shown sep- arately <sup>2</sup> .....		39,804	22,027	18,411		4.1	3.1	3.2	
New York.....	37,377	27,564	24,095	38,571	3.4	2.8	3.3	6.7									
North Carolina.....	96,417	78,171	64,640	30,423	8.7	8.1	8.8	5.3									
Ohio.....	11,546	13,259	4,360	6,042	1.0	1.4	0.6	1.0									
Oregon.....	55,644	32,091	29,793	8,764	5.0	3.3	4.0	1.5									
Pennsylvania.....	7,081	(1)	(1)	1,002	0.6	(1)	(1)	0.2									

<sup>1</sup> Included in figure for "States not shown separately."

<sup>2</sup> For 1927—Colorado, Connecticut, Delaware, Iowa, Kansas, Maine, Massachusetts, Minnesota, New Hampshire, New Jersey, Pennsylvania, Rhode Island, and West Virginia; 1925—Iowa, Kansas, Maine, Massachusetts, Minnesota, New Hampshire, New Jersey, Pennsylvania, and West Virginia; 1919—California, Colorado, Delaware, Kansas, Maine, Massachusetts, Minnesota, and New Hampshire.

TABLE 22.—VENEERS—WOOD CONSUMED IN MANUFACTURE, BY KINDS: 1929, 1927, 1925, AND 1919

KIND OF WOOD	QUANTITY (M FEET LOG SCALE)				PER CENT DISTRIBUTION				KIND OF WOOD	QUANTITY (M FEET LOG SCALE)				PER CENT DISTRIBUTION			
	1929	1927	1925	1919	1929	1927	1925	1919		1929	1927	1925	1919	1929	1927	1925	1919
Total.....	1,112,910	961,561	734,599	576,581	100.0	100.0	100.0	100.0	Domestic—Contd.								
Domestic:									Spruce.....	38,198	53,042	20,033	11,355	3.4	5.6	2.7	2.0
Ash.....	1,506	1,262	1,103	3,254	0.1	0.1	0.2	0.6	Sugar pine.....	3,588	(1)	(1)	(1)	0.3	(1)	(1)	(1)
Basswood.....	13,920	11,885	9,413	11,134	1.3	1.2	1.3	1.9	Sycamore.....	5,809	6,192	4,830	1,802	0.5	0.7	0.7	0.8
Beech.....	17,358	11,268	4,708	3,922	1.6	1.2	0.6	0.7	Tupelo.....	88,123	113,729	48,311	34,175	7.9	11.8	6.6	5.9
Birch.....	47,715	51,331	51,490	54,070	4.3	5.3	7.0	9.4	Walnut.....	26,893	20,786	17,573	14,000	2.4	2.2	2.4	2.4
Cedar.....	30,821	19,409	17,093		2.8	2.0	2.3		Western pine.....	22,717	13,379	4,870	1,659	2.0	1.4	0.7	0.3
Cottonwood.....	51,742	43,456	39,869	36,739	4.7	4.5	5.4	6.4	White fir.....	4,065	4,059	(1)		0.4	0.4	(1)	
Cypress.....	7,053	3,450	4,511	1,924	0.6	0.4	0.6	0.3	White pine.....	2,613	3,027	(1)	(1)	0.2	0.3	(1)	
Douglas fir.....	162,415	101,220	101,869	10,604	14.6	10.5	13.9	1.8	Willow.....	1,080	(1)	(1)	(1)	0.1	(1)	(1)	
Elm.....	15,450	16,945	8,593	9,578	1.8	1.8	1.2	1.7	Yellow pine.....	119,785	92,153	45,818	67,071	10.8	9.6	6.2	11.6
Hemlock.....	1,059	(1)	(1)	916	0.1	(1)	(1)	0.2	Yellow poplar.....	71,989	56,899	50,770	32,653	6.5	5.9	6.9	5.7
Magnolia.....	1,238	4,666	3,786	268	0.1	0.5	0.5	0.1	Other.....	<sup>2</sup> 13,723	20,780	4,255	783	1.2	2.2	0.6	0.1
Maple.....	35,617	24,706	23,922	15,723	3.2	2.6	3.3	2.7	Imported:								
Oak.....	20,409	19,502	20,661	33,815	1.8	2.0	2.8	5.9	Mahogany.....	3,741	11,954	7,471	27,628	0.3	1.2	1.0	4.8
Red gum.....	285,035	250,247	237,465	198,641	25.6	26.0	32.3	34.5	Spanish cedar.....	3,917	4,829	5,149	4,771	0.4	0.5	0.7	0.8
Redwood.....	1,368	(1)	(1)	(1)	0.1	(1)	(1)	(1)	Other.....	<sup>3</sup> 10,008	785	1,114	27	0.9	0.1	0.1	(1)

<sup>1</sup> Included in figure for "Other," under "Domestic."

<sup>2</sup> Alder, bay, butternut, cherry, chestnut, hackberry, hickory, myrtle, pecan, and 12,698 M feet of wood not specified.

<sup>3</sup> African woods, Australian hardwoods, avodire, French walnut, Japanese oak, koa, lauan, oriental walnut, Philippine hardwood, redwood, satinwood, tigerwood, zebra, and 6,620 M feet of wood not specified.

<sup>4</sup> Less than one-tenth of 1 per cent.

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TABLE 23.—VENEERS PRODUCED AND WOOD CONSUMED, BY KINDS: 1929

KIND OF WOOD	Total quantity of logs used, M feet log scale	LOGS USED AND VENEERS PRODUCED—BOTH ITEMS REPORTED		Logs used—veneer production not reported, M feet log scale	KIND OF WOOD	Total quantity of logs used, M feet log scale	LOGS USED AND VENEERS PRODUCED—BOTH ITEMS REPORTED		Logs used—veneer production not reported, M feet log scale
		Logs used, M feet log scale	Veneers produced, M square feet				Logs used, M feet log scale	Veneers produced, M square feet	
Aggregate.....	1, 112, 910	709, 514	5, 064, 031	403, 396	Domestic—Continued.				
Domestic, total.....	1, 095, 244	696, 590	5, 381, 327	398, 054	Spruce.....	38, 198	32, 200	106, 134	5, 902
Ash.....	1, 506	1, 207	8, 083	200	Sugar pine.....	3, 688	3, 538	15, 372	2, 012
Basswood.....	13, 920	8, 385	68, 437	5, 535	Sycamore.....	5, 809	3, 707	37, 013	54, 150
Beech.....	17, 358	2, 003	31, 048	14, 755	Tupelo.....	88, 123	33, 073	249, 818	10
Birch.....	47, 715	41, 401	373, 984	6, 314	Walnut.....	20, 593	20, 883	522, 000	844
Cedar.....	30, 821	30, 821	247, 448	.....	Western pine.....	22, 717	22, 717	104, 772	82, 236
Cottonwood.....	51, 742	24, 235	188, 150	27, 607	White fir.....	4, 005	4, 005	20, 288	17, 323
Cypress.....	7, 053	353	1, 048	6, 700	White pine.....	2, 013	88	442	2, 525
Douglas fir.....	102, 415	102, 102	1, 097, 438	313	Willow.....	1, 080	242	1, 998	84
Elm.....	19, 469	5, 546	54, 310	13, 913	Yellow pine.....	110, 785	37, 540	108, 150	11, 599
Hemlock.....	1, 059	681	3, 447	378	Yellow poplar.....	71, 059	54, 066	502, 177	.....
Magnolia.....	1, 238	991	10, 654	247	Other <sup>1</sup> .....	13, 723	2, 124	19, 099	.....
Maple.....	35, 017	18, 530	193, 838	17, 057	Imported, total.....	17, 000	12, 924	282, 704	4, 742
Oak.....	20, 409	16, 708	133, 305	3, 041	Mahogany.....	3, 741	3, 741	77, 550	.....
Red gum.....	285, 035	159, 071	1, 081, 085	125, 364	Spanish cedar.....	3, 017	3, 815	96, 917	102
Redwood.....	1, 308	1, 308	7, 593	.....	Other <sup>1</sup> .....	10, 008	5, 368	108, 231	4, 040

<sup>1</sup> See footnotes 2 and 3, Table 22.

TABLE 24.—TIGHT COOPERAGE STOCK—PRODUCTION, FOR SPECIFIED YEARS: 1905 TO 1929

YEAR	Staves (thousands)	Heading (thousands of sets)
1929.....	357, 353	30, 329
1927.....	324, 127	26, 445
1925.....	240, 023	23, 052
1923.....	222, 507	19, 342
1921.....	255, 047	20, 605
1919.....	353, 825	24, 274
1918.....	286, 401	20, 711
1911.....	357, 198	30, 310
1910.....	355, 660	26, 074
1909.....	370, 231	20, 091
1908.....	345, 280	20, 515
1907.....	355, 232	27, 093
1906.....	207, 827	17, 774
1905 <sup>1</sup> .....	241, 193	12, 050

<sup>1</sup> Compiled by the Forest Service, U. S. Department of Agriculture.

TABLE 25.—TIGHT STAVES—PRODUCTION (THOUSANDS), BY CLASS: 1929, 1927, 1925, AND 1919

CLASS	1929	1927	1925	1919
Aggregate.....	357, 353	324, 127	240, 023	353, 825
Oil and tierce.....	170, 023	154, 117	112, 717	208, 770
Half-barrel and keg.....	26, 523	26, 191	20, 712	68, 786
Spirit and wine.....	16, 292	16, 000	14, 206	20, 211
Pork.....	9, 178	9, 580	4, 007	10, 246
Other <sup>1</sup> .....	128, 737	117, 333	82, 291	45, 800

<sup>1</sup> Includes staves, class not specified, as follows: 1929, 99,000 thousand; 1927, 78,998 thousand; 1925, 30,024 thousand.

TABLE 26.—TIGHT STAVES—PRODUCTION (THOUSANDS), BY CLASS AND BY STATES: 1929

This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups.

STATE	Total	Oil and tierce	Half-barrel and keg	Spirit and wine	Pork	Not specified	Other <sup>1</sup>
United States.....	357, 353	170, 023	26, 523	16, 292	9, 178	96, 990	31, 747
Individual States:							
Alabama.....	9, 427	9, 327	.....	100	.....	.....	.....
Arkansas.....	72, 400	63, 895	.....	8, 404	895	7, 638	1, 598
Georgia.....	9, 329	4, 015	.....	200	62	4, 535	517
Kentucky.....	10, 355	7, 832	.....	1, 193	87	1, 270	.....
Louisiana.....	20, 090	10, 021	.....	.....	1, 598	3, 280	.....
Mississippi.....	12, 845	9, 498	.....	1, 000	100	1, 747	.....
Missouri.....	13, 040	6, 540	6, 540	400	150	.....	.....
Tennessee.....	24, 030	11, 203	100	2, 858	241	8, 732	896
Groups of States:							
Calif., Oreg., and Wash.....	157, 034	52, 353	13, 883	1, 570	6, 004	55, 492	28, 572
Fla., N. C., and S. C.....	5, 300	2, 678	.....	.....	.....	2, 576	136
N. H. and N. Y.....	17, 408	.....	6, 000	.....	.....	11, 408	.....
Okla. and Tex.....	1, 570	952	.....	540	50	.....	28
Va. and W. Va.....	2, 246	1, 040	.....	.....	.....	303	.....

<sup>1</sup> Cut-offs, mill run, and staves for pails, tubs, and containers for food, French claret, and shrap.

TABLE 27.—TIGHT STAVES—PRODUCTION (THOUSANDS), BY CLASS AND BY KINDS OF WOOD: 1929

CLASS	Total	Oak	Douglas fir	Spruce	Gum	Pine	Ash	Other <sup>1</sup>
United States.....	357, 353	145, 043	79, 980	77, 587	27, 252	20, 776	4, 305	1, 801
Oil and tierce.....	170, 023	97, 331	52, 340	.....	20, 020	3, 972	1, 594	751
Half-barrel and keg.....	26, 523	12, 040	13, 883	.....	.....	.....	.....	.....
Spirit and wine.....	16, 292	15, 000	1, 184	43	22	.....	37	.....
Pork.....	9, 178	941	5, 593	469	60	.....	2, 413	2
Not specified.....	96, 990	18, 709	5, 492	50, 000	5, 523	10, 201	261	753
Other <sup>1</sup> .....	31, 747	1, 295	1, 491	27, 075	1, 018	603	.....	295

<sup>1</sup> Cypress, elm, hackberry, hemlock, maple, poplar, sycamore, tupelo, and 429,000 staves not specified.

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TABLE 28.—TIGHT HEADING—PRODUCTION (THOUSANDS OF SETS), BY CLASS: 1929, 1927, 1925, AND 1919

CLASS	1929	1927	1925	1919
Aggregate.....	30,329	20,445	23,052	24,274
Oil and tierce.....	20,565	12,048	9,468	13,034
Spirit and wine.....	1,381	972	1,345	1,215
Half-barrel and keg.....	1,230	2,527	2,061	6,842
Pork.....	630	503	814	500
Other <sup>1</sup> .....	6,523	10,395	9,364	2,683

<sup>1</sup> Includes heading, class not specified, as follows: 1929, 3,753 thousand sets; 1927, 7,167 thousand sets; 1925, 4,288 thousand sets.

TABLE 29.—TIGHT HEADING—PRODUCTION (THOUSANDS OF SETS), BY CLASS AND BY STATES: 1929

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments and for the remaining States in groups]

STATE	Total	Oil and tierce	Half-barrel and keg	Spirit and wine	Pork	Other <sup>1</sup>	Not specified
United States.....	30,329	20,565	1,230	1,381	630	2,770	3,753
Individual States:							
Arkansas.....	16,802	14,023	—	533	112	170	1,364
Georgia.....	420	50	—	12	—	40	318
Tennessee.....	3,310	1,141	—	615	2	1,172	380
Groups of States:							
Ala., Fla., and Miss.	1,395	843	—	—	10	103	379
Calif., Oreg., and Wash.	5,463	2,312	1,110	100	448	1,225	268
Ky., Va., and W. Va.	411	163	60	50	23	—	115
La., Mo., and Tex.	1,075	1,433	60	71	35	—	70
Mia. and N. H.	847	—	—	—	—	—	847

<sup>1</sup> Rosin, strap, pall, tub, and mill-run heading.

TABLE 30.—TIGHT HEADING—PRODUCTION (THOUSANDS OF SETS), BY CLASS AND BY KINDS OF WOOD: 1929

CLASS	Total	Oak	Douglas fir	Gum	Pine	Spruce	Ash	Hemlock	Other <sup>1</sup>
United States.....	30,329	20,750	4,113	1,700	1,742	1,193	389	146	200
Oil and tierce.....	20,565	16,529	2,312	1,123	287	—	289	—	25
Spirit and wine.....	1,381	1,287	88	—	—	—	6	—	—
Half-barrel and keg.....	1,230	120	1,110	—	—	—	—	—	—
Pork.....	630	82	272	—	—	30	100	146	—
Not specified.....	3,753	1,700	208	533	1,252	—	—	—	—
Other.....	2,770	1,032	63	134	203	1,157	—	—	181

<sup>1</sup> Cypress, 25 thousand sets; white fir, 5 thousand sets; not specified, 170 thousand sets.

TABLE 33.—SLACK STAVES—PRODUCTION (THOUSANDS), BY KINDS OF WOOD, BY STATES: 1929

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups]

STATE	Total	Pine	Red gum	Elm	Ash	Spruce	Cottonwood	Douglas fir	Tupelo	Oak	Hemlock	Other <sup>1</sup>
United States.....	1,030,450	354,520	314,890	88,308	63,880	54,355	41,351	35,109	22,882	10,626	8,466	44,973
Individual States:												
Alabama.....	66,989	56,040	10,929	—	—	—	—	—	—	—	—	—
Arkansas.....	169,118	125	84,112	45,822	30,123	—	2,316	—	4,010	642	—	1,938
Florida.....	80,842	30,344	—	—	—	—	—	—	—	—	—	498
Georgia.....	18,815	16,415	1,600	—	—	—	—	—	—	300	—	600
Kentucky.....	2,470	100	218	—	—	—	—	—	—	1,747	—	405
Louisiana.....	75,236	520	26,167	8,159	20,329	—	14,457	—	—	—	—	5,004
Maine.....	9,875	3,636	—	—	—	3,055	20	—	—	—	—	3,104
Maryland.....	11,826	9,299	823	150	150	—	—	—	—	1,054	—	200
Mississippi.....	105,671	—	78,885	7,450	6,950	—	—	—	—	—	—	3,527
Missouri.....	52,634	2,500	21,091	12,117	3,817	—	4,705	—	3,091	1,845	—	4,009
New Hampshire.....	7,521	5,923	—	—	—	—	—	—	1,953	20	687	891
North Carolina.....	74,032	20,403	39,179	—	—	—	—	5,450	—	—	—	—
Tennessee.....	27,908	—	9,650	6,788	1,655	—	2,325	—	—	1,350	—	7,135
Virginia.....	106,622	189,755	3,364	—	—	—	—	—	—	777	—	2,000
Groups of States:												
Calif., Oreg., and Wash.	97,932	—	—	—	—	51,300	—	35,109	—	—	7,779	3,744
Ill., Ohio, and Wis.	33,746	—	9,240	8,506	850	—	10,600	—	—	—	—	4,550
Mass., N. Y., and Pa.	13,590	—	9,205	—	—	—	60	—	150	2,000	—	2,115
Minn., Nebr., and Okla.	5,022	—	760	400	—	—	562	—	—	—	—	3,300
S. C. and W. Va.	33,626	1,225	28,912	—	—	—	—	—	7,598	891	—	—

<sup>1</sup> Balsam fir, beech, birch, cedar, chestnut, cypress, hackberry, maple, redwood, sycamore, white fir, willow, yellow poplar, and 13,440 thousands, woods not specified.

TABLE 31.—SLACK COOPERAGE STOCK—PRODUCTION, FOR SPECIFIED YEARS: 1906 TO 1929

YEAR	Staves (thousands)	Heading (thousands of sets)	Hoops (thousands)
1929.....	1,039,450	72,591	133,054
1927.....	961,782	50,337	134,596
1925.....	937,597	71,371	149,167
1923.....	893,682	80,477	153,954
1921.....	893,621	66,747	137,380
1919.....	1,121,324	87,381	140,772
1918.....	1,009,971	60,751	332,684
1911.....	1,328,968	106,407	353,215
1910.....	1,400,878	97,937	205,712
1909.....	2,029,548	140,234	375,793
1908.....	1,557,644	123,840	336,484
1907.....	1,175,977	106,074	400,570
1906.....	1,097,003	129,555	330,802

TABLE 32.—SLACK STAVES, HEADING, AND HOOPS—PRODUCTION, BY KINDS OF WOOD: 1929, 1927, 1925, AND 1919

CLASS OF PRODUCT AND KIND OF WOOD	1929	1927	1925	1919
Staves (thousands), total.....	1,039,450	961,782	937,597	1,121,324
Pine.....	354,520	236,358	212,416	327,875
Red gum.....	314,890	315,270	342,434	368,465
Elm.....	88,308	100,065	101,011	61,100
Ash.....	63,880	62,865	47,423	53,658
Spruce.....	54,355	35,125	15,750	29,653
Cottonwood.....	41,351	41,505	59,730	17,511
Douglas fir.....	35,109	38,566	52,148	23,822
Tupelo.....	22,882	70,621	31,529	9,206
Oak.....	10,626	0,085	0,044	38,620
Hemlock.....	8,466	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other.....	44,973	48,332	66,103	201,744
Heading (thousands of sets), total.....	72,591	50,337	71,371	87,381
Pine.....	46,677	32,424	31,867	42,401
Spruce.....	5,624	2,695	1,814	2,508
Red gum.....	5,973	10,348	12,050	13,003
Douglas fir.....	2,315	1,607	1,466	841
Cottonwood.....	2,248	842	4,480	—
Basswood.....	1,923	1,323	2,930	( <sup>1</sup> )
Maple.....	1,783	( <sup>1</sup> )	( <sup>1</sup> )	7,319
Birch.....	1,868	2,922	4,424	3,490
Tupelo.....	1,230	2,070	970	1,031
Cypress.....	881	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Beech.....	724	1,326	2,803	4,942
Other.....	2,736	2,880	8,561	11,846
Hoops (thousands), total.....	133,054	134,596	149,167	140,772
Elm.....	131,028	134,200	147,390	133,983
Other.....	1,426	396	1,777	6,789

<sup>1</sup> Included in "Other".

LUMBER AND TIMBER PRODUCTS

TABLE 34.—SLACK HEADING—PRODUCTION (THOUSANDS OF SETS), BY KINDS OF WOOD, BY STATES: 1920  
 [This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups]

STATE	Total	Pine	Spruce	Red gum	Douglas fir	Cotton-wood	Basswood	Maple	Birch	Tupelo	Cypress	Beech	Other <sup>1</sup>
United States.....	72,591	46,677	5,624	5,073	2,315	2,248	1,923	1,783	1,368	1,239	881	724	2,736
Individual States:													
Alabama.....	20,416	10,875		736						5			
Florida.....	2,693	1,899									664		
Georgia.....	9,277	9,077		200									
Maine.....	1,780	1,322	125										333
Maryland.....	190	190											
Minnesota.....	1,954					184	1,000		214				460
New Hampshire.....	974	653											321
New York.....	246	20										125	101
North Carolina.....	3,848	2,629		646						573			
South Carolina.....	6,695	3,581		2,540						474			
Virginia.....	2,829	2,325		420									84
Groups of States:													
Ark., Mo., Okla., and Tex.....	4,621	4,287		108									226
Calif., Oreg., and Wash.....	8,311		5,409		2,315								467
Ind., Mich., and Wis.....	4,000					550	827	1,701	1,027			435	60
Iowa and Nebr.....	385	127											258
Ky. and Tenn.....	553	39		23		200					217		74
La. and Miss.....	2,238	26		400		1,305				187			820
Ohio, Pa., and Mass.....	1,202	827						82	127			164	2

<sup>1</sup> Ash, balsam fir, cedar, hemlock, oak, redwood, white fir, willow, and 945 thousands of sets, woods not specified.

TABLE 35.—HOOPS—PRODUCTION (THOUSANDS), BY KINDS OF WOOD, BY STATES: 1920

STATE	Total	Elm	Other <sup>1</sup>	STATE	Total	Elm	Other <sup>1</sup>
United States.....	133,054	131,628	1,426	Groups of States—Continued.			
Arkansas <sup>1</sup> .....	43,301	43,301		Ill., Ind., Mich., and Ohio.....	38,720	38,677	52
Groups of States:				Ky., N. C., Tenn., and Va.....	606	180	426
Ala., La., and Miss.....	30,144	30,134	10	Mo., Mass., and N. Y.....	514	175	339
Calif., Mo., Nebr., and Okla.....	19,760	19,161	599				

<sup>1</sup> Basswood, cedar, hemlock, oak, pine, and 123 thousands, woods not specified.

<sup>2</sup> Arkansas is the only State for which separate figures can be given without disclosing the production of individual establishments.

TABLE 36.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSEPOWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
											Horsepower	Horsepower
Prime movers and electric motors driven by purchased energy, aggregate.....	34,005	1,085,301	20,127	1,781,734	20,367	2,040,560	40,782	2,355,345	40,374	2,190,359	100.0	100.0
Prime movers, total.....	18,742	1,704,262	14,000	1,553,989	18,056	1,878,066	36,769	2,271,473	38,000	2,153,273	85.8	96.4
Steam, total.....	17,277	1,631,072	12,130	1,480,618	16,136	1,804,723	33,063	2,180,708	35,270	2,047,898	82.2	92.5
Engines.....	16,730	1,176,837	11,652	1,071,032	15,683	1,453,753	32,098	2,028,433	(1)	(1)	50.3	86.1
Turbines.....	538	464,235	478	418,586	453	360,970	605	152,305	(1)	(1)	22.0	6.4
Internal-combustion engines.....	1,232	40,280	1,579	41,999	1,528	40,220	1,732	28,228	1,330	20,951	2.0	1.2
Water wheels and water turbines.....	283	32,010	207	22,369	307	33,117	1,384	62,447	2,006	84,424	1.0	2.7
Electric motors driven by purchased energy.....	15,263	281,039	12,121	227,748	8,301	171,434	4,013	83,872	1,768	37,086	14.2	3.6
Electric motors, total.....	47,867	884,533	30,704	760,372	80,850	740,267	12,401	270,478	6,110	150,003	100.0	100.0
Driven by purchased energy.....	15,263	281,039	12,121	227,748	8,301	171,434	4,013	83,872	1,768	37,086	31.8	30.0
Driven by energy generated in establishments reporting.....	32,604	603,494	27,673	532,624	22,549	568,833	8,388	195,606	4,342	112,917	68.2	70.0
Electric generators.....	904	419,681	1,062	409,586	1,201	382,769	(1)	(1)	(1)	(1)		
Electric energy purchased <sup>1</sup> .....		275,570,173		(1)		(1)		(1)		(1)		

<sup>1</sup> Not called for separately on schedule.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.

<sup>4</sup> Data incomplete.

CENSUS OF MANUFACTURES: 1929

TABLE 37.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, AND 1914, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimums of maximum		
		January	February	March	April	May	June	July	August	September	October	November	December			
United States:																
1929	410,084	400,713	400,950	414,520	421,545	430,734	431,848	430,605	435,166	430,250	428,804	413,001	<i>388,719</i>	388,719	80.3	
1925	467,090	469,094	475,986	479,007	470,060	476,722	468,044	457,474	461,329	404,330	466,684	469,683	<i>460,662</i>	460,662	94.1	
1919	480,945	<i>487,802</i>	428,806	444,868	440,965	450,884	454,835	469,977	494,725	523,450	543,075	543,208	548,855	548,855	78.0	
1914 <sup>1</sup>	479,786	488,367	494,736	507,220	502,007	507,876	500,681	493,776	482,532	465,920	455,178	436,895	<i>421,735</i>	421,735	83.0	
Alabama	25,954	25,794	26,006	26,000	25,842	25,022	26,150	26,261	26,215	26,205	26,125	<i>25,500</i>	25,533	96.7		
Arizona	2,084	1,895	<i>1,710</i>	1,981	2,248	2,146	2,303	2,468	2,288	2,200	2,112	1,865	<i>1,712</i>	99.0		
Arkansas	21,541	21,128	20,670	20,859	20,915	20,947	21,366	22,350	23,266	23,008	22,378	21,238	<i>20,566</i>	87.5		
California	21,822	16,183	16,167	17,703	21,586	24,987	25,156	26,158	26,719	25,742	24,371	20,972	<i>16,116</i>	60.3		
Colorado	1,219	1,259	1,209	940	<i>889</i>	1,042	1,285	1,394	1,406	1,323	1,328	1,258	1,230	63.2		
Connecticut	253	283	295	203	270	242	206	<i>180</i>	204	239	265	270	292	61.0		
Delaware	126	130	137	122	<i>121</i>	<i>121</i>	122	122	122	122	122	138	138	87.7		
Florida	17,438	17,512	16,961	16,827	<i>16,885</i>	17,071	17,024	17,369	17,322	18,212	17,065	18,194	17,068	92.4		
Georgia	15,454	15,327	15,361	15,545	15,615	15,560	15,469	15,455	15,335	15,471	<i>16,312</i>	15,436	15,561	98.1		
Idaho	11,228	9,132	<i>8,661</i>	8,887	10,437	12,195	12,998	13,062	13,158	12,637	12,653	11,718	9,297	65.1		
Illinois	1,280	1,232	1,224	1,342	1,299	1,259	1,268	1,246	1,301	1,330	1,373	1,292	<i>1,185</i>	86.3		
Indiana	3,254	3,040	3,136	3,180	3,210	3,277	3,367	3,297	3,329	3,440	3,474	3,373	<i>3,268</i>	84.3		
Kansas	122	117	105	121	125	125	123	133	136	133	130	124	<i>96</i>	60.0		
Kentucky	4,604	4,450	<i>4,415</i>	4,515	4,602	4,494	4,556	4,711	4,869	4,867	4,754	4,562	4,562	90.2		
Louisiana	30,110	30,563	29,677	29,730	29,657	30,068	29,870	30,973	31,304	30,907	30,355	29,437	<i>29,092</i>	92.9		
Maine	3,436	3,680	3,812	3,575	3,468	3,411	3,522	<i>3,160</i>	3,209	3,179	3,360	3,513	3,340	82.6		
Maryland	810	817	843	840	816	784	770	751	765	758	857	881	854	83.8		
Massachusetts	1,016	1,050	1,092	1,054	1,046	1,047	981	893	<i>897</i>	979	1,038	1,041	1,083	81.6		
Michigan	11,638	13,593	14,146	13,253	11,746	11,255	11,487	10,983	10,870	<i>10,180</i>	10,404	10,008	11,067	72.0		
Minnesota	4,412	7,018	6,980	6,553	3,700	3,788	3,784	3,646	3,333	3,292	<i>3,042</i>	3,673	4,132	43.3		
Mississippi	30,747	30,628	30,550	30,623	30,926	30,758	30,837	31,840	31,953	31,063	30,521	30,057	<i>29,205</i>	91.4		
Missouri	3,454	3,394	3,394	3,336	3,340	3,345	3,410	3,516	3,635	3,654	3,661	3,442	<i>3,270</i>	88.8		
Montana	3,501	3,428	3,404	3,406	3,469	3,614	3,785	3,543	3,409	3,348	3,670	3,718	<i>3,215</i>	84.0		
New Hampshire	1,982	2,220	2,266	2,453	2,621	1,939	1,885	1,868	1,817	<i>1,812</i>	1,921	1,944	1,950	80.3		
New Mexico	1,549	1,407	1,440	<i>1,388</i>	1,506	1,705	1,738	1,613	1,630	1,592	1,544	1,563	1,480	80.0		
New York	2,700	2,915	2,883	2,766	2,562	2,671	2,675	2,562	<i>2,514</i>	2,719	2,708	2,694	2,674	86.2		
North Carolina	17,364	17,262	17,217	17,520	17,722	17,541	17,337	17,414	17,272	17,406	17,486	17,400	<i>16,780</i>	94.7		
Ohio	2,007	<i>1,955</i>	1,961	1,974	1,999	2,006	2,040	2,014	2,021	2,032	2,063	2,045	1,964	94.7		
Oklahoma	2,883	2,886	2,860	2,893	2,881	2,920	<i>2,794</i>	2,800	2,938	2,941	2,872	2,891	2,851	95.0		
Oregon	34,832	<i>26,629</i>	28,056	33,644	36,311	37,742	38,331	37,035	38,633	37,685	37,330	35,044	31,130	60.1		
Pennsylvania	3,417	3,447	3,426	3,458	3,689	3,559	3,514	3,378	3,383	3,300	3,344	<i>3,291</i>	3,310	91.7		
Rhode Island	66	64	79	66	66	66	60	<i>50</i>	50	66	66	79	79	63.3		
South Carolina	15,720	15,967	15,875	15,938	16,078	15,872	15,729	15,769	15,921	15,967	15,478	15,289	<i>14,760</i>	91.0		
South Dakota	852	931	895	903	800	803	<i>796</i>	815	823	840	830	870	907	85.5		
Tennessee	10,304	10,131	10,270	10,452	10,171	10,297	10,389	10,469	10,628	10,653	10,836	10,050	<i>9,306</i>	85.9		
Texas	16,387	16,338	16,596	16,678	16,812	16,538	15,876	16,944	16,567	16,400	16,600	15,736	<i>14,927</i>	88.1		
Utah	69	70	64	67	65	<i>63</i>	<i>63</i>	69	78	77	69	74	74	80.8		
Vermont	2,371	2,491	2,523	2,482	2,372	2,372	2,373	<i>2,196</i>	2,278	2,275	2,377	2,367	2,343	87.0		
Virginia	8,720	8,323	8,511	8,784	8,800	8,942	8,954	8,951	8,879	8,958	8,930	8,566	<i>7,960</i>	89.0		
Washington	58,570	<i>49,887</i>	50,021	59,723	62,646	64,995	64,204	59,579	62,076	60,572	61,223	57,365	50,406	76.8		
West Virginia	7,955	8,006	7,758	7,992	7,984	7,933	8,081	8,066	8,117	7,796	8,078	7,988	<i>7,663</i>	94.3		
Wisconsin	14,489	16,783	17,080	15,792	13,578	13,086	13,037	13,341	<i>13,149</i>	13,266	14,297	14,398	14,742	77.0		
Wyoming	793	793	789	<i>769</i>	721	782	903	1,031	800	742	726	760	786	68.8		

<sup>1</sup> No data available for years prior to 1914.

# PLANING-MILL PRODUCTS

**Description of the industry.**—This industry embraces "independent" planing mills; that is, planing mills not operated in conjunction with sawmills. (Planing mills operated in conjunction with sawmills are classified in the lumber and timber products industry.) The principal planing-mill products are dressed lumber, sash, doors, frames, interior woodwork, and molding.

**Detailed statistics of products.**—Some of the manufacturers, including several of the more important ones, failed to supply data in regard to the principal classes

of planing-mill products manufactured. This necessitated in some cases the making of estimates and in others the inclusion of the total output of the establishment in question in the item "Miscellaneous mill-work." These facts should be given consideration in any analytical study of the planing-mill statistics. The detailed statistics given in Tables 3 and 4 cover the production both of independent planing mills (mills classified in the planing-mill products industry) and of planing mills operated in conjunction with sawmills.

**TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929**

[Data for establishments with products under \$5,000 in value included for 1910 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>	Horsepower
1929	4,840	90,134	\$116,422,604	\$260,008,400	\$553,583,408	\$257,574,000	677,995
1927	4,561	96,589	126,139,713	321,443,318	581,033,737	290,190,419	630,674
1925	4,761	111,320	146,502,030	403,229,707	710,861,207	367,034,500	697,103
1923	4,215	103,068	133,328,506	401,174,813	692,784,284	361,610,471	493,424
1921	4,360	78,033	95,954,153	273,081,818	492,648,674	190,567,056	(3)
1910	5,300	86,956	91,976,520	200,305,653	509,438,258	201,172,606	417,070
1914	5,841	106,214	114,019,230	184,227,441	367,672,478	133,445,037	410,250
1909	6,402	112,392	124,538,469	196,079,522	327,307,801	131,318,360	410,050
1904	5,069	67,674	60,713,007	143,137,092	247,441,050	104,304,204	301,998
1899	4,198	75,510	32,021,704	99,598,501	167,786,122	68,217,621	228,730
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929	6.3	-6.7	-7.7	-7.0	-4.8	-1.0	7.5
1925-1927	-4.2	-13.2	-14.0	-20.3	-18.2	-15.4	5.0
1923-1925	13.0	8.1	0.9	0.5	2.6	5.5	21.0
1921-1923	-3.5	32.0	39.0	47.4	49.7	53.0	-----
1910-1921	-17.8	-10.3	4.3	-9.1	-7.0	-5.3	-----
1919-1929	-8.7	3.7	26.6	-1.1	10.6	28.0	62.0
1909-1919	-17.1	-22.0	42.5	52.0	52.9	53.2	1.5
1899-1909	62.5	52.0	97.8	96.9	95.1	92.5	79.7

<sup>1</sup> The figures for all census years refer to production, not sales. See GENERAL EXPLANATIONS—Value of products.  
<sup>2</sup> Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.  
<sup>3</sup> Not called for on schedule.

**TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919**

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States as a group. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Census year	Number of establishments	Salaried officers and employees <sup>1</sup>	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
					Total	Prime movers	Motors run by purchased energy			Total	Materials	Fuel and purchased energy		
United States	1929	4,840	16,967	90,134	677,995	262,504	415,494	40,030,495	116,422,604	290,008,400	290,120,567	6,981,002	553,583,408	257,574,000
	1927	4,561	16,732	96,589	630,674	290,434	370,240	42,460,620	126,139,713	321,443,318	314,150,595	7,292,720	581,033,737	290,190,419
	1919	5,300	16,095	86,956	417,070	264,875	162,195	28,530,840	91,976,520	200,305,653	204,639,870	4,725,782	509,438,258	201,172,606
Alabama	1929	140	257	1,982	13,935	10,867	3,068	483,000	1,460,980	7,000,444	7,831,145	60,200	12,022,308	4,121,954
	1927	130	203	2,062	13,644	10,935	2,700	477,822	1,537,795	8,020,417	8,842,308	87,010	12,034,280	4,004,872
	1919	82	150	1,028	6,318	4,765	548	302,334	869,076	3,861,155	3,847,283	13,807	5,702,022	1,840,807
Arkansas	1929	47	185	1,495	8,117	6,970	1,147	433,606	1,103,959	3,900,158	3,963,761	26,307	8,021,328	2,631,170
	1927	43	191	1,421	7,097	4,875	2,222	457,303	1,064,763	4,425,312	4,305,297	30,015	6,023,021	2,198,300
	1919	60	142	1,238	4,358	3,484	874	340,040	1,090,271	4,643,285	4,020,034	23,251	7,064,761	2,421,500
California	1929	397	1,032	7,159	83,877	17,823	65,749	2,571,802	11,087,017	30,343,020	29,316,618	528,308	50,562,173	20,218,247
	1927	359	1,580	8,173	70,240	16,187	64,053	3,724,155	11,925,845	30,088,591	35,480,531	602,060	59,414,374	23,325,783
	1919	325	900	6,215	34,246	14,046	20,200	1,512,081	7,936,110	28,216,180	27,894,368	321,823	42,832,201	14,016,012

See footnotes at end of table.

## CENSUS OF MANUFACTURES: 1929

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919—Continued

[See note at head of this table]

STATE	Census year	Number of establishments	Salaried officers and employees <sup>1</sup>	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>1</sup>	Value added by manufacture <sup>1</sup>
					Total	Prime movers	Motors run by purchased energy			Total	Materials	Fuel and purchased energy		
Colorado	1929	29	02	312	2,046	035	1,411	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
	1927	29	58	363	2,041	086	1,355	140,092	479,135	568,104	541,490	20,014	1,507,322	930,218
	1919	41	54	411	1,734	721	1,013	132,531	500,386	754,072	724,827	20,245	1,678,548	924,476
Connecticut	1929	04	236	1,031	7,234	1,835	5,399	054,457	1,019,620	2,638,582	2,530,057	108,525	5,840,887	3,202,305
	1927	02	109	967	6,342	1,665	4,677	500,386	1,502,863	2,489,473	2,387,152	102,321	5,483,811	2,904,338
	1919	91	220	1,037	6,279	3,430	2,840	399,794	1,208,623	4,671,734	4,409,873	101,861	7,478,358	2,900,624
Delaware	1929	10	10	53	725	170	555	29,210	68,610	164,716	158,764	6,952	318,967	164,251
	1927	8	11	42	573	30	548	500,386	56,518	135,610	120,715	6,901	240,309	104,788
	1919	8	6	51	301	165	136	12,265	41,368	99,883	94,564	6,310	183,024	83,741
District of Columbia	1929	8	32	201	699	275	424	78,187	367,948	493,817	480,780	13,028	1,223,102	720,285
	1927	6	33	193	634	275	359	98,036	341,839	508,578	495,175	13,403	1,051,000	541,622
	1919	9	30	244	643	305	278	49,286	295,305	382,271	369,313	12,958	860,389	478,118
Florida	1929	95	205	878	11,083	2,068	8,115	552,480	1,064,965	2,598,740	2,498,337	70,403	5,139,018	2,570,878
	1927	110	295	1,329	13,445	4,443	9,002	810,775	1,504,110	3,878,598	3,759,508	119,424	7,483,811	3,544,177
	1919	63	154	1,267	5,155	3,812	1,843	281,373	1,006,494	3,117,190	3,090,569	26,621	5,270,931	2,163,741
Georgia	1929	161	443	2,788	19,690	14,870	4,820	986,098	2,170,421	9,387,600	9,295,507	92,183	15,067,009	5,680,000
	1927	123	463	2,751	19,327	14,242	5,825	960,579	2,168,143	9,388,010	9,274,850	113,700	14,510,567	5,121,657
	1919	131	363	2,688	12,500	9,888	2,612	712,448	2,210,342	8,471,959	8,361,302	110,657	14,020,180	5,567,231
Idaho	1929	9	24	177	24	24	153	30,803	30,803	47,334	49,990	3,344	103,538	56,204
	1927	9	3	29	441	60	381	7,694	45,262	78,424	71,542	6,882	158,466	80,042
	1919	16	17	119	557	315	242	28,295	133,235	337,349	331,692	6,057	555,343	217,694
Illinois	1929	279	1,306	6,170	37,390	13,145	24,245	4,168,473	10,439,061	19,813,051	19,300,849	512,202	41,000,950	21,196,808
	1927	280	1,377	7,201	40,065	16,045	24,020	4,317,027	12,454,029	25,120,799	24,514,247	606,552	49,172,188	24,051,389
	1919	269	907	5,147	23,741	14,740	9,001	2,002,798	6,035,929	20,079,477	20,393,106	286,371	34,588,576	13,909,006
Indiana	1929	148	501	2,598	18,740	3,640	15,100	1,646,411	3,376,446	10,695,790	10,458,934	236,856	19,843,605	9,147,815
	1927	165	515	2,331	16,683	4,282	12,401	1,229,845	3,004,476	8,273,080	8,028,791	244,289	15,205,767	6,932,687
	1919	222	505	2,238	14,202	5,349	8,853	852,866	2,176,988	8,844,352	8,645,012	199,340	14,102,002	5,257,650
Iowa	1929	65	613	3,525	16,130	10,650	5,480	1,393,801	3,844,704	9,877,182	9,771,677	105,505	18,055,506	8,178,324
	1927	53	578	3,444	13,445	9,985	3,460	1,292,072	3,801,932	9,366,792	9,258,521	108,271	16,522,553	8,175,701
	1919	97	647	3,211	9,604	6,007	2,997	1,169,773	2,789,381	8,785,796	8,646,970	138,826	16,387,532	7,602,036
Kansas	1929	39	106	565	3,170	482	2,688	250,150	608,267	1,128,102	1,085,055	43,137	2,820,899	1,608,707
	1927	33	96	689	3,595	626	3,069	215,949	853,890	1,389,264	1,284,850	104,414	2,999,544	1,610,280
	1919	55	63	436	1,975	555	1,420	91,361	447,772	1,254,120	1,226,730	27,390	2,107,070	862,950
Kentucky	1929	80	290	1,439	11,190	4,354	6,826	752,775	1,703,254	4,228,215	4,107,578	120,637	8,093,084	3,774,800
	1927	73	276	1,785	10,332	4,429	5,903	765,700	2,131,810	4,706,299	4,592,530	113,763	9,051,067	4,344,608
	1919	106	361	1,764	7,317	3,806	3,511	616,454	1,517,591	5,274,526	5,175,817	98,709	8,855,944	3,581,418
Louisiana	1929	64	270	1,423	8,941	5,875	3,666	698,304	1,420,326	4,900,368	4,837,016	63,352	9,782,549	3,882,181
	1927	54	232	2,008	8,831	5,603	3,231	668,938	2,076,821	5,763,952	5,709,485	54,467	10,860,768	4,322,816
	1919	51	205	1,059	4,066	2,983	1,023	337,913	963,171	3,400,993	3,373,441	27,552	5,570,041	2,109,048
Maine	1929	51	127	590	6,166	1,608	4,498	287,288	704,427	1,533,820	1,488,462	45,358	3,224,507	1,600,087
	1927	36	94	499	5,136	1,073	4,063	256,866	617,642	1,620,824	1,557,493	63,371	2,911,535	1,331,011
	1919	56	80	780	4,826	2,864	1,962	151,971	760,664	2,108,535	2,072,918	35,617	3,320,713	1,221,178
Maryland	1929	59	320	1,218	9,991	2,461	7,440	721,089	1,430,858	3,943,937	3,854,644	80,293	7,292,370	3,848,442
	1927	87	265	1,068	7,864	5,544	5,440	574,299	1,255,620	3,977,139	3,900,632	70,598	7,120,473	3,149,343
	1919	65	264	1,170	6,203	3,500	2,703	548,742	1,121,020	4,410,198	4,356,631	59,567	7,609,347	3,093,140
Massachusetts	1929	135	397	2,011	17,235	6,028	11,207	1,098,820	3,295,513	5,982,159	5,772,728	200,431	12,361,575	6,379,416
	1927	147	444	2,298	16,304	6,841	10,463	1,120,139	3,876,331	6,505,209	6,304,983	230,226	14,138,244	7,543,035
	1919	146	376	2,245	11,515	7,329	4,186	678,172	2,708,767	7,213,801	7,078,198	135,603	12,025,323	5,411,522
Michigan	1929	153	769	3,784	30,974	12,320	18,654	2,304,917	4,774,454	14,404,137	13,988,740	415,397	25,614,233	11,210,066
	1927	163	771	3,983	29,710	12,755	13,955	2,189,795	5,075,154	15,113,891	14,701,971	411,920	26,999,890	11,885,999
	1919	192	1,025	5,256	27,070	16,957	10,113	2,116,638	5,821,610	24,009,408	23,643,702	365,706	37,869,230	13,569,822
Minnesota	1929	79	446	2,177	11,620	6,146	5,474	1,067,022	2,858,252	5,420,470	5,283,637	136,833	11,473,259	6,062,789
	1927	75	419	2,563	12,401	6,729	5,672	949,358	3,246,716	5,625,888	5,474,304	151,584	11,233,659	5,607,769
	1919	94	423	2,188	8,968	5,800	3,168	913,901	2,413,479	6,528,157	6,414,926	113,231	11,804,330	5,276,173
Mississippi	1929	116	223	1,630	11,320	9,005	2,315	439,708	1,227,821	6,751,367	6,700,362	45,055	10,278,886	3,527,529
	1927	108	168	1,278	10,279	7,580	2,690	294,526	897,786	5,346,259	5,280,999	65,260	7,573,482	2,227,223
	1919	65	167	1,102	6,003	5,485	518	310,191	811,333	3,488,416	3,473,730	14,077	5,933,133	2,444,717
Missouri	1929	84	409	1,755	13,509	3,732	9,777	1,056,028	2,365,292	4,166,451	4,037,989	128,462	8,995,634	4,820,183
	1927	96	421	2,162	12,633	4,299	8,334	1,088,979	2,868,001	5,695,301	5,554,823	140,538	11,357,592	5,662,231
	1919	111	467	2,895	10,081	6,078	4,003	801,034	2,841,490	6,794,984	6,675,618	119,366	12,817,066	5,522,082
Montana	1929	11	14	157	2,626	958	1,568	32,050	101,082	430,204	430,260	8,944	796,362	357,153
	1927	9	15	144	1,592	933	659	30,506	164,497	437,065	428,878	8,187	731,205	297,140
	1919	30	25	176	1,153	151	1,002	50,333	263,420	779,844	766,001	13,843	1,205,349	425,505
Nebraska	1929	25	95	340	2,593	415	2,148	266,065	434,208	998,137	967,584	30,553	2,070,804	1,072,667
	1927	23	87	390	2,199	415	1,784	226,858	544,204	898,478	869,250	24,222	1,947,268	1,047,268
	1919	29	69	422	1,728	533	1,195	110,899	546,849	1,212,144	1,191,457	20,087	2,181,836	969,692
New Hampshire	1929	29	92	725	4,599	2,886	1,713	206,014	783,233	1,347,118	1,314,505	32,523	2,960,540	1,613,422</

# PLANING-MILL PRODUCTS

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TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919—Continued

[See note at head of this table]

STATE	Cen- sus year	Num- ber of estab- lish- ments	Sala- ried officers and em- ployees <sup>1</sup>	Wage earners (aver- age for the year)	HORSEPOWER (RATED CAPA- CITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manu- facture <sup>3</sup>
					Total	Prime movers	Motors run by pur- chased energy			Total	Materials	Fuel and purchased energy		
New Jersey	1920	145	625	1,989	17,006	5,109	11,957	3,206,022	6,068,530	5,843,958	222,572	13,208,020	7,141,490	
	1927	130	426	1,821	13,635	3,563	10,072	1,192,419	3,164,040	5,623,801	212,280	11,883,060	6,359,260	
	1919	168	337	1,950	9,345	6,008	3,337	711,514	2,100,981	6,250,184	170,432	10,758,566	4,409,362	
New Mexico	1920	9	11	148	594	125	469	53,350	128,173	397,543	373,410	14,127	680,310	298,776
	1927	8	10	164	306	125	241	19,244	129,411	355,876	335,201	20,075	552,924	197,048
	1919	9	6	46	410	207	203	9,092	44,454	104,840	98,881	5,965	192,665	87,810
New York	1920	453	1,639	7,071	56,062	17,698	38,374	5,222,808	12,054,870	23,360,622	22,565,227	785,395	51,071,950	27,721,328
	1927	404	1,562	7,385	54,969	17,821	37,148	4,227,248	12,017,195	25,821,175	26,024,600	700,569	52,402,495	26,581,320
	1919	515	1,638	8,456	41,516	27,930	13,580	3,214,129	9,849,335	28,365,004	27,751,288	604,310	49,440,846	21,085,242
North Carolina	1920	102	417	3,071	23,887	14,982	8,905	1,013,398	2,723,929	11,348,604	11,205,247	143,357	18,270,171	6,630,567
	1927	163	366	3,030	20,348	13,098	7,340	875,921	2,630,053	9,700,032	9,558,460	142,172	14,923,177	5,222,545
	1919	168	308	2,197	11,895	10,242	1,653	527,442	1,715,246	7,138,993	7,088,812	50,181	11,439,082	4,300,089
North Dakota	1920	10	7	53	372	50	322	17,086	75,221	106,032	90,700	6,242	230,651	133,610
	1927	9	0	42	375	75	300	18,024	60,203	82,734	76,186	6,548	196,129	113,395
Ohio	1920	268	1,031	4,508	34,730	8,112	26,618	2,823,610	6,404,400	15,320,907	14,869,811	400,159	30,183,955	14,853,988
	1927	255	953	4,628	33,816	9,231	24,585	2,402,271	6,515,761	17,153,801	16,099,253	431,548	31,860,532	11,710,731
	1919	378	1,070	4,495	28,302	13,892	14,410	1,743,162	5,219,136	20,352,143	19,990,630	301,513	32,428,847	12,076,704
Oklahoma	1920	40	93	350	2,607	450	2,217	244,253	514,815	1,242,603	1,217,071	25,022	2,497,700	1,255,067
	1927	33	63	353	2,515	370	2,145	186,377	608,218	1,142,948	1,118,450	24,493	2,381,912	1,238,904
	1919	56	127	546	1,853	561	1,302	253,305	604,664	1,601,817	1,470,987	30,830	3,140,868	1,548,051
Oregon	1920	64	183	1,455	12,342	925	11,417	485,542	1,850,330	4,777,304	4,616,320	160,978	8,500,649	3,723,345
	1927	61	184	1,734	12,963	1,194	11,769	551,216	2,220,277	5,820,210	5,659,622	160,583	9,098,878	3,890,008
	1919	61	170	1,084	5,901	2,783	3,118	359,972	1,380,376	3,278,290	3,220,034	52,252	6,864,340	2,540,003
Pennsylvania	1920	427	1,511	5,558	47,751	13,460	34,295	4,001,511	8,403,323	16,707,128	16,180,953	616,175	35,360,005	18,569,807
	1927	439	1,395	6,574	49,578	16,748	33,830	3,380,924	9,970,688	20,930,031	20,227,365	703,260	41,827,637	20,897,000
	1919	538	1,171	7,104	36,200	11,098	15,222	2,217,943	6,074,355	19,094,492	18,622,481	472,011	35,124,866	16,030,374
Rhode Island	1920	19	86	308	2,735	870	1,865	253,814	439,895	920,000	890,544	29,510	1,061,078	1,041,018
	1927	22	107	380	3,537	1,755	1,782	279,027	672,515	1,136,328	1,099,776	36,552	1,227,457	1,001,120
	1919	27	60	388	1,698	900	708	137,401	433,304	821,362	796,035	26,317	1,712,328	890,970
South Carolina	1920	82	181	1,478	9,704	6,730	2,965	372,424	937,101	5,701,315	5,646,230	55,085	8,610,210	2,008,001
	1927	54	122	975	5,248	3,872	1,370	251,592	743,617	3,036,907	3,002,654	34,253	5,401,019	1,824,112
	1919	54	139	865	3,340	2,346	1,000	273,017	633,860	3,074,025	3,051,129	22,896	4,550,924	1,485,899
South Dakota	1920	12	30	133	1,309	50	1,310	57,247	144,178	430,238	417,793	12,445	777,073	340,835
	1927	10	15	99	977	-----	977	29,969	120,434	282,209	298,200	13,919	484,536	202,317
	1919	23	28	147	800	50	834	37,662	180,973	441,054	427,428	13,620	813,372	372,318
Tennessee	1920	124	517	3,701	24,231	16,850	7,381	1,529,913	3,285,058	11,239,935	11,081,021	158,914	10,487,762	8,247,827
	1927	103	459	4,931	20,058	14,566	5,492	1,213,053	4,250,624	15,410,121	15,268,208	141,853	24,473,341	9,063,220
	1919	109	350	2,737	11,404	7,698	3,706	713,612	2,019,502	7,531,861	7,406,392	75,629	12,370,082	4,838,231
Texas	1920	122	385	2,144	13,380	4,874	8,515	1,052,811	2,490,339	5,916,658	5,783,830	132,828	11,372,107	5,455,509
	1927	113	345	2,286	11,045	2,999	8,049	747,882	2,542,359	6,507,535	6,430,711	80,824	11,555,673	4,988,138
	1919	130	300	1,770	5,821	3,182	2,630	542,402	1,863,098	5,280,182	5,200,173	90,000	9,792,430	4,053,257
Utah	1920	25	25	175	1,701	110	1,585	62,779	280,360	431,437	413,097	18,340	951,073	520,530
	1927	16	20	137	1,282	118	1,164	46,927	213,067	322,545	310,318	12,227	729,068	407,123
	1919	33	36	200	2,144	93	2,048	43,393	286,147	424,070	400,623	14,447	950,303	520,233
Vermont	1920	30	51	345	3,293	1,546	1,747	109,893	379,904	1,352,722	1,322,207	30,465	2,256,771	904,049
	1927	20	40	373	2,322	1,595	727	83,693	427,820	1,300,772	1,281,209	19,503	2,114,232	813,460
	1919	35	34	267	2,167	1,901	206	93,120	265,877	1,855,482	1,850,292	5,190	2,840,673	901,101
Virginia	1920	119	317	1,847	14,099	8,031	6,068	721,093	1,987,963	5,025,557	5,818,540	107,008	10,245,367	4,319,800
	1927	107	303	2,166	13,734	7,929	5,805	693,300	2,212,663	6,525,266	6,417,123	108,143	11,142,466	4,617,200
	1919	145	314	2,039	9,596	6,982	2,524	470,027	1,033,039	7,043,818	7,043,818	61,120	11,773,016	4,229,168
Washington	1920	129	461	3,600	25,270	4,021	20,649	1,237,881	4,472,917	14,559,895	14,269,731	290,164	23,463,304	8,905,409
	1927	120	378	3,070	22,812	5,450	17,362	974,132	4,021,631	11,142,789	10,849,404	293,325	19,587,125	8,444,336
	1919	86	238	1,946	11,787	6,261	5,526	483,049	2,442,734	6,000,327	5,976,182	84,145	10,931,701	4,871,374
West Virginia	1920	49	126	686	7,840	4,132	3,717	357,193	780,986	2,679,197	2,602,970	70,227	4,509,280	1,830,080
	1927	51	147	798	4,150	3,773	3,773	378,806	1,090,256	3,731,926	3,637,200	94,717	5,905,365	2,173,430
	1919	121	263	1,064	6,803	4,769	2,034	498,951	1,068,808	7,693,669	7,693,669	65,118	10,909,224	3,115,555
Wisconsin	1920	143	807	5,283	23,993	13,621	10,372	2,507,861	6,584,357	13,000,411	12,057,499	342,012	26,544,948	13,544,532
	1927	149	822	5,517	24,887	14,967	9,620	2,298,557	7,215,951	15,548,382	15,226,749	321,633	29,448,470	13,900,088
	1919	167	683	4,422	15,957	12,301	3,656	1,386,137	4,420,192	11,314,621	11,008,124	216,307	26,540,900	9,232,469
Wyoming	1920	4	3	23	164	-----	164	6,800	37,409	59,226	57,500	1,726	133,766	74,540
	1927	4	2	13	150	-----	150	3,000	20,100	40,734	38,900	1,834	73,937	33,203
	1919	25	6	39	333	31	302	6,774	77,102	81,729	80,107	4,022	203,775	119,046
Other States <sup>4</sup>	1920	10	31	163	1,443	-----	1,443	67,519	216,509	652,326	628,550	23,767	1,238,519	586,193
	1927	13	30	169	1,511	60	1,451	57,854	244,028	712,214	689,001	23,213	1,216,040	503,826
	1919	10	18	121	890	37	652	35,660	138,899	346,829	335,331	11,498	616,074	269,245

## CENSUS OF MANUFACTURES: 1929

TABLE 3.—PLANING-MILL PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1929, 1927, AND 1925

[The figures for all census years refer to production, not sales. See GENERAL EXPLANATIONS—Value of Products]

	1929			1927			1925		
	Total	Independent planing mills	Planing mills operated in conjunction with sawmills	Total	Independent planing mills	Planing mills operated in conjunction with sawmills	Total	Independent planing mills	Planing mills operated in conjunction with sawmills
Total value.....	\$1,042,308,607	\$545,824,954	\$406,573,743	\$1,108,381,920	\$573,603,538	\$534,778,382	\$1,240,612,477	\$600,336,724	\$550,276,753
Dressed lumber, including flooring, ceiling, partition, and siding: Quantity (M ft. b. m.).....	17,796,042	4,106,664	13,689,378	19,345,061	3,401,767	15,943,294	18,076,163	4,786,630	14,330,133
Value.....	\$498,455,753	\$130,718,797	\$367,736,956	\$555,312,846	\$132,544,027	\$422,768,818	\$572,968,936	\$150,885,082	\$413,083,854
Doors: Number.....	17,231,703	12,022,714	5,208,989	16,340,844	12,138,125	4,211,719	23,101,019	15,126,635	7,975,284
Value.....	\$59,815,987	\$44,127,476	\$15,188,511	\$57,071,624	\$43,934,400	\$14,037,134	\$70,205,775	\$60,459,558	\$18,809,217
Sash: Number.....	20,125,304	27,049,417	2,075,887	39,838,753	34,188,250	5,650,497	47,821,401	40,655,480	7,165,921
Value.....	\$25,282,018	\$24,412,050	\$809,989	\$29,765,614	\$28,010,405	\$1,755,209	\$43,565,498	\$41,330,634	\$2,174,864
Window and door frames: Number.....	9,175,343	8,204,312	971,031	11,004,490	10,393,468	1,511,022	12,756,436	10,802,866	1,953,540
Value.....	\$27,698,731	\$25,052,924	\$1,745,807	\$33,014,753	\$30,813,012	\$2,401,741	\$42,490,618	\$38,808,891	\$3,687,727
Plywood, value.....	\$56,085,220	\$27,928,835	\$27,156,385	\$40,668,303	\$16,617,534	\$24,050,769	\$32,511,557	\$18,401,004	\$14,109,553
Portable and ready-cut houses, value.....	\$11,575,152	\$11,569,252	\$5,900	\$14,227,063	\$14,224,988	\$2,075	\$15,316,450	\$15,192,737	\$123,722
Tanks and vats, value <sup>1</sup> .....	\$5,187,047	\$5,027,645	\$159,402	\$4,687,309	\$4,645,558	\$41,751	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Silo stock, value.....	\$2,478,612	\$1,378,354	\$1,100,258	\$3,820,986	\$1,811,850	\$2,009,127	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Miscellaneous millwork and millwork not reported by kind, value <sup>3</sup> .....	\$358,301,084	\$271,180,100	\$87,120,885	\$365,600,656	\$298,108,127	\$67,411,529	\$458,029,237	\$360,157,173	\$97,872,064
Amount received for custom planing.....	\$4,010,003	\$3,520,413	\$489,650	\$3,303,767	\$3,003,538	\$300,229	\$5,518,307	\$5,100,045	\$418,352

<sup>1</sup> Does not include value of planing-mill products made as secondary products by establishments engaged primarily in other lines of manufacture, as follows: For 1929, \$8,605,324; for 1927, \$6,379,492; for 1925, \$3,800,677.

<sup>2</sup> The difference between this total and the corresponding value of products given in Table 1 is accounted for by the value of miscellaneous products not normally belonging to the planing-mill industry.

<sup>3</sup> Wooden tanks and vats are also made to some extent as secondary products by establishments engaged primarily in other lines of manufacture. The value of tanks and vats specifically reported by such establishments for 1929 was \$992,896, and for 1927, \$532,563.

<sup>4</sup> Not called for separately on schedule. Included in figure for "Miscellaneous millwork and millwork not reported by kind."

<sup>5</sup> Molding, inside trim, and general millwork not separately reported. Includes also values of miscellaneous millwork normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of planing-mill products.

# PLANING-MILL PRODUCTS

TABLE 4.—PLANING-MILL PRODUCTS, BY KIND, QUANTITY, AND VALUE, BY STATES: 1929, 1927, AND 1925

[This table presents statistics for products made by independent planing mills and for planing mills operated in conjunction with sawmills, but does not include data for planing-mill products made as secondary products by establishments engaged primarily in other lines of manufacture. See footnote 1, Table 3]

STATE	Census year	Total value of products <sup>1</sup>	DRESSED LUMBER, INCLUDING FLOORING, CEILING, PARTITION, AND SIDING		DOORS		SASH		WINDOW AND DOOR FRAMES		PLYWOOD	PORTABLE AND READY-CUT HOUSES	TANKS AND VATS	MISCELLANEOUS MILLWORK	AMOUNT RECEIVED FOR CUTS-TOM PLANING
			Quantity (M ft. b. m.)	Value	Number	Value	Number	Value	Number	Value					
United States	1929	\$1,042,398,697	17,796,042	\$493,455,753	17,291,703	\$50,815,857	29,125,304	\$25,282,048	9,175,343	\$27,698,731	\$55,085,220	\$11,575,047	\$5,187,047	\$860,779,696	\$4,019,093
	1927	1,108,381,920	19,345,061	555,312,845	16,349,624	57,971,624	39,838,753	29,765,614	11,904,490	32,014,753	40,668,308	14,227,063	4,687,369	369,490,642	3,303,737
	1925	1,249,612,477	18,676,163	572,968,935	23,101,919	79,265,175	47,831,401	48,905,498	12,756,436	42,496,618	32,511,557	15,316,459	( <sup>2</sup> )	458,028,237	6,818,897
Alabama	1929	33,853,242	1,360,412	30,205,535	20,729	104,075	68,400	100,450	31,440	148,162	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	3,089,243	103,024
	1927	39,850,661	1,571,775	35,265,559	128,265	447,150	312,876	340,864	73,411	357,019	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	3,278,407	161,652
	1925	39,646,328	1,554,832	36,732,410	126,906	595,924	155,650	304,155	54,171	257,103	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	2,522,155	138,821
Arkansas	1929	52,873,392	725,723	24,307,973	23,125	51,825	73,600	86,625	22,275	86,975	217,431	( <sup>3</sup> )	( <sup>3</sup> )	8,096,933	30,810
	1927	33,324,545	791,904	26,537,923	17,460	69,830	128,842	104,610	17,103	65,659	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	7,452,828	13,555
	1925	44,966,977	997,714	37,106,730	42,460	185,839	184,229	863,457	82,890	303,975	509,637	( <sup>3</sup> )	( <sup>3</sup> )	5,922,740	64,599
California	1929	85,960,274	1,219,045	35,433,025	1,650,651	5,255,356	3,117,947	2,695,021	651,242	2,149,051	911,146	( <sup>3</sup> )	( <sup>3</sup> )	38,119,811	244,071
	1927	9,092,697	1,115,474	43,672,647	1,979,251	6,383,299	3,697,177	492,744	1,663,436	1,098,983	26,967,569	502,690	( <sup>3</sup> )	37,297,569	382,224
	1925	102,324,622	1,117,985	43,942,496	1,952,601	6,015,587	4,070,929	3,636,722	539,503	2,171,252	824,341	267,048	( <sup>3</sup> )	45,326,136	550,740
Colorado	1929	1,941,182	18,630	480,325	14,833	125,565	42,458	91,802	17,883	75,906	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	1,152,244	15,220
	1927	2,468,821	30,038	562,726	6,951	56,238	37,105	87,105	21,257	96,346	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	1,448,140	7,776
	1925	3,060,449	31,050	760,442	13,928	92,559	51,133	124,543	22,825	104,504	9,435	( <sup>3</sup> )	( <sup>3</sup> )	1,919,965	48,086
Connecticut	1929	5,066,635	6,033	360,997	60,547	300,205	429,319	345,005	48,453	283,441	1,300	( <sup>3</sup> )	( <sup>3</sup> )	4,356,568	11,489
	1927	5,585,081	1,333	130,500	112,127	554,677	634,861	526,911	65,402	251,110	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	4,081,989	28,050
	1925	7,203,254	1,180	339,749	45,847	223,973	362,230	810,396	56,321	228,085	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	5,514,330	89,771
Delaware	1929	347,677	650	29,049	1,709	9,163	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	318,478	150
	1927	505,016	1,780	109,320	( <sup>3</sup> )	( <sup>3</sup> )	4,615	3,200	2,750	3,875	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	366,636	11,786
	1925	433,741	1,790	26,900	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	9,502	3,700	21,650	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	344,450	25,230
District of Columbia	1929	1,223,102	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	1,201,308	3,511
	1927	1,050,100	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	1,046,973	3,127
	1925	1,504,149	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	1,496,996	7,153
Florida	1929	20,563,372	523,931	13,993,100	17,063	123,549	61,674	174,607	51,412	106,368	76,394	( <sup>3</sup> )	( <sup>3</sup> )	5,927,477	70,020
	1927	20,677,289	453,281	13,538,495	42,327	221,883	103,836	240,342	107,530	412,770	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	3,978,109	130,588
	1925	44,096,168	790,316	29,894,770	246,892	1,060,973	729,291	1,346,040	458,417	2,133,579	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	15,410,281	189,625
Georgia	1929	26,535,949	1,023,538	19,479,255	96,294	409,225	256,526	355,972	160,493	695,274	50,389	( <sup>3</sup> )	( <sup>3</sup> )	5,584,420	21,374
	1927	28,621,859	988,576	20,717,708	91,491	307,650	223,519	291,850	73,288	321,748	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	6,888,745	94,145
	1925	41,001,244	1,275,589	32,452,177	142,871	453,091	348,719	346,462	133,649	440,231	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	7,266,465	196,788
Idaho	1929	23,503,410	779,225	21,830,239	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	1,649,708	518
	1927	21,120,711	717,277	19,499,206	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	1,606,176	3,512
	1925	29,610,024	835,905	26,738,017	6,031	14,766	15,958	25,822	3,063	9,241	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	2,829,671	1,745
Illinois	1929	40,896,565	91,524	4,817,370	767,251	3,325,497	2,622,333	2,281,195	894,067	2,616,984	349,376	2,552,921	798,398	26,378,110	270,494
	1927	49,002,961	143,514	6,517,712	856,453	3,011,486	4,499,750	2,269,840	1,306,076	4,077,590	460,539	4,393,010	845,612	27,860,017	164,155
	1925	62,438,189	166,700	8,902,729	1,294,468	5,016,940	4,674,035	4,526,671	1,373,624	4,977,173	600,462	2,786,037	( <sup>3</sup> )	34,731,087	337,240
Indiana	1929	21,127,896	29,744	1,870,559	82,965	525,440	175,456	367,022	110,650	512,351	8,965,193	( <sup>3</sup> )	( <sup>3</sup> )	8,896,078	69,375
	1927	16,757,249	22,169	1,616,449	128,865	1,297,804	201,527	319,925	166,672	688,384	4,337,034	( <sup>3</sup> )	( <sup>3</sup> )	3,408,907	81,064
	1925	17,491,466	27,139	1,140,319	196,022	737,572	422,890	569,851	240,731	963,775	4,245,365	459,688	( <sup>3</sup> )	9,236,487	64,609
Iowa	1929	17,976,658	180	4,406	1,736,022	5,436,917	6,138,392	2,644,045	579,760	1,223,813	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	7,547,431	5,725
	1927	17,393,649	98	9,011	1,726,460	5,724,837	7,706,852	4,063,362	510,563	1,067,281	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	5,553,278	17,969
	1925	20,684,615	1,162	55,372	2,802,737	7,767,068	9,438,065	4,544,741	454,183	1,322,595	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	6,784,652	13,746
Kansas	1929	2,788,716	1,688	121,033	36,814	184,525	267,840	316,454	21,653	385,963	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	2,126,401	4,350
	1927	2,620,461	666	39,105	66,434	176,289	736,243	725,406	33,435	121,966	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	9,639	4,350
	1925	4,780,932	3,738	255,047	153,147	414,219	673,056	905,359	54,240	227,966	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	2,953,078	25,273
Kentucky	1929	9,220,728	46,114	2,854,636	10,639	88,377	19,813	55,065	45,699	239,741	2,645,599	( <sup>3</sup> )	( <sup>3</sup> )	3,220,952	18,358
	1927	9,844,576	36,452	2,265,105	41,234	367,872	33,871	73,999	399,521	1,959,741	1,569,741	( <sup>3</sup> )	( <sup>3</sup> )	4,556,610	221,728
	1925	12,700,599	44,968	2,388,323	56,644	459,069	172,596	247,595	92,195	533,552	2,927,863	( <sup>3</sup> )	( <sup>3</sup> )	5,606,062	85,133

See footnotes at end of table.

TABLE 4.—PLANING-MILL PRODUCTS, BY KIND, QUANTITY, AND VALUE, BY STATES: 1929, 1927, AND 1925—Continued

[See note at head of this table]

STATE	Census year	Total value of products <sup>1</sup>	DRESSED LUMBER IN-CLUDING CEDARS, PARTITION, AND SIDING		DOORS		SASH		WINDOW AND DOOR FRAMES		PLYWOOD	PORTABLE AND READY-CUT HOUSES	TANKS AND VATS <sup>2</sup>	MISCELLANEOUS MILLSWORK <sup>3</sup>	AMOUNT RECEIVED FOR CUTS FROM PLANING
			Quantity (M ft. b. m.)	Value	Number	Value	Number	Value	Number	Value					
Louisiana	1929	\$39,064,431	1,060,084	\$93,713,437	68,172	\$269,478	472,011	\$398,824	76,140	\$205,023	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	\$4,336,329	\$11,320
	1927	41,410,271	1,284,888	10,915,071	52,161	191,515	418,344	335,449	72,973	351,509	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	5,402,828	143,396
	1925	60,505,113	1,637,982	58,165,354	104,283	246,786	431,188	424,883	68,092	363,064	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	6,243,617	61,419
Maine	1929	6,279,926	15,148	619,213	9,316	57,800	167,544	143,401	125,531	248,874	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	5,238,203	72,485
	1927	6,919,048	34,638	1,476,350	6,486	78,449	241,570	196,948	478,470	747,593	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	4,093,580	26,128
	1925	7,428,622	24,094	1,076,744	10,317	94,373	461,549	342,821	564,320	1,039,113	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	4,807,626	48,940
Maryland	1929	7,492,827	48,743	2,152,444	167,783	1,119,700	152,202	362,590	129,612	541,136	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	3,185,413	62,544
	1927	7,245,366	49,427	2,423,611	30,073	341,406	45,174	1,655,651	104,861	549,658	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	3,740,829	24,211
	1925	8,828,083	27,711	1,338,195	148,742	1,435,126	337,930	822,304	199,068	797,028	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	4,372,616	60,769
Massachusetts	1929	13,521,257	15,672	1,112,377	45,552	427,849	379,955	455,007	110,816	560,732	\$6,861	( <sup>4</sup> )	( <sup>4</sup> )	10,817,458	140,973
	1927	14,787,119	20,554	1,430,241	29,048	246,917	331,959	483,008	48,008	431,702	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	11,362,248	80,940
	1925	17,646,304	18,725	1,053,348	41,235	334,589	652,192	662,492	140,301	495,595	330,422	( <sup>4</sup> )	( <sup>4</sup> )	13,890,238	143,691
Michigan	1929	41,081,504	175,004	9,815,309	188,405	1,265,310	274,907	427,402	553,009	1,382,142	4,785,801	( <sup>4</sup> )	( <sup>4</sup> )	22,006,384	149,716
	1927	38,786,571	276,861	13,683,305	202,443	1,405,847	389,723	514,522	302,009	1,518,368	3,394,360	( <sup>4</sup> )	( <sup>4</sup> )	16,305,710	70,330
	1925	64,027,407	295,836	16,223,660	197,310	1,142,995	1,062,698	1,335,169	506,591	1,494,200	3,004,979	( <sup>4</sup> )	( <sup>4</sup> )	38,388,868	78,779
Minnesota	1929	19,358,336	216,177	6,525,672	80,980	462,372	619,604	709,784	851,620	2,028,984	6,293	( <sup>4</sup> )	( <sup>4</sup> )	9,616,988	11,443
	1927	23,439,175	332,333	11,466,574	63,542	332,573	606,162	677,513	1,126,643	2,376,043	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	8,241,740	29,584
	1925	21,781,350	169,519	5,492,870	165,134	768,546	942,783	950,536	1,202,860	3,100,470	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	11,425,490	18,488
Mississippi	1929	43,083,034	1,391,428	35,581,334	36,145	145,360	80,310	172,328	41,122	165,073	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	6,649,844	374,095
	1927	44,888,085	1,642,017	1,102,985	108,317	574,300	32,511	88,408	28,555	191,466	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	3,374,111	151,773
	1925	47,401,653	1,680,809	41,806,331	29,037	195,475	83,078	181,063	152,193	693,494	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	5,094,885	213,869
Missouri	1929	9,489,928	33,720	1,354,080	109,550	377,853	384,128	528,766	175,665	656,915	313,532	( <sup>4</sup> )	( <sup>4</sup> )	5,899,775	34,693
	1927	13,463,243	32,147	1,102,985	108,317	574,300	32,511	2,958,753	175,665	656,915	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	7,101,425	57,210
	1925	16,511,927	41,254	1,844,821	231,369	1,304,513	1,062,698	1,335,169	198,354	847,331	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	11,137,446	42,597
Montana	1929	6,880,946	229,058	5,955,883	4,392	23,592	( <sup>4</sup> )	( <sup>4</sup> )	85,336	121,317	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	981,780	2,383
	1927	6,559,869	244,695	5,800,186	2,088	10,197	887,700	384,458	3,122	11,487	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	606,265	1,589
	1925	7,350,211	244,192	6,214,683	2,088	10,197	887,700	384,458	3,122	11,487	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	725,643	3,732
Nebraska	1929	1,097,335	630	( <sup>4</sup> )	25,449	161,415	145,002	216,879	34,753	193,605	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	1,395,282	28,460
	1927	1,816,965	80	32,282	18,904	82,468	127,140	186,878	30,612	127,351	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	1,371,825	15,962
	1925	1,897,411	80	3,100	45,209	163,310	132,865	222,715	59,931	247,132	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	1,228,516	30,638
New Hampshire	1929	4,664,144	9,578	463,061	91,043	422,815	245,540	385,540	245,620	557,281	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	2,819,770	15,677
	1927	5,408,775	290,269	2,902,269	17,138	61,730	193,917	221,207	501,065	501,065	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	4,375,141	3,483
	1925	6,431,672	13,376	729,737	86,629	444,711	607,472	458,113	836,623	970,466	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	3,720,052	99,573
New Jersey	1929	13,534,862	16,881	1,060,463	50,894	320,807	159,115	464,725	129,544	523,498	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	11,130,242	35,177
	1927	11,898,695	5,684	461,714	64,388	206,769	206,468	483,141	171,015	569,477	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	9,270,744	60,072
	1925	13,900,140	14,527	927,582	160,438	862,851	312,408	896,112	251,754	965,924	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	9,719,881	78,021
New Mexico	1929	2,830,319	70,692	1,820,533	2,040	6,210	9,650	( <sup>4</sup> )	2,456	7,469	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	985,318	1,604
	1927	3,178,695	82,413	2,223,455	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	955,195	46
	1925	3,172,819	82,845	1,902,222	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	1,263,494	7,103
New York	1929	51,714,887	90,898	4,927,738	477,912	2,976,950	1,745,143	2,318,376	641,812	2,327,764	2,856,227	( <sup>4</sup> )	( <sup>4</sup> )	34,583,365	506,909
	1927	54,355,155	81,871	4,606,133	573,870	2,507,564	2,243,291	2,243,291	745,456	2,361,975	2,361,975	( <sup>4</sup> )	( <sup>4</sup> )	37,275,833	206,948
	1925	57,473,144	107,434	6,639,405	769,157	4,701,091	2,469,538	3,229,693	763,638	3,206,382	3,366,501	( <sup>4</sup> )	( <sup>4</sup> )	43,503,733	423,020
North Carolina	1929	33,988,164	608,738	13,793,401	67,392	248,851	183,559	339,272	124,142	469,044	6,993,936	( <sup>4</sup> )	( <sup>4</sup> )	12,935,088	109,072
	1927	31,668,335	583,039	15,288,286	104,952	368,623	291,570	390,511	170,237	593,511	4,720,527	( <sup>4</sup> )	( <sup>4</sup> )	10,925,873	182,957
	1925	32,278,734	608,139	14,938,140	129,052	478,966	336,340	533,340	187,472	666,215	4,584,688	( <sup>4</sup> )	( <sup>4</sup> )	10,846,413	239,872
North Dakota	1929	285,901	( <sup>4</sup> )	( <sup>4</sup> )	1,546	( <sup>4</sup> )	7,308	24,635	6,662	29,382	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	181,173	710
	1927	195,379	( <sup>4</sup> )	( <sup>4</sup> )	7,765	( <sup>4</sup> )	14,787	6,931	6,662	29,382	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	148,000	610
	1925	190,519	( <sup>4</sup> )	( <sup>4</sup> )	3,834	( <sup>4</sup> )	16,862	( <sup>4</sup> )	16,862	16,862	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	173,327	309

# PLANING-MILL PRODUCTS

Year	Ohio	Oklahoma	Oregon	Pennsylvania	Rhode Island	South Carolina	South Dakota	Tennessee	Texas	Utah	Vermont	Virginia	Washington	West Virginia	Wisconsin	Wyoming	Other States*
1929	30,107,960	92,629	7,005,785	34,981,625	1,999,897	19,082,982	1,608,088	299,867	895,595	944,552	5,781,907	14,647,075	121,682,295	5,595,522	43,013,656	179,260	
1927	31,984,072	90,555	6,502,268	42,985,968	2,171,204	17,337,966	3,124,101	38,295,582	37,425,920	726,950	4,214,537	16,053,688	129,097,746	7,421,440	47,184,881	77,957	3,791,091
1925	38,533,546	90,388	6,246,379	60,384,460	2,396,127	20,186,243	1,196,646	30,837,379	38,648,556	651,118	4,814,677	19,874,948	106,715,873	10,415,401	49,602,662		3,000
1929	76,086	155,550	116,425	1,647,074	8,829	680,154	10,912	299,867	895,595	944,552	25,894	156,640	3,104,242	64,124	288,780		1,663,898
1927	150,233	155,550	116,425	1,647,074	8,829	680,154	10,912	299,867	895,595	944,552	25,894	156,640	3,104,242	64,124	288,780		1,556,695
1925	146,079	155,550	116,425	1,647,074	8,829	680,154	10,912	299,867	895,595	944,552	25,894	156,640	3,104,242	64,124	288,780		1,477,204

\* The figures for all census years refer to production, not sales. See GENERAL EXPLANATIONS—Values of Products.  
 † See footnote 3, Table 3.  
 ‡ Molding, inside trim, and general millwork not separately reported. Includes some items not specified.  
 § Included in figure for "Miscellaneous millwork" to avoid disclosing data for individual establishments.  
 ¶ For 1923 and 1927, Arizona and Nevada; for 1923, Arizona, Nevada, and Wyoming.

## CENSUS OF MANUFACTURES: 1929

TABLE 5.—CONSUMPTION OF LUMBER, BY QUANTITY AND COST, BY STATES: 1929

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups]

STATE	REPORTED BY INDEPENDENT PLANING MILLS			Reported by planing mills operated in conjunction with saw-mills; complete, but estimated in part (M ft. b. m.)	STATE	REPORTED BY INDEPENDENT PLANING MILLS			Reported by planing mills operated in conjunction with saw-mills; complete, but estimated in part (M ft. b. m.)
	Quantity (M ft. b. m.)	Cost	Per cent of completeness <sup>1</sup>			Quantity (M ft. b. m.)	Cost	Per cent of completeness <sup>1</sup>	
United States.....	4,860,857	\$175,044,341	72.7	16,126,957	Individual States—Con.				
Individual States:					New York.....	196,409	\$10,512,324	62.5	10,471
Alabama.....	201,375	3,200,445	43.5	886,161	North Carolina.....	227,119	5,775,391	57.2	348,335
Arkansas.....	93,001	2,890,137	79.5	751,401	North Dakota.....	467	28,882	61.6	8,304
California.....	767,743	25,332,491	85.5	1,124,671	Ohio.....	176,444	9,201,547	75.0	152,551
Colorado.....	5,235	340,070	70.2	18,066	Oklahoma.....	6,393	335,480	51.5	2,492,577
District of Columbia.....	1,910	226,154	74.1		Oregon.....	70,070	2,326,320	54.6	5,610
Florida.....	40,760	1,207,192	67.3	500,764	Pennsylvania.....	164,143	9,016,402	78.8	396,880
Georgia.....	275,518	5,861,945	63.8	477,543	South Carolina.....	210,740	3,664,606	59.6	120,446
Idaho.....	287	20,835	67.2	844,467	Tennessee.....	208,876	9,586,536	80.0	830,550
Indiana.....	76,022	3,846,475	85.4	13,730	Texas.....	74,304	2,966,742	68.6	26,317
Kansas.....	11,203	677,699	65.4		Vermont.....	9,892	478,853	52.7	86,668
Kentucky.....	61,778	2,588,460	80.3	8,505	Virginia.....	104,613	3,688,076	66.2	3,612,809
Louisiana.....	124,400	3,595,371	70.8	947,334	Washington.....	406,163	11,322,820	89.8	38,127
Maine.....	14,293	840,447	62.3	72,703	West Virginia.....	57,387	1,703,849	61.7	284,670
Maryland.....	64,903	2,002,233	89.2	4,507	Wisconsin.....	107,700	5,751,080	63.6	
Massachusetts.....	59,150	3,074,200	78.2	24,620	Groups of States:				
Michigan.....	208,642	9,631,963	75.4	175,787	Arizona, Nevada, New Mexico, South Dakota, Utah, and Wyoming.....	22,600	910,017	50.0	218,301
Minnesota.....	78,034	3,033,331	73.4	243,737	Connecticut, Delaware, New Jersey, and Rhode Island.....	90,728	4,907,505	62.3	10,384
Mississippi.....	184,234	3,591,420	48.1	1,094,176	Illinois and Iowa.....	320,730	15,097,421	81.4	5,830
Missouri.....	38,833	2,234,363	76.6	14,577					
Montana.....	11,912	536,020	92.1	233,937					
Nebraska.....	6,525	390,808	84.7						
New Hampshire.....	20,037	844,224	72.7	32,199					

<sup>1</sup> The per cent of completeness for each State or group of States was calculated by dividing the combined value of products of independent planing mills reporting lumber consumption by the total value of products of all independent planing mills in the State or group.

TABLE 6.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSEPOWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
		Horsepower		Horsepower		Horsepower		Horsepower		Horsepower		
Prime movers and electric motors driven by purchased energy, aggregate.....	51,947	677,998	45,132	630,674	38,049	597,103	20,540	417,070	14,605	410,250	100.0	100.0
Prime movers, total.....	2,096	262,504	2,062	260,434	2,403	276,295	3,596	254,875	4,440	314,615	38.7	61.1
Steam, total.....	1,959	256,137	1,846	252,123	2,076	266,798	2,720	234,959	3,233	286,018	37.8	56.3
Engines.....	1,892	228,670	1,794	235,196	2,010	246,732	2,074	222,953	(1)	(1)	33.7	53.4
Turbines.....	67	27,467	52	16,927	57	20,066	56	12,096	(1)	(1)	4.1	2.9
Internal-combustion engines.....	100	4,108	161	6,020	249	6,959	741	15,283	1,028	21,514	0.6	3.7
Water wheels and water turbines.....	37	2,260	55	2,291	78	2,508	126	4,633	188	7,083	0.3	1.1
Electric motors driven by purchased energy.....	49,851	415,494	43,070	370,240	35,646	320,838	16,044	162,195	10,216	95,644	61.3	38.9
Electric motors, total.....	60,523	516,448	52,856	464,219	42,838	390,942	20,466	199,694	12,936	125,740	100.0	100.0
Driven by purchased energy.....	49,851	415,494	43,070	370,240	35,646	320,838	16,044	162,195	10,216	95,644	80.5	81.2
Driven by energy generated in establishments reporting.....	10,672	100,954	9,786	93,979	7,192	79,104	3,522	37,499	2,720	30,096	10.5	18.8
Electric generators.....	313	Kilowatts 67,240 Kilowatt-hours	332	Kilowatts 61,248	360	Kilowatts 56,748	(2)	(2)	(2)	(2)		
Electric energy purchased <sup>3</sup> .....		165,835,668		(4)		(4)		(4)		(4)		

<sup>1</sup> Not called for separately on schedule.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.

<sup>4</sup> Data incomplete.

PLANING-MILL PRODUCTS

TABLE 7.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, AND 1914, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
<b>United States:</b>														
1929.....	90,134	88,511	88,779	90,071	91,157	91,082	92,806	92,909	92,904	92,037	90,764	86,635	<i>82,000</i>	80.3
1925.....	111,329	<i>106,024</i>	106,597	108,079	110,320	111,506	112,730	113,230	114,301	114,517	114,224	112,750	111,575	92.6
1919.....	86,950	74,406	<i>74,862</i>	75,377	78,617	83,346	87,636	91,450	93,708	94,483	96,074	97,036	96,915	76.6
1914 <sup>1</sup> .....	96,214	91,452	92,207	93,717	96,844	99,040	100,863	101,228	101,147	99,070	96,680	92,910	<i>89,386</i>	88.3
Alabama.....	1,982	1,896	1,954	1,996	2,008	2,017	2,040	2,061	2,037	1,983	1,966	1,936	<i>1,891</i>	91.8
Arkansas.....	1,495	1,460	1,475	1,500	1,493	1,491	1,538	1,520	1,578	1,571	1,483	1,457	<i>1,370</i>	86.8
California.....	7,150	7,104	6,999	7,162	7,162	7,180	7,246	7,328	7,286	7,278	7,283	7,108	<i>6,777</i>	92.5
Colorado.....	312	298	<i>276</i>	287	303	310	321	338	350	356	317	307	281	77.5
Connecticut.....	1,031	1,045	1,015	<i>1,008</i>	1,012	1,017	1,012	1,038	1,068	1,041	1,054	1,044	1,010	94.4
Delaware.....	53	55	51	51	55	55	58	54	53	51	52	53	<i>49</i>	84.5
District of Columbia.....	201	203	202	180	188	193	195	<i>182</i>	195	208	223	224	213	81.3
Florida.....	878	866	876	868	<i>810</i>	828	890	893	870	864	892	914	923	88.7
Georgia.....	2,788	2,842	2,810	2,797	2,815	2,857	2,863	2,831	2,834	2,794	2,725	2,706	<i>2,680</i>	90.3
Idaho.....	24	24	24	24	24	24	26	24	26	25	28	23	<i>23</i>	92.0
Illinois.....	6,179	6,029	6,038	6,183	6,364	6,434	6,305	6,340	6,455	6,420	6,193	5,890	<i>5,614</i>	85.4
Indiana.....	2,508	2,471	2,438	2,591	2,777	2,663	2,704	2,700	2,844	2,914	2,781	<i>1,994</i>	72.6	
Iowa.....	3,525	3,566	3,894	3,903	3,998	3,641	3,494	3,491	3,510	3,440	3,316	3,229	<i>3,147</i>	80.6
Kansas.....	565	535	<i>512</i>	524	539	621	641	564	576	673	673	671	554	79.9
Kentucky.....	1,430	1,486	1,446	1,470	1,480	1,519	1,504	1,528	1,538	1,489	1,470	1,200	<i>1,181</i>	72.9
Louisiana.....	1,423	1,440	1,381	1,440	1,458	1,459	1,451	1,416	1,447	1,464	1,450	1,380	1,340	90.8
Maine.....	596	599	596	606	602	596	602	595	592	593	589	587	594	90.0
Maryland.....	1,218	<i>1,168</i>	1,164	1,190	1,208	1,240	1,262	1,257	1,258	1,236	1,231	1,212	1,200	92.2
Massachusetts.....	2,011	1,954	1,942	1,940	2,006	2,090	2,120	2,098	2,102	2,082	2,005	1,950	<i>1,847</i>	87.1
Michigan.....	3,784	3,830	4,006	3,811	3,831	3,864	3,993	3,982	3,876	3,784	3,692	3,481	<i>3,256</i>	81.3
Minnesota.....	2,177	2,113	2,102	2,145	2,205	2,272	2,217	2,274	2,341	2,206	2,148	2,104	<i>1,993</i>	85.1
Mississippi.....	1,630	1,583	1,623	1,650	1,698	1,632	1,663	1,691	1,633	1,650	1,716	1,554	<i>1,467</i>	84.9
Missouri.....	1,755	1,700	1,693	1,730	1,804	1,813	1,812	1,700	1,774	1,781	1,780	1,715	<i>1,667</i>	91.4
Montana.....	157	158	170	151	152	149	158	150	159	187	160	154	<i>122</i>	85.2
Nebraska.....	340	282	317	319	350	352	367	390	398	367	359	328	311	76.8
New Hampshire.....	725	712	717	710	728	720	730	754	735	713	720	<i>709</i>	725	94.9
New Jersey.....	1,989	1,929	1,883	1,920	2,013	2,071	2,091	2,042	2,010	2,012	2,029	1,959	1,960	90.1
New Mexico.....	148	150	153	158	153	160	164	150	167	133	134	121	<i>115</i>	68.9
New York.....	7,071	6,917	6,910	7,053	7,048	7,063	7,220	7,301	7,436	7,328	7,210	6,782	<i>6,505</i>	87.5
North Carolina.....	3,071	3,028	3,046	3,071	3,074	3,104	3,085	3,093	3,111	3,100	3,071	3,091	<i>3,008</i>	96.5
North Dakota.....	53	40	42	<i>35</i>	49	50	62	61	63	61	58	65	64	55.6
Ohio.....	4,508	4,318	4,307	4,386	4,457	4,489	4,544	4,826	4,848	4,751	4,610	4,440	<i>4,181</i>	85.0
Oklahoma.....	350	340	325	333	<i>318</i>	337	340	357	341	360	387	372	377	82.2
Oregon.....	1,455	1,409	1,413	1,459	<i>1,469</i>	1,499	1,580	1,571	1,512	1,488	1,476	1,451	1,424	79.9
Pennsylvania.....	5,558	5,423	5,393	5,420	5,534	5,665	5,699	5,687	5,690	5,677	5,662	5,550	<i>5,291</i>	92.8
Rhode Island.....	308	277	<i>276</i>	280	290	312	309	338	337	337	331	301	303	81.7
South Carolina.....	1,478	<i>1,428</i>	1,447	1,462	1,474	1,474	1,490	1,488	1,499	1,468	1,518	1,499	1,505	93.7
South Dakota.....	133	<i>110</i>	121	132	132	139	143	142	140	139	135	133	124	81.1
Tennessee.....	3,701	3,781	3,734	3,758	3,903	3,650	3,878	3,693	3,643	3,676	3,723	3,448	<i>3,274</i>	83.3
Texas.....	2,144	2,143	2,180	2,180	2,239	2,295	2,290	2,232	2,154	2,096	2,083	1,967	<i>1,889</i>	82.5
Utah.....	176	138	<i>132</i>	139	164	178	192	193	204	200	197	185	176	64.7
Vermont.....	345	330	<i>324</i>	354	355	348	338	347	357	368	352	341	331	88.0
Virginia.....	1,847	1,835	1,830	1,887	1,926	1,885	1,878	1,860	1,868	1,824	1,796	1,796	<i>1,767</i>	91.7
Washington.....	3,600	3,360	3,393	3,553	3,699	3,737	3,926	3,825	3,820	3,744	3,654	3,493	<i>3,008</i>	79.2
West Virginia.....	686	674	689	697	686	695	696	677	675	681	697	686	<i>674</i>	96.7
Wisconsin.....	5,283	5,266	5,307	5,323	5,405	5,437	5,463	5,423	5,401	5,300	5,208	5,039	<i>4,816</i>	88.2
Wyoming.....	23	23	23	23	23	23	23	23	23	23	23	23	23	-----

<sup>1</sup> No data available for years prior to 1914.

## BOXES, WOODEN

**Description of the industry.**—The establishments classified in this industry are those engaged primarily in the manufacture of wooden boxes (not including cigar boxes); crates for butter, fruits, berries, and vegetables; box shooks; cases for eggs and canned goods; carrier trays; etc. Establishments operating sawmills, even though their principal products may be boxes, are classified in the lumber and timber products industry. Establishments which are engaged primarily in the manufacture of boxes, but which produce

their own veneers, are classified in the wooden-box industry, but data for the quantities of logs consumed and of veneers produced by such establishments are included in Tables 20 to 23, inclusive, in the report on the "Lumber and timber products" industry.

**Detailed statistics of products.**—A special schedule calling for detailed data on the several classes of products was used for this industry for the first time at the census for 1927. No detailed statistics of products are, therefore, available for earlier years.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>	Horsepower
1929	792	30,554	\$20,193,575	\$74,081,937	\$135,025,675	\$60,943,735	137,261
1927	748	30,797	29,250,351	75,797,392	133,992,877	58,195,485	135,037
1925	824	34,834	33,764,700	80,391,171	152,294,570	65,903,408	143,519
1923	864	39,154	36,464,626	94,080,353	162,857,794	68,777,431	140,410
1921	878	32,505	28,307,330	73,209,702	122,587,532	49,317,880	( <sup>3</sup> )
1919	1,140	42,445	30,811,185	102,946,235	177,818,454	74,872,219	143,533
1914	1,174	38,548	18,206,067	52,839,647	86,566,807	33,727,169	124,249
1909	1,179	35,449	15,335,992	46,478,462	75,342,438	28,804,025	112,493
1904	1,023	30,329	12,171,104	33,478,091	57,047,743	23,568,752	83,231
1899	892	21,069	7,821,388	22,777,573	38,163,633	15,386,060	62,683
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929	5.9	-0.8	-0.2	-2.3	0.8	4.7	1.2
1925-1927	-9.2	-11.6	-13.4	-12.3	-12.0	-11.7	-5.5
1923-1925	-4.6	-11.0	-7.4	-8.2	-6.5	-4.2	-3.9
1921-1923	-1.0	20.1	28.8	28.4	32.9	30.5	-----
1919-1921	-23.0	-23.2	-23.1	-28.8	-31.1	-34.1	-----
1919-1929	-30.5	-28.0	-20.7	-28.0	-24.1	-18.6	-4.4
1909-1919	-3.3	19.7	140.0	121.5	136.0	159.4	27.6
1899-1909	32.2	61.1	96.1	104.1	97.4	87.6	113.5

<sup>1</sup> For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.

<sup>2</sup> Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

<sup>3</sup> Not called for on schedule.

# BOXES, WOODEN

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TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Census year	Number of establishments	Salaried officers and employ-ees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufacture
					Total	Prime movers	Motors run by purchased energy			Total	Materials	Fuel and purchased energy		
United States	1929	702	2,580	30,554	137,201	70,085	67,176	\$7,201,078	\$29,193,576	\$74,081,937	\$72,863,004	\$1,218,273	\$135,025,075	\$60,043,738
	1927	748	2,482	30,797	135,637	75,135	60,502	6,684,242	29,250,351	75,797,302	74,501,150	1,236,293	133,002,877	58,195,455
	1919	1,140	3,603	42,445	143,583	101,418	39,165	8,654,633	36,811,185	102,946,235	101,005,193	1,041,042	177,818,454	74,872,219
Individual States:														
Alabama	1929	9	25	360	1,189	684	505	75,148	212,270	389,586	378,198	8,388	805,366	508,782
	1927	5	18	216	662	475	87	52,504	127,903	269,474	257,505	1,070	540,440	289,071
	1919	7	20	201	800	775	26	31,320	163,835	208,655	207,719	0	475,180	266,525
Arkansas	1929	7	35	637	1,905	1,750	155	74,020	380,604	763,482	791,041	2,441	1,455,951	602,460
	1927	6	28	509	1,676	1,530	146	88,918	319,815	639,602	635,490	3,193	1,173,393	633,706
	1919	0	17	222	419	318	101	38,393	205,088	472,001	468,564	4,427	778,767	365,770
California	1929	44	134	1,437	5,754	730	8,024	356,460	1,850,608	5,892,792	5,790,530	93,256	10,024,440	4,131,654
	1927	45	100	1,708	10,027	1,395	8,632	373,258	2,028,428	7,109,703	6,989,071	111,632	10,868,706	3,765,003
	1919	46	189	1,657	6,229	1,085	4,244	344,813	1,648,592	5,756,701	5,605,378	61,325	8,908,686	3,151,085
Colorado	1929	4	6	97	462	125	327	13,863	86,701	281,683	275,453	0,230	439,578	157,895
	1927	4	10	81	385	150	235	10,281	73,618	263,137	250,074	3,063	350,644	97,607
Connecticut	1929	7	12	59	349	250	99	34,585	78,502	214,757	212,104	2,563	461,529	246,772
	1927	6	13	51	355	265	90	27,040	33,537	200,060	198,533	2,427	384,109	183,146
	1919	12	8	42	243	73	170	18,291	43,050	283,719	281,314	2,405	398,633	114,914
Florida	1929	12	44	1,030	2,772	2,365	407	124,410	636,660	1,116,432	1,102,004	13,528	2,520,975	1,410,543
	1927	10	46	911	2,493	2,277	216	77,685	552,016	811,905	807,425	4,480	2,083,930	1,272,025
	1919	20	74	1,025	2,390	2,340	41	129,728	610,111	1,125,550	1,120,781	4,763	2,539,732	1,411,182
Georgia	1929	14	62	1,231	2,045	2,275	670	212,685	741,621	1,756,332	1,742,270	14,053	3,730,573	1,983,211
	1927	11	43	890	2,150	1,463	603	120,109	635,923	1,270,780	1,265,070	10,790	2,664,152	1,387,383
	1919	13	47	778	1,928	1,789	142	140,691	492,670	1,199,403	1,199,745	2,718	2,185,691	980,128
Illinois	1929	49	203	2,175	9,472	4,040	5,432	570,364	2,419,112	5,477,363	5,351,667	123,696	10,238,875	4,761,612
	1927	52	240	2,433	8,032	3,005	5,127	708,200	2,637,622	6,169,171	6,045,541	125,630	11,445,246	5,270,676
	1919	63	351	4,624	10,234	8,440	1,785	829,154	4,939,741	10,364,805	10,297,194	67,611	18,856,685	8,491,880
Indiana	1929	23	63	614	2,314	923	1,391	143,700	583,370	1,642,011	1,613,432	28,570	2,893,085	1,211,074
	1927	18	58	631	2,615	1,488	1,027	130,060	670,634	1,390,129	1,377,784	21,345	2,478,752	1,074,623
	1919	28	97	940	2,481	1,765	710	107,322	667,692	1,740,654	1,722,080	18,874	3,164,646	1,423,692
Iowa	1929	5	7	78	393	16	377	6,081	60,746	113,157	109,165	3,992	235,865	122,708
	1927	6	5	96	400	19	393	6,549	82,959	295,445	260,678	4,767	425,750	160,311
	1919	15	18	135	621	420	192	33,314	105,388	350,340	342,892	7,448	534,632	184,292
Kentucky	1929	7	52	614	2,460	478	1,982	111,412	503,334	1,352,531	1,321,231	31,300	2,471,769	1,119,228
	1927	8	60	687	1,439	795	641	117,271	439,504	1,123,050	1,090,263	30,766	2,081,927	918,808
	1919	8	45	500	1,404	665	739	115,293	314,567	923,066	904,226	19,740	1,690,895	772,920
Louisiana	1929	12	72	1,020	3,818	3,082	736	193,073	875,099	2,462,950	2,446,900	16,041	4,295,377	1,742,427
	1927	12	76	943	2,984	2,600	294	166,779	749,150	2,270,147	2,256,841	23,306	2,478,752	1,174,744
	1919	17	97	1,282	3,660	3,357	303	255,653	792,798	2,391,252	2,379,853	11,309	4,173,206	1,782,644
Maine	1929	13	43	694	3,455	1,769	1,686	129,065	687,505	1,318,365	1,280,122	32,243	2,567,807	1,249,442
	1927	10	38	543	2,460	1,396	1,064	93,435	530,675	1,298,410	1,273,695	24,721	2,120,161	827,745
	1919	29	95	918	4,305	3,405	840	208,940	708,172	2,549,710	2,535,697	14,019	4,543,880	1,994,164
Maryland	1929	23	72	1,136	4,552	3,050	1,502	199,526	969,975	2,126,943	2,105,792	21,151	3,792,029	1,665,686
	1927	25	65	1,140	4,405	3,185	1,220	152,890	664,692	2,007,791	1,991,158	16,633	3,848,380	1,840,589
	1919	39	130	1,072	6,549	5,885	664	395,277	1,344,552	3,649,143	3,632,652	16,491	6,693,013	2,854,470
Massachusetts	1929	56	191	1,797	10,245	7,235	3,010	480,880	2,071,432	4,419,041	4,346,210	72,822	8,290,098	3,870,967
	1927	59	195	2,062	11,906	8,398	3,598	450,689	2,316,304	5,110,404	5,048,897	67,597	9,366,590	4,190,120
	1919	75	270	3,232	12,450	10,840	1,604	701,698	3,183,412	8,371,832	8,280,165	91,667	15,050,531	6,678,699
Michigan	1929	28	77	781	4,074	1,700	2,374	221,303	891,715	2,196,010	2,160,832	35,178	3,881,408	1,685,598
	1927	23	51	676	3,030	1,315	1,724	152,112	819,073	2,108,992	2,069,553	37,349	3,808,988	1,702,390
	1919	46	125	1,481	6,772	4,908	1,804	251,370	1,331,074	2,740,092	2,695,959	60,134	4,077,500	2,231,468
Minnesota	1929	21	39	582	2,318	789	1,520	131,926	608,049	1,850,728	1,814,245	36,478	3,202,226	1,351,503
	1927	17	32	479	1,588	579	1,000	112,296	635,284	1,589,354	1,560,452	29,932	2,830,626	1,250,242
	1919	28	65	695	2,625	1,565	969	160,898	691,745	2,199,377	2,161,031	29,340	3,454,239	1,293,892
Mississippi	1929	11	30	560	1,660	865	795	71,626	334,409	828,616	815,090	13,526	1,707,092	938,470
	1927	13	51	765	2,045	1,370	675	117,315	497,794	1,207,402	1,195,784	11,678	2,331,323	1,123,361
	1919	4	51	821	1,340	1,340	-----	65,252	624,388	616,000	509,287	6,782	1,059,191	543,122
Missouri	1929	24	132	1,337	7,180	3,050	4,130	348,190	1,196,466	2,456,678	2,407,110	49,568	4,855,496	2,398,788
	1927	22	116	1,188	5,511	2,395	8,116	333,955	1,023,514	3,254,070	3,131,257	72,813	5,335,440	2,891,370
	1919	20	170	1,827	5,892	3,254	2,628	591,016	1,540,851	4,176,186	4,118,714	57,422	7,311,774	3,135,038
Nebraska	1929	5	13	112	423	155	268	30,730	99,591	350,701	343,337	7,304	618,460	267,795
	1927	5	14	101	425	140	285	35,110	102,379	293,986	288,356	5,630	511,914	217,928
	1919	6	9	99	372	125	247	21,411	108,027	305,078	299,829	5,249	556,201	251,123

See footnotes at end of table.

## CENSUS OF MANUFACTURES: 1929

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919—Continued

[See note at head of this table]

STATE	Cen- sus year	Num- ber of estab- lish- ments	Sala- ried officers and em- ploy- ees <sup>1</sup>	Wage earn- ers (aver- age for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manu- facture <sup>3</sup>
					Total	Prime movers	Motors run by pur- chased energy			Total	Materials	Fuel and purchased energy		
Individual States—Con.														
New Hampshire	1929	18	74	1,252	6,000	4,520	2,149	\$236,334	\$1,263,015	\$3,000,094	\$2,973,410	\$27,584	\$5,393,010	\$2,302,016
	1927	25	84	1,370	7,046	5,515	2,130	278,756	1,370,001	3,639,089	3,658,717	30,372	6,086,004	2,397,815
	1919	33	132	1,631	7,514	6,040	1,474	282,803	1,464,444	4,234,781	4,201,950	22,831	7,080,550	2,795,778
New Jersey	1929	20	96	919	2,858	583	2,275	302,143	1,300,034	4,044,345	4,904,037	40,308	8,245,248	3,300,003
	1927	25	88	1,072	3,002	723	2,274	276,010	1,586,022	5,221,907	5,166,018	55,950	9,295,145	4,073,235
	1919	30	104	1,197	1,601	823	678	303,638	1,512,037	6,277,173	6,262,407	24,766	8,756,166	2,478,063
New York	1929	67	150	1,120	4,845	1,192	3,653	500,705	1,426,820	3,407,251	3,304,696	102,555	6,740,048	3,242,707
	1927	70	164	1,343	6,933	1,304	5,629	621,800	1,870,040	4,427,452	4,310,300	108,143	8,515,580	4,038,128
	1919	102	336	2,772	11,372	7,752	3,620	825,674	2,070,824	8,253,323	8,112,005	140,328	14,652,388	6,399,065
North Carolina	1929	23	62	708	4,154	2,260	1,894	143,258	498,362	1,788,098	1,772,525	15,573	2,075,164	1,187,060
	1927	15	81	805	4,727	2,830	1,897	191,841	604,898	2,204,678	2,180,795	17,783	3,336,434	1,181,856
	1919	27	87	922	3,663	2,317	1,840	173,617	601,127	1,933,396	1,967,255	16,141	3,186,720	1,203,324
Ohio	1929	46	144	1,406	5,617	2,300	3,227	484,400	1,507,115	3,737,203	3,675,874	61,329	7,378,880	3,041,683
	1927	43	123	1,364	5,434	2,400	3,034	299,300	1,510,595	3,512,450	3,451,781	60,669	6,587,481	3,075,031
	1919	68	175	1,874	6,738	4,104	2,634	423,077	1,778,027	6,352,076	5,287,965	65,011	8,030,605	3,583,610
Oklahoma	1929	3	3	17	117		117	7,200	20,772	87,233	85,340	1,887	131,871	44,638
Oregon	1929	20	31	270	2,507	625	1,882	53,807	320,476	1,040,177	1,020,465	19,712	1,507,923	467,746
	1927	8	8	165	2,061	680	1,371	13,345	191,247	606,578	682,405	14,173	984,059	287,481
	1919	20	38	610	3,540	825	2,715	123,164	600,301	2,111,348	2,084,192	27,156	4,112,237	2,000,889
Pennsylvania	1929	47	150	1,601	8,210	5,513	2,607	490,744	1,808,728	3,765,098	3,680,912	76,988	7,567,484	3,801,486
	1927	47	127	1,509	8,220	5,803	2,417	456,407	1,685,061	3,026,886	3,828,070	68,816	7,226,705	3,209,819
	1919	63	159	1,401	5,826	4,443	1,383	407,447	1,531,934	4,601,405	4,540,555	60,850	7,556,080	2,955,584
Rhode Island	1929	7	20	141	676	280	806	60,323	165,806	566,706	563,802	12,904	933,002	367,196
	1927	7	15	120	607	555	352	42,640	138,905	328,726	319,984	8,742	597,388	268,602
	1919	13	18	247	957	800	97	41,608	242,032	501,010	580,070	4,940	1,022,016	436,106
South Carolina	1929	7	14	331	1,038	625	413	66,023	231,730	509,700	500,921	9,430	958,530	448,779
	1927	6	11	238	600	305	385	27,513	123,285	229,373	210,795	9,668	447,406	178,033
	1919	6	18	154	558	455	103	31,001	116,631	198,585	191,264	7,321	371,603	213,678
Tennessee	1929	16	66	1,001	3,329	2,660	669	166,081	704,276	1,433,006	1,417,530	15,467	2,627,856	1,194,850
	1927	15	40	1,003	2,204	1,875	419	121,126	670,585	1,195,427	1,190,128	5,290	2,410,238	1,214,811
	1919	11	57	730	1,770	1,395	375	130,676	408,164	978,080	954,634	23,450	1,922,079	943,990
Texas	1929	23	91	1,149	4,218	2,447	1,771	225,582	944,147	2,837,055	2,802,387	35,278	5,351,687	2,614,022
	1927	22	73	951	5,624	3,855	1,769	149,820	632,793	1,486,906	1,455,143	31,823	2,975,364	1,488,398
	1919	19	69	1,101	5,682	3,075	2,007	148,725	627,427	1,500,260	1,580,028	9,332	3,428,162	1,837,002
Virginia	1929	15	79	1,138	5,099	3,057	1,442	203,253	849,094	3,187,808	3,170,817	10,991	4,778,871	1,591,063
	1927	16	85	1,479	6,302	5,415	887	248,547	1,050,378	3,032,147	3,603,700	28,438	5,612,442	1,980,295
	1919	34	150	2,584	7,744	6,024	1,720	422,769	1,775,426	5,919,473	5,894,880	24,584	9,231,697	3,312,224
Washington	1929	22	43	451	3,406	1,580	1,320	128,083	440,053	1,401,727	1,372,793	28,934	2,190,940	795,219
	1927	15	29	377	2,338	780	1,558	38,964	385,736	1,163,204	1,137,395	25,809	1,863,606	700,302
	1919	16	46	679	4,060	2,705	1,355	121,082	747,571	1,739,130	1,700,241	29,880	3,380,997	1,044,867
West Virginia	1929	8	27	170	1,688	180	1,408	59,745	171,275	434,692	414,343	20,349	761,268	326,576
	1927	6	16	138	1,445	430	1,015	38,781	151,013	433,097	421,804	11,293	743,825	310,728
	1919	9	14	184	1,042	800	242	33,207	163,780	685,237	681,543	3,694	985,200	300,023
Wisconsin	1929	53	179	2,027	9,653	5,360	4,284	515,886	1,884,821	3,640,985	3,553,198	96,787	7,050,603	3,400,618
	1927	55	145	2,160	10,683	6,343	4,240	418,216	2,005,801	3,894,243	3,787,936	106,307	7,288,034	3,394,391
	1919	66	232	2,605	7,967	6,384	1,583	488,492	2,216,772	6,376,108	6,300,441	75,667	11,114,460	4,738,351
Groups of States:														
Ariz., 2 est.; Idaho, 5;	1929	10	14	174	1,000	337	672	36,119	138,111	733,666	722,641	11,025	1,040,221	315,555
Kans., 2; Utah, 1	1929	7	22	229	1,238	630	608	47,945	168,908	468,380	447,704	10,676	842,745	384,366
Del., 3 est.; Vt., 4	1929													
States not shown separately														
1927	16	35	444	2,033	1,030	1,003	106,540	373,508	1,102,292	1,080,985	21,307	1,774,390	672,098	
1919	36	90	1,354	3,510	2,429	1,081	278,353	1,010,416	2,683,202	2,660,867	32,345	4,910,735	2,227,533	

<sup>1</sup> Not including proprietors and firm members, as follows: For 1929, 438; 1927, 333; 1919, 849. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 33,581; 1927, 33,662; 1919, 46,867.

<sup>2</sup> For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.

<sup>3</sup> Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

<sup>4</sup> Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919 but not in the United States totals.

<sup>5</sup> Arizona, 2 establishments; Delaware, 2; Idaho, 2; Kansas, 3; Oklahoma, 2; Utah, 1; Vermont, 4.

<sup>6</sup> Colorado, 4 establishments; Delaware, 7; Idaho, 3; Kansas, 4; Montana, 1; Oklahoma, 2; Utah, 2; Vermont, 13.

# BOXES, WOODEN

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**TABLE 3.—PRODUCTS, BY CLASS AND VALUE, FOR THE UNITED STATES: 1929 AND 1927**

[The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for 1927 represent production. See GENERAL EXPLANATIONS—Value of Products]

CLASS	1929	1927
1. "Boxes, wooden, except cigar boxes" industry, all products, total.....	\$135,025,075	\$133,002,877
2. Wooden boxes, crates, and shooks.....	125,129,700	124,165,950
3. Other products (not normally belonging to the industry).....	9,034,214	9,455,428
4. Amount received for custom and contract work.....	261,605	371,400
5. Wooden boxes, crates, and shooks, made as secondary products in other industries (principally lumber and timber products and planing-mill products).....	72,047,005	55,046,870
Wooden boxes (except cigar boxes), crates, and shooks, all industries, total (sum of 2 and 5).....	107,777,731	180,112,820
Lumber, not wire bound.....	143,197,230	99,637,107
Panel, not wire bound.....	30,620,935	16,209,320
Wire bound.....	18,037,028	12,588,619
Not specified.....	5,910,538	57,677,774

**TABLE 4.—CONSUMPTION OF LOGS AND LUMBER, BY QUANTITY AND COST: 1929**

[The combined value of products reported by the 569 establishments which reported consumption of logs and lumber in detail was 78.2 per cent of the total value of products for the industry as a whole. The remaining 223 establishments did not report consumption of logs and lumber in detail]

KIND	Quantity (M feet b. m.)	Cost
Logs <sup>1</sup> .....	130,168	\$3,187,445
Lumber:		
Hardwood.....	479,750	12,849,347
Softwood.....	1,205,201	32,371,827

<sup>1</sup> These logs were all made into veneers for use in the manufacture of boxes or for sale incidentally. Data for the quantities of logs consumed and veneers made from these logs are included in Tables 20 to 23, inclusive, in the report for the lumber and timber products industry.

**TABLE 5.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929**

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSEPOWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
Prime movers and electric motors driven by purchased energy, aggregate.....	7,741	Horse-power 137,201	6,905	Horse-power 135,637	6,706	Horse-power 143,519	4,650	Horse-power 143,583	2,702	Horse-power 124,249	100.0	100.0
Prime movers, total.....	561	70,085	515	75,135	604	81,043	929	104,418	1,205	110,060	51.1	72.7
Steam, total.....	510	67,913	470	72,915	548	79,166	774	100,020	950	104,781	40.5	69.7
Engines.....	495	62,714	445	65,578	515	75,488	750	95,021	(1)	(1)	45.7	66.2
Turbines.....	15	5,199	25	7,337	33	3,078	15	4,999	(1)	(1)	3.8	3.5
Internal-combustion engines.....	30	1,354	31	1,690	33	1,205	115	1,903	105	2,723	1.0	1.3
Water wheels and water turbines.....	21	818	14	530	23	672	40	2,495	90	2,556	0.6	1.7
Electric motors driven by purchased energy.....	7,180	67,170	6,390	60,502	6,102	62,470	3,727	39,165	1,497	14,180	48.9	27.3
Electric motors, total.....	9,460	88,658	8,108	79,376	7,961	80,681	4,930	51,680	2,614	26,323	100.0	100.0
Driven by purchased energy.....	7,180	67,170	6,390	60,502	6,102	62,470	3,727	39,165	1,497	14,180	75.8	75.8
Driven by energy generated in establishments reporting.....	2,280	21,482	1,718	18,873	1,859	18,505	1,203	12,515	1,117	12,134	24.2	24.2
Electric generators.....	86	Kilowatts 13,710 Kilowatt-hours	80	Kilowatts 15,412	140	Kilowatts 16,037	(?)	(?)	(?)	(?)		
Electric energy purchased <sup>1</sup> .....		38,868,100		(?)		(?)		(?)		(?)		

<sup>1</sup> Not called for separately on schedule.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.

<sup>4</sup> Data incomplete.

## CENSUS OF MANUFACTURES: 1929

TABLE 6.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, AND 1914, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures.]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum			
		January	February	March	April	May	June	July	August	September	October	November	December				
United States:																	
1929	30,554	30,171	30,445	31,330	31,551	31,728	31,209	30,751	30,148	30,308	30,911	29,611	<b>28,478</b>	28,478	28,478	28,478	89.8
1925	34,834	<i>34,091</i>	34,408	34,926	35,570	36,598	34,987	34,642	34,456	34,722	35,255	35,002	34,352	34,352	34,352	34,352	95.8
1919	42,445	41,849	40,707	40,751	<i>40,682</i>	41,234	42,175	42,330	43,892	43,217	43,418	44,204	44,881	44,881	44,881	44,881	90.6
1914 <sup>1</sup>	38,548	38,056	38,411	39,850	40,317	40,302	40,320	39,581	38,597	38,517	37,147	36,984	<i>35,494</i>	35,494	35,494	35,494	88.0
Alabama	300	357	303	383	389	381	382	372	348	347	333	331	<i>318</i>	318	318	318	81.7
Arkansas	637	611	<i>680</i>	654	657	607	600	677	679	639	611	604	592	592	592	592	80.7
California	1,437	1,205	<i>1,240</i>	1,306	1,334	1,389	1,387	1,563	1,664	1,763	1,582	1,419	1,336	1,336	1,336	1,336	71.1
Colorado	97	98	103	102	103	<i>64</i>	79	132	128	105	94	80	80	80	80	80	48.5
Connecticut	59	59	59	59	60	62	62	60	60	58	57	57	55	55	55	55	88.7
Florida	1,030	1,327	1,087	1,141	1,138	1,289	897	648	<i>620</i>	706	1,133	1,189	1,288	1,288	1,288	1,288	39.2
Georgia	1,231	1,281	1,321	1,314	1,332	1,327	1,243	1,211	<i>1,111</i>	1,182	1,192	1,125	1,134	1,134	1,134	1,134	83.4
Illinois	2,175	2,213	2,089	2,293	2,230	2,185	2,257	2,144	<i>2,059</i>	2,086	2,246	2,219	2,070	2,070	2,070	2,070	80.8
Indiana	614	554	581	581	603	656	663	662	667	628	626	607	<i>544</i>	544	544	544	81.6
Iowa	78	70	80	81	80	79	80	78	77	77	77	78	73	73	73	73	90.1
Kentucky	614	432	529	689	710	624	718	688	638	634	723	569	<i>413</i>	413	413	413	57.1
Louisiana	1,029	1,035	1,047	1,077	1,062	1,045	1,045	1,010	1,012	<i>988</i>	1,001	999	1,031	1,031	1,031	1,031	91.7
Maine	694	<i>660</i>	682	683	682	607	702	695	706	724	746	703	682	682	682	682	88.5
Maryland	1,136	1,147	1,194	1,223	1,220	1,227	1,234	1,167	1,068	1,092	1,103	1,033	<i>928</i>	928	928	928	75.2
Massachusetts	1,797	<i>1,701</i>	1,712	1,791	1,800	1,794	1,824	1,799	1,756	1,810	1,865	1,882	1,824	1,824	1,824	1,824	90.4
Michigan	781	788	812	777	765	760	782	750	<b>813</b>	793	811	789	<i>780</i>	780	780	780	80.3
Minnesota	582	610	567	<i>554</i>	573	557	575	566	581	585	600	612	585	585	585	585	90.5
Mississippi	560	571	562	564	585	574	575	552	538	<i>627</i>	541	565	563	563	563	563	90.1
Missouri	1,337	1,253	1,298	1,366	1,406	1,410	1,413	1,348	1,371	1,391	1,390	1,258	<i>1,170</i>	1,170	1,170	1,170	82.8
Nebraska	112	<i>86</i>	99	109	111	122	125	114	121	125	118	109	108	108	108	108	68.8
New Hampshire	1,252	1,216	1,215	1,222	1,242	<i>1,214</i>	1,216	1,216	1,204	1,206	1,313	1,326	1,287	1,287	1,287	1,287	91.6
New Jersey	919	888	<i>833</i>	869	858	1,009	1,015	991	939	928	922	900	872	872	872	872	82.1
New York	1,120	1,062	1,096	1,131	1,139	1,153	1,137	1,174	1,151	1,159	1,127	1,093	<i>1,080</i>	1,080	1,080	1,080	80.9
North Carolina	798	859	870	833	822	886	794	741	775	726	715	674	784	784	784	784	73.1
Ohio	1,406	1,390	1,421	1,412	1,393	1,509	1,496	1,505	1,395	1,345	1,392	1,330	<i>1,291</i>	1,291	1,291	1,291	85.6
Oklahoma	17	12	14	17	16	16	15	12	<i>10</i>	17	21	25	25	25	25	25	40.0
Oregon	270	243	269	290	323	293	231	275	343	298	254	233	<i>219</i>	219	219	219	63.8
Pennsylvania	1,601	1,582	1,608	1,591	1,586	1,608	<i>1,569</i>	1,606	1,605	1,645	1,623	1,600	1,573	1,573	1,573	1,573	95.4
Rhode Island	141	149	145	149	146	147	130	135	144	145	144	133	<i>124</i>	124	124	124	83.2
South Carolina	331	348	354	354	313	282	<i>250</i>	370	384	361	341	343	271	271	271	271	65.1
Tennessee	1,001	1,070	<i>1,176</i>	1,158	1,127	1,088	1,082	933	<i>727</i>	838	1,014	923	886	886	886	886	62.1
Texas	1,149	1,271	1,290	1,355	1,351	1,270	1,004	1,046	1,056	1,053	1,095	<i>995</i>	995	995	995	995	73.4
Virginia	1,138	1,185	1,206	1,150	1,117	1,173	1,166	1,155	1,141	1,180	1,154	<i>1,000</i>	1,027	1,027	1,027	1,027	82.9
Washington	451	<i>395</i>	355	377	450	491	541	553	<i>587</i>	533	463	394	361	361	361	361	60.1
West Virginia	170	180	173	162	158	<i>143</i>	154	153	104	200	188	178	157	157	157	157	71.5
Wisconsin	2,027	1,897	2,022	2,075	2,110	2,158	2,241	2,230	2,172	1,985	1,933	1,818	<i>1,671</i>	1,671	1,671	1,671	74.6

<sup>1</sup>No data available for years prior to 1914.

## COOPERAGE

Description of the industry.—This industry embraces establishments engaged primarily in the manufacture of barrels, kegs, tubs, pails, hogsheads, and other containers made of staves. Data for cooperage stock (staves, heading, and hoops) made by establishments classified in this industry are included in the figures for the production of tight and slack cooperage stock, Tables 24 to 35, inclusive, in the report on the

"Lumber and timber products" industry. (See "Description of the Industry," p. 440.)

Detailed statistics of products (Tables 3 and 4).—A special schedule, calling for detailed data on the several classes of products, was used for this industry for the first time at the census for 1927. For this reason, no comparable detailed statistics of products can be given for earlier years.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>	Horsepower
1929.....	580	10,691	\$11,705,704	\$41,515,500	\$64,841,788	\$23,320,288	33,885
1927.....	528	11,455	12,937,400	43,821,250	66,947,424	23,120,174	33,553
1925.....	553	11,483	12,907,614	44,175,088	67,734,602	23,558,976	30,758
1923.....	623	12,028	13,182,623	48,355,709	73,134,009	24,778,210	33,510
1921.....	625	9,870	10,108,689	40,580,207	56,633,404	16,047,197	(*)
1919.....	1,000	13,219	14,082,224	58,520,655	88,230,061	20,715,406	30,688
1914.....	1,259	17,128	9,160,683	32,943,683	50,017,330	17,073,037	38,177
1909.....	1,374	19,489	8,960,951	32,162,050	49,621,527	17,469,477	41,265
1904.....	1,517	21,149	9,485,455	31,092,679	49,424,394	18,331,715	38,838
1899.....	1,604	22,117	8,780,428	22,150,885	38,439,745	16,288,800	30,581
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929.....	-11.0	-6.7	-9.5	-5.3	-3.1	0.9	1.0
1925-1927.....	-4.5	-0.2	0.2	-0.8	-1.2	-1.8	9.1
1923-1925.....	-11.2	-4.5	-2.1	-3.6	-7.4	-4.9	-8.2
1921-1923.....	-0.3	21.8	39.4	19.1	29.1	54.4	-----
1919-1921.....	-43.1	-25.3	-23.2	-30.6	-35.8	-46.0	-----
1919-1929.....	-43.7	-19.1	-16.9	-29.1	-26.5	-21.5	10.4
1909-1919.....	-20.0	-32.2	57.0	82.0	77.8	70.2	-25.6
1899-1909.....	-18.9	-11.9	2.1	45.2	29.1	7.2	34.9

<sup>1</sup> Figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products.

<sup>2</sup> Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

\* Not called for on schedule.

CENSUS OF MANUFACTURES: 1929

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Census year	Number of establishments	Salaried officers and employees <sup>1</sup>	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
					Total	Prime movers	Motors run by purchased energy			Total	Materials	Fuel and purchased energy		
United States.....	1929	536	970	10,691	33,385	21,722	12,163	\$2,548,874	\$11,705,704	\$41,515,500	\$41,006,200	\$500,210	\$64,841,788	\$23,326,288
	1927	528	969	11,455	33,553	22,476	11,077	2,554,298	12,037,460	43,821,250	43,220,146	601,104	60,047,424	23,126,174
	1919	1,090	1,200	13,219	30,688	24,125	4,563	2,023,177	14,082,224	58,520,655	58,013,251	507,404	88,236,061	20,715,406
Individual States:														
California.....	1929	14	30	290	1,082	300	1,292	103,507	480,400	1,835,722	1,813,383	22,330	2,750,630	923,008
	1927	14	55	304	1,565	205	1,270	177,046	475,004	2,120,566	2,107,054	19,512	3,140,277	1,018,711
	1919	15	40	300	690	256	434	127,055	562,492	2,656,740	2,641,330	15,410	4,190,622	1,535,882
Florida.....	1929	17	30	375	973	940	33	40,114	221,303	517,286	510,350	936	965,345	448,059
	1927	10	23	265	683	645	38	33,840	154,063	318,821	316,783	2,038	670,053	300,832
	1919	17	25	227	398	293	105	31,060	180,084	771,669	766,099	5,570	1,121,901	350,232
Georgia.....	1929	13	19	134	329	70	259	30,830	109,535	580,830	584,601	5,130	850,016	260,180
	1927	12	17	192	171	-----	171	28,349	135,219	714,853	704,196	10,657	951,519	246,680
	1919	10	22	112	620	406	220	35,407	100,609	504,000	497,907	6,102	650,694	155,685
Illinois.....	1929	32	112	1,135	3,063	2,700	903	420,974	1,518,487	5,580,738	5,490,423	90,315	8,467,839	2,887,101
	1927	31	102	1,147	3,580	2,470	1,110	342,764	1,475,630	5,715,330	5,614,721	80,618	8,805,369	3,050,030
	1919	46	129	1,447	3,440	3,125	815	484,334	1,792,982	7,073,104	7,023,833	49,271	11,570,820	3,903,720
Indiana.....	1929	14	12	121	522	300	162	15,594	152,604	684,751	672,674	12,077	858,443	273,692
	1927	11	8	137	517	225	292	25,176	159,120	557,672	547,336	10,336	841,737	284,065
	1919	24	28	183	665	610	55	50,093	169,085	866,106	856,380	29,726	1,285,248	410,142
Iowa.....	1929	10	13	157	544	175	309	28,490	170,115	981,713	971,878	9,835	1,399,570	417,857
	1927	10	8	195	549	175	374	13,320	203,703	1,040,925	1,025,603	15,322	1,380,431	339,506
	1919	14	11	111	263	216	47	21,568	115,386	499,441	490,731	8,710	855,794	306,353
Kentucky.....	1929	8	25	408	1,126	650	476	50,666	327,732	1,401,700	1,392,526	9,278	2,080,035	687,230
	1927	9	38	470	1,069	1,180	489	70,375	438,050	1,834,379	1,817,024	17,355	2,595,500	731,121
	1919	14	42	582	2,410	1,905	445	125,087	468,000	1,847,208	1,830,234	10,974	2,770,578	932,370
Louisiana.....	1929	9	50	610	1,594	625	969	118,337	450,152	2,253,151	2,230,468	22,683	3,190,825	937,674
	1927	8	44	413	1,317	375	942	84,846	348,370	1,645,657	1,624,073	20,584	2,220,637	574,989
	1919	19	41	823	1,504	932	572	71,659	652,718	2,152,877	2,132,518	20,359	3,214,694	1,061,817
Maine.....	1929	10	3	43	285	178	107	4,050	46,317	140,551	146,535	3,010	225,135	75,584
	1927	4	4	44	165	75	90	9,822	60,231	229,347	225,082	4,265	339,347	110,000
	1919	69	9	120	267	226	41	12,006	115,616	407,930	404,940	2,900	688,470	250,540
Maryland.....	1929	20	29	293	832	425	407	81,381	322,417	1,260,315	1,248,960	11,340	2,042,454	782,139
	1927	23	22	307	713	400	313	47,784	311,048	1,410,690	1,390,570	11,111	2,032,582	622,123
	1919	29	19	173	129	114	15	25,373	160,348	590,854	595,241	1,613	1,413,638	810,781
Massachusetts.....	1929	13	25	483	2,159	1,930	229	40,425	616,612	1,368,857	1,348,692	20,165	2,433,436	1,064,579
	1927	12	41	479	1,485	1,045	440	80,341	501,575	1,500,740	1,477,755	22,991	2,390,880	806,134
	1919	18	17	396	413	304	109	38,192	356,048	1,385,267	1,368,890	26,379	2,150,578	765,091
Michigan.....	1929	3	7	30	100	45	55	12,120	46,118	191,248	188,405	2,763	280,181	97,933
	1927	5	4	40	123	70	53	10,915	55,537	169,463	165,922	3,541	251,496	82,033
	1919	35	13	83	139	79	60	17,008	97,297	460,947	458,584	2,363	654,342	193,395
Minnesota.....	1929	5	17	216	1,147	745	402	58,624	258,010	990,706	980,728	18,978	1,410,527	419,821
	1927	8	35	456	1,876	1,420	455	83,594	523,867	1,517,853	1,480,871	31,282	2,378,752	860,899
	1919	11	57	575	985	805	120	144,852	574,677	2,025,392	2,001,262	24,130	3,199,313	1,173,921
Missouri.....	1929	16	63	532	1,315	1,040	275	192,122	618,564	1,674,648	1,647,129	27,519	2,861,047	1,186,399
	1927	15	68	547	1,857	900	367	207,175	615,952	1,791,777	1,768,560	23,217	3,031,349	1,239,572
	1919	30	76	677	1,565	1,222	343	247,085	831,200	3,252,253	3,225,605	26,648	5,100,537	1,908,284
New Hampshire.....	1929	8	20	300	1,722	1,628	99	35,678	340,292	359,339	350,403	2,936	854,236	494,897
	1927	8	22	370	1,901	1,050	251	50,200	391,860	474,766	455,361	19,395	974,392	499,636
New Jersey.....	1929	16	72	720	1,843	891	952	261,899	1,055,840	2,467,747	2,403,241	64,500	4,375,965	1,908,218
	1927	20	59	793	1,557	911	646	207,973	1,298,117	4,308,465	4,270,782	37,683	6,723,583	2,415,118
	1919	45	90	998	1,460	1,221	245	206,789	1,300,502	6,295,833	6,263,293	32,540	8,026,571	2,330,738
New York.....	1929	51	64	610	1,082	636	446	151,048	793,422	3,036,688	3,000,200	36,488	4,749,102	1,712,414
	1927	61	69	645	1,099	711	388	131,760	834,680	2,777,058	2,727,558	49,500	4,151,536	1,374,478
	1919	244	106	1,428	2,294	1,983	311	200,124	1,731,487	6,200,816	6,129,964	76,862	9,588,480	3,381,664
North Carolina.....	1929	30	48	220	673	580	93	66,257	163,028	874,025	871,640	2,385	1,369,766	495,741
	1927	15	10	72	108	95	13	7,070	49,938	324,667	324,054	513	415,277	90,710
	1919	47	16	194	441	304	137	27,291	160,921	491,682	488,571	3,011	820,532	337,960
Ohio.....	1929	42	39	469	1,006	712	293	120,404	583,268	2,277,092	2,263,097	13,995	3,425,689	1,148,597
	1927	46	50	528	1,848	837	511	104,148	675,193	2,470,423	2,447,626	22,797	3,774,006	1,303,583
	1919	58	68	701	2,043	1,687	356	157,531	790,284	3,385,762	3,347,874	37,888	4,882,780	1,497,018
Oregon.....	1929	3	5	16	80	-----	80	5,172	20,186	53,473	51,861	1,012	97,492	44,019
	1927	(4)	(5)	(5)	(5)	-----	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
	1919	4	4	19	38	-----	38	8,400	23,688	101,552	100,532	1,020	148,470	46,927
Pennsylvania.....	1929	43	53	510	1,418	950	468	154,210	675,228	3,437,023	3,400,201	36,822	5,063,285	1,626,262
	1927	47	71	683	2,312	1,875	437	211,301	803,068	3,687,532	3,636,657	50,874	5,286,045	1,598,213
	1919	92	117	1,160	2,948	2,258	690	292,039	1,282,509	6,800,860	6,745,147	55,713	9,873,569	3,072,709

See footnotes at end of table.

# COOPERAGE

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919—Continued

[See note at head of this table]

STATE	Cen- sus year	Num- ber of estab- lish- ments	Sala- ried offi- cers and em- ploe- ees <sup>1</sup>	Wage earn- ers (aver- age for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PUR- CHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufac- ture <sup>3</sup>
					Total	Prime movers	Motors run by pur- chased energy			Total	Materials	Fuel and purchased energy		
Individual States—Con.														
South Carolina <sup>4</sup> .....	1920	5	5	68	270	270	-----	\$8,700	\$40,230	\$62,438	\$62,438	-----	\$185,886	\$93,448
Tennessee.....	1920	13	15	238	1,206	328	878	34,446	171,887	355,668	343,740	\$11,828	642,222	286,654
	1927	9	12	305	770	748	31	35,862	198,281	563,038	561,342	2,596	845,235	281,297
	1919	11	25	211	555	505	50	62,670	228,676	1,109,200	1,107,830	1,460	1,446,160	330,870
Texas.....	1920	12	16	145	496	40	456	44,114	128,513	582,124	575,501	6,533	941,067	358,943
	1927	9	16	196	1,100	75	1,025	52,886	169,764	807,079	791,190	15,889	1,066,070	268,997
	1919	9	24	276	833	100	727	85,051	245,025	1,723,511	1,711,553	11,958	2,205,200	481,758
Virginia.....	1920	113	59	869	529	341	188	127,067	578,178	2,699,400	2,695,631	3,839	4,200,835	1,510,366
	1927	65	39	903	1,553	1,515	38	87,400	820,384	1,630,303	1,610,420	19,883	2,851,959	1,212,656
	1919	109	36	661	1,002	947	55	50,139	457,688	1,445,857	1,441,000	4,797	2,200,006	763,149
Washington.....	1929	5	23	519	2,584	1,325	1,259	85,820	645,337	1,154,640	1,140,503	14,077	2,088,938	934,298
	1927	6	26	541	2,125	1,361	764	86,441	657,203	1,317,160	1,295,643	21,517	2,210,533	902,373
West Virginia.....	1920	29	10	96	33	-----	33	17,365	132,301	488,852	488,022	830	752,877	294,025
	1927	30	11	93	3	-----	3	18,188	121,800	455,711	455,026	685	673,838	224,127
	1919	47	28	226	727	307	420	42,280	238,677	868,001	868,830	0,171	1,273,926	405,025
Wisconsin.....	1920	11	70	678	3,376	2,735	641	157,707	677,657	2,678,484	2,640,632	37,852	3,870,755	1,192,271
	1927	13	84	770	2,272	2,025	247	266,771	830,215	2,493,818	2,422,750	71,069	3,916,400	1,422,672
	1919	20	20	266	1,020	780	240	62,371	288,108	727,604	706,223	21,471	1,236,171	508,477
Groups of States:														
Ala., 4 est.; Ark., 2; Okla., 2.....	1920	8	13	170	705	625	80	27,618	138,023	649,704	641,854	7,850	912,655	262,651
Colo., 1 est.; Kans., 5; Nebr., 3.....	1920	0	11	107	545	330	235	25,050	193,210	858,820	848,360	10,460	1,358,048	499,219
Conn., 2 est.; Vt., 2. States not shown sepa- rately.....	1927	27	31	581	1,627	1,308	310	63,343	517,701	1,927,652	1,914,860	12,192	3,017,680	1,090,637
	1910	62	120	1,205	3,837	3,414	423	295,214	1,150,118	4,264,688	4,230,884	24,204	7,045,183	2,781,095

<sup>1</sup> Not including proprietors and firm members, as follows: For 1920, 303; 1927, 261; 1919, 941. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 11,904; 1927, 12,685; 1919, 15,360.  
<sup>2</sup> For 1920, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.  
<sup>3</sup> Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.  
<sup>4</sup> Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919 but not in the United States totals.  
<sup>5</sup> Withheld from publication in order to avoid disclosing data for individual establishments.  
<sup>6</sup> Figures for 1927 and 1919 withheld from publication in order to avoid disclosing data for individual establishments.  
<sup>7</sup> Alabama, 4 establishments; Arkansas, 1; Colorado, 1; Connecticut, 4; Kansas, 5; Nebraska, 2; Oklahoma, 2; Oregon, 1; South Carolina, 4; Utah, 1; Vermont, 2.  
<sup>8</sup> Alabama, 3 establishments; Arkansas, 12; Colorado, 1; Connecticut, 9; Kansas, 10; Nebraska, 2; New Hampshire, 6; Oklahoma, 1; Rhode Island, 7; South Carolina, 3; Vermont, 5; Washington, 3.

TABLE 3.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1929 AND 1927

[The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for 1927 represent production. See GENERAL EXPLANATIONS—Value of Products]

KIND	VALUE		KIND	VALUE	
	1929	1927		1929	1927
1. Cooperage industry, all products, total.....	\$64,841,788	\$66,047,424	Cooperage, all industries, total (sum of 2 and 5).....	\$61,870,907	\$65,721,553
2. Cooperage.....	60,100,628	63,320,354	Barrels.....	39,705,624	38,614,005
3. Other products (not normally belonging to the industry).....	4,477,200	3,410,187	Tubs and pails.....	7,596,002	7,203,214
4. Amount received for custom and contract work.....	173,870	207,883	Kegs.....	8,595,410	7,241,545
5. Cooperage made as secondary products in other industries.....	1,086,330	2,401,100	Hogsheads.....	1,561,698	734,220
			Cooperage not reported by kind.....	4,368,233	11,868,569

CENSUS OF MANUFACTURES: 1929

TABLE 4.—PRODUCTS, BY KIND, NUMBER, AND VALUE: 1929 AND 1927

[The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products]

KIND	Census year	Total value	NUMBER AND VALUE REPORTED		Value only reported	KIND	Census year	Total value	NUMBER AND VALUE REPORTED		Value only reported
			Number	Value					Number	Value	
Total.....	1929	\$81,876,967		\$45,195,270	\$16,681,697	Kegs.....	1929	\$8,595,410	13,240,087	\$7,608,040	\$887,361
	1927	65,721,553		40,253,805	25,467,748		1927	7,241,545	10,855,290	6,166,937	1,074,608
Barrels.....	1929	39,765,624	32,810,491	32,543,603	7,222,021	Hogsheads.....	1929	1,561,668	612,145	1,407,223	154,475
	1927	38,614,005	27,755,310	30,416,163	8,197,842		1927	734,220	262,025	504,748	139,472
ubs and pails.....	1929	7,696,002	9,667,574	3,636,395	3,659,667	Cooperage not reported by kind.....	1929	4,358,233			4,358,233
	1927	7,263,214	8,085,418	3,075,957	4,187,257		1927	11,868,560			11,868,560

TABLE 5.—CONSUMPTION OF CHIEF MATERIALS, BY KIND, QUANTITY, AND COST: 1929

[The combined value of products reported by the 378 establishments classified in the cooperage industry which reported the consumption of chief materials in detail was 74.5 per cent of the total value of products for the industry. The remaining 208 establishments manufacturing barrels, hogsheads, kegs, pails, etc., did not report consumption of materials in detail]

KIND	Quantity	Cost	KIND	Quantity	Cost
Logs or bolts..... M ft. log scale.....	63,581	\$937,585	Purchased as such:		
Other wood..... cords (128 cu. ft.).....	28,584	240,376	Staves..... thousands.....	767,143	\$14,716,506
			Headings..... thousands of sets.....	53,607	6,612,891
			Hoops..... thousands.....	120,404	2,321,294

1 Data for the cooperage stock made from these materials are included in Tables 24 to 35, inclusive, of the report for the lumber and timber products industry.

TABLE 6.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSEPOWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
Prime movers and electric motors driven by purchased energy, aggregate.....	1,644	Horse-power 33,885	1,570	Horse-power 33,553	1,208	Horse-power 30,758	1,004	Horse-power 30,688	1,043	Horse-power 33,177	100.0	100.0
Prime movers, total.....	187	21,722	189	22,476	213	21,405	312	24,125	600	33,867	64.1	78.6
Steam, total.....	170	20,820	172	21,932	170	20,850	244	23,092	491	31,282	61.4	75.2
Engines.....	165	20,260	168	21,430	167	20,417	238	22,776	(1)	(1)	59.8	74.2
Turbines.....	5	560	4	502	3	433	6	316	(1)	(1)	1.6	1.0
Internal-combustion engines.....	11	477	13	451	17	341	47	617	78	1,116	1.4	2.0
Water wheels and water turbines.....	6	425	4	93	26	214	21	416	31	1,469	1.3	1.4
Electric motors driven by purchased energy.....	1,457	12,163	1,381	11,077	995	9,353	692	6,563	443	4,310	35.9	21.4
Electric motors, total.....	1,936	16,743	1,876	16,050	1,405	13,702	833	10,313	569	6,365	100.0	100.0
Driven by purchased energy.....	1,457	12,163	1,381	11,077	995	9,353	692	6,563	443	4,310	72.6	63.6
Driven by energy generated in establishments reporting.....	479	4,580	495	4,982	410	4,349	141	3,750	126	2,055	27.4	36.4
Electric generators.....	37	Kilowatts 3,670 Kilowatt-hours	30	Kilowatts 4,023	41	Kilowatts 3,654	(2)	(2)	(2)	(2)		
Electric energy purchased 1.....		7,122,013		(4)		(4)		(2)		(2)		

1 Not called for separately on schedule.  
 2 Not called for on schedule.  
 3 This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.  
 4 Data incomplete.

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TABLE 7.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, AND 1914, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum		
		January	February	March	April	May	June	July	August	September	October	November	December			
<b>United States:</b>																
1929.....	10,691	10,446	10,552	10,717	10,627	10,829	10,781	10,696	10,803	10,777	11,039	10,745	<b>10,882</b>	11,237	12,804	93.2
1925.....	11,483	11,297	11,548	11,514	11,803	<i>11,753</i>	11,300	11,206	11,647	11,009	12,184	11,558	11,237	11,237	12,804	91.2
1919.....	13,219	13,023	13,038	12,927	12,725	<b>12,633</b>	13,195	13,550	13,683	13,928	13,905	13,211	12,804	12,804	12,804	90.1
1914.....	17,128	16,096	16,039	17,101	17,392	17,300	17,816	17,150	16,800	17,702	17,788	16,811	<b>16,880</b>	16,880	16,880	91.1
California.....	299	293	<i>264</i>	278	279	270	283	291	304	329	363	330	292	292	292	72.7
Florida.....	375	405	402	414	420	374	327	337	334	327	342	421	405	405	405	76.2
Georgia.....	134	<i>108</i>	105	120	148	180	165	145	136	132	126	124	118	118	118	57.2
Illinois.....	1,135	1,150	1,179	1,164	1,123	1,112	1,171	1,182	1,150	1,088	1,130	1,113	<b>1,070</b>	1,070	1,070	90.6
Indiana.....	121	111	121	<i>110</i>	113	120	124	130	125	130	120	121	123	123	123	84.6
Iowa.....	157	154	162	163	153	155	171	164	160	160	155	149	138	138	138	80.7
Kentucky.....	408	408	409	402	398	<i>372</i>	386	394	419	461	471	415	403	403	403	77.3
Louisiana.....	610	646	663	674	697	577	537	527	559	575	643	665	643	643	643	78.2
Maine.....	43	<i>27</i>	29	31	39	39	42	43	39	48	63	61	55	55	55	42.9
Maryland.....	293	275	<i>271</i>	283	293	303	308	306	300	294	300	280	277	277	277	88.0
Massachusetts.....	483	514	511	505	484	479	472	<i>457</i>	470	461	462	480	488	488	488	88.9
Michigan.....	30	34	41	41	32	35	41	25	25	27	24	22	23	23	23	51.2
Minnesota.....	216	206	215	212	201	230	231	<i>182</i>	237	218	226	224	214	214	214	70.8
Missouri.....	532	527	548	531	523	518	<i>510</i>	524	530	548	551	538	525	525	525	92.6
New Hampshire.....	300	253	239	235	<i>227</i>	327	310	318	322	322	330	367	357	357	357	93.6
New Jersey.....	720	720	711	721	706	691	733	754	726	751	729	710	687	687	687	91.1
New York.....	610	<i>543</i>	557	587	594	620	614	634	641	677	656	617	670	670	670	80.2
North Carolina.....	220	201	213	212	251	295	311	<i>169</i>	187	211	212	196	181	181	181	51.1
Ohio.....	459	445	455	442	436	<i>422</i>	452	477	490	504	493	458	428	428	428	85.7
Oregon.....	16	18	17	<i>15</i>	15	15	16	17	17	17	17	16	16	16	16	83.3
Pennsylvania.....	510	522	518	532	530	514	<i>440</i>	605	506	509	510	521	514	514	514	83.8
South Carolina.....	68	80	61	62	64	69	45	52	64	77	86	79	82	82	82	62.3
Tennessee.....	238	246	238	246	240	236	230	232	235	240	233	237	<b>228</b>	228	228	92.7
Texas.....	145	<i>110</i>	114	115	110	139	143	165	170	150	167	174	171	171	171	63.2
Virginia.....	896	814	851	935	984	1,037	1,014	962	916	896	938	892	755	755	755	70.7
Washington.....	510	520	514	524	525	544	554	548	556	562	513	466	466	466	466	71.7
West Virginia.....	96	89	92	91	91	97	98	97	108	110	105	87	80	80	80	78.2
Wisconsin.....	678	680	674	683	680	694	693	693	693	685	672	669	654	654	654	94.2

1 No data available for years prior to 1914.

## BASKETS AND RATTAN AND WILLOW WARE, NOT INCLUDING FURNITURE

Description of the industry.—This industry embraces establishments engaged primarily in the manufacture of baskets of all kinds; fruit, floral, berry, and truck packages; laundry and bushel hampers; coffee drums; splint and wicker trays; rattan and cane webbing; and, in general, small articles made of veneer, reed, rattan, and willow. (Manufacturers of rattan and willow furniture are classified in the furniture industry.)

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1910 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>	Horsepower
1929	273	9,353	\$6,671,089	\$8,820,166	\$22,851,043	\$14,030,877	20,180
1927	236	9,205	6,607,806	9,231,144	21,728,900	12,497,756	17,821
1925	230	6,808	5,032,572	6,757,051	16,658,000	9,900,409	12,794
1923	215	5,838	4,453,409	6,118,869	14,712,549	8,593,680	11,474
1921	198	4,795	3,651,485	5,230,368	11,241,001	6,010,633	(3)
1919	375	4,533	3,369,086	4,904,241	11,821,167	6,916,926	6,819
1914	419	4,574	1,922,965	2,999,285	6,578,468	3,579,183	7,201
1909	456	4,664	1,747,394	2,335,408	5,695,356	3,359,948	7,196
1904	486	5,106	1,730,932	1,803,290	5,187,263	3,383,973	6,207
1899	454	4,217	1,212,990	1,334,528	3,636,454	2,301,926	5,777
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929	15.7	0.6	1.0	-4.5	5.2	12.3	13.2
1925-1927	2.6	36.5	31.3	36.6	30.4	20.2	39.3
1923-1925	7.0	16.6	13.0	10.4	13.2	15.2	11.5
1921-1923	8.6	21.8	22.0	17.0	30.0	43.0	-----
1919-1921	-47.2	5.8	8.4	6.6	-4.9	-13.1	-----
1919-1929	-27.2	106.3	98.0	79.8	93.3	102.8	210.4
1909-1919	-17.8	-2.8	92.8	110.0	107.6	105.0	-12.2
1899-1909	0.4	10.6	44.1	75.0	56.6	46.0	24.6

<sup>1</sup> For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.

<sup>2</sup> Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

<sup>3</sup> Not called for on schedule.

# BASKETS AND RATTAN AND WILLOW WARE

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TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Census year	Number of establishments	Salaried officers and employees <sup>1</sup>	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
					Total	Prime movers	Motors run by purchased energy			Total	Materials	Fuel and purchased energy		
United States	1929	273	630	9,353	20,180	12,835	7,345	\$1,448,216	\$6,071,089	\$8,820,100	\$8,633,106	\$187,060	\$22,851,043	\$14,030,877
	1927	230	633	9,205	17,821	13,025	4,796	1,436,750	6,607,806	9,231,144	9,066,134	165,010	21,728,900	12,497,756
	1919	375	437	4,533	6,319	4,710	1,600	803,646	3,369,080	4,604,241	4,805,482	98,759	11,821,167	6,916,926
Individual States:														
Alabama	1920	5	7	107	400	400		13,000	71,363	71,303	70,804	430	200,740	138,443
	1927	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	1919	7	3	103	201	154	47	3,288	40,700	32,125	31,521	604	102,028	70,503
Arkansas	1929	4	11	250	400	300	40	20,050	170,753	148,148	146,548	1,600	431,593	283,445
	1927	4	12	241	504	500	4	20,810	120,961	130,787	120,719	1,068	309,709	178,932
Delaware	1920	7	23	505	505	545	20	57,065	274,462	207,842	205,069	2,773	843,364	545,522
	1927	6	34	455	850	850		75,840	272,849	433,911	432,182	1,749	959,932	526,021
	1919	3	36	36	35	35			18,750	28,490			63,500	24,010
Florida	1920	7	18	302	942	942		26,013	155,339	284,216	284,216		620,318	336,102
	1927	4	7	288	430	430		15,120	158,282	241,318	238,870	2,448	516,000	275,282
Georgia	1920	4	13	147	219	124	96	10,063	63,599	62,550	60,584	1,966	155,655	92,505
	1927	3	9	233	360	265	95	18,385	77,083	79,808	78,092	1,836	221,393	141,495
Illinois	1920	13	20	126	283	170	118	28,780	116,562	207,045	200,935	6,110	450,650	243,005
	1927	7	12	121	201	105	96	10,461	104,450	163,097	158,517	4,580	342,614	179,517
	1919	12	11	44	16		16	17,465	42,093	80,933	79,312	1,621	167,290	86,366
Indiana	1920	14	60	957	1,701	1,345	446	150,430	626,840	624,871	601,280	23,582	1,962,578	1,437,707
	1927	13	76	990	1,850	1,420	430	204,585	681,534	694,261	666,736	28,525	1,879,074	1,285,713
	1919	12	85	1,017	937	695	242	125,507	508,080	608,733	486,092	22,771	1,691,715	1,032,982
Iowa	1920	5	36	163	283	166	88	60,064	101,520	140,401	145,835	3,569	385,834	236,433
	1927	4	23	209	216	200	16	48,312	137,614	150,092	154,145	2,847	590,293	430,211
Maryland	1920	10	10	266	570	505	65	20,977	174,074	200,403	198,187	2,276	508,054	307,591
	1927	14	17	451	1,014	745	269	27,021	294,795	361,894	357,884	4,010	870,756	497,892
	1919	10	3	48	56		1	3,529	46,180	67,750	66,677	1,173	148,241	80,491
Massachusetts	1920	9	25	131	138		138	61,061	154,518	107,355	189,277	8,078	512,833	316,478
	1927	8	21	220	161	40	121	42,267	187,872	270,068	273,771	6,197	644,702	369,824
	1919	13	18	311	250	130	120	45,906	245,607	331,740	324,824	6,923	767,655	435,909
Michigan	1920	14	35	446	1,312	390	922	74,017	384,617	624,092	608,310	15,782	1,422,307	708,215
	1927	14	40	412	1,304	632	672	76,072	395,950	429,370	418,784	10,586	1,030,654	631,684
	1919	9	21	296	263	229	34	20,717	215,093	108,443	104,314	4,129	538,060	340,520
New Jersey	1920	14	38	328	877	640	237	60,007	271,087	564,072	557,329	6,743	1,344,544	780,472
	1927	14	39	344	789	638	151	103,022	363,177	731,084	725,732	5,652	1,394,040	907,305
	1919	24	6	162	464	424	40	14,884	133,455	265,365	262,320	3,945	624,079	258,714
New York	1920	61	93	1,145	3,041	1,334	1,707	229,430	1,098,322	1,560,343	1,624,193	45,180	3,083,887	2,114,514
	1927	52	02	973	1,995	974	974	219,352	997,990	1,422,009	1,388,235	33,771	3,108,336	1,690,330
	1919	153	81	762	1,212	848	364	175,702	670,933	1,301,155	1,277,988	23,167	3,163,706	1,862,551
North Carolina	1920	11	23	535	1,065	684	411	40,760	208,555	340,223	334,761	5,432	892,546	552,323
	1927	8	15	344	725	441	284	35,440	174,083	310,093	307,658	3,035	690,030	379,346
	1919	4		37	89	0	83		27,901	45,786	44,430	1,356	97,325	51,539
Ohio	1920	23	37	624	1,226	513	713	82,023	484,090	283,680	272,786	10,894	1,071,505	787,825
	1927	19	30	479	1,074	553	621	70,168	462,070	302,088	285,472	13,016	1,061,591	789,603
	1919	20	24	319	630	564	75	34,186	229,450	134,727	123,020	6,107	537,898	493,171
Pennsylvania	1920	13	46	316	125	40	85	118,973	299,735	660,378	655,795	10,583	1,358,797	692,410
	1927	8	02	258	221	150	71	154,442	295,548	544,855	535,893	8,982	1,104,524	550,609
	1919	32	50	311	108	42	66	97,029	267,524	852,150	848,638	3,612	1,420,859	577,709
Texas	1920	14	40	878	2,004	1,699	305	101,106	576,985	646,093	641,167	4,836	2,067,072	1,421,069
	1927	13	25	865	1,448	1,325	123	62,751	555,180	532,512	524,071	7,841	1,682,855	1,150,343
Virginia	1920	8	34	1,290	2,623	1,492	1,131	106,204	674,138	1,026,363	1,000,095	20,258	2,468,362	1,442,000
	1927	5	12	1,139	1,310	1,265	45	36,667	477,752	1,020,090	1,017,415	2,084	1,869,238	848,139
Groups of States:														
Calif., 7 est.; Colo., 2	1929	0	15	238	658	360	208	46,280	219,687	511,103	504,550	6,553	1,088,570	577,467
Conn., 1 est.; N. H., 1; Vt., 2	1920	4	5	45	330	105	231	9,965	49,093	47,301	44,395	2,900	149,706	102,405
Kans., 2 est.; Minn., 1; Wis., 3	1920	6	8	179	282	170	112	15,845	133,383	72,185	69,051	3,134	336,387	264,202
Ky., 2 est.; Tenn., 3	1920	5	10	145	302	302		16,975	78,510	68,844	68,045	769	204,679	135,835
La., 1 est.; Miss., 1; S. C., 3	1920	5	5	58	260	260		8,178	36,680	88,630	88,630		187,000	98,370
Mo., 3 est.; Nebr., 1	1920	4	8	32	76		70	14,251	22,647	15,045	15,045	1,560	72,400	56,755
Oreg., 1 est.; Utah, 1; Wash., 2	1920	4	10	150	337	230	107	18,960	127,085	158,120	151,110	2,010	363,256	210,136
States not shown separately..	1927	40	98	1,273	3,309	2,385	924	205,668	960,951	1,465,711	1,470,468	25,303	3,397,281	1,901,570
	1919	61	129	1,097	2,049	1,528	521	256,238	802,135	1,056,838	1,032,586	24,252	2,690,293	1,642,455

<sup>1</sup> Not including proprietors and firm members, as follows: For 1929, 172; 1927, 153; 1919, 400. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 10,155; 1927, 10,081; 1919, 5,370.

<sup>2</sup> For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.

<sup>3</sup> Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

<sup>4</sup> Withheld from publication in order to avoid disclosing data for individual establishments.

<sup>5</sup> Alabama, 3 establishments; California, 8; Colorado, 1; Connecticut, 1; Kansas, 2; Kentucky, 2; Maine, 1; Minnesota, 3; Mississippi, 1; Missouri, 2; New Hampshire, 2; Oregon, 1; Rhode Island, 1; Tennessee, 3; Utah, 1; Vermont, 1; Washington, 3; Wisconsin, 4.

<sup>6</sup> Arkansas, 3 establishments; California, 10; Colorado, 1; Connecticut, 3; District of Columbia, 2; Florida, 1; Georgia, 1; Iowa, 2; Kansas, 1; Kentucky, 1; Louisiana, 1; Maine, 3; Minnesota, 1; Missouri, 1; Nebraska, 1; New Hampshire, 3; Oregon, 3; Rhode Island, 2; South Carolina, 1; Tennessee, 1; Texas, 2; Utah, 1; Vermont, 4; Virginia, 3; Washington, 1; West Virginia, 1; Wisconsin, 8.

## CENSUS OF MANUFACTURES: 1929

TABLE 3.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1929 AND 1927

[The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for 1927 represent production. See GENERAL EXPLANATIONS—Value of Products.]

KIND	VALUE	
	1929	1927
1. "Baskets and rattan and willow ware" industry, total value.....	\$22,851,043	\$21,728,900
2. Baskets and hampers, and reed, rattan, and willow ware other than furniture.....	20,683,983	20,230,053
3. Amount received for custom and contract work.....	16,472	35,956
4. Products (not normally belonging to the industry).....	2,150,588	1,463,891
5. Baskets and hampers, and reed, rattan, and willow ware made as secondary products in other industries.....	4,021,080	3,568,155
Baskets and rattan and willow ware, all industries, total value (sum of 2 and 5).....	24,705,663	23,797,208
Baskets and hampers—		
Made of veneer.....	19,647,018	19,283,798
Made of reed, rattan, and willow.....	1,825,252	2,554,240
Made of other material.....	1,181,100	( <sup>1</sup> )
Reed, rattan, and willow ware other than baskets and hampers and furniture.....	1,584,758	1,959,170
Kind not specified.....	406,935	-----

<sup>1</sup> Not called for on schedule.

TABLE 4.—CONSUMPTION OF LOGS AND LUMBER, BY KIND, QUANTITY, AND COST: 1929

[The combined value of products reported by the 151 establishments in the industry which reported consumption of logs and lumber in detail amounted to 72.9 per cent of the total value of products for the industry as a whole. The remaining 122 establishments did not report the consumption of logs and lumber in detail.]

KIND	Quantity (M feet b. m.)	Cost
Logs <sup>1</sup> .....	123,115	\$3,200,063
Lumber:		
Hardwood.....	8,563	251,540
Softwood.....	6,807	178,557

<sup>1</sup> These logs were manufactured into veneers and most of the veneers were in turn manufactured into baskets. Data for these logs are included in the figures covering consumption in the manufacture of veneers, as given in the report on the "Lumber and timber products" industry.

TABLE 5.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSEPOWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
		Horse-power		Horse-power		Horse-power		Horse-power		Horse-power		
Prime movers and electric motors driven by purchased energy, aggregate.....	1,248	20,180	833	17,821	624	12,794	352	6,319	283	7,291	100.0	100.0
Prime movers, total.....	198	12,835	188	13,025	103	9,289	124	4,710	174	6,498	63.6	74.6
Steam, total.....	192	12,642	175	12,689	148	8,970	96	4,157	143	5,994	62.0	65.8
Engines.....	189	12,462	172	12,214	148	8,970	96	4,157	( <sup>1</sup> )	( <sup>1</sup> )	61.8	65.8
Turbines.....	3	180	3	475	-----	-----	-----	-----	( <sup>1</sup> )	( <sup>1</sup> )	0.9	-----
Internal-combustion engines.....	4	88	8	131	8	94	18	183	10	169	0.4	2.9
Water wheels and water turbines.....	2	105	5	205	7	225	10	370	12	335	0.5	5.9
Electric motors driven by purchased energy.....	1,050	7,345	645	4,796	461	3,505	228	1,609	109	793	36.4	25.5
Electric motors, total.....	1,213	8,207	902	6,936	611	4,574	233	1,669	121	901	100.0	100.0
Driven by purchased energy.....	1,050	7,345	645	4,796	461	3,505	228	1,609	109	793	88.8	96.4
Driven by energy generated in establishments reporting.....	163	922	257	2,140	150	1,069	5	60	12	108	11.2	3.6
Electric generators.....	13	Kilowatts 874 Kilowatt-hours 3,896,778	16	Kilowatts 1,162	17	Kilowatts 816	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	-----	-----
Electric energy purchased <sup>3</sup> .....	-----	-----	-----	( <sup>4</sup> )	-----	( <sup>4</sup> )	-----	( <sup>4</sup> )	-----	( <sup>4</sup> )	-----	-----

<sup>1</sup> Not called for separately on schedule.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.

<sup>4</sup> Data incomplete.

# BASKETS AND RATTAN AND WILLOW WARE

**TABLE 6.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, 1914, AND 1909, AND BY STATES, 1929**

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum	
		January	February	March	April	May	June	July	August	September	October	November	December		
United States:															
1929.....	0, 363	<i>7, 699</i>	8, 072	0, 354	9, 845	10, 181	10, 183	9, 875	9, 932	10, 123	9, 790	8, 731	7, 845	75.0	
1925.....	6, 808	6, 055	6, 055	7, 113	7, 513	7, 779	7, 393	6, 989	6, 775	6, 745	6, 555	6, 213	<i>5, 913</i>	76.0	
1919.....	4, 533	<i>5, 979</i>	4, 254	4, 434	4, 589	4, 623	4, 686	4, 683	4, 707	4, 673	4, 582	4, 527	4, 509	83.5	
1914.....	4, 574	3, 921	4, 000	4, 338	4, 705	4, 885	5, 032	5, 300	5, 329	5, 022	4, 433	3, 938	<i>3, 826</i>	71.8	
1909.....	4, 664	<i>3, 981</i>	4, 448	4, 703	5, 146	5, 294	5, 270	5, 071	4, 957	4, 697	4, 197	4, 042	4, 176	75.2	
Alabama.....	167	150	167	166	173	173	174	166	182	165	151	153	<i>140</i>	74.0	
Arkansas.....	280	<b>310</b>	<b>310</b>	<b>310</b>	310	295	295	<i>246</i>	<i>245</i>	<i>245</i>	<i>245</i>	285	295	79.0	
Delaware.....	505	402	485	508	523	499	493	570	563	502	513	<i>451</i>	482	72.7	
Florida.....	302	341	330	343	359	352	267	<i>226</i>	<i>226</i>	280	327	320	242	63.0	
Georgia.....	147	187	254	230	303	254	134	111	<i>45</i>	81	70	51	40	14.0	
Illinois.....	126	100	108	118	120	134	136	143	144	130	128	122	<i>99</i>	68.8	
Indiana.....	957	664	753	826	929	1, 101	1, 162	1, 179	1, 194	1, 166	1, 077	819	796	47.2	
Iowa.....	163	192	221	214	213	210	227	199	121	116	122	105	109	46.3	
Maryland.....	206	289	301	292	316	270	250	<i>207</i>	215	259	259	230	232	65.5	
Massachusetts.....	131	<b>157</b>	147	128	130	130	122	<i>112</i>	117	128	135	139	133	71.3	
Michigan.....	446	<i>193</i>	200	334	418	538	584	620	650	631	592	382	254	30.2	
New Jersey.....	328	<i>269</i>	<i>269</i>	289	307	316	337	380	394	400	350	317	300	67.3	
New York.....	1, 145	871	948	1, 081	1, 238	1, 251	1, 305	1, 330	1, 318	1, 281	1, 235	1, 010	<i>840</i>	62.2	
North Carolina.....	535	<i>343</i>	515	538	558	577	578	480	578	590	563	564	511	59.1	
Ohio.....	524	471	480	505	533	538	546	595	573	500	548	498	<i>466</i>	79.0	
Pennsylvania.....	316	318	306	315	327	333	289	292	298	340	329	330	311	82.4	
Texas.....	878	825	804	868	<i>754</i>	797	849	908	973	958	925	882	925	77.5	
Virginia.....	1, 290	<i>903</i>	1, 345	1, 477	1, 398	1, 335	1, 362	1, 198	1, 163	1, 458	1, 460	1, 386	980	61.1	

# BILLIARD AND POOL TABLES, BOWLING ALLEYS, AND ACCESSORIES

Description of the industry.—This industry embraces establishments engaged primarily in the manufacture of billiard and pool tables, cues, balls, chalk, and other accessories, and of bowling alleys and accessories.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>	Horsepower
1929	40	1,300	\$1,862,017	\$3,238,396	\$8,821,363	\$5,582,967	6,402
1927	34	1,184	1,549,880	2,393,993	7,111,871	4,717,878	2,335
1925	33	1,037	1,354,004	1,780,623	5,614,819	3,833,696	2,120
1923	32	876	1,400,500	2,228,020	6,236,394	4,007,474	2,897
1921	36	925	1,056,078	3,377,473	7,367,920	3,990,447	(?)
1919	40	2,101	2,425,353	6,100,852	15,733,047	9,632,195	5,261
1914	54	1,453	984,517	2,488,261	4,894,081	2,465,820	3,197
1909	54	1,495	1,010,716	3,368,678	5,877,837	2,509,159	2,621
1904	48	796	509,907	936,608	2,222,922	1,280,314	615
1899	74	453	277,818	720,462	1,648,182	918,720	100
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929	(?)	17.4	20.2	35.3	24.0	18.3	174.2
1925-1927	(?)	14.2	14.5	34.4	26.7	23.1	10.1
1923-1925	(?)	18.4	-3.3	-20.1	-10.0	-4.3	-20.8
1921-1923	(?)	-5.3	32.5	-34.0	-15.4	0.4	-----
1919-1921	(?)	-56.0	-59.4	-44.6	-53.2	-58.0	-----
1910-1929	(?)	-33.8	-23.2	-40.0	-43.9	-42.0	21.7
1900-1919	(?)	40.5	140.0	81.1	107.7	283.0	100.7
1899-1909	(?)	230.0	263.8	301.8	250.6	173.1	1,279.5

<sup>1</sup> For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.  
<sup>2</sup> Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.  
<sup>3</sup> Not called for on schedule.  
<sup>4</sup> Per cent not computed where base is less than 100.

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments. Certain of the "Other States," however, reported larger values of products than some of the States shown separately. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Census year	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
					Total	Prime movers	Motors run by purchased energy			Total	Materials	Fuel and purchased energy		
United States	1929	40	209	1,300	6,402	4,365	2,037	\$428,489	\$1,862,917	\$3,238,396	\$3,114,697	\$123,699	\$8,821,363	\$5,582,967
	1927	34	204	1,184	2,335	1,595	740	415,853	1,549,880	2,393,993	2,312,156	81,837	7,111,871	4,717,878
	1919	40	183	2,101	5,201	317	4,944	271,408	2,425,353	6,100,852	5,903,469	137,383	15,733,047	9,632,195
Illinois	1929	3	7	21	19	-----	19	15,687	22,710	30,014	20,037	1,577	99,698	69,084
	1927	4	15	44	24	-----	24	26,903	54,794	104,682	101,829	2,853	217,447	112,765
	1919	8	8	30	27	-----	27	14,400	28,960	20,369	18,947	1,422	82,241	61,872
Massachusetts	1929	5	7	33	104	-----	104	17,300	60,163	72,643	70,671	1,972	237,200	164,557
	1927	4	8	22	90	-----	90	18,245	28,045	83,678	81,817	1,861	182,472	98,704
	1919	7	4	39	43	-----	43	8,360	46,597	115,315	113,820	1,695	242,177	126,892
New York	1929	13	21	135	458	180	278	70,193	295,308	332,055	322,014	10,041	823,064	491,009
	1927	12	38	132	382	50	332	121,576	189,802	308,893	294,812	14,071	1,058,228	749,345
	1919	10	62	115	245	150	95	81,253	131,167	402,235	393,111	9,124	812,225	490,990
Pennsylvania	1929	3	5	13	10	-----	10	10,380	23,031	62,260	61,710	540	142,700	80,450
	1927	4	16	25	79	70	9	17,299	37,680	63,947	61,931	2,016	141,567	77,950
	1919	4	5	21	36	-----	36	5,996	29,108	62,633	61,903	730	127,207	64,034
Other States	<sup>4</sup> 1929	10	169	1,188	5,811	4,185	1,626	314,929	1,551,705	2,739,934	2,631,265	108,669	7,517,801	4,777,867
	<sup>5</sup> 1927	10	127	961	1,760	1,475	285	231,893	1,239,559	1,832,803	1,771,767	61,036	5,512,127	3,679,324
	<sup>7</sup> 1919	16	114	1,896	4,971	107	4,804	161,409	2,189,523	5,500,300	5,375,888	124,412	14,469,137	8,968,837

<sup>1</sup> Not including proprietors and firm members, as follows: For 1929, 26; 1927, 21; 1919, 43. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 1,626; 1927, 1,409; 1919, 2,327.  
<sup>2</sup> For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.  
<sup>3</sup> Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.  
<sup>4</sup> Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919 but not in the United States totals.  
<sup>5</sup> California, 1 establishment; Connecticut, 1; Maine, 2; Michigan, 2; Minnesota, 1; New Jersey, 2; Ohio, 2; Vermont, 3; Virginia, 1; Wisconsin, 1.  
<sup>6</sup> Maine, 1 establishment; Michigan, 2; New Jersey, 1; Ohio, 3; Vermont, 1; Virginia, 1; Wisconsin, 1.  
<sup>7</sup> California, 2 establishments; Maine, 1; Michigan, 2; Minnesota, 2; Missouri, 2; New Jersey, 2; Ohio, 2; Virginia, 1; Wisconsin, 2.



## BOXES, CIGAR, WOODEN

**Description of the industry.**—This industry embraces establishments engaged primarily in the manufacture of wooden boxes in which cigars are packed for sale. (Data for paper cigar boxes are included in the report for the "Boxes, paper, not elsewhere classified" industry.)

**Consumption of logs and bolts and production of veneer by cigar-box manufacturers.**—Such data as

were reported to the Bureau of the Census for the consumption of logs and bolts in the manufacture of veneer by establishments classified in the wooden-cigar-box industry, and for the production of veneer by such establishments for their own use or for sale incidentally, are included in the statistics on veneers, Tables 20 to 23, inclusive, in the report on the "Lumber and timber products" industry. (See p. 440.)

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>	Horsepower
1929	118	4,374	\$3,507,711	\$5,238,209	\$12,459,425	\$7,221,210	5,518
1927	136	4,577	3,925,329	5,620,725	12,908,739	7,288,014	5,478
1925	155	4,836	3,969,678	5,450,395	12,924,806	7,474,411	5,210
1923	170	5,101	4,170,639	6,249,422	14,796,255	8,546,833	6,054
1921	171	4,657	3,728,362	6,778,439	14,316,954	7,538,515	5,100
1919	199	5,218	3,512,238	6,336,540	13,110,213	6,773,673	5,009
1914	238	5,535	2,298,842	4,269,486	8,336,907	4,067,421	5,251
1909	274	5,115	2,234,329	4,313,044	8,491,082	4,178,038	5,613
1904	297	6,282	2,123,468	3,869,901	7,786,286	3,976,325	5,289
1899	315	4,609	1,439,599	3,051,193	5,856,915	2,795,722	3,891
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929	-13.2	-4.4	-10.4	-6.8	-3.5	-0.9	0.7
1925-1927	-12.3	-5.4	-1.0	3.1	-0.1	-2.5	5.1
1923-1925	-8.8	-5.2	-4.9	-12.8	-12.0	-12.5	-13.9
1921-1923	-0.6	9.5	11.9	-7.8	3.3	13.4	-----
1919-1921	-9.5	-10.8	0.2	7.0	9.2	11.3	-----
1919-1929	-37.6	-16.2	-0.1	-17.3	-5.0	0.6	10.2
1909-1919	-31.0	-14.7	57.2	46.9	54.4	62.1	-10.8
1899-1909	-13.0	32.7	55.2	40.9	46.0	49.4	44.3

<sup>1</sup> For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.

<sup>2</sup> Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

<sup>3</sup> Not called for on schedule.

# BOXES, CIGAR, WOODEN

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TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Census year	Number of establishments	Salaried officers and employes <sup>1</sup>	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
					Total	Prime movers	Motors run by purchased energy			Total	Materials	Fuel and purchased energy		
United States.....	1929	113	298	4,374	5,518	1,897	3,621	\$814,228	\$3,507,711	\$5,238,209	\$5,102,054	\$136,155	\$12,459,425	\$7,221,216
	1927	136	332	4,677	5,475	1,829	3,640	704,052	3,025,329	5,620,725	5,482,864	137,801	12,908,739	7,288,014
	1919	189	356	5,218	5,009	2,745	2,264	797,525	3,512,230	6,336,540	6,205,752	130,788	13,110,213	6,773,073
Individual States:														
California.....	1929	4	5	60	117	-----	117	17,500	57,573	67,431	64,737	2,694	188,488	121,067
	1927	5	12	65	133	-----	133	16,053	57,780	58,375	55,724	2,651	175,157	110,782
	1919	4	7	54	43	8	35	10,700	42,371	77,291	75,725	1,566	154,861	77,570
Florida.....	1929	6	38	686	947	325	622	124,244	511,906	624,500	609,068	15,322	1,782,506	1,157,916
	1927	7	41	621	865	225	640	133,074	547,956	707,270	691,415	15,855	1,704,448	997,178
	1919	4	45	673	643	343	300	129,343	638,366	750,140	735,192	14,948	1,683,074	982,034
Illinois.....	1929	5	10	90	115	-----	115	35,508	82,243	93,645	89,297	4,348	280,914	187,269
	1927	6	12	100	137	-----	137	34,827	102,214	124,840	119,867	4,973	341,415	210,575
	1919	12	18	224	146	-----	146	42,012	166,232	208,429	292,086	0,343	694,664	366,235
Iowa.....	1929	3	2	18	13	-----	13	3,815	12,545	11,186	10,632	554	35,575	24,389
	1927	4	4	17	31	-----	31	8,165	15,428	22,573	21,474	1,099	52,843	30,270
	1919	7	8	69	57	-----	57	14,019	44,265	67,434	64,752	2,682	179,446	112,012
Maryland.....	1929	3	3	56	43	41	2	4,010	42,051	45,395	44,367	1,028	120,142	74,747
	1927	4	6	97	93	41	52	3,008	78,578	85,794	82,558	8,206	225,110	139,352
	1919	6	5	169	80	45	35	4,487	98,009	168,847	165,778	3,009	377,053	208,209
Michigan.....	1929	5	10	219	142	-----	142	49,277	150,780	231,699	225,190	6,539	619,552	387,858
	1927	7	24	233	190	-----	190	47,634	189,016	261,849	254,811	7,038	707,010	445,761
	1919	9	21	301	219	100	119	45,294	213,624	277,235	250,412	6,828	600,088	342,858
New Jersey.....	1929	4	24	239	202	30	172	103,954	225,538	335,533	327,456	8,127	831,034	495,441
	1927	5	15	271	212	30	182	55,567	264,339	438,441	475,674	7,767	931,628	478,187
	1919	5	9	84	67	5	62	23,206	68,016	108,131	105,807	2,324	247,961	139,530
New York.....	1929	12	42	487	404	60	404	152,943	504,345	551,893	536,144	15,650	1,410,565	858,762
	1927	13	47	569	609	312	297	151,202	655,074	531,725	510,738	20,987	1,505,324	673,593
	1919	31	75	933	1,004	542	462	234,136	779,981	1,169,895	1,145,141	24,724	2,630,820	1,460,955
Ohio.....	1929	13	10	242	336	110	226	49,723	163,957	245,237	237,795	7,442	625,498	380,261
	1927	15	22	250	308	75	233	63,504	187,331	274,924	264,256	19,665	710,333	435,469
	1919	19	22	370	490	331	159	36,142	230,192	480,609	467,769	12,840	950,739	470,130
Pennsylvania.....	1929	34	66	1,642	2,534	1,271	1,263	146,497	1,300,018	2,318,816	2,266,687	52,129	4,904,965	2,586,149
	1927	40	85	1,709	2,083	1,066	1,077	167,269	1,403,161	2,379,974	2,335,789	44,185	4,956,434	2,576,460
	1919	62	72	1,406	1,560	1,131	429	116,340	864,950	1,891,494	1,855,397	36,097	3,421,948	1,530,454
Groups of States:														
Colo., 1 est.; Oreg., 1; Utah, 1.....	1929	3	1	9	7	-----	7	500	8,188	11,626	10,903	663	30,255	18,029
Conn., 1 est.; Mass., 4; N. H., 1.....	1929	6	12	94	101	60	41	45,350	91,701	108,607	104,533	4,104	322,179	213,482
Ind., 4 est.; Ky., 4.....	1929	8	14	197	194	-----	194	28,009	145,202	211,459	205,666	5,793	483,190	271,731
Kans., 1 est.; Mo., 2; Tex., 1.....	1929	4	8	54	57	-----	57	11,351	37,715	48,358	46,681	1,677	121,332	72,974
La., 3 est.; S. C., 1.....	1929	4	8	208	150	-----	150	13,587	103,088	244,178	241,221	2,957	456,736	212,568
Minn., 2 est.; Wis., 2.....	1929	4	9	78	96	-----	96	22,060	61,281	88,506	81,647	6,859	246,504	157,998
States not shown separately.	1927	30	64	525	817	140	677	108,119	424,212	689,900	670,523	19,432	1,568,401	878,441
	1919	40	76	836	750	240	510	138,758	496,250	1,067,065	1,047,693	19,372	2,169,559	1,102,494

<sup>1</sup> Not including proprietors and firm members, as follows: For 1929, 98; 1927, 105; 1919, 187. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 4,740; 1927, 5,014; 1919, 5,701.

<sup>2</sup> For 1929 manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.

<sup>3</sup> Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

<sup>4</sup> Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919, but not in the United States totals.

<sup>5</sup> Colorado, 1 establishment; Connecticut, 1; Indiana, 5; Kansas, 1; Kentucky, 3; Louisiana, 3; Massachusetts, 3; Minnesota, 2; Missouri, 3; New Hampshire, 1; South Carolina, 1; Texas, 1; Utah, 1; Washington, 1; West Virginia, 1; Wisconsin, 2.

<sup>6</sup> Colorado, 3 establishments; Connecticut, 1; Indiana, 8; Kansas, 1; Kentucky, 2; Louisiana, 3; Massachusetts, 4; Minnesota, 3; Missouri, 2; New Hampshire, 1; Oregon, 1; South Carolina, 1; Texas, 1; Utah, 1; Virginia, 1; Washington, 1; West Virginia, 1; Wisconsin, 5.

## CENSUS OF MANUFACTURES: 1929

TABLE 3.—PRODUCTS, BY KIND, NUMBER, AND VALUE, FOR THE UNITED STATES: 1929 AND 1927

[The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for 1927 represent production. See GENERAL EXPLANATIONS—Value of Products]

KIND	VALUE			
	1929	1927		
1. "Boxes, cigar, wooden" industry, all products, total value.....	\$12,459,425	\$12,908,739		
2. Wooden cigar boxes.....	11,300,842	11,949,379		
3. Amount received for custom and contract work.....	100,181	969,363		
4. Products (not normally belonging to the industry).....	1,058,402			
5. Wooden cigar boxes made as secondary products in other industries.....	422,240	825,946		
Wooden cigar boxes, all industries: Total value (sum of 2 and 5).....	11,723,088	12,775,321		
	1929	1927		
	Number <sup>1</sup>	Number <sup>1</sup>		
Size one-tenth (100 cigars).....	11,058,365	4,234,611	1,401,288	558,425
Size one-twentieth (50 cigars).....	67,424,955	78,667,267	7,940,379	9,669,889
Size one-fortieth (25 cigars).....	13,028,609	12,852,293	1,532,255	1,514,603
Size not specified and miscellaneous sizes.....	7,359,281	7,194,124	849,106	1,032,604

<sup>1</sup> Estimated in part.

TABLE 4.—CONSUMPTION OF LOGS AND LUMBER, BY KIND, QUANTITY, AND COST: 1929

[The combined value of products reported by the 59 establishments in the industry which reported consumption of logs and lumber in detail amounted to 63.1 per cent of the total value of products for the industry as a whole. The remaining 59 establishments did not report consumption of logs and lumber in detail]

KIND	TOTAL QUANTITY (M feet b. m.)	QUANTITY ONLY REPORTED (M feet b. m.)	QUANTITY AND COST REPORTED	
			Quantity (M feet b. m.)	Cost
Logs <sup>1</sup> .....	3,593	100	3,493	\$276,602
Lumber:				
Hardwood.....	10,692	6,580	4,112	191,730
Softwood.....	24,009	2,979	21,030	1,173,704

<sup>1</sup> These logs were manufactured into veneers and most of the veneers were in turn manufactured into boxes. Data for these logs are included in the figures covering consumption in the manufacture of veneers, as given in the report on the lumber and timber products industry.

TABLE 5.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSE-POWER CAPACITY	
	Number	Capacity Horse-power	Number	Capacity Horse-power	Number	Capacity Horse-power	Number	Capacity Horse-power	Number	Capacity Horse-power	1929	1919
Prime movers and electric motors driven by purchased energy, aggregate.....	1,319	5,518	1,147	5,478	920	5,210	614	5,009	542	5,251	100.0	100.0
Prime movers, total.....	25	1,897	28	1,829	31	1,746	53	2,745	113	3,531	34.4	54.8
Steam, total.....	19	1,596	23	1,747	25	1,654	36	2,448	63	2,877	28.9	48.9
Engines.....	16	1,071	22	1,622	25	1,654	36	2,448	( <sup>1</sup> )	( <sup>1</sup> )	19.4	48.9
Turbines.....	3	525	1	125					( <sup>1</sup> )	( <sup>1</sup> )	9.5	
Internal-combustion engines.....	0	301	5	82	6	92	17	297	45	526	5.5	5.9
Water wheels and water turbines.....									5	128		
Electric motors driven by purchased energy.....	1,294	3,621	1,119	3,649	889	3,464	561	2,264	429	1,720	65.6	45.2
Electric motors, total.....	1,347	3,801	1,153	3,814	916	3,672	599	2,576	446	1,877	100.0	100.0
Driven by purchased energy.....	1,294	3,621	1,119	3,649	889	3,464	561	2,264	429	1,720	95.3	87.9
Driven by energy generated in establishments reporting.....	53	180	34	165	27	208	38	312	17	167	4.7	12.1
Electric generators.....	1	Kilowatts 75 Kilowatt- hours	2	Kilo- watts 165	5	Kilo- watts 303	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )		
Electric energy purchased <sup>3</sup> .....		2,319,481		( <sup>4</sup> )		( <sup>4</sup> )		( <sup>4</sup> )		( <sup>4</sup> )		

<sup>1</sup> Not called for separately on schedule.<sup>2</sup> Not called for on schedule.<sup>3</sup> This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.<sup>4</sup> Data incomplete.

BOXES, CIGAR, WOODEN

TABLE 6.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, 1914, AND 1909, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum	
		January	February	March	April	May	June	July	August	September	October	November	December		
United States:															
1929	4,374	<i>4,159</i>	4,161	4,189	4,198	4,217	4,222	4,370	4,516	4,633	4,706	4,661	4,456	88.4	
1925	4,836	4,670	4,712	4,726	<i>4,550</i>	4,564	4,564	4,665	4,848	5,113	5,197	5,266	5,153	86.4	
1919	5,218	<i>4,990</i>	5,076	5,083	5,090	5,090	5,143	5,155	5,122	5,195	5,415	5,591	5,668	88.1	
1914	5,835	5,822	5,801	5,833	5,748	5,765	<i>5,747</i>	5,765	5,843	6,000	5,987	5,945	5,761	95.8	
1909	6,115	6,091	6,071	5,971	<i>5,915</i>	5,916	5,957	5,963	6,037	6,156	6,333	6,434	6,473	91.4	
California	60	<i>52</i>	48	<i>48</i>	40	50	63	68	63	68	71	69	70	64.8	
Florida	686	<i>636</i>	645	655	688	657	644	670	719	752	752	739	670	84.6	
Illinois	90	90	90	90	88	87	86	88	86	92	91	94	94	91.5	
Iowa	18	18	18	18	18	18	18	18	18	18	18	18	18	-----	
Maryland	56	<i>56</i>	58	58	57	57	<i>55</i>	55	56	56	<i>55</i>	55	55	64.8	
Michigan	219	<i>197</i>	211	209	212	213	216	215	235	228	234	231	225	83.8	
New Jersey	236	247	243	240	235	231	234	220	241	251	250	239	227	90.4	
New York	487	442	<i>429</i>	459	465	471	485	496	510	520	534	523	505	80.3	
Ohio	242	229	250	243	234	225	<i>219</i>	251	254	257	255	250	238	85.2	
Pennsylvania	1,642	1,620	1,596	1,588	<i>1,565</i>	1,594	1,590	1,635	1,684	1,725	1,734	1,706	1,653	90.3	

## CASKETS, COFFINS, BURIAL CASES, AND OTHER MORTICIANS' GOODS

**Description of the industry.**—This industry embraces establishments engaged primarily in the manufacture of caskets and coffins, whether of wood or of metal, burial cases, shipping cases, and morticians' supplies and accessories, such as burial garments, gloves, and slippers, casket linings and draperies, ambulance baskets, lowering devices, couches, embalming tables, and embalming fluids.

**Detailed statistics of products (Tables 3 and 4).**—A special schedule, calling for detailed data on the several classes of products, was used for this industry for the first time at the census for 1927. For this reason no comparable detailed product statistics can be given for earlier years.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel, and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>	Horsepower
1929	414	13,033	\$16,411,027	\$39,357,294	\$88,281,872	\$48,931,578	39,609
1927	341	11,665	14,420,598	33,327,469	74,890,850	41,563,381	31,105
1925	326	11,479	14,056,507	32,771,236	70,412,687	37,641,451	29,164
1923	327	11,593	13,333,045	31,541,179	65,557,821	34,016,642	27,340
1921	314	9,956	10,665,816	27,016,789	64,795,673	27,778,884	(*)
1919	351	11,890	11,450,957	31,595,237	64,377,133	32,781,846	22,190
1914	287	9,468	5,381,842	13,277,078	26,325,162	13,068,084	18,969
1909	284	9,339	4,632,713	11,064,267	24,525,905	12,561,638	16,395
1904	239	8,468	4,119,811	9,501,267	20,266,110	10,764,843	12,922
1899	217	6,840	3,077,481	6,945,348	13,952,308	7,006,960	8,784
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929	21.8	11.7	13.8	18.1	17.9	17.7	27.3
1925-1927	4.3	1.6	2.6	1.7	6.4	10.4	6.7
1923-1925	—3	—1.0	5.4	3.9	7.4	10.7	6.7
1921-1923	4.1	16.4	26.0	16.7	19.6	22.5	—
1919-1921	—10.5	—16.3	—7.6	—14.5	—14.9	—15.3	—
1914-1919	17.9	9.6	43.3	24.5	37.1	40.3	78.5
1909-1919	23.6	27.3	147.2	164.1	162.5	161.0	35.3
1899-1909	30.9	39.5	50.5	72.3	75.8	79.3	86.6

<sup>1</sup> The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products.

<sup>2</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

<sup>3</sup> Not called for on schedule.

# CASKETS, COFFINS, ETC.

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**TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919**

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Census year	Number of establishments	Salaried officers and employ-ees <sup>1</sup>	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufac-ture <sup>1</sup>
					Total	Prime movers	Motors run by pur-chased energy			Total	Materials and con-tainers	Fuel and pur-chased energy		
United States.....	1929	414	2,173	13,033	39,609	12,811	26,798	\$6,475,756	\$16,411,027	\$39,350,294	\$38,500,420	\$849,865	\$88,281,872	\$43,931,578
	1927	340	2,044	11,665	31,105	12,812	18,293	5,649,433	14,420,598	33,327,469	32,517,419	810,050	74,890,850	41,563,381
	1919	351	2,431	11,890	22,190	12,311	9,870	5,831,208	11,450,957	31,595,287	31,061,231	534,056	64,377,133	32,781,846
Individual States:														
Alabama.....	1929	8	19	104	552	105	357	43,664	177,299	497,603	493,282	4,321	841,726	344,123
	1927	4	28	120	188	160	28	67,540	108,791	292,059	289,204	2,855	568,834	276,775
	1919	5	22	102	227	100	127	42,190	91,308	282,517	279,074	3,443	504,876	222,359
Arkansas.....	1929	3	25	99	427		427	92,860	88,038	304,211	204,830	9,381	667,847	363,636
	1927	3	13	99	415		415	64,986	84,032	322,106	310,652	11,424	573,200	251,094
California.....	1929	23	78	390	1,024		1,024	235,326	659,386	1,596,341	1,581,760	14,581	3,264,452	1,098,111
	1927	17	90	336	624		624	272,699	607,578	1,569,866	1,557,673	12,193	2,813,811	1,243,945
	1919	14	50	243	425		425	101,132	292,352	768,509	759,396	9,208	1,543,026	774,517
Colorado.....	1929	7	13	42	122		122	31,791	33,905	158,886	156,388	2,548	360,345	201,459
	1927	6	13	35	106		106	31,707	42,603	171,372	164,700	6,582	345,909	174,537
	1919	5	27	44	59		59	81,580	38,999	189,512	187,811	1,701	446,808	257,366
Florida.....	1929	4	8	42	177	60	117	21,170	49,947	105,199	103,232	1,967	236,132	130,933
Georgia.....	1929	16	45	222	984	421	543	114,052	196,080	536,781	527,533	9,248	1,090,567	562,786
	1927	12	38	187	868	370	498	89,650	182,948	365,018	351,841	13,177	799,716	434,698
	1919	7	40	170	354	308	46	78,221	132,902	557,437	550,146	7,291	932,252	374,815
Illinois.....	1929	20	213	1,385	2,482	685	1,797	654,967	2,175,984	4,293,795	4,193,370	100,419	9,729,604	5,435,809
	1927	22	199	975	2,110	547	1,563	641,753	1,574,646	3,554,512	3,476,175	78,337	7,336,453	3,781,941
	1919	25	240	1,016	1,568	855	713	601,843	972,899	2,613,079	2,563,643	49,436	5,786,820	3,173,741
Indiana.....	1929	22	119	659	1,797	750	1,047	380,034	649,258	1,724,372	1,685,355	30,017	3,347,509	1,623,137
	1927	21	125	610	1,605	761	844	309,879	640,105	1,372,084	1,343,701	28,383	2,858,420	1,481,345
	1919	22	185	806	1,404	818	586	484,290	655,835	2,002,671	2,023,516	39,155	3,048,236	1,885,565
Iowa.....	1929	15	58	336	1,080	60	1,020	164,219	402,028	890,860	863,519	27,341	1,848,372	958,012
	1927	11	58	308	933	60	873	173,017	350,012	840,676	823,088	25,988	1,823,013	973,337
	1919	8	71	318	511	180	331	184,603	320,870	872,232	851,138	21,094	1,648,790	776,568
Kansas.....	1929	4	20	67	84		84	59,977	75,696	365,918	302,692	3,226	735,568	369,050
	1927	5	12	80	63		63	24,341	86,896	322,689	320,978	1,711	620,973	298,284
Kentucky.....	1929	7	38	172	679	77	602	98,309	198,176	332,003	319,941	12,062	918,334	586,331
Maine.....	1929	5	15	65	325	128	197	49,947	81,895	228,819	223,765	5,084	388,536	159,717
	1927	4	12	47	238	100	138	36,255	61,674	147,714	143,697	4,017	351,261	209,547
	1919	6	9	53	197	105	92	21,038	46,675	149,803	146,500	3,303	278,017	128,154
Massachusetts.....	1929	12	96	418	1,153	470	683	263,677	602,599	1,229,325	1,206,524	22,801	2,787,635	1,558,610
	1927	13	79	439	1,110	470	640	159,877	535,042	1,284,176	1,219,532	34,624	2,667,433	1,383,257
	1919	9	66	350	762	400	362	150,928	371,601	992,371	984,738	7,618	2,176,243	1,183,872
Michigan.....	1929	20	104	533	915	435	480	273,468	685,768	1,955,405	1,918,085	37,320	3,616,169	1,660,764
	1927	20	80	443	908	310	596	209,284	522,176	1,220,421	1,204,994	21,427	2,636,331	1,409,910
	1919	24	105	416	1,087	660	527	301,479	379,320	1,340,995	1,319,576	20,519	2,522,213	1,182,118
Minnesota.....	1929	8	43	156	608	308	295	132,761	187,177	636,346	626,097	10,249	1,322,969	636,623
	1927	5	39	162	355	296	89	104,600	173,968	453,656	443,707	9,949	1,084,373	630,717
	1919	7	63	247	245	168	80	221,244	235,640	662,008	653,112	8,986	1,593,240	931,142
Missouri.....	1929	22	98	542	1,979	781	1,198	322,082	618,940	1,796,720	1,769,610	27,104	3,674,342	1,877,622
	1927	16	88	474	1,293	905	388	152,125	568,612	929,071	912,668	16,403	3,040,652	2,111,481
	1919	16	163	608	1,196	728	468	389,239	617,759	1,784,118	1,766,024	18,064	3,263,190	1,469,072
Nebraska.....	1929	5	25	42	28		28	58,474	42,360	158,847	154,845	4,002	375,038	216,191
New Hampshire.....	1929	3	6	42	147		147	12,506	45,956	96,287	93,507	2,780	206,095	109,898
	1927	3	4	39	159		159	7,264	51,265	93,852	91,445	2,407	191,608	97,766
New Jersey.....	1929	8	10	143	349	155	194	42,176	176,122	318,804	306,201	12,603	735,418	410,614
	1927	7	25	119	245	125	120	50,422	199,356	333,568	324,241	9,327	782,046	449,078
	1919	12	11	107	215	153	62	17,288	124,806	270,128	264,009	6,117	543,433	273,307
New York.....	1929	35	223	1,468	3,779	897	2,882	788,233	2,094,715	4,416,149	4,307,151	108,998	11,051,284	6,635,135
	1927	32	231	1,479	4,001	875	3,126	783,718	1,925,665	4,255,725	4,120,095	9,884,006	5,628,281	
	1919	39	294	1,641	2,931	1,113	1,818	663,035	1,696,084	4,292,908	4,202,120	90,788	8,290,696	3,997,788
North Carolina.....	1929	9	41	211	850	450	400	143,438	222,487	637,681	627,427	10,164	1,435,502	797,921
	1927	6	44	199	642	360	282	181,218	218,160	655,699	640,170	9,523	1,350,014	694,315
	1919	11	57	252	424	236	188	204,962	286,054	778,814	762,610	11,304	1,631,732	857,918
Ohio.....	1929	35	256	1,755	6,150	1,340	4,310	761,942	2,433,646	6,401,949	6,257,535	144,414	14,796,953	8,395,004
	1927	26	302	1,621	4,214	1,465	2,749	709,146	1,978,380	4,343,281	4,202,154	141,127	11,309,544	6,066,263
	1919	20	214	1,148	1,983	1,392	591	384,297	1,182,364	2,839,769	2,784,435	65,324	6,474,900	3,635,141
Pennsylvania.....	1929	30	238	1,883	5,971	2,723	3,248	704,146	2,266,064	5,149,874	5,050,217	99,657	12,655,700	7,505,826
	1927	31	208	1,741	4,289	2,415	1,874	552,545	2,236,832	4,677,617	4,680,324	97,293	11,230,905	6,552,281
	1919	41	282	1,824	3,120	1,737	1,383	567,535	1,824,382	4,664,380	4,684,922	79,467	9,311,901	4,647,612
South Carolina.....	1929	4	12	115	327	195	132	24,030	82,594	173,187	168,612	4,575	377,170	203,962
	1927	3	10	65	255	180	75	22,130	49,237	86,012	81,602	4,410	226,257	140,245

See footnotes at end of table.

## CENSUS OF MANUFACTURES: 1929

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919—Continued

[See note at head of this table]

STATE	Census year	Number of establishments	Salaried officers and employees <sup>1</sup>	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
					Total	Prime movers	Motors run by purchased energy			Total	Materials and containers	Fuel and purchased energy		
Individual States—Con.														
Tennessee.....	1929	15	65	535	1,528	860	663	\$170,601	\$509,827	\$1,109,541	\$1,078,034	\$30,607	\$2,415,387	\$1,305,846
	1927	11	73	572	1,237	855	382	160,355	524,480	1,334,280	1,292,161	42,119	2,735,496	1,401,216
	1919	9	97	630	1,289	730	559	300,159	461,022	1,468,407	1,442,304	26,043	3,084,030	1,610,229
Texas.....	1929	14	53	308	1,157	640	517	171,615	347,114	1,032,654	1,016,137	16,517	1,934,176	901,522
	1927	10	54	264	1,019	690	329	160,301	286,688	842,223	834,608	7,715	1,605,373	763,350
	1919	5	53	294	731	650	81	146,495	291,813	722,402	721,022	1,380	1,470,386	747,984
Virginia.....	1929	8	20	83	451	451	451	62,120	106,165	241,117	234,058	6,159	549,184	308,067
	1927	5	17	55	386	125	261	40,620	75,270	202,513	197,042	4,871	373,259	170,746
	1919	6	23	86	244	140	104	49,775	93,076	230,386	227,332	3,054	455,132	224,746
Washington.....	1929	7	20	123	1,809	-----	1,809	71,282	148,513	294,569	286,537	8,032	644,366	349,797
	1927	5	12	79	112	-----	112	47,102	105,789	194,531	189,171	5,360	476,278	280,747
	1919	5	15	72	162	-----	162	41,787	61,426	249,672	245,142	4,530	453,019	203,347
West Virginia.....	1929	3	14	56	113	70	43	24,600	04,077	171,746	169,003	2,743	338,628	166,882
	1929	10	72	368	1,123	715	408	172,813	435,610	872,313	837,348	84,965	2,242,875	1,370,562
	1927	9	64	396	970	640	330	187,448	444,425	773,081	744,673	29,308	1,905,045	1,131,064
1919	8	98	503	1,112	743	369	239,699	420,721	1,062,004	1,030,350	26,714	2,663,135	1,601,071	
Groups of States:														
Conn., 3 est.; Md., 3.	1929	6	45	129	186	25	161	122,078	151,043	442,101	430,949	11,212	1,151,972	709,811
La., 3 est.; Miss., 2; Okla., 3	1929	8	48	253	608	325	283	158,580	238,046	786,127	776,453	9,674	1,581,708	795,581
N. Mex., 2 est.; Oreg., 3; Utah, 1	1929	6	13	118	529	-----	529	42,334	150,253	298,891	287,002	11,889	610,234	317,343
R. I., 1 est.; Vt., 2	1929	3	16	84	141	46	95	26,399	97,157	95,913	91,668	4,245	334,266	238,353
States not shown separately														
	1927	33	146	826	2,762	1,103	1,659	403,061	886,068	2,673,767	2,619,877	53,890	5,305,931	2,632,164
	1919	47	246	951	2,076	1,195	881	508,480	903,340	2,740,858	2,706,336	40,522	5,364,302	2,617,534

<sup>1</sup> Not including proprietors and firm members. The total numbers of persons engaged and the numbers of proprietors and firm members, as reported for this industry, are as follows: For 1929, total, 15,360; proprietors and firm members, 164. For 1927, total, 13,839; proprietors and firm members, 130. For 1919, total, 14,546; proprietors and firm members, 225.

<sup>2</sup> The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products.

<sup>3</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

<sup>4</sup> Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919 but not in the United States totals.

<sup>5</sup> Connecticut, 3 establishments; Florida, 3; Kentucky, 5; Louisiana, 4; Maryland, 2; Mississippi, 2; Nebraska, 2; Oklahoma, 1; Oregon, 3; Rhode Island, 1; Utah, 1; Vermont, 2; West Virginia, 4.

<sup>6</sup> Arkansas, 4 establishments; Connecticut, 4; Florida, 2; Kansas, 3; Kentucky, 4; Louisiana, 2; Maryland, 3; Mississippi, 2; Nebraska, 3; New Hampshire, 1; Oklahoma, 1; Oregon, 4; Rhode Island, 1; South Carolina, 3; Utah, 3; Vermont, 2; West Virginia, 5.

# CASKETS, COFFINS, ETC.

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**TABLE 3.—PRODUCTS, BY CLASS, KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1929 AND 1927**

[The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for 1927 represent production. See GENERAL EXPLANATIONS—Value of Products]

CLASS AND KIND	Census year	Total value	NUMBER AND VALUE REPORTED		Value only reported
			Number	Value	
1. "Caskets, coffins, burial cases, and other morticians' goods" industry, total value.....	1929 1927	\$88,281,872 74,890,850		\$69,411,649 43,931,674	\$18,870,223 30,959,170
2. Caskets, coffins, burial cases, and other morticians' goods.....	1929 1927	84,279,249 72,691,086		69,411,649 43,931,674	14,867,600 28,759,412
3. Other products (not normally belonging to the industry).....	1929 1927	4,002,623 2,199,764			4,002,623 2,199,764
4. Caskets, coffins, burial cases, and other morticians' goods made as secondary products in other industries.....	1929 1927	894,745 1,777,420			894,745 1,777,420
Caskets, coffins, burial cases, and other morticians' goods, all industries: Aggregate values (sum of 2 and 4).....	1929 1927	85,173,094 74,468,506		69,411,649 43,931,674	15,762,345 30,636,832
Caskets and coffins— Wooden, including metal-lined.....	1929 1927	45,395,672 43,400,941	1,230,611 808,801	42,267,497 29,083,555	3,128,175 14,323,386
Metal.....	1929 1927	17,038,784 10,417,881	176,814 60,545	16,874,422 7,661,284	164,362 2,756,597
Wooden shipping and outer cases <sup>1</sup> .....	1929 1927	4,723,657 4,176,139	583,565 436,948	4,657,204 3,698,672	60,453 577,567
Metal grave vaults and shipping cases.....	1929 1927	5,696,438 4,662,328	141,831 87,486	5,612,526 3,588,263	83,912 1,074,065
Garments.....	1929 1927	4,315,816 3,728,529			4,315,816 3,728,529
Embalming fluids.....	1929 1927	2,829,505 2,197,400			2,829,505 2,197,400
Morticians' supplies.....	1929 1927	3,775,155 3,392,509			3,775,155 3,392,509
Morticians' goods and supplies not reported by kind.....	1929 1927	1,398,967 2,486,779			1,398,967 2,486,779

<sup>1</sup> Figures include data for caskets and coffins other than wood and metal, as follows: Total value, \$188,988; number and value reported, 2,121 and \$82,579, respectively; value only reported, \$106,409.

<sup>2</sup> Separately reported; in some returns the value of shipping and outer cases was included with that of caskets and coffins.

**TABLE 4.—PRODUCTS, BY KIND AND VALUE, BY STATES: 1929**

[The figures refer to sales (shipments or deliveries) by manufacturers. See GENERAL EXPLANATIONS—Value of Products. Figures are given for each State which can be shown separately without disclosing data for individual establishments, and for the remaining States in groups]

STATES	Total	Wooden caskets and coffins (including metal-lined) and shipping and outer cases	Metal caskets and coffins and grave vaults and shipping cases	Other products <sup>2</sup>	STATES	Total	Wooden caskets and coffins (including metal-lined) and shipping and outer cases	Metal caskets and coffins and grave vaults and shipping cases	Other products
United States.....	\$88,281,872	\$50,119,329	\$22,735,222	\$15,427,321	Individual States—Continued.				
Individual States:					Ohio.....	\$14,796,953	\$3,506,919	\$8,233,406	\$3,056,568
Alabama.....	841,726	709,296		42,430	South Carolina.....	377,179			
Arkansas.....	667,847	614,056		53,791	Virginia.....	549,184	473,740	24,625	50,819
California.....	3,264,452	2,502,720	437,869	323,867	Washington.....	644,366	530,180	35,694	10,490
Florida.....	236,132	208,054		28,078	Wisconsin.....	2,242,875	1,620,959	373,048	342,868
Illinois.....	9,729,604	3,088,940	4,102,206	2,538,458	Groups of States:				
Indiana.....	3,347,509	2,420,243	521,665	405,601	Colo. and Kans.....	1,095,913	886,056	143,709	66,148
Iowa.....	1,848,872	1,379,335	431,028	37,909	Conn., La., Md., Miss., N. Mex., Okla., Oreg., and Utah.....	3,349,014	2,692,845	65,832	591,237
Kentucky.....	918,334	673,957		244,377	Ga. and Pa.....	13,755,267	7,429,764	4,629,572	1,695,931
Massachusetts.....	2,787,935	2,098,690	233,185	456,060	Me., N. J., and W. Va.....	1,462,882	1,232,636	44,202	185,754
Michigan.....	3,616,169	2,555,545	754,524	306,100	Minn. and Nebr.....	1,698,007	1,252,280	163,252	282,469
Missouri.....	3,674,342	1,959,041	1,061,463	653,849	N. C., Tenn., and Tex.....	5,785,065	4,419,993	350,847	1,014,225
New Hampshire.....	206,095	206,095			R. I. and Vt.....	334,266	286,117		48,149
New York.....	11,051,284	6,942,676	1,105,456	3,003,153					

<sup>1</sup> Figures do not include data for caskets, coffins, burial cases, and other morticians' goods made as secondary products in other industries.

<sup>2</sup> Garments, \$4,315,816; embalming fluids, \$2,829,505; morticians' supplies, \$3,775,155; other products and those not specified, \$4,506,845.

**TABLE 5.—CASKETS, COFFINS, BURIAL CASES, AND OTHER MORTICIANS' GOODS—CONSUMPTION OF LUMBER: 1929**

[The combined value of products of 260 establishments which reported the consumption of lumber in detail was 74.5 per cent of the total value of products for the industry as a whole. The remaining 154 establishments did not report the consumption of lumber in detail]

KIND	Quantity (M feet b. m.)	Cost
Lumber:		
Hardwood.....	63,446	\$3,071,887
Softwood.....	81,909	3,349,389

TABLE 6.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSEPOWER CAPACITY	
	Number	Capacity Horse-power	Number	Capacity Horse-power	Number	Capacity Horse-power	Number	Capacity Horse-power	Number	Capacity Horse-power	1929	1919
Prime movers and electric motors driven by purchased energy, aggregate.....	4,873	32,609	3,391	31,105	2,745	29,164	1,781	22,190	913	18,909	100.0	100.0
Prime movers, total.....	105	12,811	105	12,812	108	12,894	142	12,311	184	14,440	32.3	55.5
Steam, total.....	90	12,213	84	11,992	91	12,172	104	10,912	138	12,827	30.8	49.2
Engines.....	88	12,043	81	11,822	89	12,126	104	10,912	(1)	(1)	30.4	49.2
Turbines.....	2	170	3	170	2	46			(1)	(1)	0.4	
Internal-combustion engines.....	8	230	7	177	9	195	28	660	34	1,036	0.5	3.0
Water wheels and water turbines.....	7	378	14	643	8	527	10	739	12	577	1.0	3.3
Electric motors driven by purchased energy.....	4,768	26,798	3,286	18,293	2,640	16,270	1,639	9,879	729	4,529	67.7	44.5
Electric motors, total.....	5,725	32,241	4,382	26,605	3,831	25,150	2,094	13,872	1,090	7,889	100.0	100.0
Driven by purchased energy.....	4,708	26,798	3,286	18,293	2,640	16,270	1,639	9,879	729	4,529	83.1	71.2
Driven by energy generated in establishments reporting.....	958	5,443	1,096	8,312	1,191	8,880	455	3,993	351	3,360	16.9	28.8
Electric generators.....	44	Kilowatts 5,444 Kilowatt- hours	44	Kilo- watts 5,626	47	Kilo- watts 5,125	(1)	(1)	(1)	(1)		
Electric energy purchased <sup>1</sup> .....		14,776,994		(1)		(1)		(1)		(1)		

<sup>1</sup> Not called for separately on schedule.  
<sup>2</sup> Not called for on schedule.  
<sup>3</sup> This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.  
<sup>4</sup> Data incomplete.

TABLE 7.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, 1914, AND 1909, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by italic figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum		
		January	February	March	April	May	June	July	August	September	October	November	December			
United States:																
1929.....	13,033	13,655	13,918	13,540	13,164	12,880	12,613	<i>12,660</i>	12,600	12,715	12,815	12,929	13,008	13,008	90.2	
1925.....	11,479	11,509	11,480	11,543	11,402	11,312	<i>11,192</i>	11,307	11,380	11,633	11,625	11,583	11,785	11,785	95.0	
1919.....	11,890	12,061	12,378	12,507	12,298	12,037	<i>11,768</i>	11,467	11,494	11,599	11,768	11,703	11,610	11,610	91.7	
1914.....	9,468	9,674	9,703	9,718	9,691	9,576	9,487	9,345	9,360	9,288	9,320	<i>9,198</i>	9,256	9,256	94.6	
1909.....	9,339	9,421	9,524	9,584	9,476	9,421	9,263	<i>8,995</i>	9,113	9,275	9,328	9,368	9,394	9,394	93.1	
Alabama.....	194	202	203	199	199	189	189	189	188	193	193	195	194	194	92.6	
Arkansas.....	99	112	115	106	99	98	87	94	97	95	95	94	93	93	75.7	
California.....	390	409	411	395	399	376	384	375	387	384	382	389	400	400	91.2	
Colorado.....	42	44	45	43	42	42	39	40	41	39	40	41	43	43	86.7	
Florida.....	42	43	47	48	46	45	41	39	38	38	37	37	39	39	77.1	
Georgia.....	222	246	240	234	225	211	209	210	213	223	217	216	219	219	85.0	
Illinois.....	1,385	1,419	1,476	1,445	1,405	1,358	1,339	<i>1,322</i>	1,337	1,356	1,370	1,392	1,396	1,396	89.6	
Indiana.....	659	670	694	679	689	654	654	646	632	641	648	654	661	661	91.1	
Iowa.....	336	360	356	349	337	334	<i>311</i>	324	329	329	333	334	333	333	87.2	
Kansas.....	67	69	69	65	66	66	65	64	65	70	67	68	68	68	91.4	
Kentucky.....	172	178	178	178	175	171	169	168	168	168	169	173	173	173	94.4	
Maine.....	65	64	67	67	65	65	65	64	65	64	64	65	64	65	94.0	
Massachusetts.....	418	423	430	438	429	417	412	<i>409</i>	409	411	413	412	412	412	93.4	
Michigan.....	533	543	551	550	536	522	525	527	515	539	537	540	540	540	93.5	
Minnesota.....	156	168	167	162	159	156	154	153	152	149	150	153	153	153	88.7	
Missouri.....	542	568	589	568	548	537	533	531	528	526	525	525	530	530	89.1	
Nebraska.....	42	40	37	28	29	28	48	48	49	47	50	50	49	49	54.0	
New Hampshire.....	42	42	46	43	44	42	41	40	39	39	40	43	41	41	84.8	
New Jersey.....	143	144	144	144	<i>142</i>	143	143	143	143	143	143	143	143	143	98.6	
New York.....	1,463	1,503	1,541	1,635	1,502	1,479	1,400	<i>1,362</i>	1,410	1,422	1,454	1,471	1,481	1,481	88.4	
North Carolina.....	211	232	228	214	209	206	206	203	207	207	207	209	208	208	87.5	
Ohio.....	1,755	1,930	2,012	1,880	1,739	1,687	<i>1,633</i>	1,692	1,661	1,665	1,706	1,704	1,750	1,750	81.0	
Pennsylvania.....	1,883	1,957	1,978	1,945	1,899	1,885	1,847	<i>1,804</i>	1,814	1,845	1,857	1,880	1,883	1,883	91.2	
South Carolina.....	115	115	123	107	<i>105</i>	108	110	123	119	121	116	115	118	118	85.4	
Tennessee.....	535	564	549	557	531	517	<i>504</i>	512	511	524	546	567	540	540	88.9	
Texas.....	308	330	352	329	298	289	<i>282</i>	284	289	287	300	310	329	329	80.1	
Virginia.....	83	81	80	84	84	81	81	85	89	91	85	82	78	78	85.7	
Washington.....	123	102	103	108	158	149	140	143	137	131	94	91	119	119	59.5	
West Virginia.....	56	60	56	54	56	53	55	53	53	56	58	56	55	55	88.3	
Wisconsin.....	368	407	404	390	377	363	354	<i>350</i>	351	364	356	367	368	368	86.0	