

BUTTONS

Description of the industry.—The establishments in this industry are those whose principal products are buttons, parts of buttons, and button blanks and molds, regardless of kind of material of which made.

Duplication in cost of materials and value of products.—The item for value of products includes duplication amounting to \$2,439,922, representing the value of button blanks and molds and parts of buttons, backs, etc., made and sold as products by certain establishments and purchased and used as materials by other establishments in the industry; and the item for cost of materials, etc., includes approximately the same amount of duplication. (The amounts of duplication in the two items are not exactly the same, since some of the blanks, molds, etc., were made in one year and used as materials in the manufacture of complete buttons in the following year.)

TABLE 1.—SUMMARY FOR THE UNITED STATES, 1899 TO 1931, AND FOR STATES, 1931

[Data for establishments with products under \$5,000 in value are included for 1919 and prior years but not for 1921 and subsequent years. See sec. 3d, p. 4. Statistics are given for all States for which separate figures can be published without disclosing, exactly or approximately, the data reported by individual establishments. Certain of the "Other States," however, are more important in the industry than some of the States shown separately]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased electric energy ¹	Value of products ²	Value added by manufacture ³
<i>United States</i>						
1931.....	212	8, 224	\$6, 661, 117	\$8, 303, 222	\$21, 524, 572	\$13, 221, 350
1929.....	242	9, 034	8, 813, 927	11, 501, 401	28, 977, 919	17, 476, 518
1927.....	220	9, 642	9, 435, 821	11, 237, 579	29, 130, 168	17, 892, 589
1925.....	289	11, 513	10, 893, 176	12, 372, 646	32, 458, 435	20, 085, 789
1923.....	336	11, 860	11, 229, 008	13, 199, 582	32, 750, 190	19, 550, 608
1921.....	346	9, 686	8, 511, 449	10, 405, 511	26, 533, 891	16, 128, 380
1919.....	557	15, 577	13, 772, 599	16, 745, 357	41, 840, 459	25, 095, 102
1914.....	517	14, 511	6, 424, 399	8, 702, 200	20, 711, 979	12, 009, 779
1909.....	444	16, 427	6, 789, 177	9, 541, 291	22, 708, 065	13, 166, 774
1904.....	275	10, 567	3, 680, 196	4, 144, 446	11, 133, 769	6, 989, 323
1899.....	238	8, 685	2, 826, 238	2, 803, 246	7, 695, 910	4, 892, 664
Percent of increase or decrease (—):						
1929-31.....	-12.4	-9.0	-24.4	-27.8	-25.7	-24.3
1927-29.....	5.7	-6.3	-8.6	2.3	-0.5	-2.3
1925-27.....	-20.8	-16.3	-13.4	-9.2	-10.3	-10.9
1923-25.....	-14.0	-2.9	-3.0	-6.3	-0.9	2.7
1921-23.....	-2.9	22.4	31.9	26.9	23.4	21.2
1919-21.....	-37.9	-37.8	-38.2	-37.9	-36.6	-35.7
1921-31.....	-38.7	-15.1	-21.7	-20.2	-18.9	-18.0
1919-29.....	-56.6	-42.0	-36.0	-31.3	-30.7	-30.4
1917-29.....	25.5	-5.2	102.9	75.5	84.3	90.6
1906-19.....	85.6	89.1	140.2	240.4	195.1	169.1

See footnotes at end of table.

TABLE 1.—SUMMARY FOR THE UNITED STATES, 1899 TO 1931, AND FOR STATES, 1931—Continued

[See note at head of table]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased electric energy ¹	Value of products ²	Value added by manufacture ³
<i>States, 1931</i>						
Connecticut.....	11	699	\$678,385	\$780,318	\$2,170,396	\$1,390,078
Delaware.....	3	82	62,546	68,578	134,648	66,070
Illinois.....	8	223	130,287	117,588	275,462	157,874
Iowa.....	29	2,060	1,353,634	1,088,675	4,218,133	2,529,458
Massachusetts.....	7	109	108,040	94,096	270,558	176,462
Missouri.....	3	139	85,007	62,579	148,911	86,332
New Jersey.....	23	792	729,577	923,918	2,274,679	1,350,761
New York.....	90	2,252	2,133,254	2,981,873	7,633,459	4,651,686
Pennsylvania.....	8	370	268,561	422,569	977,163	554,594
Other States ⁴	30	1,492	1,111,826	1,163,028	3,421,163	2,253,135

¹ See "Duplication in cost of materials and value of products," p. 1091.² For 1929, manufacturers' sales (shipments or deliveries); for other years, production. See sec. 16, p. 9. See also "Duplication in cost of materials and value of products," p. 1091.³ Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 20, p. 11.⁴ Arkansas, 4 establishments; California, 1; Indiana, 3; Kentucky, 4; Maine, 1; Maryland, 3; Michigan, 5; Minnesota, 1; New Hampshire, 1; North Carolina, 2; Ohio, 1; Rhode Island, 1; Virginia, 1; Wisconsin, 2.

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1931, 1929, 1925, 1919, 1914, AND 1909, AND FOR STATES, 1931

[This table presents statistics for only those States for which figures can be given without disclosing, exactly or approximately, the 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. See sec. 13, p. 8.]

	Average number employed during year	NUMBER REPORTED FOR—											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<i>United States</i>													
1931.....	8,224	7,942	8,402	8,608	8,406	8,302	8,339	7,656	7,727	8,400	8,511	8,192	8,201
1929.....	9,034	9,338	9,481	9,261	9,069	8,992	8,691	8,330	8,597	8,333	9,166	9,261	9,386
1925.....	11,513	11,922	12,246	12,331	11,753	11,429	11,154	10,952	11,215	11,056	11,145	11,335	11,619
1919.....	15,877	14,839	15,051	14,878	14,594	14,659	15,049	15,663	16,238	15,886	16,333	16,876	16,869
1914.....	14,511	16,451	16,832	16,689	15,874	14,733	13,960	12,482	12,424	13,181	13,790	13,801	13,915
1909.....	16,427	16,362	16,042	16,356	16,281	16,320	16,400	15,965	16,022	16,478	17,108	17,149	17,641
<i>States, 1931</i>													
Connecticut.....	699	665	699	705	727	727	714	698	691	692	700	688	656
Delaware.....	82	88	86	89	89	83	82	83	81	83	75	80	66
Illinois.....	223	211	215	270	235	238	227	170	106	204	241	275	278
Iowa.....	2,066	2,042	2,191	2,136	2,098	2,037	2,065	1,963	2,014	2,045	2,070	2,046	2,083
Massachusetts.....	109	88	87	121	98	94	118	128	123	118	111	105	117
Missouri.....	139	147	140	127	117	109	118	127	146	163	167	118	188
New Jersey.....	792	779	796	859	847	877	855	837	710	703	807	683	690
New York.....	2,252	2,162	2,262	2,299	2,233	2,176	2,160	2,041	2,253	2,488	2,449	2,296	2,230
Pennsylvania.....	370	346	353	367	369	374	370	365	370	390	352	382	369

TABLE 3.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1925 TO 1931

[The figures for 1929 represent sales (shipments or deliveries) by manufacturers; those for other years refer to production. See sec. 16, p. 9. See also "Duplication in cost of materials and value of products," p. 1091]

	1931	1929	1927	1925
1. Button industry, all products, total value.....	\$21,524,572	\$28,977,019	\$29,130,168	\$32,458,435
2. Buttons, button blanks, parts, etc., made in the button industry.....	19,936,901	27,829,747	27,464,870	30,854,406
3. Other products (not normally belonging to the industry).....	1,587,671	1,148,172	1,665,298	1,604,029
4. Buttons, molds, etc., made as secondary products in other industries.....	253,431	582,830	273,124	286,457
Buttons, button blanks, parts, etc., all industries: Aggregate value (sum of 2 and 4).....	\$20,190,332	\$28,412,586	\$27,737,994	\$31,140,863
Buttons, total value.....	\$17,750,410	\$24,215,203	\$24,883,800	\$27,880,095
Pearl or shell, fresh water:				
Clothing:				
Gross.....		21,447,983	22,051,963	21,688,298
Value.....		\$6,894,792	\$7,940,798	\$7,611,824
Shoe:	\$18,023,787			
Gross.....	\$5,056,157	558,158	422,566	1,816,789
Value.....		\$241,770	\$133,049	\$875,505
Pearl or shell, ocean:				
Clothing:				
Gross.....		6,052,399	4,438,652	4,708,417
Value.....	\$15,144,334	\$5,251,894	\$3,829,594	\$3,594,332
Shoe: ²	\$3,376,086			
Gross.....		755,218	664,464	1,437,025
Value.....		\$459,139	\$518,856	\$885,995
Shoe, other than pearl or shell:				
Gross.....	(2)	669,710	1,020,960	2,473,039
Value.....	(2)	\$119,724	\$104,311	\$349,492
Clothing:				
Vegetable-ivory:				
Gross.....	5,112,860	6,825,036	9,215,306	11,692,988
Value.....	\$2,513,604	\$4,050,212	\$5,704,653	\$7,468,269
Pyroxylin:				
Gross.....	496,785	391,248	339,888	(2)
Value.....	\$1,207,716	\$1,182,859	\$1,031,075	\$1,322,790
Galalith (casein plastic):				
Gross.....	1,819,616	1,190,052	356,514	(2)
Value.....	\$1,083,425	\$714,590	\$397,706	\$275,918
Composition:				
Gross.....	4,835,730	6,084,188	(2)	7,337,774
Value.....	\$623,637	\$1,112,288	(2)	\$1,272,579
Glass:				
Gross.....		114,000	129,075	197,335
Value.....		\$83,745	\$120,459	\$171,490
Metal:				
Embossed:				
Gross.....	1,835,880	2,843,427		
Value.....	\$703,456	\$1,209,856		
Other:				
Gross.....	4,011,970	4,923,835	6,356,426	6,105,103
Value.....	\$880,512	\$1,070,375	\$2,292,927	\$1,734,638
Covered: ⁴				
Gross.....	1,460,862	1,183,439	716,625	1,685,292
Value.....	\$863,449	\$759,339	\$559,414	\$916,614
Horn:				
Gross.....		1,228,144	1,798,573	1,921,661
Value.....		\$228,493	\$537,741	\$597,816
Other buttons: ⁴	\$6,757,085			
Gross.....	\$1,462,368	4,028,790	11,842,985	4,274,985
Value.....		\$836,127	\$1,623,217	\$802,837
Button blanks and molds:				
For sale as such:				
Gross.....	4,592,164	8,005,227	(2)	(2)
Value.....	\$734,133	\$1,863,641	\$611,770	\$920,637
Transferred to finishing plants under same ownership:				
Gross.....	7,561,759	7,194,611	(2)	(2)
Value.....	\$1,511,540	\$2,108,011	\$2,226,502	\$2,261,262
Value.....	\$194,249	\$225,731	\$15,922	\$78,869
Parts of buttons, backs, etc., for sale as such, value.....				

¹ The 1931 figures for these 2 classes of buttons are combined to avoid disclosing approximations of the output of individual establishments.

² Included in item for "Other buttons" to avoid disclosing output of individual establishments.

³ Data incomplete.

⁴ Covered buttons made for sale as such to the trade, not buttons covered to individual order.

⁵ Bone clothing buttons; other clothing buttons not specified; shoe buttons not specified; other buttons not reported by kind.

CARBON PAPER AND INKED RIBBONS

[A preliminary report for this industry was issued under date of June 28, 1932]

Description of the industry.—This industry embraces establishments engaged primarily in the manufacture of carbon paper for typewriters, sales books, etc., and of inked ribbons for typewriters, adding machines, cash registers, etc.

Statistics for earlier years.—At censuses prior to that for 1929 the manufacture of carbon paper and inked ribbons was treated as a part of the Typewriters and Supplies industry. A special tabulation of the data reported by establishments engaged primarily in this line of manufacture in 1927 was made, however, and the results are presented in tables 1 and 3 of this report. No comparable figures for earlier years are available.

TABLE 1.—SUMMARY FOR THE UNITED STATES, 1931, 1929, AND 1927, AND FOR STATES, 1931

[Statistics are given for all States for which separate figures can be published without disclosing, exactly or approximately, the data reported by individual establishments. Certain of the "Other States," however, are more important in the industry than two of the States shown separately]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²
<i>United States</i>						
1931.....	54	1, 198	\$1, 462, 688	\$6, 033, 738	\$13, 475, 518	\$7, 441, 760
1929.....	57	1, 251	1, 702, 358	7, 990, 753	17, 295, 140	9, 304, 387
1927.....	49	1, 078	1, 514, 230	6, 019, 758	13, 793, 128	7, 773, 370
Percent of increase or decrease (—):						
1929-31.....	(³)	-4. 2	-14. 1	-24. 5	-22. 1	-20. 0
1927-29.....	(³)	16. 0	12. 4	32. 7	25. 4	19. 7
<i>States, 1931</i>						
California.....	4	21	\$25, 566	\$77, 955	\$162, 234	\$84, 279
New York.....	22	490	691, 116	2, 992, 404	6, 193, 659	3, 201, 255
Pennsylvania.....	6	41	45, 455	180, 432	350, 999	190, 587
Other States ⁴	22	646	700, 551	2, 802, 947	6, 768, 626	3, 965, 679

¹ For 1929, manufacturers' sales (shipments or deliveries); for other years, production. See sec. 16, p. 9.

² Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 20, p. 11.

³ Percent not computed where base is less than 100.

⁴ Colorado, 1 establishment; Connecticut, 1; Illinois, 8; Iowa, 1; Massachusetts, 3; New Jersey, 4; Ohio, 3; Oregon, 1.

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1931 AND 1929, AND FOR STATES, 1931

[This table presents statistics for only those States for which figures can be given without disclosing, exactly or approximately, the 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. See sec. 13, p. 8]

	Average number employed during year	NUMBER REPORTED FOR—											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<i>United States</i>													
1931.....	1, 198	1, 215	1, 229	1, 232	1, 224	1, 204	1, 193	1, 192	1, 177	1, 161	1, 170	1, 186	1, 190
1929.....	1, 251	<i>1, 229</i>	1, 254	1, 260	1, 250	1, 254	1, 256	1, 242	1, 239	1, 242	1, 260	1, 264	1, 284
<i>States, 1931</i>													
California.....	21	<i>20</i>	21	21	21	21	21	21	21	21	21	21	21
New York.....	490	489	503	503	502	498	492	477	479	<i>476</i>	480	492	493
Pennsylvania.....	41	48	43	43	43	39	39	38	38	39	40	40	40

TABLE 3.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1931, 1929, AND 1927

[The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for other years represent production. See sec. 15, p. 9]

KIND	1931	1929	1927
1. Carbon Paper and Inked Ribbons industry, all products, total value.....	\$13, 475, 518	\$17, 295, 140	\$13, 793, 128
2. Carbon paper and inked ribbons.....	13, 091, 151	16, 406, 911	12, 814, 684
3. Other products (not normally belonging to the industry).....	378, 197	888, 229	978, 444
4. Receipts for contract work.....	6, 170		
5. Carbon paper, etc., made as secondary products in other industries.....	1, 443, 477	374, 541	719, 183
Carbon paper and inked ribbons, all industries: Aggregate value (sum of 2 and 5).....	14, 534, 628	16, 781, 452	13, 533, 867
Carbon paper.....	8, 415, 048	10, 157, 384	7, 946, 684
Typewriter ribbons.....	4, 566, 733	5, 471, 363	
Other inked ribbons.....	1, 552, 847	1, 152, 705	

COMBS AND HAIRPINS, NOT MADE FROM METAL OR RUBBER

Description of the industry.—The establishments classified in this industry manufacture, as their principal products, combs, hairpins, barrettes, hair ornaments, comb mountings, etc., made from bone, horn, tortoise shell, celluloid, ivory, and other materials except metal and rubber.

SUMMARY FOR THE UNITED STATES, 1899 TO 1931, AND FOR STATES, 1931

[Data for establishments with products under \$5,000 in value are included for 1919 and prior years but not for 1921 and subsequent years. See sec. 3d, p. 4. Statistics are given for all States for which separate figures can be published without disclosing, exactly or approximately, the data reported by individual establishments]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²
<i>United States</i>						
1931.....	23	653	\$571, 112	\$837, 101	\$1, 916, 041	\$1, 079, 540
1929.....	24	656	640, 857	1, 006, 824	2, 452, 419	1, 475, 595
1927.....	36	1, 259	1, 249, 084	1, 873, 003	4, 436, 656	2, 563, 053
1925.....	44	1, 300	1, 292, 923	2, 333, 755	5, 270, 208	2, 936, 453
1923.....	42	2, 144	2, 266, 594	4, 583, 022	8, 770, 153	4, 187, 134
1921.....	38	1, 321	1, 276, 799	2, 172, 287	4, 580, 368	2, 468, 081
1919.....	45	2, 229	1, 809, 453	3, 168, 818	6, 566, 365	3, 397, 547
1914.....	66	2, 773	1, 393, 369	2, 852, 823	5, 478, 196	2, 925, 373
1909.....	81	4, 555	2, 165, 529	3, 974, 613	8, 375, 932	4, 401, 319
1904.....	42	1, 806	757, 657	1, 329, 627	2, 769, 380	1, 430, 743
1899.....	34	1, 399	572, 467	951, 514	1, 976, 129	1, 024, 615
Percent of increase or decrease (—):						
1929-31.....	(³)	-0.5	-10.9	-16.9	-22.8	-26.8
1927-29.....	(³)	-47.9	-48.7	-46.2	-44.0	-42.4
1925-27.....	(³)	-3.2	-3.4	-19.7	-15.8	-12.7
1923-25.....	(³)	-39.4	-43.0	-49.1	-39.9	-20.9
1921-23.....	(³)	62.3	77.5	111.0	91.5	73.0
1919-21.....	(³)	-40.7	-29.4	-31.4	-30.2	-20.1
1921-31.....	(³)	-50.6	-55.3	-61.5	-58.2	-65.2
1919-29.....	(³)	-70.6	-64.6	-68.2	-62.2	-60.6
1909-19.....	(³)	-51.1	-16.4	-20.3	-21.6	-22.8
1899-1909.....	(³)	225.6	278.3	317.7	323.9	329.6
<i>States, 1931</i>						
Massachusetts.....	14	580	\$499, 858	\$652, 028	\$1, 551, 659	\$699, 631
New Jersey.....	3	42	40, 581	82, 444	164, 057	81, 613
Other States ⁴	6	31	30, 673	102, 629	200, 925	98, 296

¹ For 1929, manufacturers' sales (shipments or deliveries); for other years, production. See sec. 16, p. 4.

² Includes values of miscellaneous products, not normally belonging to this industry, made as secondary products by establishments engaged primarily in the manufacture of combs and hairpins, as follows: For 1931, \$138,958; 1929, \$195,213; 1927, \$631,197; 1925, \$492,699; corresponding amounts for earlier years not available. Does not include following values of combs and hairpins, not made from metal or rubber, reported by establishments engaged primarily in other lines of manufacture: For 1931, \$101,949; 1929, \$653,476; 1927, \$36,610; 1925, \$134,704; 1923, \$348,313; corresponding amounts for earlier years not available.

³ Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 20, p. 11.

⁴ Percent not computed where base is less than 100.

⁵ Illinois, 2 establishments; New York, 3; Ohio, 1.

DENTISTS' SUPPLIES AND EQUIPMENT, EXCEPT INSTRUMENTS

[A preliminary report for this industry was issued under date of July 19, 1932]

Description of the industry.—The establishments classified in this industry are engaged primarily in the manufacture of such products as dental gold and alloys, artificial teeth, cements and filling materials, and equipment for use in dentists' offices. (Dental instruments are classified in the Professional and Scientific Instruments industry.)

TABLE 1.—SUMMARY FOR THE UNITED STATES, 1931, 1929, AND 1927, AND FOR STATES, 1931

[Data for establishments with products under \$5,000 in value are included for 1919 and prior years but not for 1921 and subsequent years. See sec. 3d, p. 4. Statistics are given for all States for which separate figures can be published without disclosing, exactly or approximately, the data reported by individual establishments. Certain of the "Other States," however, are more important in the industry than some of the States shown separately]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ¹
<i>United States</i>						
1931.....	84	3,874	\$3,948,762	\$9,362,441	\$24,005,221	\$14,642,780
1929.....	87	4,559	5,359,432	17,326,748	35,180,165	17,853,417
1927 ²	97	3,759	3,941,289	18,188,584	32,348,979	14,160,395
Percent of increase or decrease (—):						
1929-31.....	(4)	-15.0	-26.3	-46.0	-31.8	-18.0
1927-29.....	(4)	21.3	36.0	-4.7	8.8	26.1
<i>States, 1931</i>						
Colorado.....	3	31	\$56,499	\$58,465	\$137,746	\$79,281
Illinois.....	10	106	111,929	217,742	481,622	263,880
Massachusetts.....	5	85	77,036	238,956	470,814	231,828
Minnesota.....	3	23	32,642	517,547	683,908	166,361
Missouri.....	5	12	16,226	201,059	280,945	79,886
New York.....	24	1,378	1,579,401	4,873,614	10,571,549	5,697,935
Ohio.....	6	349	348,101	584,088	1,768,786	1,184,698
Pennsylvania.....	15	1,662	1,485,258	1,226,600	6,647,028	5,420,428
Other States ³	13	228	241,670	1,444,340	2,962,823	1,518,483

¹ For 1929, manufacturers' sales (shipments or deliveries); for other years, production. See sec. 16, p. 9.

² Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 20, p. 11.

³ No comparable figures can be given for years prior to 1927.

⁴ Percent not computed where base is less than 100.

⁵ California, 2 establishments; Connecticut, 2; Delaware, 1; Kentucky, 1; Michigan, 2; New Jersey, 2; Oregon, 1; Rhode Island, 1; and Texas, 1.

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1931 AND 1929, AND FOR STATES, 1931

[This table presents statistics for only those States for which figures can be given without disclosing, exactly or approximately, 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. See sec. 13, p. 8.]

	Average number employed during year	NUMBER REPORTED FOR—											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<i>United States</i>													
1931.....	3,874	4,112	4,111	4,090	4,062	3,880	3,851	3,822	3,807	3,788	3,684	3,680	3,633
1929 ¹	4,550	4,310	4,329	4,462	4,490	4,515	4,633	4,740	4,728	4,581	4,666	4,642	4,510
<i>States, 1931</i>													
Colorado.....	31	31	31	31	31	31	31	31	31	31	31	31	31
Illinois.....	106	108	107	109	107	107	105	106	105	105	103	105	107
Massachusetts.....	85	91	89	92	93	89	90	90	70	81	88	76	70
Minnesota.....	23	24	24	24	24	24	24	24	22	23	21	21	21
Missouri.....	12	13	12	12	12	11	12	13	13	12	13	12	11
New York.....	1,378	1,510	1,498	1,481	1,461	1,387	1,383	1,362	1,364	1,325	1,271	1,249	1,247
Ohio.....	349	353	363	363	366	346	347	329	345	341	343	337	347
Pennsylvania.....	1,662	1,755	1,759	1,742	1,732	1,657	1,623	1,628	1,613	1,625	1,611	1,605	1,557

¹ No figures for wage earners by months can be given for years prior to 1929.

TABLE 3.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1931, 1929, AND 1927

[The figures for 1931 and 1927 represent production; those for 1929 refer to sales (shipments or deliveries) by manufacturers. See sec. 16, p. 9.]

KIND	1931	1929	1927 ¹
1. Dentists' Supplies and Equipment industry, all products, total value.....	\$24,005,221	\$35,180,165	\$32,348,979
2. Dentists' supplies and equipment.....	23,329,070	32,507,032	28,162,200
3. Other products (not normally belonging to the industry).....	331,546	2,650,567	4,160,779
4. Receipts for custom and contract work.....	344,605	22,566	
5. Dentists' supplies and equipment made as secondary products in other industries.....	551,799	522,285	370,880
Dentists' supplies and equipment, all industries, aggregate value (sum of 2 and 5).....	23,880,869	33,029,317	28,542,080
Dental gold ²	7,161,011	12,287,031	13,166,683
Teeth.....	6,267,673	6,692,838	7,636,319
Dental alloys and amalgams.....	1,109,311	1,318,054	7,730,078
Dental cements and fillings.....	555,636	736,211	
Burrs, drills, broaches, and similar products.....	634,645	797,563	
Rubber, waxes, and compounds.....	1,057,977	474,921	
Dental chairs.....	899,359	1,177,073	
Equipment units.....	2,035,811	2,668,740	
Other dental goods.....	4,159,446	6,876,286	

¹ Revised.

² Dental gold is made to some extent in the "Gold, Silver, and Platinum, Refining and Alloying" industry, but the amount of this production is not separately reported.

FEATHERS, PLUMES, AND MANUFACTURES THEREOF

Description of the industry.—The establishments in this industry are engaged in the preparation of plumes and the manufacture of fancy articles made principally from feathers, plumes, and quills, and in curling, dyeing, and renovating ostrich and other feathers.

SUMMARY FOR THE UNITED STATES, 1909 TO 1931, AND FOR NEW YORK, 1931

[Data for establishments with products under \$5,000 in value are included for 1919 and prior years but not for 1921 and subsequent years. See sec. 3d, p. 4. New York is the only State for which separate figures can be published without disclosing the data reported by individual establishments]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²
<i>United States</i>						
1931.....	53	527	\$559,053	\$538,029	\$1,897,656	\$1,309,627
1929.....	39	257	309,693	386,356	1,141,418	755,062
1927.....	38	322	296,683	534,149	1,435,441	904,292
1925.....	70	888	976,394	1,850,708	4,179,063	2,295,355
1923.....	131	1,712	1,968,327	3,399,735	7,866,492	4,466,757
1921.....	135	2,064	2,145,013	4,298,325	8,886,540	4,588,215
1919.....	216	3,504	3,405,765	6,694,596	15,377,953	8,683,357
1914.....	239	4,483	1,988,004	6,102,515	11,450,521	5,348,006
1909.....	187	5,181	2,233,518	9,009,740	14,939,120	5,929,380
Percent of increase or decrease(—):						
1929-31.....	(^c)	105.1	80.5	52.2	66.3	73.4
1927-29.....	(^c)	-20.2	-21.9	-27.7	-20.6	-16.5
1925-27.....	(^c)	-63.7	-59.4	-71.6	-65.6	-60.7
1923-25.....	-46.6	-48.1	-50.4	-44.7	-46.9	-48.5
1921-23.....	-3.0	-17.1	-8.2	-20.9	-11.5	-2.6
1919-21.....	-37.5	-41.1	-37.0	-35.8	-42.2	-47.2
1921-31.....	-60.7	-74.5	-73.9	-86.3	-78.6	-71.5
1919-29.....	-81.9	-92.7	-90.9	-94.2	-92.6	-91.3
1909-19.....	15.5	-32.4	52.5	-25.7	2.9	46.4
<i>States, 1931</i>						
New York.....	49	500	\$531,737	\$555,221	\$1,807,953	\$1,252,732
Other States.....	4	27	27,316	32,808	89,703	56,895

¹ For 1929, manufacturers' sales (shipments or deliveries); for other years, production. See sec. 16, p. 9.
² Includes values of miscellaneous products, normally belonging to other industries, made as secondary products by establishments classified in this industry, as follows: For 1931, \$72,116; 1925, \$139,138. Corresponding amounts for 1929, 1927, 1923, and earlier years not available. Does not include following values of feathers, plumes, and manufactures thereof, reported by establishments engaged primarily in other lines of manufacture: For 1931, \$159,669; 1929, \$48,335; 1927, \$48,500; 1925, \$279,515; 1923, \$652,194; 1921, \$661,713; 1919, \$986,246.

³ Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 20, p. 11.
⁴ No comparable figures for prior years.
⁵ Percent not computed where base is less than 100.
⁶ California, 2 establishments; Illinois, 2.

FOUNDRY SUPPLIES

Description of the industry.—This industry classification embraces establishments engaged primarily in the manufacture of foundry facings, cement for castings, core oils and compounds, chaplets, wax, flux, "parting" composition, flasks, sieves, pipe blacking, and plum-bago. Facings and supplies made by foundries for their own use are not, as a rule, reported separately, and therefore are not covered by the statistics for this industry.

SUMMARY FOR THE UNITED STATES, 1899 TO 1931, AND FOR STATES, 1931

[Data for establishments with products under \$5,000 in value are included for 1919 and prior years but not for 1921 and subsequent years. See sec. 3d, p. 4. Statistics are given for all States for which separate figures can be published without disclosing, exactly or approximately, the data reported by individual establishments. One of the "Other States," however, is more important in the industry than New York.]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased electric energy	Value of products ^{1, 2}	Value added by manufacture ³
<i>United States</i>						
1931.....	52	428	\$491,502	\$2,080,108	\$3,998,401	\$1,918,293
1929.....	59	853	1,255,801	5,534,548	10,458,589	4,924,041
1927.....	65	941	1,200,141	6,589,050	11,635,060	5,056,010
1925.....	66	1,087	1,360,219	6,903,678	12,723,120	5,819,442
1923.....	64	906	1,162,668	4,822,011	10,247,864	5,425,253
1921.....	50	567	676,241	2,775,014	4,965,678	2,180,664
1919.....	76	906	1,032,029	5,667,236	9,954,676	4,287,440
1914.....	57	555	300,775	997,315	2,012,896	1,015,581
1909.....	49	404	270,201	1,271,880	2,297,690	1,025,861
1904.....	34	315	156,401	624,812	1,658,834	434,022
1899.....	30	278	135,877	628,160	1,128,856	500,096
Percent of increase or decrease (—):						
1929-31.....	(9)	-49.8	-60.9	-62.4	-61.8	-61.0
1927-29.....	(9)	-9.4	4.6	-15.4	-10.1	-3.4
1925-27.....	(9)	-13.4	-11.8	-5.3	-8.6	-12.4
1923-25.....	(9)	12.5	17.1	43.2	24.2	7.3
1921-23.....	(9)	70.4	71.8	73.8	106.4	147.7
1919-21.....	(9)	-37.4	-34.5	-51.0	-50.1	-48.9
1921-31.....	(9)	-24.5	-27.3	-25.0	-19.5	-12.4
1919-29.....	(9)	-5.9	21.7	-2.3	5.1	14.8
1909-19.....	(9)	95.3	273.7	345.6	333.2	318.0
1899-1909.....	(9)	66.9	103.3	102.5	103.5	104.9
<i>States, 1931</i>						
Alabama.....	3	15	\$15,317	\$33,627	\$65,645	\$32,018
Illinois.....	10	88	112,737	524,513	1,008,308	453,795
Michigan.....	4	79	100,246	369,929	632,324	312,395
New York.....	3	11	10,783	17,945	46,207	28,262
Ohio.....	13	109	115,633	712,300	1,206,253	493,953
Pennsylvania.....	12	108	118,414	358,648	844,174	485,526
Other States ⁴	7	18	18,372	63,146	145,490	82,344

¹ For 1929, manufacturers' sales (shipments or deliveries); for other years, production. See sec. 16, p. 9.

² Includes miscellaneous receipts and values of products not normally belonging to this industry, such as secondary products by establishments engaged primarily in the manufacture of foundry supplies, as follows: 1931, \$288,728; 1929, \$662,017; 1927, \$1,532,296; 1925, \$1,375,466; corresponding amounts for earlier years not available. Does not include following values of foundry supplies made as secondary products by establishments classified in other industries: 1931, \$1,423,019; 1929, \$2,370,963; 1927, \$1,215,294; 1925, \$1,080,801; 1923, \$1,501,894; 1921, \$541,145; 1919, \$209,580.

³ Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 20, p. 11.

⁴ Percent not computed where base is less than 100.

⁵ Connecticut, 2 establishments; Indiana, 1; Massachusetts, 1; Missouri, 1; New Jersey, 1; Wisconsin, 1.

FUR GOODS

[A preliminary report for this industry was issued under date of Dec. 29, 1932]

Description of the industry.—The establishments classified in this industry are those whose principal products are 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; and fur robes.

TABLE 1.—SUMMARY FOR THE UNITED STATES, 1899–1931, AND FOR STATES, 1931

[Data for establishments with products under \$5,000 in value are included for 1919 and prior years but not for 1921 and subsequent years. See sec. 3d, p. 4. Statistics are given for all States for which separate figures can be published without disclosing, exactly or approximately, the data reported by individual establishments. Certain of the "Other States," however, are more important in the industry than some of the States shown separately]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²
<i>United States</i>						
1931.....	2,354	12,358	\$24,792,600	\$102,634,150	\$164,749,401	\$62,115,251
1929.....	2,855	15,752	33,329,965	176,106,910	277,592,752	101,485,842
1927.....	2,756	10,040	37,670,610	195,322,938	299,615,047	104,292,059
1925.....	2,000	16,556	35,164,292	159,315,693	254,265,708	94,950,015
1923.....	1,758	14,439	27,923,042	126,162,143	198,042,571	71,880,428
1921.....	1,707	12,052	22,421,193	84,536,855	139,365,929	54,829,074
1919.....	1,815	13,639	24,149,212	105,596,605	173,137,739	67,541,134
1914.....	1,322	9,030	6,334,661	23,847,402	43,632,693	19,785,291
1909.....	1,241	11,927	7,787,845	31,776,905	55,937,549	24,160,644
1904.....	867	9,370	5,122,782	21,201,541	37,118,629	15,917,088
1899.....	734	7,758	3,927,214	14,281,092	25,899,192	11,618,100
Percent of increase or decrease (—):						
1929-31.....	-17.5	-21.5	-25.6	-41.7	-40.7	-38.8
1927-29.....	3.6	-5.3	-11.5	-9.8	-7.4	-2.7
1925-27.....	37.8	0.5	7.1	22.6	17.8	9.8
1923-25.....	13.8	14.7	25.9	26.3	28.4	32.1
1921-23.....	3.0	19.8	24.5	49.2	42.1	31.1
1919-21.....	-6.0	-11.6	-7.2	-19.9	-19.5	-18.8
1921-31.....	37.9	2.5	19.6	21.4	18.2	13.3
1919-29.....	57.3	15.5	38.0	66.8	60.3	50.3
1909-19.....	46.3	14.4	210.1	232.3	209.5	179.6
1899-1909.....	69.1	53.7	98.3	122.5	116.0	108.0
<i>States, 1931</i>						
California.....	60	244	\$398,215	\$930,272	\$1,976,513	\$1,046,241
Connecticut.....	9	48	73,267	143,761	285,185	141,424
District of Columbia.....	6	30	58,010	253,611	459,144	265,533
Illinois.....	186	671	1,281,377	3,583,152	6,737,866	3,154,714
Indiana.....	8	56	65,153	152,163	271,962	119,799
Iowa.....	18	164	190,084	320,829	775,438	454,609
Maine.....	6	32	46,657	58,706	129,636	70,930
Maryland.....	19	71	74,802	170,281	374,036	203,755
Massachusetts.....	27	178	330,592	691,137	1,326,136	634,999
Michigan.....	30	301	410,245	660,361	1,400,495	740,134
Minnesota.....	46	464	615,823	1,329,167	2,614,480	1,285,313
Missouri.....	24	257	378,403	547,372	1,160,360	612,988
New Jersey.....	13	94	153,470	449,228	780,320	331,092
New York.....	1,695	8,738	19,197,038	90,098,917	140,094,303	49,995,386
Ohio.....	31	147	232,600	597,358	1,053,547	456,189
Oregon.....	7	20	29,423	37,844	98,942	61,098
Pennsylvania.....	101	319	550,206	1,446,367	2,693,301	1,247,434
Washington.....	18	132	177,645	267,247	588,365	321,118
Wisconsin.....	33	232	284,075	589,337	1,222,978	633,641
Other States ³	17	160	219,515	307,040	705,894	398,854

¹ For 1929, manufacturers' sales (shipments or deliveries); for other years, production. See sec. 16, p. 9.

² Value of products less cost of materials, fuel, and purchased electric energy. See sec. 20, p. 11.

³ Colorado, 2; Delaware, 1; Georgia, 1; Kentucky, 1; Louisiana, 2; Montana, 1; Nebraska, 3; North Dakota, 2; Oklahoma, 1; Rhode Island, 1; Tennessee, 1; Utah, 1

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1931, 1929, 1925, 1919, 1914, AND 1909, AND FOR STATES, 1931

(This table presents statistics for only those States for which figures can be given without disclosing, exactly or approximately, 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. See sec. 13, p. 8.)

	Average number employed during year	NUMBER REPORTED FOR—											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<i>United States</i>													
1931.....	12, 358	<i>9, 613</i>	9, 993	10, 231	10, 609	11, 313	12, 259	14, 004	14, 905	15, 625	15, 009	13, 666	11, 069
1929.....	15, 752	<i>12, 051</i>	12, 315	12, 853	13, 558	14, 660	16, 124	17, 614	18, 616	19, 427	18, 440	17, 581	14, 785
1925.....	16, 556	<i>13, 054</i>	<i>12, 971</i>	14, 022	14, 676	15, 503	16, 308	17, 245	18, 419	19, 374	19, 963	19, 785	17, 347
1919.....	13, 639	<i>10, 447</i>	11, 358	12, 419	12, 170	12, 475	13, 500	14, 031	14, 899	15, 366	15, 774	15, 826	15, 203
1914.....	9, 030	<i>7, 487</i>	<i>7, 069</i>	7, 203	7, 217	7, 332	8, 020	8, 634	9, 348	10, 829	11, 671	11, 957	11, 591
1909.....	11, 927	<i>9, 747</i>	<i>9, 454</i>	9, 588	9, 866	10, 415	10, 975	11, 673	12, 797	14, 165	14, 987	15, 202	14, 220
<i>States, 1931</i>													
California.....	244	231	231	223	204	187	<i>186</i>	210	275	320	308	286	271
Connecticut.....	48	39	32	<i>31</i>	34	40	48	47	49	55	64	65	63
Dist. of Columbia.....	30	29	25	<i>24</i>	25	31	32	34	30	34	30	35	32
Illinois.....	671	619	469	<i>464</i>	503	559	629	674	779	876	934	907	740
Indiana.....	56	53	<i>46</i>	47	53	53	55	49	49	60	71	<i>73</i>	57
Iowa.....	164	156	<i>142</i>	143	<i>142</i>	152	163	169	176	181	187	<i>191</i>	163
Maine.....	32	28	<i>27</i>	<i>27</i>	27	30	32	34	36	36	37	<i>37</i>	57
Maryland.....	71	68	55	<i>53</i>	55	59	60	64	75	86	96	<i>96</i>	90
Massachusetts.....	178	172	155	<i>155</i>	150	176	181	183	185	209	202	208	194
Michigan.....	301	243	219	<i>195</i>	207	250	305	317	368	393	414	372	329
Minnesota.....	464	327	<i>304</i>	327	406	483	513	540	572	582	572	532	405
Missouri.....	257	216	<i>190</i>	199	205	237	249	259	282	298	318	<i>326</i>	302
New Jersey.....	94	40	37	<i>32</i>	44	94	122	110	129	164	117	122	165
New York.....	8, 738	<i>6, 605</i>	7, 245	<i>7, 544</i>	7, 738	8, 076	8, 716	10, 308	10, 831	11, 135	10, 394	9, 142	7, 125
Ohio.....	147	121	<i>109</i>	<i>109</i>	116	123	140	157	169	177	187	<i>188</i>	169
Oregon.....	20	18	16	<i>12</i>	<i>12</i>	18	21	21	24	30	27	<i>23</i>	21
Pennsylvania.....	319	280	264	<i>252</i>	259	255	272	281	304	374	424	<i>449</i>	411
Washington.....	132	118	<i>98</i>	99	104	120	135	132	151	178	174	147	122
Wisconsin.....	232	200	189	<i>185</i>	191	212	230	238	257	273	276	280	258

TABLE 3.—FUR GOODS—PRODUCTION, BY KIND AND VALUE, FOR THE UNITED STATES AND FOR SELECTED STATES: 1931

[This table gives statistics for each State (a) for which it is possible to publish separate figures without disclosing, exactly or approximately, the output of individual establishments, and (b) which contributed at least 2 percent of the total value of the specified class of products. Certain of the "Other States," however, reported larger values of the specified classes of products than some of the States for which separate figures are given]

KIND AND STATE	Value	
	1931	1929
1. Fur-goods industry, all products, total value.....	\$164,749,401	\$277,592,752
2. Fur goods.....	162,518,323	272,957,417
3. Other products (not normally belonging to the industry).....	424,189	1,424,415
4. Receipts for contract work.....	1,806,889	3,210,920
5. Fur goods made as secondary products in other industries.....	615,606	173,342
Fur goods, all industries:		
Aggregate value (sum of 2 and 5).....	163,133,929	273,130,769
Fur and fur-lined coats and overcoats, total.....	73,936,376	133,839,470
Illinois.....	3,008,375	(1)
Minnesota.....	2,261,880	(1)
New York.....	62,014,614	108,232,726
Other States.....	6,651,471	25,606,744
Men's, total.....	971,608	4,220,498
Illinois.....	54,528	(1)
New York.....	388,502	3,325,180
Other States.....	528,578	895,318
Women's, total.....	72,964,768	129,618,972
Illinois.....	2,953,847	7,024,901
New York.....	61,626,142	104,907,540
Other States.....	8,384,779	17,686,525
Fur neck pieces, total.....	8,619,464	21,779,241
California.....	271,117	648,214
Illinois.....	561,690	833,726
New York.....	6,682,082	17,844,457
Pennsylvania.....	247,356	561,171
Other States.....	857,219	1,891,643
Fur robes.....	213,161	635,238
Fur trimming, total.....	64,366,134	93,467,356
New York.....	62,207,204	89,116,957
Other States.....	2,158,930	4,350,399
Other fur and fur-lined goods.....	4,316,310	4,168,412
Amount received for custom and repair work.....	11,682,484	19,241,042

¹ Not shown separately to avoid disclosing approximations of data for individual establishments. Included in item for "Other States."

FURS, DRESSED

Description of the industry.—The establishments classified in this industry are engaged primarily in scraping, currying, tanning, bleaching, and dyeing pelts and in dressing hair and bristles. In most cases the work is done for others on a contract basis.

SUMMARY FOR THE UNITED STATES, 1899 TO 1931, AND FOR STATES, 1931

[Data for establishments with products under \$5,000 in value are included for 1919 and prior years but not for 1921 and subsequent years. See sec. 3d, p. 4. Statistics are given for all States for which separate figures can be published without disclosing, exactly or approximately, the data reported by individual establishments. Certain of the "Other States," however, are more important in the industry than some of the States shown separately]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²
<i>United States</i>						
1931.....	243	5,160	\$7,968,006	\$16,220,722	\$37,872,653	\$21,651,931
1929.....	248	5,167	8,596,377	18,648,954	40,237,192	21,588,238
1927.....	172	5,540	10,360,987	7,071,850	27,680,635	20,608,785
1925.....	133	5,056	8,205,892	7,296,408	25,422,663	18,126,255
1923.....	162	5,203	8,381,453	7,241,783	25,466,841	18,225,058
1921.....	126	4,429	6,768,712	6,070,474	19,157,339	13,086,865
1919.....	141	5,075	7,098,280	6,338,835	20,384,569	14,045,734
1914.....	96	1,525	922,966	906,036	2,875,036	1,969,000
1909.....	93	1,241	800,468	810,800	2,390,959	1,580,159
1904.....	85	1,105	754,988	1,641,950	3,215,701	1,573,751
1899.....	92	835	478,190	519,699	1,400,455	880,756
Percent of increase or decrease (-):						
1929-31.....	-2.0	-0.1	-7.3	-13.0	-5.9	0.3
1927-29.....	44.2	-6.7	-17.0	163.7	45.4	4.8
1925-27.....	29.3	9.6	26.3	-3.1	8.9	13.7
1923-25.....	-17.9	-2.8	-2.1	0.8	-0.2	-0.5
1921-23.....	28.6	17.5	24.0	19.3	32.9	39.3
1919-21.....	-10.6	-12.7	-4.8	-4.2	-6.0	-6.8
1921-31.....	92.9	16.5	17.9	167.2	97.7	65.4
1919-29.....	75.9	1.8	21.1	194.2	97.4	53.7
1909-19.....	(³)	308.9	780.2	681.8	752.6	788.9
1899-1909.....	(³)	48.6	68.7	56.0	70.7	79.4
<i>States: 1931</i>						
Illinois.....	6	98	\$131,545	\$136,073	\$483,982	\$297,909
Minnesota.....	3	35	48,886	23,200	99,181	75,981
New Jersey.....	20	1,584	2,167,957	1,023,320	5,700,794	4,677,474
New York.....	192	2,867	4,894,740	13,579,974	28,646,040	15,006,656
Pennsylvania.....	4	22	25,781	127,868	165,350	37,482
Other States ⁴	18	554	699,097	1,330,287	2,826,706	1,496,419

¹ For 1929, manufacturers' sales (shipments or deliveries); for other years, production. See sec. 16, p. 9.

² Value of products less cost of materials, fuel, and purchased electric energy. See sec. 20, p. 11.

³ Per cent not computed where base is less than 100.

⁴ California, 3 establishments; Colorado, 2; Delaware, 1; Indiana, 1; Iowa, 1; Kentucky, 1; Massachusetts, 2; Michigan, 1; Missouri, 2; Ohio, 1; Washington, 1; Wisconsin, 2.

HAIR WORK

Description of the industry.—The Hair Work industry embraces establishments whose principal products are wigs, switches, braids, puffs, and related articles made largely from human hair but to some extent from the hair of Angora goats and other animals.

SUMMARY FOR THE UNITED STATES, 1899 TO 1931, AND FOR STATES, 1931

[Data for establishments with products under \$5,000 in value are included for 1919 and prior years but not for 1921 and subsequent years. See sec. 3d, p. 4. Statistics are given for all States for which separate figures can be published without disclosing, exactly or approximately, the data reported by individual establishments]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²
<i>United States</i>						
1931.....	52	267	\$287,042	\$310,574	\$1,194,240	\$873,666
1929.....	59	359	432,340	538,479	1,693,588	1,155,109
1927.....	69	515	598,034	829,891	2,279,226	1,449,335
1925.....	69	864	974,982	3,046,276	6,089,756	3,043,480
1923.....	85	1,317	1,352,406	5,568,007	11,263,953	5,695,946
1921.....	113	1,222	1,256,198	6,734,188	10,951,844	4,217,656
1920.....	128					
1919.....	198	1,084	1,064,630	3,829,197	6,963,633	3,133,836
1914.....	205	1,193	1,193,815	1,528,942	3,334,946	1,806,004
1909.....	260	3,534	1,609,788	6,060,610	11,216,175	5,135,565
1904.....	125	863	334,778	727,638	1,782,491	1,054,803
1899.....	158	820	287,288	496,172	1,406,216	910,044
Percent of increase or decrease						
(-):						
1929-31.....	(4)	-25.6	-33.5	-42.3	-30.1	-24.4
1927-29.....	(4)	-30.3	-27.7	-35.1	-25.7	-20.3
1925-27.....	(4)	-40.4	-38.7	-72.8	-62.6	-52.4
1923-25.....	-24.8	-34.4	-27.9	-45.3	-45.9	-46.6
1921-23.....	-11.7	7.8	7.7	-17.3	2.8	35.1
1919-21.....	-35.4	12.7	18.0	75.9	57.3	34.6
1921-31.....	-59.4	-78.2	-77.1	-95.4	-89.2	-70.3
1919-29.....	-70.2	-66.9	-50.4	-85.9	-75.7	-63.1
1909-19.....	-20.8	-69.3	-33.9	-37.0	-37.9	-29.0
1899-1909.....	58.2	331.0	460.3	1,125.5	697.6	464.3
<i>States, 1931</i>						
California.....	3	12	\$13,817	\$5,480	\$42,252	\$36,772
Illinois.....	8	35	35,748	72,271	268,814	196,543
Massachusetts.....	3	17	16,343	12,978	35,042	25,064
New York.....	25	133	156,197	193,284	684,057	490,773
Ohio.....	3	30	26,336	10,822	57,900	47,078
Pennsylvania.....	7	31	31,344	13,743	70,528	56,785
Other States.....	3	9	7,857	1,966	22,647	20,651

¹ For 1929, manufacturers' sales (shipments or deliveries); for other years, production. See sec. 16, p. 9.

² Includes values of miscellaneous products not normally belonging to the industry, made as secondary products by establishments engaged primarily in the Hair Work industry, as follows: For 1931, \$5,434; for 1929, \$44,752; 1927, \$40,446; 1925, \$29,989; corresponding amounts for earlier years not available. Does not include following values of hair work reported by establishments engaged primarily in other lines of manufacture: For 1931, \$50,914; 1929, \$175,829; 1927, \$13,506; 1925, \$268,006; 1923, \$41,822; 1921, \$56,760; 1919, \$91,782; corresponding amounts for earlier years not available.

³ Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 20, p. 11.

⁴ Percent not computed where base is less than 100.

⁵ Maine, 1 establishment; Nebraska, 1; Washington, 1.

HAND STAMPS AND STENCILS AND BRANDS

Description of the industry.—The principal products of the establishments assigned to this industry are rubber and metal stamps, dies, seals, and presses, steel letters and figures; check protectors; date and time stamps; copper and brass stamps for marking textiles; numbering machines; stencils for use in painting or marking or in addressing machines; and branding irons.

SUMMARY FOR THE UNITED STATES, 1899 TO 1931, AND FOR STATES, 1931

[Data for establishments with products under \$5,000 in value are included for 1919 and prior years but not for 1921 and subsequent years. See Sec. 3d, p. 4. Statistics are given for all States for which separate figures can be published without disclosing, exactly or approximately, the data reported by individual establishments. Certain of the "Other States," however, are more important in the industry than some of the States shown separately]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²
<i>United States</i>						
1931.....	288	2,496	\$3,370,835	\$2,394,753	\$10,045,366	\$7,650,613
1929.....	332	2,971	4,080,780	3,811,158	15,036,023	11,224,565
1927.....	293	2,608	3,841,771	3,733,718	14,155,607	10,421,889
1925.....	323	2,930	4,015,323	4,070,322	15,320,554	11,250,232
1923.....	255	2,312	3,034,974	3,103,320	11,130,936	8,027,616
1921.....	234	2,008	2,657,418	2,785,615	9,079,097	6,293,482
1919.....	382	2,136	2,261,287	3,148,067	9,336,558	6,187,891
1914.....	384	1,767	1,148,708	1,425,562	4,485,350	3,069,788
1909.....	361	1,651	951,814	1,127,303	3,073,025	2,545,722
1904.....	327	1,506	797,266	736,515	2,810,952	2,074,437
1899.....	360	1,470	696,287	663,370	2,611,412	1,948,042
Percent of increase or decrease (—):						
1929-31.....	-13.3	-16.0	-17.4	-37.2	-33.2	-31.8
1927-29.....	13.3	11.4	6.2	2.1	6.2	7.7
1925-27.....	-9.3	-8.9	-4.3	-8.3	-7.6	-7.4
1923-25.....	26.7	26.7	32.3	31.2	37.6	40.1
1921-23.....	9.0	11.8	14.2	11.4	22.6	27.6
1919-21.....	-38.7	-3.2	17.5	-11.5	-2.8	1.7
1921-31.....	23.1	20.7	26.8	-14.0	10.6	21.6
1919-29.....	-13.1	39.1	80.5	21.0	61.0	81.4
1909-19.....	5.8	29.4	137.6	179.3	154.2	143.1
1899-1909.....	.3	12.3	36.7	69.9	40.7	30.7
<i>States, 1931</i>						
California.....	26	216	\$308,955	\$148,607	\$777,817	\$629,210
Connecticut.....	9 ^a	60	76,385	40,665	215,284	174,619
District of Columbia.....	4	27	39,596	48,046	127,014	78,963
Georgia.....	4	17	20,099	24,070	71,208	47,133
Illinois.....	32	384	507,708	496,524	1,671,667	1,175,133
Louisiana.....	3	10	16,785	10,329	53,788	43,487
Massachusetts.....	21	112	150,076	146,063	504,218	358,155
Michigan.....	10	68	103,030	84,985	312,454	227,469
Minnesota.....	8	39	54,973	40,778	199,785	169,007
Missouri.....	9	61	84,080	49,799	260,364	210,565

For footnotes, see end of table.

SUMMARY FOR THE UNITED STATES, 1899 TO 1931, AND FOR STATES, 1931—
Continued

[See note at head of table]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²
<i>States, 1931—Continued</i>						
New Jersey.....	9	100	\$122,332	\$36,284	\$440,256	\$403,972
New York.....	56	550	797,687	493,009	2,082,643	1,589,634
Ohio.....	21	144	209,838	150,314	692,771	512,457
Oklahoma.....	3	15	19,234	27,990	60,400	32,410
Pennsylvania.....	25	346	425,020	316,792	1,266,779	949,987
Rhode Island.....	4	33	38,513	12,008	106,859	94,851
Tennessee.....	4	19	17,273	13,821	62,321	48,500
Texas.....	8	27	36,039	18,348	145,495	127,147
Virginia.....	5	26	26,285	23,659	89,598	65,937
Washington.....	4	26	33,661	16,939	105,184	88,245
Other States ⁴	23	216	283,266	195,723	820,475	633,752

¹ For 1929, manufacturers' sales (shipments or deliveries); for other years, production. See sec. 16, p. 9.

² Includes following values of miscellaneous commodities, not normally belonging to industry, made as secondary products by establishments engaged primarily in the manufacture of hand stamps and stencils and brands: 1931, \$260,253; 1929, \$169,757; 1927, \$1,359,140; 1925, \$837,929. No corresponding figures available for earlier years. Does not include following values of hand stamps and stencils and brands reported as secondary products by establishments engaged primarily in other lines of manufacture: 1931, \$5,269,512; 1929, \$1,002,166; 1927, \$335,252; 1925, \$515,450; 1923, \$305,298; 1921, \$834,351; 1919, \$425,051. No corresponding figures available for earlier years.

³ Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 20, p. 11.

⁴ Arkansas, 1 establishment; Colorado, 2; Indiana, 4; Iowa, 2; Kansas, 1; Kentucky, 2; Maine, 1; Maryland, 2; Nebraska, 2; Oregon, 1; Utah, 1; West Virginia, 1; Wisconsin, 3.

HATS, STRAW, MEN'S

[A preliminary report for this industry was issued under date of Nov. 30, 1932]

Description of the industry.—This industry embraces establishments engaged primarily in the manufacture, either from the straw or from purchased shells, of men's straw hats and men's, women's, and children's harvest hats, and in bleaching, shaping, and finishing Panama and other straw hats for men's wear.

TABLE 1.—SUMMARY FOR THE UNITED STATES, 1931, 1929, AND 1927, AND FOR STATES, 1931

[Statistics are given for all States for which separate figures can be published without disclosing, exactly or approximately, the data reported by individual establishments. Certain of the "Other States," however, are more important in the industry than some of the States shown separately]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²
<i>United States</i>						
1931.....	50	2,823	\$2,784,007	\$7,253,048	\$13,892,102	\$6,639,054
1929.....	50	3,380	3,687,570	8,704,621	18,735,994	10,034,373
1927 ³	48	3,263	4,232,332	11,782,950	21,717,689	9,934,733
Percent of increase or decrease (—):						
1929-31.....		-16.5	-24.5	-16.7	-25.9	-33.8
1927-29.....	(4)	3.6	-12.9	-26.1	-13.7	1.0
<i>States, 1931</i>						
Maryland.....	3	708	\$650,281	\$1,345,635	\$2,557,369	\$1,211,754
Massachusetts.....	6	409	381,367	890,148	1,531,745	641,600
Missouri.....	7	508	425,391	1,448,221	2,814,344	1,366,123
New Jersey.....	6	342	320,726	617,122	1,362,254	745,132
New York.....	22	695	912,101	2,632,709	5,080,657	2,447,945
Other States ⁴	6	161	94,141	319,213	545,730	226,517

¹ The figures for 1931 and 1927 represent production; those for 1929 refer to sales (shipments or deliveries) by manufacturers. See sec. 16, p. 9.

² Value of products less cost of materials, fuel, and purchased electric energy. See sec. 20, p. 11.

³ No comparable figures can be given for years prior to 1927.

⁴ Percent not computed where base is less than 100.

⁵ California, 1 establishment; Illinois, 2; Ohio, 1; Pennsylvania, 1; Texas, 1.

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1931 AND 1929, AND FOR STATES, 1931

[This table presents statistics for only those States for which figures can be given without disclosing, exactly or approximately, 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. See sec. 13, p. 8]

	Average number employed during year	NUMBER REPORTED FOR—											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<i>United States</i>													
1931.....	2,823	2,995	3,322	3,684	4,020	4,019	3,014	1,851	<i>963</i>	1,802	2,373	2,866	3,022
1929 ¹	3,380	3,951	4,080	4,100	4,145	3,900	3,192	2,138	<i>1,543</i>	2,348	3,203	3,895	4,090
<i>States, 1931</i>													
Maryland.....	708	690	713	782	804	809	624	438	<i>258</i>	575	841	958	968
Massachusetts.....	409	376	463	577	628	630	410	77	112	343	428	436	428
Missouri.....	508	507	599	668	697	782	640	427	<i>187</i>	307	369	462	475
New Jersey.....	342	379	403	444	523	387	334	193	<i>169</i>	264	271	352	383
New York.....	695	849	942	989	1,124	1,186	860	540	<i>147</i>	242	385	521	559

¹ No comparable figures can be given for years prior to 1929.

TABLE 3.—PRODUCTS, BY KIND, NUMBER, AND VALUE, FOR THE UNITED STATES: 1931 AND 1929

[The figures for 1931 represent production; those for 1929 refer to sales (shipments or deliveries) by manufacturers.]

KIND	1931		1929	
	Dozens	Value	Dozens	Value
1. Men's straw hat industry, all products, total value.....		\$13,892,102		\$18,738,994
2. Men's straw hats.....	1,622,653	12,915,304	2,087,923	18,262,906
3. Other products (not normally belonging to the industry).....		571,277		248,104
4. Receipts for contract work.....		405,521		227,984
5. Men's straw hats made as secondary products in other industries.....	132,428	3,230,795	159,192	4,366,578
Men's straw hats, all industries: Aggregate value (sum of 2 and 5).....	1,755,081	16,146,099	2,247,115	22,629,484
Sewed-braid hats, total.....	653,829	8,629,874	714,530	13,299,847
Made complete in plant.....	598,584	8,093,223	610,637	11,459,852
Finished from purchased shells.....	55,245	536,651	103,893	1,809,995
Woven-body hats (except harvest hats).....	130,560	4,980,669	135,182	4,850,152
Harvest hats, total.....	920,692	2,585,556	1,397,403	4,479,485
Men's.....	618,510	1,768,016	1,033,043	3,302,098
Women's.....	155,766	475,076	164,734	633,969
Children's.....	146,416	342,464	199,626	543,418

TABLE 4.—PRINCIPAL MATERIALS USED IN THE INDUSTRY, BY KIND AND QUANTITY: 1931

KIND	1931	KIND	1931
Braids:	Yards	Purchased bodies:	Dozens
Chinese straw braids.....	72,111,666	South American bodies (Panamas, etc.).....	73,829
Japanese straw braids.....	58,635,360	Italian bodies (Leghorns, Pedalims, Yeddos, etc.).....	33,963
Italian straw braids.....	39,908,477	Japanese bodies (Mikados, Toyos, etc.).....	90,685
Other braids.....	14,409,900	Other bodies.....	437,331

INSTRUMENTS, PROFESSIONAL AND SCIENTIFIC, AND GAUGES, EXCEPT MACHINISTS' GAUGES

Description of the industry.—The establishments classified in this industry are engaged primarily in the manufacture of such classes of products as the following: Surgical, dental, and veterinary instruments; physicians' diagnostic apparatus; surveyors', nautical, aeronautical, automotive, and similar instruments; precision and measuring instruments; indicating and recording instruments; hypodermic syringes; speedometers; barometers and thermometers; compasses; and dental-engine equipment. (Manufacturers of machinists' gauges are classified in the Machine Tool Accessories and Machinists' Precision Tools and Instruments industry, and makers of ophthalmic and optical instruments, such as optical testing and measuring instruments, microscopes, telescopes, etc., in the Optical Goods industry.)

TABLE 1.—SUMMARY FOR THE UNITED STATES, 1899 TO 1931, AND FOR STATES, 1931

[Data for establishments with products under \$5,000 in value are included for 1919 and prior years but not for 1921 and subsequent years. See sec. 3d, p. 4. Statistics are given for all States for which separate figures can be published without disclosing, exactly or approximately, the data reported by individual establishments. Certain of the "Other States," however, are more important in the industry than some of the States shown separately]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²
<i>United States</i>						
1931.....	270	9, 136	\$11, 114, 765	\$10, 140, 960	\$40, 733, 637	\$30, 592, 677
1929.....	276	16, 876	22, 682, 052	28, 411, 430	89, 746, 369	61, 334, 639
1927.....	280	16, 414	22, 288, 973	28, 880, 222	87, 783, 488	58, 903, 266
1925.....	233	12, 129	16, 166, 202	20, 428, 088	76, 338, 739	55, 910, 651
1923.....	258	12, 275	15, 502, 679	18, 030, 523	63, 074, 391	45, 084, 868
1921.....	266	9, 384	11, 690, 950	13, 326, 311	42, 131, 845	28, 805, 534
1919.....	351	15, 931	17, 499, 888	19, 494, 634	63, 136, 691	38, 642, 057
1914.....	307	7, 107	4, 652, 105	5, 581, 722	17, 494, 729	11, 913, 007
1909.....	263	4, 817	2, 925, 087	2, 917, 984	10, 503, 601	7, 585, 617
1904.....	225	3, 437	1, 823, 205	1, 350, 153	5, 377, 755	4, 027, 602
1899.....	261	2, 775	1, 428, 885	1, 362, 581	4, 853, 335	3, 490, 754
Percent of increase or decrease (—):						
1929-31.....	-2.2	-45.9	-51.0	-64.3	-54.6	-50.1
1927-29.....	-1.4	2.8	1.8	-1.0	2.2	4.1
1925-27.....	20.2	35.3	37.9	41.4	15.0	5.4
1923-25.....	-9.7	-1.2	4.3	13.2	21.0	24.1
1921-23.....	-3.0	30.8	32.5	35.2	49.7	56.3
1919-21.....	-24.2	-41.1	-33.1	-31.6	-27.5	-25.5
1921-31.....	1.5	-2.6	-5.0	-23.9	-3.3	5.8
1919-29.....	-21.4	5.9	29.6	45.7	54.4	53.7
1909-10.....	33.5	230.7	498.3	568.1	453.5	409.4
1899-1909.....	0.8	73.6	104.7	114.2	116.4	117.3
<i>States, 1931</i>						
California.....	15	85	\$111, 710	\$109, 440	\$411, 795	\$302, 355
Illinois.....	36	1, 392	1, 656, 740	1, 623, 502	5, 578, 454	3, 954, 862
Massachusetts.....	24	571	686, 956	737, 446	3, 447, 579	2, 710, 133
Missouri.....	7	138	153, 625	157, 366	594, 523	437, 157
New York.....	87	2, 733	3, 803, 318	3, 484, 531	14, 310, 533	10, 829, 002
Ohio.....	16	598	622, 106	487, 276	2, 188, 047	1, 700, 771
Pennsylvania.....	41	1, 502	1, 949, 068	1, 583, 271	6, 586, 245	5, 002, 974
Rhode Island.....	3	29	33, 393	11, 046	60, 284	48, 638
Other States ³	41	2, 088	2, 097, 859	1, 946, 392	7, 556, 177	5, 609, 785

¹ For 1929, manufacturers' sales (shipments or deliveries); for other years, production. See sec. 16, p. 9.

² Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 20, p. 11.

³ Colorado, 1 establishment; Connecticut, 5; District of Columbia, 1; Georgia, 1; Indiana, 2; Iowa, 1; Kansas, 1; Louisiana, 1; Maine, 1; Maryland, 3; Michigan, 7; Minnesota, 1; New Jersey, 10; Oregon, 1; Tennessee, 1; Washington, 2; Wisconsin, 2.

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1931, 1929, 1925, 1919, 1914, AND 1909, AND FOR STATES, 1931

[This table presents statistics for only those States for which figures can be given without disclosing, exactly or approximately, 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. See sec. 13, p. 8.]

	Average number employed during year	NUMBER REPORTED FOR—											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<i>United States</i>													
1931.....	9, 130	9, 735	9, 663	9, 843	9, 826	9, 631	9, 259	8, 764	8, 889	8, 709	8, 537	8, 362	8, 580
1929.....	16, 876	16, 509	17, 209	17, 840	17, 738	17, 979	17, 690	17, 283	16, 957	17, 538	16, 183	15, 206	14, 374
1925.....	12, 129	11, 145	11, 331	11, 530	11, 856	12, 166	12, 297	12, 052	12, 113	12, 508	12, 928	12, 877	12, 745
1919.....	15, 931	16, 230	16, 274	15, 602	15, 568	15, 675	15, 791	16, 111	15, 810	15, 925	15, 989	16, 266	15, 931
1914.....	7, 107	6, 679	6, 796	7, 101	7, 161	7, 255	7, 257	7, 301	7, 088	7, 213	7, 564	6, 998	6, 880
1909.....	4, 817	4, 500	4, 562	4, 665	4, 758	4, 797	4, 787	4, 822	4, 722	4, 917	5, 003	5, 103	5, 167
<i>States, 1931</i>													
California.....	85	87	82	76	75	86	111	95	93	90	77	73	73
Illinois.....	1, 392	1, 482	1, 518	1, 637	1, 674	1, 640	1, 668	1, 339	1, 182	1, 140	1, 031	1, 089	1, 358
Massachusetts.....	571	614	610	605	577	563	548	552	548	558	561	561	549
Missouri.....	138	143	149	148	144	145	135	145	144	136	126	114	128
New York.....	2, 733	2, 802	2, 873	2, 859	2, 785	2, 711	2, 668	2, 577	2, 747	2, 754	2, 676	2, 649	2, 601
Ohio.....	698	604	570	590	624	682	580	567	540	558	583	594	607
Pennsylvania.....	1, 602	1, 656	1, 627	1, 576	1, 553	1, 497	1, 485	1, 468	1, 460	1, 450	1, 431	1, 424	1, 417
Rhode Island.....	30	33	32	33	33	32	32	31	32	33	33	20	21

TABLE 3.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1931 AND 1929

The figures for 1931 represent production; those for 1929 refer to sales (shipments or deliveries) by manufacturers. See sec. 16, p. 9]

KIND	VALUE	
	1931	1929
1. "Instruments, professional and scientific, and gauges, except machinists' gauges" industry, all products, total value.....	\$40, 733, 637	\$89, 746, 369
2. Instruments, professional and scientific, and gauges, except machinists' gauges.....	36, 018, 454	76, 687, 092
3. Other products (not normally belonging to the industry).....	2, 625, 215	11, 166, 767
4. Receipts for custom, contract, and repair work.....	2, 089, 968	1, 892, 510
5. Instruments, professional and scientific, and gauges, except machinists' gauges, made as secondary products in other industries.....	4, 036, 109	3, 071, 969
Instruments, professional and scientific, and gauges, except machinists' gauges, all industries, aggregate value (sum of 2 and 5).....	40, 054, 563	79, 759, 061
Dental instruments.....	1, 099, 797	2, 224, 829
Drawing instruments.....	989, 956	1, 476, 015
Laboratory instruments and apparatus.....	4, 489, 729	7, 170, 939
Navigational and other nautical instruments (binnacles, compasses, aircraft instruments, etc.).....	3, 643, 362	3, 575, 422
Surgical instruments.....	3, 417, 826	5, 223, 078
Surveyors' instruments.....	1, 303, 580	2, 360, 811
Barometers.....	45, 380	148, 576
Hydrometers.....	323, 979	833, 996
Pyrometers.....	1, 784, 982	3, 493, 411
Speedometers.....	2, 860, 693	16, 624, 401
Thermometers.....	5, 541, 281	9, 538, 737
Other gauges, except machinists' gauges.....	4, 578, 351	9, 295, 461
Other professional and scientific instruments.....	9, 975, 647	17, 793, 355

JEWELRY AND INSTRUMENT CASES

Description of the industry.—The establishments classified in this industry are engaged primarily in the manufacture of cases, trays, and fancy boxes for jewelry, instruments, cutlery, eyeglasses, combs, compasses, cigarettes, pipes, toilet sets, etc.

SUMMARY FOR THE UNITED STATES, 1899 TO 1931, AND FOR STATES, 1931

[Data for establishments with products under \$5,000 in value are included for 1919 and prior years but not for 1921 and subsequent years. See sec. 3d, p. 4. Statistics are given for all States for which separate figures can be published without disclosing, exactly or approximately, the data reported by individual establishments. Certain of the "Other States," however, are more important in the industry than some of the States shown separately.]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²
<i>United States</i>						
1931.....	92	1,398	\$1,414,842	\$1,941,319	\$4,919,423	\$2,978,104
1929.....	113	2,269	2,472,880	3,324,459	8,326,727	5,502,268
1927.....	107	2,406	2,597,056	3,293,986	8,810,065	5,516,079
1925.....	125	2,748	2,750,209	3,832,577	10,114,073	6,281,496
1923.....	111	2,977	2,904,430	4,417,256	10,506,478	6,039,222
1921.....	107	2,241	2,087,591	2,712,684	7,035,778	4,323,094
1919.....	142	2,734	2,147,648	3,505,840	8,126,300	4,620,460
1914.....	125	2,393	1,093,672	1,449,848	3,620,838	2,170,990
1909.....	120	2,070	953,666	1,221,277	3,116,519	1,895,242
1904.....	97	1,676	623,887	842,988	2,291,648	1,448,560
1899.....	63	819	322,566	435,717	1,156,977	721,260
Percent of increase or decrease (-):						
1929-31.....	-18.6	-38.4	-42.8	-41.6	-44.3	-45.9
1927-29.....	5.6	-5.7	-4.8	0.9	0.2	-0.3
1925-27.....	-14.4	-12.4	-5.6	-14.1	-12.9	-12.2
1923-25.....	12.6	-7.7	-5.3	-13.2	-3.7	3.2
1921-23.....	3.7	32.8	39.1	62.8	49.3	40.9
1919-21.....	-24.6	-18.0	-2.8	-22.0	-13.4	-6.4
1921-31.....	-14.0	-37.6	-32.2	-28.4	-30.1	-31.1
1919-29.....	-20.4	-17.0	15.1	-5.2	8.6	19.1
1909-19.....	18.3	32.1	125.2	187.1	160.7	143.8
1899-1909.....	(*)	152.7	195.6	180.3	169.4	162.8
<i>States, 1931</i>						
California.....	3	13	\$13,115	\$6,982	\$33,800	\$26,818
Massachusetts.....	10	306	321,199	347,680	932,988	535,308
New Jersey.....	8	150	151,213	240,607	579,048	338,441
New York.....	45	549	605,225	866,571	2,261,824	1,395,253
Pennsylvania.....	7	95	84,635	141,366	293,023	181,657
Rhode Island.....	6	86	87,299	67,166	191,693	124,427
Other States ³	13	199	172,156	270,947	627,147	356,200

¹ For 1929, manufacturers' sales (shipments or deliveries); for other years, production. See sec. 16, p. 9.

² Includes values of miscellaneous products, not normally belonging to the industry, made as secondary products by establishments engaged primarily in the manufacture of jewelry and instrument cases, as follows: For 1931, \$56,662; 1929, \$75,972; 1927, \$261,531; 1925, \$373,393; corresponding amounts for earlier years not available. Does not include following values of jewelry and instrument cases made as secondary products by establishments engaged primarily in other lines of manufacture: For 1931, \$452,450; 1929, \$391,323; 1927, \$1,690,731; 1925, \$1,368,189; 1923, \$628,908; 1921, \$420,521; 1919, \$726,394; corresponding amounts for earlier years not available.

³ Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 20, p. 11.

⁴ Percent not computed where base is less than 100.

⁵ Connecticut, 2 establishments; Illinois, 5; Indiana, 1; Kentucky, 1; Maryland, 1; Michigan, 1; Ohio, 1; Wisconsin, 1.

LAPIDARY WORK

Description of the industry.—This industry embraces establishments engaged primarily in the cutting, recutting, polishing, and setting of diamonds and other precious and semiprecious stones, the drilling of pearls, the preparation of jewels for watches and chronometers and for surveyors' instruments, and the preparation of real and imitation stones for emblems. This work is done to some extent on a contract basis on materials owned by others, and the establishments which operate on this basis report their receipts for work done as "value of products." Some jewelry manufacturers cut stones for their own use, but do not report the value of such work separately; consequently some overlapping occurs between the Jewelry and Lapidary Work industries.

SUMMARY FOR THE UNITED STATES, 1899 TO 1931, AND FOR STATES, 1931

[Data for establishments with products under \$5,000 in value are included for 1919 and prior years but not for 1921 and subsequent years. See sec. 3d, p. 4. Statistics are given for all States for which separate figures can be published without disclosing, exactly or approximately, the data reported by individual establishments. New Jersey, one of the "Other States," is, however, more important in the industry than either California or Illinois]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²
<i>United States</i>						
1931	53	205	\$339,503	\$1,373,233	\$2,474,938	\$1,096,765
1929	100	506	1,001,706	3,234,389	11,942,421	3,707,532
1927	92	547	1,220,647	9,135,059	12,351,503	3,218,444
1925	83	589	1,284,991	7,272,868	10,122,782	2,849,914
1923	87	644	1,286,291	5,837,061	9,129,842	3,242,781
1921	64	399	737,922	2,840,309	4,345,214	1,504,905
1919	124	1,155	2,837,811	19,363,004	30,051,400	10,688,456
1914	89	684	641,444	3,940,761	5,360,064	1,419,303
1909	77	627	889,485	6,560,449	9,172,832	2,612,383
1904	54	507	656,027	6,223,675	7,646,814	1,423,139
1899	60	498	498,715	4,655,765	5,786,281	1,130,516
Percent of increase or decrease (-):						
1929-31	-47.0	-59.5	-66.1	-83.3	-79.3	-70.4
1927-29	(³)	-7.5	-17.9	-9.8	-3.3	15.2
1925-27	(³)	-7.1	-5.0	25.6	22.0	12.9
1923-25	(³)	-8.5	-0.1	23.5	10.9	-12.1
1921-23	(³)	61.4	74.3	107.3	110.1	115.5
1919-21	-48.4	-65.5	-74.0	-85.3	-85.5	-85.9
1921-31	(³)	-48.6	-54.0	-51.5	-43.0	-27.1
1919-29	-19.4	-56.2	-64.7	-87.5	-60.3	-65.3
1909-19	(³)	84.2	219.0	195.1	227.6	309.1
1899-1909	(³)	25.9	78.4	40.9	58.5	131.1
<i>States, 1931</i>						
California	8	28	\$39,962	\$30,502	\$109,306	\$78,804
Illinois	3	21	34,265	7,502	74,093	66,596
New York	3	102	177,446	1,285,117	2,040,199	755,082
Other States ⁴	9	54	87,830	55,112	251,395	196,283

¹ For 1929, manufacturers' sales (shipments or deliveries); for other years, production. See sec. 16, p. 9.

² Includes values of miscellaneous products, not normally belonging to the industry, made as secondary products by establishments engaged primarily in lapidary work, as follows: For 1929, \$15,765; 1927, \$29,200; 1925, \$138,555; corresponding amounts for earlier years not available. Does not include following values of lapidary work reported by establishments engaged primarily in other lines of manufacture: For 1931, \$38,276; 1929, \$1,914; 1925, \$5,924; 1921, \$30,642; 1919, \$21,124; corresponding amounts for other years not available.

³ Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 20, p. 11.

⁴ Percent not computed where base is less than 100.

⁵ Colorado, 1 establishment; Massachusetts, 3; New Jersey, 2; Pennsylvania, 3.

MATTRESSES AND BED SPRINGS

[A preliminary report for this industry was issued under date of October 27, 1932]

Description of the industry.—This industry embraces establishments engaged primarily in the manufacture of mattresses and pads filled with hair, cotton, felt, moss, or similar materials; wire springs for use on beds, couches, and cots; and spring cushions. It does not cover the activities of establishments engaged wholly or principally in the renovation of mattresses unless such establishments actually manufactured new products to the value of \$5,000 or more. For this reason, and for the further reasons that the industry classification excludes establishments whose products made during the census year were valued at less than \$5,000 (see sec. 3*d*, p. 4) and also excludes those which make mattresses and bed springs as secondary products (see sec. 16, p. 9), the actual number of establishments engaged primarily in the manufacture of mattresses and bed springs, as shown by the table on page 1117, is much smaller than the number of names listed in the International Directory of Bedding Manufacturers.

The total production of *new* mattresses, whether made as primary products or as secondary products, by all establishments whose total output of new products of any kind during the census year was valued at \$5,000 or more, is, however, given in table 3. This total may be accepted as practically complete, since the output of new mattresses by establishments whose production was valued at less than \$5,000 is relatively insignificant. (See sec. 3*d*, p. 4.)

Comparison with earlier years.—The statistics for 1925 and earlier years shown in tables 1 and 2 are not strictly comparable with those for 1927 and later years because of the exclusion for 1927 and later years and the inclusion for earlier years of data for establishments engaged primarily in renovating mattresses. For 1927, 103 such establishments reported mattresses and bed springs manufactured, to the value of \$203,421, and \$923,636 received for renovating.

Detailed statistics of products (table 3).—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 1931, AND FOR STATES, 1931

[Data for establishments with products under \$5,000 in value are included for 1919 and prior years but not for 1921 and subsequent years. See sec. 3d, p. 4, and "Comparison with earlier years," p. 1114. Statistics are given for all States for which separate figures can be published without disclosing, exactly or approximately, the data reported by individual establishments. Certain of the "Other States," however, are more important in the industry than some of the States shown separately]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²
<i>United States</i>						
1931.....	781	13,622	\$14,702,335	\$37,509,418	\$77,508,242	\$39,998,824
1929.....	951	17,187	22,583,535	61,527,026	123,279,717	61,752,691
1927.....	838	13,481	16,880,711	52,182,075	98,834,568	46,652,453
1927.....	1,018	14,403	17,429,710	62,489,286	110,716,896	48,227,610
1925.....	1,015	14,103	16,472,666	61,476,696	107,561,684	46,084,988
1923.....	889	11,748	13,646,457	42,056,162	74,623,976	32,567,814
1921.....	1,041	12,637	12,805,351	49,208,560	83,952,609	34,744,049
1919.....	1,000	11,747	6,723,372	22,399,153	38,716,704	16,317,611
1914.....	930	11,322	5,771,334	20,482,508	35,783,154	15,900,646
1909.....	716	10,427	4,815,907	15,325,931	27,755,288	12,428,857
1904.....	589	7,649	3,102,013	10,227,096	17,955,578	7,728,482
1899.....						
Percent of increase or decrease (—):						
1929-31.....	-17.9	-20.7	-34.9	-39.0	-37.1	-35.2
1927-29.....	13.5	27.5	33.7	17.9	24.7	32.4
1925-27.....	-17.7	-6.4	-3.1	-16.5	-10.7	-3.3
1923-25.....	0.3	2.1	5.8	1.6	2.9	4.6
1921-23.....	14.2	20.0	21.6	46.2	44.1	41.5
1919-21.....	-14.6	-7.0	5.8	-14.5	-11.1	-6.3
1921-31.....	-12.1	16.0	8.5	-10.8	3.0	22.8
1919-29.....	-8.6	36.0	76.4	25.0	46.8	77.7
1909-19.....	11.9	11.6	121.9	140.2	184.6	127.1
1899-1909.....	57.0	48.0	86.1	100.3	99.3	98.0
<i>States, 1931</i>						
Alabama.....	10	90	\$61,324	\$166,530	\$389,772	\$203,242
Arkansas.....	5	59	44,870	170,755	290,774	120,019
California.....	49	1,184	1,334,787	3,886,681	6,840,084	3,453,503
Colorado.....	4	81	84,721	231,573	443,182	211,609
Connecticut.....	24	97	133,750	367,890	735,914	368,024
Delaware.....	3	17	18,216	42,507	101,028	58,521
District of Columbia.....	4	80	80,615	195,541	428,141	232,600
Florida.....	13	82	75,293	168,940	361,135	192,195
Illinois.....	43	1,508	1,601,783	3,979,805	7,979,869	4,000,064
Indiana.....	16	269	312,525	745,460	1,508,181	762,721
Iowa.....	6	69	65,808	195,609	370,171	174,562
Kansas.....	8	71	63,341	168,966	321,247	152,281
Kentucky.....	6	89	90,805	264,927	489,991	225,064
Louisiana.....	12	103	70,918	172,303	365,328	193,025
Maryland.....	12	333	327,234	802,799	1,787,458	954,659
Massachusetts.....	55	690	713,923	2,009,139	4,116,564	2,107,425
Michigan.....	20	205	219,445	632,416	1,240,569	608,143
Minnesota.....	7	359	356,578	1,064,320	2,034,685	970,365
Mississippi.....	3	18	13,729	27,565	74,282	46,717
Missouri.....	20	249	246,898	674,346	1,284,066	609,720
Nebraska.....	6	34	43,623	101,350	218,596	117,246
New Hampshire.....	3	14	17,569	41,815	87,543	45,728
New Jersey.....	34	988	1,314,344	3,857,400	8,265,496	4,408,096
New York.....	181	1,605	2,239,921	6,112,581	11,866,155	5,743,574
North Carolina.....	16	152	117,360	349,159	716,548	367,389
Ohio.....	32	440	501,449	1,390,579	2,785,533	1,394,954
Oklahoma.....	8	82	84,467	190,283	372,938	182,655
Oregon.....	6	83	95,736	243,499	474,691	231,192
Pennsylvania.....	50	745	827,883	2,015,882	3,949,506	1,933,624
Rhode Island.....	6	82	84,962	251,939	466,953	215,014
South Carolina.....	6	31	18,391	58,243	107,532	49,289
Tennessee.....	10	319	187,534	534,117	1,281,509	747,392
Texas.....	33	283	238,477	674,210	1,333,260	661,050
Utah.....	5	38	34,391	80,484	166,958	86,474
Virginia.....	13	140	118,579	331,346	608,862	277,516
Washington.....	10	84	85,136	268,607	454,971	186,364
West Virginia.....	5	37	40,560	115,136	248,836	133,700
Other States ³	37	2,785	2,735,410	5,404,816	12,977,924	7,573,108

¹ For 1929, manufacturers' sales (shipments or deliveries); for other years, production. See sec. 16, p. 9.

² Value of products less cost of materials, fuel, and purchased electric energy. See sec. 20, p. 11.

³ Arizona, 2 establishments; Georgia, 13; Idaho, 1; Maine, 2; New Mexico, 1; North Dakota, 1; Vermont, 1; Wisconsin, 16.

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1931, 1929, 1925, 1919, 1914, AND 1909, AND FOR STATES, 1931

[This table presents statistics for only those States for which figures can be given without disclosing, exactly or approximately, the 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. See sec. 13, p. 8.]

	Average number employed during year	NUMBER REPORTED FOR—											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<i>United States</i>													
1931.....	13, 622	13, 126	13, 448	13, 801	14, 073	14, 270	14, 162	13, 858	13, 728	13, 877	13, 777	13, 035	<i>12, 506</i>
1929.....	17, 157	<i>15, 725</i>	16, 036	16, 413	16, 651	16, 903	17, 229	17, 171	17, 872	19, 189	19, 584	17, 192	16, 153
1925.....	14, 403	<i>13, 225</i>	13, 373	13, 730	13, 878	13, 966	14, 154	14, 109	14, 534	15, 498	16, 023	15, 559	14, 810
1919.....	12, 637	<i>10, 767</i>	11, 144	11, 447	11, 809	12, 241	12, 516	13, 115	13, 412	13, 530	13, 937	13, 872	13, 834
1914.....	11, 747	<i>11, 550</i>	11, 645	11, 809	12, 045	12, 053	12, 052	11, 681	11, 587	11, 856	11, 906	11, 527	<i>11, 163</i>
1909.....	11, 322	<i>10, 237</i>	10, 407	10, 860	11, 037	11, 261	11, 369	11, 188	11, 344	11, 978	12, 366	12, 161	11, 717
<i>States, 1931</i>													
Alabama.....	90	89	86	88	91	102	91	86	86	95	99	95	86
Arkansas.....	56	53	54	54	59	61	56	55	56	55	64	60	50
California.....	1, 154	1, 142	1, 195	1, 235	1, 204	1, 215	1, 163	1, 167	1, 102	1, 152	1, 154	1, 075	<i>1, 016</i>
Colorado.....	81	76	77	78	83	88	84	82	78	85	82	78	75
Connecticut.....	97	93	87	97	101	102	103	100	100	100	98	97	86
Delaware.....	17	17	17	17	17	17	17	17	16	18	16	17	15
District of Columbia.....	80	77	77	79	79	84	85	75	77	81	85	82	71
Florida.....	82	80	78	73	74	77	75	70	72	85	98	101	99
Illinois.....	1, 508	1, 404	1, 435	1, 469	1, 534	1, 570	1, 617	1, 620	1, 564	1, 584	1, 552	1, 442	<i>1, 395</i>
Indiana.....	290	<i>287</i>	286	274	285	302	270	243	253	269	292	277	252
Iowa.....	66	70	71	72	72	72	71	61	62	70	69	72	59
Kansas.....	71	74	71	71	72	71	71	69	69	71	69	71	69
Kentucky.....	80	68	74	79	91	92	97	94	89	102	95	95	85
Louisiana.....	103	107	104	107	113	113	112	97	94	100	98	97	97
Maryland.....	333	314	320	321	336	351	344	333	332	339	355	332	<i>312</i>
Massachusetts.....	690	681	678	684	705	720	719	696	672	693	706	677	<i>651</i>
Michigan.....	205	183	197	204	213	220	221	216	207	212	204	191	190
Minnesota.....	359	331	329	339	343	372	419	398	396	379	368	333	<i>306</i>
Mississippi.....	18	<i>17</i>	18	19	18	18	19	19	18	18	19	18	18
Missouri.....	249	246	241	254	252	249	257	252	272	253	245	236	<i>223</i>
Nebraska.....	34	34	34	35	36	36	35	35	36	31	30	33	31
New Hampshire.....	14	<i>13</i>	13	13	16	17	16	15	16	16	13	13	13
New Jersey.....	988	1, 040	1, 023	1, 030	1, 024	992	992	998	950	980	977	943	<i>902</i>
New York.....	1, 655	<i>1, 510</i>	1, 586	1, 629	1, 649	1, 692	1, 692	1, 648	1, 727	1, 829	1, 785	1, 653	1, 554
North Carolina.....	152	152	<i>151</i>	151	152	153	154	154	153	152	151	152	<i>151</i>
Ohio.....	440	391	413	442	454	478	479	455	453	450	452	425	<i>394</i>
Oklahoma.....	82	80	74	78	81	81	92	90	80	84	85	82	82
Oregon.....	83	84	84	83	79	82	78	71	70	84	85	107	90
Pennsylvania.....	745	697	707	714	777	806	778	725	759	750	759	770	745
Rhode Island.....	82	73	73	80	91	93	83	87	86	84	80	75	73
South Carolina.....	31	<i>26</i>	26	29	34	33	33	31	29	30	31	34	40
Tennessee.....	319	<i>284</i>	300	351	353	350	323	329	323	321	309	300	287
Texas.....	283	<i>275</i>	268	272	289	277	271	257	289	317	320	292	270
Utah.....	38	<i>32</i>	35	37	40	45	44	42	35	39	37	37	36
Virginia.....	140	110	<i>117</i>	131	139	158	154	155	154	155	146	132	122
Washington.....	84	<i>61</i>	52	66	102	95	93	97	94	96	94	85	50
West Virginia.....	37	37	<i>35</i>	38	40	38	39	37	36	38	38	37	35

MATTRESSES AND BED SPRINGS

1117

TABLE 3.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1931, 1929, AND 1927

The figures for 1931 and 1927 refer to production; those for 1929 represent sales (shipments or deliveries) by manufacturers. See sec. 10, p. 9]

KIND	VALUE		
	1931 ¹	1929	1927
1. Mattresses and Bed-Springs industry, all products, total value.....	\$77,508,242	\$123,279,717	\$98,834,558
2. Mattresses, bed springs, etc., made in the industry.....	63,455,461	1 99,129,331	82,937,678
3. Other products (not normally belonging to the industry).....	13,135,062	1 22,496,947	14,030,505
4. Receipts for contract, custom, and repair work.....	917,719	1,653,439	1,866,375
5. Mattresses, bed springs, etc., made as secondary products in other industries.....	5,722,099	9,807,460	15,274,480
Mattresses, bed springs, etc., all industries:			
Aggregate value (sum of 2 and 5).....	69,177,560	1 108,936,791	98,212,158
Mattresses and pads, total.....	48,763,974	75,197,544	65,791,355
Inner-spring construction.....	25,325,172	33,905,070	(²)
Other.....	23,438,802	1 41,292,474	(²)
Bed springs, total.....	18,738,827	31,680,785	29,129,285
Box.....	4,241,477	6,280,908	4,542,485
Coil.....	11,713,238	25,399,857	24,586,800
Fabric.....	2,784,112		
Mattresses and bed springs not separately reported.....	848,545	725,574	3,291,518
Spring cushions.....	826,214	1,332,908	(²)

¹ Revised.

² Not called for separately on schedule.

³ Includes \$3,510,168, value of mattresses and pads not reported by kind.

MISCELLANEOUS ARTICLES NOT ELSEWHERE CLASSIFIED

Description of the industry.—The products of this industry include such commodities as beaded articles, celluloid novelties, art novelties, holiday goods, photo jewelry and buttons, inlaid veneer work, silk watchchains, burnt-wood articles, lamp shades, bric-a-brac, composition ornaments, needle and pin books, and decalcomania work (not on china or glass). Many miscellaneous small articles not covered by distinct classifications are also included. The manufacture of ivory, shell, and bone work, not including buttons, combs, and hairpins, which was treated as a separate industry at former censuses, is now included in the Miscellaneous Articles not Elsewhere Classified industry. The figures for 1929 and earlier years, as given in table 1, have been adjusted so as to make them comparable with those for 1931.

SUMMARY FOR THE UNITED STATES, 1899 TO 1931, AND FOR STATES, 1931

[Data for establishments with products under \$5,000 in value are included for 1919 and prior years but not for 1921 and subsequent years. See sec. 3d, p. 4. Statistics are given for all States for which separate figures can be published without disclosing, exactly or approximately, the data reported by individual establishments. Certain of the "Other States," however, are more important in the industry than some of the States shown separately]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²
<i>United States</i>						
1931.....	709	13,802	\$13,118,853	\$22,370,002	\$55,133,480	\$32,753,327
1929.....	835	19,113	19,465,294	35,657,170	89,049,387	50,002,208
1927.....	617	17,250	18,630,202	35,001,078	83,017,778	48,916,095
1925.....	561	15,040	15,514,874	29,882,100	71,648,618	41,700,428
1923.....	572	14,125	14,370,204	29,652,310	65,649,408	35,907,090
1921.....	548	12,208	11,778,208	25,627,802	53,801,868	28,274,060
1919.....	705	14,803	12,042,845	33,884,040	60,871,011	32,980,002
1914.....	547	8,194	3,058,238	0,380,067	19,554,682	10,167,615
1909.....	413	7,630	2,630,451	0,386,101	14,255,207	7,870,100
1904.....	393	8,803	3,322,561	0,207,310	14,825,115	8,617,799
1899.....	402	7,052	2,450,020	4,601,624	10,910,099	5,928,075
Percent of increase or decrease						
(-):						
1929-31.....	-15.1	-27.3	-32.6	-37.2	-36.4	-35.8
1927-29.....	35.3	10.7	4.4	1.9	3.3	4.2
1925-27.....	10.0	14.8	20.1	17.1	17.1	17.1
1923-25.....	-1.0	6.5	7.9	0.8	9.1	16.0
1921-23.....	4.4	15.7	22.1	16.2	22.0	27.3
1919-21.....	-22.3	-17.5	-0.0	-24.7	-19.5	-14.3
1921-31.....	29.4	13.8	11.4	-12.3	2.5	15.8
1919-29.....	18.4	29.1	50.4	5.2	20.0	54.6
1909-19.....	70.7	93.0	341.7	430.6	369.1	319.1
1899-1909.....	-10.6	8.3	19.6	27.9	30.6	32.8
<i>States, 1931</i>						
California.....	38	270	\$278,144	\$505,098	\$1,308,800	\$802,838
Connecticut.....	18	732	792,206	602,331	2,120,234	1,467,003
Illinois.....	75	1,344	1,333,406	1,698,285	4,938,802	3,240,517
Iowa.....	5	197	107,451	523,414	522,788	269,374
Kentucky.....	6	209	143,528	217,947	584,570	306,032

For footnotes, see end of table.

MISCELLANEOUS ARTICLES NOT ELSEWHERE CLASSIFIED 1119

SUMMARY FOR THE UNITED STATES, 1899 TO 1931, AND FOR STATES, 1931—Con.

[See note at head of table]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel and purchased electric energy	Value of products	Value added by manufacture
<i>States, 1931—Continued</i>						
Maryland.....	6	151	\$119,518	\$216,620	\$539,497	\$322,877
Massachusetts.....	51	1,393	1,178,000	2,313,607	5,353,094	3,045,487
Michigan.....	12	124	89,586	129,417	370,353	249,966
Missouri.....	7	86	65,158	87,704	189,038	101,274
New Jersey.....	28	1,084	1,064,111	1,183,693	4,077,568	2,891,875
New York.....	338	5,273	5,390,878	11,121,478	25,506,765	14,385,287
Ohio.....	14	159	127,330	208,768	540,800	332,032
Pennsylvania.....	52	1,208	951,162	1,855,991	3,737,435	1,871,504
Rhode Island.....	23	1,214	1,127,584	1,221,397	3,617,996	2,396,602
Texas.....	4	14	11,694	48,897	88,357	39,460
Washington.....	4	13	12,060	33,164	75,175	42,011
Wisconsin.....	8	204	163,263	336,826	675,637	338,811
Other States ⁴	20	208	193,694	272,095	820,472	548,377

¹ For 1929, manufacturers' sales (shipments or deliveries); for other years, production. See sec. 16, p. 9.

² Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 20, p. 11.

³ Includes \$2,516,521, value of products normally belonging to other industries, made as secondary products by establishments classified in this industry. Does not include \$8,253,030, value of miscellaneous articles, normally belonging in this industry, reported as secondary products by establishments engaged primarily in other lines of manufacture.

⁴ Alabama, 1 establishment; Colorado, 2; District of Columbia, 1; Florida, 1; Geo. Indiana, 2; Louisiana, 1; Maine, 1; Minnesota, 4; Nebraska, 2; New Hampshire, 2; North Carol. Oregon, 1.

MODELS AND PATTERNS, NOT INCLUDING PAPER PATTERNS

Description of the industry.—The establishments classified in this industry are engaged primarily in the manufacture of patterns and models for use in making matrices or molds for casting metal or for making brick, glassware, etc.; and of hat blocks, wax figures, dress and show forms, and similar commodities.

SUMMARY FOR THE UNITED STATES, 1899 TO 1931, AND FOR STATES, 1931

[Data for establishments with products under \$5,000 in value are included for 1919 and prior years but no for 1921 and subsequent years. See sec. 3d, p. 4. Statistics are given for all States for which separate figures can be published without disclosing, exactly or approximately, the data reported by individual establishments. One of the "Other States," however, is more important in the industry than Colorado]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products ^{1,2}	Value added by manufacture ³
<i>United States</i>						
1931.....	649	4,332	\$7,378,165	\$2,786,935	\$16,192,426	\$13,405,491
1929.....	804	6,778	13,233,622	5,314,359	30,621,074	25,306,715
1927.....	693	5,584	10,544,694	4,659,266	23,494,992	18,835,726
1925.....	689	5,262	9,419,777	4,927,230	22,484,585	17,557,355
1923.....	697	5,813	9,765,810	11,187,572	30,164,709	18,977,137
1921.....	656	3,936	6,026,634	4,042,100	15,742,112	11,700,012
1919.....	928	6,949	10,318,104	6,395,834	25,300,389	18,304,555
1914.....	762	4,274	3,103,061	2,045,327	8,604,695	6,559,368
1909.....	709	4,171	2,929,252	2,876,230	8,868,166	5,991,936
1904.....	547	2,780	1,788,184	922,081	4,545,004	3,622,923
1899.....	530	2,607	1,564,948	824,852	3,834,498	3,006,646
Percent of increase or decrease (—):						
1929-31.....	-19.3	-36.1	-44.2	-47.6	-47.1	-47.0
1927-29.....	16.0	21.4	25.5	14.1	30.3	34.4
1925-27.....	0.6	6.1	11.9	-5.4	4.5	7.3
1923-25.....	-1.1	-9.5	-3.5	-69.0	-25.5	-7.5
1921-23.....	6.3	47.7	62.0	176.8	91.6	62.2
1919-21.....	-29.2	-43.4	-41.6	-36.8	-37.8	-38.1
1921-31.....	-1.1	10.1	22.4	-31.1	2.9	14.6
1919-29.....	-13.4	-2.5	28.3	-16.9	21.0	33.9
1909-19.....	30.9	66.6	252.2	122.4	185.3	215.5
1899-1909.....	33.8	60.0	87.2	248.7	131.3	99.1
<i>States, 1931</i>						
California.....	44	194	\$295,391	\$160,698	\$738,891	\$578,193
Colorado.....	4	7	11,477	6,148	36,395	30,247
Connecticut.....	20	137	249,212	55,655	430,446	380,791
Illinois.....	68	349	622,468	211,633	1,299,709	1,088,076
Indiana.....	21	142	212,382	69,168	429,383	360,215
Iowa.....	4	14	22,028	6,626	43,825	37,199
Maryland.....	9	29	45,860	16,288	85,218	68,928
Massachusetts.....	58	415	671,675	195,332	1,553,846	1,353,014
Michigan.....	50	634	1,244,673	382,281	2,256,430	1,874,149
Minnesota.....	8	32	49,231	15,071	104,209	89,138
Missouri.....	18	153	222,815	61,002	599,621	538,619
New Jersey.....	27	122	197,899	76,100	428,666	352,556
New York.....	105	754	1,443,184	831,813	3,866,163	3,034,355
Ohio.....	83	636	1,074,920	357,266	2,237,814	1,880,548
Oregon.....	3	21	32,553	6,092	56,374	50,232
Pennsylvania.....	52	307	394,247	163,119	839,511	676,392
Rhode Island.....	6	38	65,469	26,432	124,394	98,962
Washington.....	9	26	42,720	16,255	94,323	78,068
Wisconsin.....	38	262	377,828	98,497	755,728	657,231
Other States ⁴	16	60	102,143	32,459	205,977	173,518

¹ For 1929, manufacturers' sales (shipments or deliveries); for other years, production. See sec. 16, p. 9.

² Includes values of miscellaneous products, not normally belonging to this industry, made as secondary products by establishments engaged primarily in the manufacture of models and patterns, as follows: 1931, \$137,216; 1929, \$220,670; 1927, \$424,450; 1925, \$438,368; corresponding amounts for earlier years not available. Does not include following values of models and patterns made as secondary products by establishments classified in other industries: 1931, \$1,669,816; 1929, \$8,610,354; 1927, \$762,165; 1925, \$316,809; 1923, \$1,247,026; 1921, \$432,206; 1919, \$1,105,665; corresponding amounts for earlier years not available.

³ Value of products less cost of materials, fuel, and purchased electric energy. See sec. 20, p. 11.

⁴ Alabama, 1 establishment; Delaware, 2; Kentucky, 2; Louisiana, 1; Maine, 1; Nebraska, 1; New Hampshire, 2; Oklahoma, 1; Tennessee, 1; Texas, 2; Virginia, 1; West Virginia, 1.

THE MUSICAL-INSTRUMENTS INDUSTRIES

Description of the industries.—This report covers four industries, namely: (1) Pianos, (2) Organs, (3) Piano and Organ Materials, and (4) Musical Instruments and Parts and Materials, not Elsewhere Classified. The first classification embraces establishments whose principal products are complete pianos. The second covers the manufacture of complete pipe organs and reed organs. The third is applied to establishments engaged in the manufacture of piano and organ materials for sale as such. The products include piano strings, plates, keys, actions, keyboards, cases, back frames, pedal attachments, hammers, sounding boards, legs, and bridges; organ reeds, pipes, stops, knobs, and reed boards; and perforated music rolls. The establishments in the fourth industry are engaged primarily in the manufacture of musical instruments other than pianos and organs, and of parts and materials for such instruments.

Duplication in cost of materials and value of products.—Parts and materials for sale as such are made as primary products by all establishments classified in the Piano and Organ Materials industry and by some of those in the Musical Instruments and Parts and Materials, not Elsewhere Classified industry. To the extent to which the products of these establishments are used as materials by establishments manufacturing complete instruments, the combined figures for cost of materials and value of products of the four industries taken as a group, as given in tables 1 and 3, include duplication. In other words, the total cost of materials for the group as a whole, as given in table 1, exceeds the amount actually expended for materials purchased from sources outside the group, and the value of products of the group, as given in table 1, exceeds the combined value of the finished products in the form in which they reach the ultimate consumer (this value being based, however, on f.o.b. factory prices, not on retail prices). In like manner, the use of the products of certain establishments as materials by other establishments in the Musical Instruments and Parts and Materials, not Elsewhere Classified industry, results in duplication within that industry.

Detailed statistics of products.—The differences between the values of pianos, of organs, and of piano and organ parts and materials for sale as such, as given in table 3, and the values of products of the Piano industry, the Organ industry, and the Piano and Organ Materials industry, respectively, as given in table 1, are due to the fact that table 3 covers the entire output of the several items, regardless of the industries reporting them, whereas the statistics in table 1 cover the respective *industries* and therefore relate only to the products actually made in those industries. To illustrate: The total value of pianos made in 1931, \$12,780,746, as given in table 3, includes the value of pianos made as secondary products in industries other than the Piano industry but does not include the value of commodities other than pianos made as secondary products in the Piano industry; whereas the value of products of the Piano industry, \$15,293,048, as given in table 1, covers the secondary products made in that industry but does not include data for pianos made in other industries.

TABLE 1.—SUMMARY FOR THE INDUSTRIES IN COMBINATION AND SEPARATELY, FOR THE UNITED STATES, 1899 TO 1931, AND FOR STATES, 1931

[Data for establishments with products under \$5,000 in value are included for 1919 and prior years but not for 1921 and subsequent years. See sec. 3d, p. 4. Statistics are given for all States for which separate figures can be published without disclosing, exactly or approximately, the data reported by individual establishments. Certain of the Other States—namely, Connecticut, Maryland, and New Jersey, in the Organ industry—are, however, more important in the industry than some of the States shown separately]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²
THE GROUP AS A WHOLE						
<i>United States</i>						
1931.....	230	10,008	\$11,151,664	\$10,762,421	\$32,206,671	\$21,444,250
1929.....	316	18,625	25,782,387	30,030,326	79,981,287	49,950,961
1927.....	371	28,769	40,585,227	52,601,020	131,065,983	78,374,963
1925.....	393	35,713	48,356,886	73,913,403	170,629,405	96,716,002
1923.....	424	37,838	50,426,166	78,349,702	175,220,263	96,870,561
1921.....	446	27,175	32,719,754	53,930,068	114,775,980	60,845,882
1919.....	612	40,020	41,904,511	77,719,622	162,357,279	84,637,657
1914.....	719	39,387	24,513,163	42,275,375	92,572,812	50,297,437
1909.....	694	39,842	23,759,843	44,654,337	93,017,652	48,363,315
1904.....	625	35,229	19,689,146	29,116,566	60,574,340	40,457,774
1899.....	619	23,709	12,771,762	18,573,022	44,410,328	25,837,306
Percent of increase or decrease (-):						
1929-31.....	-27.2	-46.3	-56.7	-64.2	-59.7	-57.1
1927-29.....	-14.8	-35.3	-36.5	-43.0	-39.0	-36.3
1925-27.....	-5.6	-19.4	-16.1	-28.7	-23.2	-19.0
1923-25.....	-7.3	-5.6	-4.1	-5.7	-2.6	-0.2
1921-23.....	-4.9	39.2	54.1	45.3	52.7	59.2
1919-21.....	-27.1	-32.1	-21.9	-30.6	-29.3	-28.1
1921-31.....	-48.4	-63.2	-65.9	-80.0	-71.9	-64.8
1919-29.....	-48.4	-53.5	-38.5	-61.4	-50.7	-41.0
1909-19.....	-11.8	0.4	76.4	74.0	74.5	75.0
1899-1909.....	12.1	68.0	86.0	140.4	109.5	87.2
PIANOS						
<i>United States</i>						
1931.....	50	4,737	\$5,156,909	\$5,892,230	\$15,293,048	\$9,400,818
1929.....	81	9,970	14,000,826	18,866,437	42,501,375	23,634,938
1927.....	124	16,582	23,890,846	33,898,668	75,490,681	41,592,013
1925.....	142	20,079	28,096,207	49,265,643	101,180,777	51,885,134
1923.....	160	22,208	30,679,198	54,178,803	111,159,398	56,980,595
1921.....	185	15,830	18,887,126	38,051,996	73,630,912	34,987,016
1919.....	191	22,957	25,474,200	54,364,656	107,088,050	52,723,394
1914.....	255	23,877	15,704,679	29,091,045	62,775,035	33,683,990
1909.....	294	25,497	15,737,277	32,818,770	66,589,273	33,750,503
1904 ³	249	21,002	12,170,251	19,587,770	46,922,471	27,334,701
Percent of increase or decrease (-):						
1929-31.....	(4)	-52.5	-63.2	-68.8	-64.0	-60.2
1927-29.....	-34.7	-39.9	-41.4	-44.3	-43.7	-43.2
1925-27.....	-12.7	-17.4	-15.0	-31.2	-25.4	-19.8
1923-25.....	-11.2	-9.6	-8.4	-9.0	-9.0	-8.9
1921-23.....	-13.5	40.2	62.4	40.2	50.9	62.9
1919-21.....	-3.1	-31.0	-25.9	-28.9	-31.2	-33.6
1921-31.....	-73.0	-70.1	-72.7	-84.8	-79.2	-73.1
1919-29.....	-57.6	-56.6	-45.0	-65.3	-60.3	-55.2
1909-19.....	-35.0	-10.0	61.9	65.7	60.9	56.2
<i>States, 1931</i>						
Illinois.....	13	1,304	\$1,477,240	\$1,740,792	\$4,456,059	\$2,706,267
Massachusetts.....	5	488	661,876	774,912	1,502,812	727,900
New York.....	19	1,721	1,948,412	1,667,001	5,312,235	3,645,234
Other States ⁴	13	1,224	1,169,375	1,700,525	4,021,942	2,321,417

See footnotes at end of table.

TABLE I.—SUMMARY FOR THE INDUSTRIES IN COMBINATION AND SEPARATELY, FOR THE UNITED STATES, 1899 TO 1931, AND FOR STATES, 1931—Continued

[See note at head of table]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²
ORGANS						
<i>United States</i>						
1931.....	42	1,460	\$1,763,270	\$1,626,948	\$5,710,028	\$4,083,080
1929.....	62	2,389	3,603,631	3,090,676	11,322,730	8,232,060
1927.....	63	2,770	4,363,731	4,494,449	15,438,623	10,944,174
1925.....	57	2,460	3,609,586	3,748,942	12,283,089	8,534,147
1923.....	59	1,855	2,661,804	2,802,566	9,602,692	6,800,126
1921.....	56	2,346	3,342,795	3,730,917	10,184,854	6,453,937
1919.....	68	1,941	1,978,518	2,217,097	5,973,268	3,750,171
1914.....	85	3,063	1,993,415	2,659,980	6,297,348	3,637,368
1909.....	86	2,383	1,428,641	1,722,923	4,745,655	3,022,732
1904 ³	94	3,623	2,034,559	2,068,638	6,041,844	3,973,206
Percent of increase or decrease (—):						
1929-31.....	(*)	-38.9	-51.1	-47.4	-49.6	-50.4
1927-29.....	(*)	-13.8	-17.4	-31.2	-26.6	-24.8
1925-27.....	(*)	12.6	20.9	19.9	25.7	28.2
1923-25.....	(*)	32.6	35.6	33.8	27.9	25.5
1921-23.....	(*)	-20.9	-20.4	-24.9	-5.7	5.4
1919-21.....	(*)	20.9	69.0	68.3	70.5	71.8
1921-31.....	(*)	-37.8	-47.3	-56.4	-43.9	-36.7
1919-29.....	(*)	23.1	82.1	39.4	89.6	119.2
1909-19.....	(*)	-18.5	38.5	28.7	25.9	24.3
<i>States, 1931</i>						
Massachusetts.....	4	186	\$266,410	\$181,155	\$707,777	\$616,622
New York.....	8	79	105,895	97,070	352,497	255,427
Ohio.....	5	64	75,760	55,835	169,937	114,102
Pennsylvania.....	5	45	55,904	53,045	177,183	119,138
Wisconsin.....	3	62	75,315	84,862	228,206	143,841
Other States ⁴	17	1,030	1,183,926	1,149,981	3,984,431	2,834,450
PIANO AND ORGAN MATERIALS						
<i>United States</i>						
1931.....	50	1,213	1,178,187	1,004,845	3,089,883	2,085,038
1929.....	67	3,060	3,597,210	4,247,919	11,853,098	7,635,179
1927.....	85	5,369	6,593,645	9,657,350	22,244,731	12,587,381
1925.....	94	8,618	10,131,137	15,293,635	36,836,238	21,542,609
1923.....	99	9,672	11,243,188	17,019,395	58,838,735	21,819,340
1921.....	89	3,569	5,969,804	8,221,840	18,597,436	10,375,560
1919.....	113	11,009	10,467,137	16,693,140	36,789,627	20,096,487
1914.....	138	10,616	5,654,557	9,501,766	19,875,762	10,373,996
1909.....	127	10,140	5,595,650	9,223,044	18,474,616	9,251,572
1904 ³	101	8,456	4,322,268	6,330,219	13,128,315	6,798,066
Percent of increase or decrease (—):						
1929-31.....	(*)	-60.7	-67.2	-76.3	-74.0	-72.7
1927-29.....	(*)	-42.8	-45.4	-46.0	-46.6	-39.3
1925-27.....	(*)	-37.4	-34.9	-36.9	-39.6	-41.6
1923-25.....	(*)	-10.9	-9.9	-10.1	-5.2	-1.3
1921-23.....	(*)	73.7	88.3	107.0	108.8	110.3
1919-21.....	(-1.2)	-49.4	-43.0	-50.7	-49.4	-48.4
1921-31.....	(*)	-78.2	-80.3	-87.8	-83.4	-79.9
1919-29.....	(-40.7)	-71.9	-65.6	-74.6	-67.7	-62.0
1909-19.....	(-11.0)	8.6	87.1	81.0	99.1	117.2
<i>States, 1931</i>						
Connecticut.....	5	398	\$321,378	\$236,066	\$694,921	\$458,855
Illinois.....	7	188	202,839	234,530	625,923	391,093
Massachusetts.....	7	74	80,459	60,849	206,411	145,562
New York.....	12	260	278,630	231,000	738,292	507,292
Pennsylvania.....	7	68	84,285	94,552	276,153	181,601
Wisconsin.....	3	12	17,266	9,261	36,191	25,930
Other States ⁵	9	213	193,934	138,287	511,992	373,705

See footnotes at end of table.

TABLE 1.—SUMMARY FOR THE INDUSTRIES IN COMBINATION AND SEPARATELY, FOR THE UNITED STATES, 1899 TO 1931, AND FOR STATES, 1931—Continued

[See note at head of table]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²
MUSICAL INSTRUMENTS AND PARTS AND MATERIALS, NOT ELSEWHERE CLASSIFIED						
<i>United States</i>						
1931.....	88	2,593	\$3,053,298	\$2,238,398	\$8,113,712	\$5,875,314
1929.....	106	3,176	4,580,720	3,825,294	14,274,078	10,448,784
1927.....	99	4,018	5,737,005	4,640,553	17,891,948	13,251,395
1925.....	100	4,566	6,519,956	5,575,183	20,329,301	14,754,118
1923.....	106	4,103	5,841,976	4,348,938	15,619,438	11,270,500
1921.....	116	3,424	4,520,029	3,325,345	12,353,778	9,028,433
1919.....	240	4,113	3,984,656	4,444,729	12,506,334	8,061,605
1914.....	241	1,831	1,160,512	1,022,584	3,624,667	2,602,083
1909.....	187	1,822	992,275	889,600	3,228,108	2,338,508
1904.....	181	2,139	1,162,068	1,129,939	3,481,710	2,351,771
1899.....	229	2,405	1,232,039	1,205,337	3,394,734	2,189,397
Percent of increase or decrease (-):						
1929-31.....	-17.0	-18.4	-33.3	-41.5	-43.2	-43.8
1927-29.....	(³)	-21.0	-20.2	-17.6	-20.2	-21.1
1925-27.....	-1.0	-11.8	-12.0	-16.8	-12.0	-10.2
1923-25.....	-5.7	11.0	11.6	28.2	30.2	30.9
1921-23.....	-8.6	10.8	29.2	30.8	26.4	24.8
1919-21.....	-51.7	-16.8	13.4	-25.2	-1.2	12.0
1921-31.....	-24.1	-24.3	-32.4	-32.7	-34.3	-34.9
1919-29.....	-55.8	-22.8	15.0	-13.9	14.1	29.6
1909-19.....	28.3	125.7	301.6	309.6	287.4	244.7
1899-1909.....	-18.3	-24.2	-19.5	-26.2	-4.9	6.8
<i>States, 1931</i>						
California.....	6	67	\$99,840	\$51,706	\$248,542	\$196,836
Illinois.....	20	457	594,476	518,465	1,795,003	1,276,538
Indiana.....	10	900	1,090,915	689,435	2,698,492	1,979,057
Massachusetts.....	7	160	156,077	87,659	406,838	319,179
Michigan.....	6	188	159,721	106,359	491,804	325,445
New Jersey.....	4	209	246,121	182,916	621,857	438,941
New York.....	20	129	177,720	182,718	681,063	399,245
Pennsylvania.....	5	50	70,242	41,561	153,480	111,919
Other States ⁴	10	383	488,186	317,579	1,145,733	828,154

¹ For 1929, manufacturers' sales (shipments or deliveries); for other years, production. See sec. 16, p. 9.² Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 20, p. 11.³ No comparable figures for years prior to 1904.⁴ Percent not computed where base is less than 100.⁵ Indiana, 4 establishments; Maryland, 1; Michigan, 3; New Jersey, 1; Ohio, 1; Pennsylvania, 2; Wisconsin, 1.⁶ California, 2 establishments; Connecticut, 3; District of Columbia, 1; Illinois, 4; Kansas, 1; Kentucky, 1; Maryland, 1; Missouri, 1; New Jersey, 2; Vermont, 1.⁷ California, 2 establishments; Maryland, 1; New Jersey, 2; Ohio, 4.⁸ Connecticut, 2 establishments; Iowa, 1; Missouri, 1; Ohio, 4; Rhode Island, 1; Wisconsin, 1.

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE INDUSTRIES, FOR THE UNITED STATES, 1931, 1929, 1925, 1919, 1914, AND 1909, AND FOR STATES, 1931

[This table presents statistics for only those States for which figures can be given without disclosing, exactly or approximately, the 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. See sec. 13, p. 8.]

	Average number employed during year	NUMBER REPORTED FOR—											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
PIANOS													
<i>United States</i>													
1931.....	4,737	5,027	5,279	5,480	5,428	5,170	4,356	4,208	4,582	4,423	4,417	4,378	4,099
1929.....	9,070	10,628	10,573	10,273	10,032	9,559	9,348	9,220	9,945	10,130	10,026	10,479	8,825
1925.....	20,079	20,090	20,457	20,101	19,421	19,183	18,827	18,503	19,428	20,288	21,281	21,823	21,149
1919.....	22,957	21,585	22,224	22,882	23,363	23,461	23,954	24,202	24,508	24,719	24,802	21,201	22,483
1914.....	23,877	25,168	25,221	25,373	25,276	24,565	23,752	22,497	22,563	22,015	23,130	23,001	23,144
1909.....	25,407	24,077	24,914	25,194	25,232	25,316	25,037	24,266	24,925	25,873	26,680	26,921	26,952
<i>States, 1931</i>													
Illinois.....	1,304	1,357	1,438	1,503	1,472	1,319	1,291	1,137	1,152	1,384	1,327	1,200	1,062
Massachusetts.....	488	431	501	505	510	502	409	501	477	461	517	493	484
New York.....	1,721	2,068	2,112	2,126	2,160	2,087	1,903	1,386	1,804	1,425	1,406	1,430	1,357
ORGANS													
<i>United States</i>													
1931.....	1,460	1,664	1,677	1,664	1,596	1,503	1,418	1,434	1,437	1,395	1,371	1,180	1,170
1929.....	2,389	2,487	2,476	2,466	2,400	2,351	2,345	2,372	2,360	2,390	2,307	2,352	2,298
1925.....	2,460	2,387	2,373	2,416	2,405	2,417	2,418	2,385	2,417	2,516	2,508	2,587	2,690
1919.....	1,941	1,770	1,814	1,854	1,900	1,941	1,951	2,000	1,961	1,937	2,005	2,039	2,111
1914.....	3,083	3,191	3,217	3,231	3,194	3,115	3,103	3,077	2,994	2,918	2,920	2,866	2,930
1909.....	2,383	2,400	2,391	2,361	2,365	2,394	2,388	2,379	2,356	2,358	2,383	2,418	2,460
<i>States, 1931</i>													
Massachusetts.....	180	237	235	232	199	154	166	183	178	156	151	139	127
New York.....	79	89	90	83	81	80	80	81	85	77	73	66	62
Ohio.....	64	80	78	72	69	68	62	54	54	58	55	57	57
Pennsylvania.....	45	63	57	50	45	38	42	39	38	43	43	39	40
Wisconsin.....	62	96	94	90	78	78	53	57	50	48	49	39	38
PIANO AND ORGAN MATERIALS													
<i>United States</i>													
1931.....	1,213	1,298	1,279	1,274	1,243	1,226	1,125	1,008	1,191	1,292	1,288	1,218	1,060
1929.....	3,090	3,506	3,434	3,267	3,105	2,901	2,767	2,543	2,982	3,166	3,277	3,208	2,870
1925.....	8,618	9,133	8,940	8,919	8,305	8,100	7,929	8,058	8,368	8,681	9,021	9,089	8,875
1919.....	11,009	9,703	9,914	10,402	10,903	10,984	11,045	11,816	11,957	11,705	11,227	11,316	11,730
1914.....	10,616	11,633	11,712	11,839	11,523	11,035	10,451	9,776	9,789	9,865	9,899	9,888	9,983
1909.....	10,140	9,823	9,936	9,975	10,082	9,986	10,080	9,634	9,957	10,291	10,688	10,639	10,599
<i>States, 1931</i>													
Connecticut.....	398	438	381	374	376	359	359	429	421	420	408	400	410
Illinois.....	188	209	203	207	206	209	195	111	203	202	190	169	154
Massachusetts.....	74	62	76	74	70	69	77	71	73	79	82	80	75
New York.....	260	288	281	284	264	267	261	191	232	273	270	272	233
Pennsylvania.....	68	70	74	72	70	62	62	67	73	73	65	62	61
Wisconsin.....	12	12	12	12	12	13	13	13	14	13	16	11	9

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE INDUSTRIES, FOR THE UNITED STATES, 1931, 1929, 1925, 1919, 1914, AND 1909, AND FOR STATES, 1931—Continued

[See note at head of table]

	Average number employed during year	NUMBER REPORTED FOR—											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
MUSICAL INSTRUMENTS AND PARTS AND MATERIALS, NOT ELSEWHERE CLASSIFIED													
<i>United States</i>													
1931.....	2,593	2,606	2,718	2,737	2,692	2,565	2,537	2,470	2,478	2,569	2,616	2,583	2,544
1929.....	3,176	3,487	3,368	3,282	3,169	3,068	2,972	2,875	3,034	3,124	3,261	3,314	3,174
1925.....	4,556	4,529	4,469	4,563	4,529	4,432	4,371	4,350	4,403	4,550	4,718	4,861	4,900
1919.....	4,113	3,853	3,966	3,969	4,012	4,006	4,025	4,136	4,117	4,170	4,302	4,363	4,377
1914.....	1,831	1,792	1,825	1,845	1,855	1,810	1,805	1,772	1,802	1,812	1,864	1,880	1,810
1909.....	1,822	1,749	1,750	1,832	1,851	1,814	1,780	1,781	1,775	1,785	1,875	1,908	1,957
<i>States, 1931</i>													
California.....	67	57	57	60	70	67	69	69	70	69	72	75	73
Illinois.....	457	456	482	488	480	470	469	441	475	437	433	437	436
Indiana.....	960	1,021	1,015	1,015	1,004	915	915	807	917	931	971	964	942
Massachusetts.....	150	181	151	160	160	141	138	138	145	150	150	155	163
Michigan.....	188	192	190	190	180	183	182	179	178	198	197	195	195
New Jersey.....	209	188	204	204	202	201	197	202	204	220	231	236	223
New York.....	129	138	138	140	132	134	132	114	120	122	124	126	127
Pennsylvania.....	50	55	55	54	48	48	48	48	48	48	48	48	48

TABLE 3.—PRODUCTS, BY KIND, NUMBER, AND VALUE, FOR THE UNITED STATES: 1925 TO 1931

[The figures for 1929 represent manufacturers' sales (shipments or deliveries); those for other years refer to production. See sec. 16, p. 9. See also "Detailed statistics of products", p. 121]

KIND	1931	1929	1927	1925
1. The Musical Instruments industries, all products, total value.....	\$32,206,671	\$79,981,287	\$131,065,983	\$170,629,405
2. Musical instruments, parts, and materials.....	29,534,741	73,082,681	125,900,802	164,810,338
3. Other products (normally belonging to other industries).....	1,761,209	6,898,606	5,165,181	5,810,067
4. Receipts for custom and repair work.....	910,721			
5. Musical instruments, parts, and materials made as secondary products in other industries, value.....	723,049	3,746,657	1,450,185	112,848
Musical instruments, parts, and materials, all industries:				
Aggregate value (sum of 2 and 5).....	\$30,257,790	\$76,829,338	\$127,350,987	\$164,923,186
Pianos:				
Total number.....	51,370	130,973	218,140	300,684
Total value.....	\$12,780,746	\$37,998,695	\$67,210,775	\$93,676,977
Upright:				
Total number.....	20,167	67,820	150,407	236,692
Total value.....	\$2,888,316	\$12,445,723	\$33,709,334	\$57,233,738
Upright, other than player:				
Number.....	18,329	49,039	69,864	87,285
Value.....	\$2,580,124	\$7,869,761	\$12,261,827	\$16,873,982
Upright, player:				
Number.....	1,692	17,336	76,447	143,331
Value.....	\$273,975	\$4,116,294	\$20,027,574	\$38,100,755
Upright, player, reproducing type:				
Number.....	146	1,445	4,096	5,470
Value.....	\$34,217	\$459,668	\$1,419,933	\$2,193,001

TABLE 3.—PRODUCTS, BY KIND, NUMBER, AND VALUE, FOR THE UNITED STATES: 1925 to 1931—Continued

[See note at head of table]

KIND	1931	1929	1927	1925
Musical instruments—Continued.				
Pianos—Continued.				
Grand:				
Total number.....	31,203	53,426	61,759	65,689
Total value.....	\$9,892,430	\$22,163,534	\$30,732,850	\$34,120,696
Baby, other than player type:				
Number.....	24,712	36,929	43,772	40,357
Value.....	\$7,013,460	\$12,851,376	\$17,540,842	\$16,244,241
Baby, player:				
Number.....	(1)	384	490	5,287
Value.....	(1)	\$159,884	\$306,025	\$2,042,350
Baby, player, reproducing type:				
Number.....	168	5,905	7,223	7,597
Value.....	\$94,419	\$2,072,047	\$5,550,067	\$6,317,357
Parlor, other than player:				
Number.....	5,517	7,767	8,757	9,170
Value.....	\$2,378,117	\$4,159,979	\$5,319,799	\$5,433,129
Parlor, player:				
Number.....	(1)	42	42	156
Value.....	(1)	\$30,159	\$30,422	\$103,801
Parlor, player, reproducing type:				
Number.....	311	2,165	1,182	2,543
Value.....	\$259,928	\$2,135,268	\$1,695,631	\$3,526,957
Concert:				
Number.....	68	234	293	579
Value.....	\$44,404	\$154,821	\$260,034	\$452,861
Other:				
Number.....	2,427			
Value.....	\$102,102			
Automatic and electric: ³				
Total number.....	(1)	4,727	5,974	4,303
Total value.....	(1)	\$3,359,438	\$2,768,591	\$2,322,543
Organs:				
Total number.....	2,196	4,562	5,562	6,315
Total value.....	\$5,451,275	\$11,528,667	\$17,167,406	\$13,249,750
Pipe:				
Number.....	917	1,799	2,471	1,955
Value.....	\$5,283,331	\$11,153,383	\$16,782,128	\$12,808,220
Reed:				
Number.....	1,279	2,703	3,091	4,360
Value.....	\$167,944	\$375,284	\$385,280	\$441,530
Wind instruments:				
Total number.....	73,950	128,696	(5)	(5)
Total value.....	\$2,813,521	\$5,544,747	\$8,394,785	\$9,477,978
Cup-mouthpiece instruments:				
Number.....	41,466	71,594	(5)	(5)
Value.....	\$1,291,442	\$2,459,763	\$6,550,097	\$8,846,386
Saxophones:				
Number.....	13,756	33,196	(5)	(2)
Value.....	\$849,897	\$2,085,910		
Woodwinds:				
Number.....	18,728	23,906	(5)	(2)
Value.....	\$672,182	\$999,074	\$1,844,688	\$631,592
Stringed instruments:				
Total number.....	408,305	421,638	(5)	(5)
Total value.....	\$1,946,534	\$3,067,231	\$4,201,013	\$5,858,714
Banjos:				
Number.....	33,181	80,471		
Value.....	\$463,908	\$1,192,408		
Guitars:				
Number.....	150,308	162,764		
Value.....	\$903,323	\$1,040,810		
Mandolins:				
Number.....	17,310	28,490	(5)	(5)
Value.....	\$127,135	\$244,625		
Ukuleles:				
Number.....	203,116	142,896		
Value.....	\$293,863	\$310,776		
Violins:				
Number.....	3,280	4,127		
Value.....	\$126,402	\$219,235		
Other stringed instruments:				
Number.....	1,110	2,890		
Value.....	\$31,903	\$59,377		

See footnotes at end of table.

TABLE 3.—PRODUCTS, BY KIND, NUMBER, AND VALUE, FOR THE UNITED STATES: 1925 TO 1931—Continued

[See note at head of table]

KIND	1931	1929	1927	1925
Musical instruments—Continued.				
Percussion instruments, value.....	\$1,531,003	\$2,184,832	\$2,715,312	\$2,886,458
Other instruments, value.....	316,473	728,523		
Piano and organ parts and materials made for sale as such, total value.....	3,805,996	12,946,192	25,482,165	37,915,178
Piano parts and materials, value.....	2,917,892	9,295,902	20,455,181	30,005,452
Organ parts and materials, value.....	459,918	1,094,746	1,810,024	1,842,197
Perforated music rolls, value.....	428,186	2,555,644	3,216,960	6,007,529
Parts and materials for musical instruments other than pianos and organs, made for sale as such, value.....	1,612,242	2,830,451	2,179,520	1,867,131

¹ Combined with figure for "Other" grand pianos to avoid disclosing, exactly or approximately, the output of individual establishments.

² Includes data for "Baby player," "Parlor player," and "Automatic and electric" (coin-operated and electric) to avoid disclosing, exactly or approximately, the data reported by individual establishments.

³ Reported as coin-operated and similar types for 1931 and as automatic and electric for 1929 and earlier years. The production in 1931 was very small, and it was necessary to combine the data therewith for those for "Other" grand pianos in order to avoid disclosing the output of individual establishments.

⁴ Includes data for pianos not reported by kind.

⁵ Number not reported.

⁶ Not reported separately.

⁷ Value of a few orchestrons included to avoid disclosing data for individual establishments.

TABLE 4.—PRODUCTS, BY KIND, NUMBER, AND VALUE, BY STATES: 1931

[Statistics are given for all States for which separate figures can be published without disclosing, exactly or approximately, the data reported by individual establishments. Certain of the "Other States," however, are more important in the manufacture of the respective classes of instruments than some of the States shown separately]

KIND AND STATE	Number of establishments	Number	Value	KIND AND STATE	Number of establishments	Number	Value
Pianos, total.....	154	51,370	\$12,780,746	Organs—Continued.			
Upright, including player type, total.....	48	20,167	2,888,316	Pipe—Continued.			
Illinois.....	12	7,005	967,680	Wisconsin.....	3	46	\$225,384
Indiana.....	5	2,276	394,685	Other States.....	18	582	3,541,132
Massachusetts.....	4	790	130,851	Reed, total.....	6	1,279	167,944
Michigan.....	3	920	136,890	Wind instruments, total.....	23		2,813,521
New York.....	18	6,941	955,535	Indiana.....	5		1,448,167
Other States.....	6	2,235	302,775	New York.....	4		78,536
Grand, including player type, total.....	53	31,203	9,892,430	Pennsylvania.....	3		27,011
Illinois.....	14	7,154	1,860,721	Other States.....	11		1,259,807
Massachusetts.....	5	3,162	1,136,819	Stringed instruments, total.....	23		1,946,534
New York.....	19	9,371	3,706,222	Illinois.....	8		882,808
Other States.....	15	11,516	3,188,668	New York.....	5		135,516
Organs, total.....	148	2,196	5,451,275	Other States.....	10		928,210
Pipe, total.....	47	917	5,283,331	Percussion and other instruments, total.....	26		1,847,476
Illinois.....	6	154	678,074	Illinois.....	8		783,353
New York.....	9	63	518,436	New York.....	6		170,365
Ohio.....	5	31	145,508	Other States.....	12		893,758
Pennsylvania.....	6	41	174,797				

¹ This total is less than the sum of the items below, for the reason that in most cases 1 establishment manufactured more than 1 kind of instruments.

² Includes data for a few coin-operated (automatic and electric) pianos, to avoid disclosing the output of individual establishments.

OPTICAL GOODS

[A preliminary report for this industry was issued under date of Aug. 10, 1932]

Description of the industry.—The establishments in this industry are engaged in the manufacture of spectacles, eyeglasses, goggles, frames, and mountings; lenses and prisms; microscopes, telescopes, field glasses, and opera glasses; ophthalmic instruments and apparatus; photomicro- and micro-projection apparatus; optical testing and measuring instruments; and artificial eyes.

TABLE 1.—SUMMARY FOR THE UNITED STATES, 1931, 1929, AND 1927, AND FOR STATES, 1931

[Statistics are given for all States for which separate figures can be published without disclosing, exactly or approximately, the data reported by individual establishments. One of the "Other States"—namely, Massachusetts—is, however, more important in the industry than Pennsylvania]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²
<i>United States</i>						
1931.....	102	7,446	\$8,755,958	\$7,523,942	\$27,887,459	\$20,363,517
1929.....	117	9,701	12,633,947	11,859,128	40,562,459	28,703,331
1927 ³	96	7,596	9,560,725	8,865,025	32,757,210	23,892,185
Percent of increase or decrease (—):						
1929-31.....	-12.8	-23.2	-30.7	-36.6	-31.2	-29.1
1927-29.....	(4)	27.7	32.1	33.8	23.8	20.1
<i>States, 1931</i>						
Illinois.....	9	56	\$77,046	\$117,039	\$429,801	\$312,762
New Jersey.....	11	205	221,902	287,571	901,951	614,380
New York.....	39	3,563	4,446,475	3,190,510	13,436,435	10,245,925
Ohio.....	6	84	103,587	123,204	385,081	261,877
Pennsylvania.....	8	345	366,901	782,493	1,668,601	886,108
Rhode Island.....	6	438	426,882	536,742	1,420,471	892,729
Other States ⁴	23	2,755	3,113,165	2,486,383	9,636,119	7,149,736

¹ For 1929, manufacturers' sales (shipments or deliveries); for other years, production. See sec. 16, p. 9.
² Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 20, p. 11.

³ No comparable figures can be given for years prior to 1927.

⁴ Percent not computed where base is less than 100.

⁵ California, 1 establishment; Colorado, 1; Connecticut, 1; Indiana, 2; Massachusetts, 12; Michigan, 1; Minnesota, 2; Missouri, 1; Virginia, 2.

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1931 AND 1929, AND FOR STATES, 1931

[This table presents statistics for only those States for which figures can be given without disclosing, exactly or approximately, 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. See sec. 13, p. 8.]

	Average number employed during year	NUMBER REPORTED FOR—											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<i>United States</i>													
1931.....	7,446	7,780	7,690	7,746	7,788	7,749	7,683	<i>6,842</i>	7,400	7,322	7,220	7,068	7,051
1929 ¹	9,701	3,323	9,561	9,723	9,643	9,781	9,778	9,649	9,542	9,678	9,834	9,901	9,799
<i>States, 1931</i>													
Illinois.....	56	56	54	59	64	62	59	66	63	54	45	42	43
New Jersey.....	205	193	193	211	208	232	225	220	212	188	197	197	186
New York.....	3,563	3,959	3,809	3,827	3,787	3,677	3,560	3,406	3,430	3,396	3,365	3,223	3,256
Ohio.....	84	85	84	84	86	86	85	82	80	83	83	84	84
Pennsylvania.....	345	341	348	355	355	354	349	343	339	<i>539</i>	337	339	340
Rhode Island.....	438	<i>408</i>	415	425	433	440	440	440	436	447	455	454	450

¹ No figures for wage earners by months can be given for years prior to 1920.

TABLE 3.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1931, 1929, AND 1927

[The figures for 1931 and 1927 represent production; those for 1929 refer to sales (shipments or deliveries) by manufacturers. See sec. 16, p. 9.]

KIND	1931	1929	1927
1. Optical Goods industry, all products, total value.....	\$27,887,459	\$40,562,459	\$32,757,210
2. Optical goods and parts.....	27,549,174	39,369,973	32,150,310
3. Other products (not normally belonging to the industry)....	180,686		
4. Receipts for contract and custom work.....	157,599	1,192,480	606,900
5. Optical goods and parts made as secondary products in other industries.....	233,119	368,108	257,295
Optical goods, all industries, aggregate value (sum of 2 and 5).....	27,782,293	39,738,171	32,407,605
Ophthalmic products, total value.....	23,011,161	29,342,851	28,298,325
Spectacle and eyeglass frames, mountings, and parts, total.....	12,209,570	14,196,798	13,283,980
All-metal.....	8,785,934	7,594,616	
Metal and zylonite.....	1,220,342	1,919,396	9,007,827
Zylonite and shell.....	2,203,294	4,682,786	4,276,153
Lenses, total.....	7,125,884	9,557,041	10,057,395
Single-vision.....	3,271,981	4,468,154	4,388,526
Multi-vision (bifocals and trifocals).....	3,355,366	4,463,493	4,635,912
Colored lenses.....	498,537	625,394	1,032,957
Goggles, eye protectors, mountings, and parts.....	2,669,410	3,093,076	2,515,455
Accessories (cases, holders, etc.).....	285,301	542,270	
Other ophthalmic products ¹	720,996	1,113,668	2,441,495
Optical instruments and parts, total.....	3,671,670	7,567,897	2,766,807
Photographic and projection lenses and prisms.....	893,223	3,320,716	(²)
Telescopes and field and opera glasses.....	213,822	195,926	(²)
Optical measuring instruments.....		241,577	(²)
Other optical instruments, and parts and accessories ⁴	2,564,625	3,809,678	(²)
Other optical goods ⁵	1,099,462	2,827,423	1,342,473

¹ Readers and simple magnifiers and other ophthalmic products.

² No data.

³ Called for separately on schedule but combined to avoid disclosing approximations of data for individual establishments.

⁴ Microscopes, photomicro, and micro-projection apparatus and condensers, range finders and fire-control optical instruments, searchlight mirrors and reflectors, and parts and accessories.

⁵ Optical machinery and tools and glass plates and disks (rough-cut, molded, or pressed).

PENCILS, LEAD (INCLUDING MECHANICAL)

[A preliminary report for this industry was issued under date of July 19, 1932]

Description of the industry.—The establishments classified in this industry are engaged primarily in the manufacture of complete wooden and mechanical lead pencils, and of pencil holders, leads, and findings.

TABLE 1.—SUMMARY FOR THE UNITED STATES, 1899 TO 1931, AND FOR STATES, 1931

[Data for establishments with products under \$5,000 in value are included for 1910 and prior years but not for 1921 and subsequent years. See sec. 3d, p. 4. Statistics are given for all States for which separate figures can be published without disclosing, exactly or approximately, the data reported by individual establishments. Certain of the "Other States," however, are more important in the industry than some of the States shown separately]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²
<i>United States</i>						
1931-----	26	3,459	\$3,177,315	\$5,202,253	\$13,958,854	\$8,756,601
1929-----	38	5,703	6,292,276	10,756,296	27,772,955	17,016,659
1927-----	27	5,301	5,942,783	9,931,493	24,499,839	14,588,346
1925-----	25	5,636	6,031,305	9,168,525	25,050,757	15,832,232
1923-----	20	5,826	5,540,474	8,659,173	24,567,504	15,908,331
1921-----	14	6,134	5,034,899	7,259,861	21,382,050	14,122,189
1919-----	12	5,970	5,299,050	9,073,563	24,134,159	15,060,598
1914-----	14	4,330	1,944,376	4,564,000	3,328,418	3,764,418
1909-----	11	4,134	1,711,981	3,595,633	7,378,744	3,783,111
1904-----	8	3,065	1,059,076	1,803,834	4,425,896	2,622,362
1899-----	7	2,162	683,281	1,030,917	2,222,276	1,191,359
Percent of increase or decrease (—):						
1929-31-----	(3)	-39.3	-49.5	-51.8	-40.7	-48.5
1927-29-----	(3)	7.6	5.9	8.3	13.4	16.8
1925-27-----	(3)	-5.9	-1.5	8.3	-2.2	-8.3
1923-25-----	(3)	-3.3	8.9	5.9	2.0	-2
1921-23-----	(3)	13.5	10.0	19.3	14.9	12.6
1919-21-----	(3)	-14.0	-5.0	-20.0	-11.4	-6.2
1921-31-----	(3)	-32.6	-36.9	-28.3	-34.7	-38.0
1919-29-----	(3)	-4.5	18.7	18.5	15.1	13.0
1909-19-----	(3)	44.4	209.5	152.3	227.1	298.1
1899-1909-----	(3)	91.2	150.6	248.8	232.0	217.5
<i>States, 1931</i>						
Illinois-----	3	174	\$152,510	\$123,065	\$440,632	\$326,567
New Jersey-----	4	1,161	934,862	1,886,109	5,009,890	3,123,781
Rhode Island-----	6	224	210,855	219,539	595,853	376,314
Other States ⁴ -----	13	1,900	1,879,088	2,973,540	7,903,479	4,929,639

¹ For 1929, manufacturers' sales (shipments or deliveries); for other years, production. See sec. 16, p. 9.

² Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 20, p. 11.

³ Percent not computed where base is less than 100.

⁴ California, 1; Georgia, 2; Missouri, 1; New York, 4; Pennsylvania, 2; Tennessee, 2; West Virginia, 1.

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1931, 1929, 1925, 1919, 1914, AND 1909, AND FOR STATES, 1931

[This table presents statistics for only those States for which figures can be given without disclosing, exactly or approximately, the 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. See sec. 13, p. 8]

	Average number employed during year	NUMBER REPORTED FOR—											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<i>United States</i>													
1931	3,459	3,574	3,555	3,521	3,418	3,415	3,396	3,443	3,401	3,532	3,492	3,401	3,302
1929	5,703	5,513	5,650	5,782	5,817	5,786	5,747	5,649	5,798	5,898	5,882	5,715	5,202
1925	5,636	5,563	5,662	5,668	5,663	5,712	5,567	5,621	5,639	5,586	5,677	5,728	5,649
1919	5,970	5,929	5,935	5,754	5,832	5,957	5,959	6,140	6,150	6,049	6,051	6,192	6,186
1914	4,330	4,241	4,366	4,298	4,302	4,418	4,408	4,343	4,313	4,317	4,300	4,348	4,306
1909	4,134	3,769	3,803	3,867	4,032	4,076	4,143	4,258	4,250	4,312	4,344	4,361	4,361
<i>States, 1931</i>													
Illinois	174	245	203	172	148	<i>143</i>	146	163	171	194	177	164	164
New Jersey	1,161	1,227	1,233	1,197	1,172	1,173	1,161	1,161	1,145	1,154	1,141	1,098	1,073
Rhode Island	224	<i>306</i>	210	217	220	214	212	225	224	231	240	247	243

TABLE 3.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, BY STATES: 1931 AND 1929

[The figures for 1931 represent production; those for 1929 refer to sales (shipments or deliveries) by manufacturers. See sec. 16, p. 9. Statistics are given for all States for which separate figures can be published without disclosing, exactly or approximately, the data reported by individual establishments. Certain of the "Other States," however, are more important in the industry than some of the States shown separately]

KIND AND STATE	1931		1929	
	Quantity (gross)	Value	Quantity (gross)	Value
1. The Lead-Pencil industry, all products, total value		\$13,953,854		\$27,772,955
2. Lead pencils and lead-pencil parts		12,665,800		19,637,382
3. Other products (not normally belonging to the industry)		1,293,054		8,115,573
4. Lead pencils and lead-pencil parts made as secondary products in other industries		4,194,843		4,819,045
Lead pencils and lead-pencil parts, all industries: Aggregate value (sum of 2 and 4)		16,860,643		24,476,427
Pencils, total value		15,175,104		22,490,592
Wood pencils, total	4,764,002	10,008,942	5,853,713	13,604,718
New Jersey	2,081,941	4,522,788	2,795,487	7,277,017
Other States	2,682,061	5,486,154	3,058,226	6,327,701
Mechanical pencils, total	146,405	5,166,162	165,115	8,885,874
By kind:				
Silver	257	27,975	1,605	164,095
Flated	4,728	153,145	47,177	1,352,055
Pyroxilin	81,000	3,746,235	50,661	4,282,553
Other	60,420	1,238,807	65,672	3,087,171
By States:				
Illinois	18,940	1,025,333	47,396	2,708,186
Massachusetts ¹	1,290	108,520	1,035	237,842
New Jersey	42,208	1,050,253	19,530	812,726
New York ¹	41,604	1,001,288	41,263	1,391,347
Ohio ¹	1,159	83,559	(²)	(²)
Rhode Island	11,516	460,982	25,029	807,504
Other States	29,688	1,431,227	30,862	2,928,269
Pencil parts made for sale as such, total value		1,685,539		1,985,835
Leads for mechanical pencils		905,726		889,064
Leads for other pencils		579,813		787,840
Other parts (holders and findings)		200,000		208,931

¹ The Massachusetts figures for both years and the Ohio figures for 1931 refer solely, and the New York figures for both years mainly, to pencils made as secondary products by establishments classified in other industries.
² Included in figure for "Other States" to avoid disclosing data for individual establishments.

PENS, FOUNTAIN AND STYLOGRAPHIC; PEN POINTS, GOLD, STEEL, AND BRASS

[A preliminary report for this industry was issued under date of Aug. 24, 1932]

Description of the industry.—This industry embraces establishments whose principal products fall into one or another of the following classes: Fountain pens, fountain-pen desk sets, stylographic pens, and ink pencils; gold, steel, and brass pen points; rubber holders and other parts.

TABLE I.—SUMMARY FOR THE UNITED STATES, 1899 TO 1931, AND FOR STATES, 1931

[Data for establishments with products under \$5,000 in value are included for 1910 and prior years but not for 1921 and subsequent years. See sec. 3d, p. 4. Statistics are given for all States for which separate figures can be published without disclosing, exactly or approximately, the data reported by individual establishments. Certain of the "Other States," however, are more important in the industry than some of the States shown separately]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²
<i>United States</i>						
1931.....	68	3,945	\$4,364,216	\$7,219,257	\$23,798,701	\$16,579,444
1929.....	76	4,600	5,304,142	11,459,411	34,211,384	22,751,973
1927.....	68	4,031	4,734,561	10,374,789	25,645,189	15,270,400
1925.....	78	4,203	4,852,547	8,594,651	26,595,734	18,001,083
1923.....	73	4,301	4,732,023	9,343,299	23,730,202	14,386,903
1921.....	67	3,403	3,729,116	6,424,464	14,976,011	8,551,547
1919.....	75	4,430	4,177,191	7,172,212	19,477,809	12,305,597
1914.....	72	1,973	1,134,785	2,033,151	8,021,033	5,987,882
1909.....	70	1,924	941,825	2,341,720	5,315,389	2,973,669
1904.....	54	1,596	737,920	1,269,446	3,247,881	1,978,435
1899.....	48	1,169	509,124	716,935	1,979,872	1,283,837
Percent of increase or decrease (—):						
1929-31.....	(2)	-14.2	-17.7	-37.0	-30.4	-27.1
1927-29.....	(3)	14.1	12.0	10.5	33.4	49.0
1925-27.....	(3)	-4.1	-2.4	20.7	-3.6	-15.2
1923-25.....	(3)	-2.3	2.5	-8.0	12.1	25.1
1921-23.....	(3)	26.4	26.9	45.4	58.5	68.2
1919-21.....	(2)	-23.2	-10.7	-10.4	-23.1	-30.5
1921-31.....	(2)	15.9	17.0	12.4	58.9	93.9
1919-29.....	(2)	3.8	27.0	59.8	75.6	84.9
1909-19.....	(2)	130.2	343.5	206.3	266.4	313.8
1899-1909.....	(2)	64.6	85.0	226.6	168.5	131.6
<i>States, 1931</i>						
Massachusetts.....	6	134	\$151,789	\$262,727	\$614,340	\$351,613
New Jersey.....	13	1,188	1,423,409	2,626,906	6,181,433	3,554,527
New York.....	29	440	567,570	1,415,798	3,022,034	1,606,236
Other States.....	20	2,183	2,221,448	2,913,826	13,980,894	11,067,068

¹ For 1929, manufacturers' sales (shipments or deliveries); for other years, production. See sec. 16, p. 9.

² Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 20, p. 11.

³ Percent not computed where base is less than 100.

⁴ Alabama, 1 establishment; Connecticut, 2; Illinois, 5; Iowa, 1; Ohio, 5; Pennsylvania, 1; Rhode Island 2; Virginia, 1; Wisconsin, 2.

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1931, 1929, 1925, 1919, 1914, AND 1909, AND FOR STATES, 1931

[This table presents statistics for only those States for which figures can be given without disclosing, exactly or approximately, the 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. See sec. 13, p. 8]

	Average number employed during year	NUMBER REPORTED FOR—											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<i>United States</i>													
1931	3,945	<i>3,819</i>	3,916	3,952	4,008	3,973	3,944	3,795	3,990	3,986	4,043	4,031	3,887
1929	4,600	<i>4,298</i>	4,331	4,389	4,340	4,375	4,356	4,394	4,623	5,028	5,183	5,080	4,801
1925	4,203	4,098	4,163	4,168	4,105	4,081	4,053	3,787	3,970	4,224	4,526	4,649	4,615
1919	4,430	4,241	<i>4,209</i>	4,393	4,489	4,470	4,520	4,437	4,570	4,212	4,298	4,498	4,773
1914	1,973	2,037	2,012	1,986	1,996	1,979	1,977	1,955	1,963	1,954	1,955	1,960	<i>1,992</i>
1909	1,924	<i>1,843</i>	1,924	1,925	1,914	1,904	1,887	1,900	1,887	1,951	1,987	1,993	1,997
<i>States, 1931</i>													
Massachusetts	134	163	163	156	139	135	130	130	121	122	126	114	<i>109</i>
New Jersey	1,188	<i>1,123</i>	1,142	1,155	1,197	1,171	1,169	1,198	1,193	1,217	1,237	1,217	1,236
New York	440	388	435	447	436	412	425	349	416	477	505	524	463

TABLE 3.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, BY STATES: 1931 AND 1929

[The figures for 1931 represent production; those for 1929, manufacturers' sales (shipments or deliveries). See sec. 16, p. 9. Statistics are given for all States for which separate figures can be published without disclosing, exactly or approximately, the data reported by individual establishments. Certain of the "Other States," however, reported larger quantities and values of the respective classes of products than some of the States shown separately]

KIND AND STATE	1931		1929	
	Quantity (gross)	Value	Quantity (gross)	Value
1. Pen industry, all products, total value		\$23,798,701		\$34,211,384
2. Pens, fountain-pen desk sets, pen points, and pen parts		17,191,873		26,524,887
3. Other products (not normally belonging to the industry)		5,811,378		6,369,734
4. Receipts for custom and repair work		795,750		1,316,763
5. Pens, pen points, etc., made as secondary products in other industries		614,619		2,710,232
Pens, fountain-pen desk sets, pen points, and pen parts, all industries:				
Aggregate value (sum of 2 and 5)		17,806,492		29,235,169
Pens, total	73,761	14,579,055	99,354	22,668,386
By kind:				
Fountain pens	72,976	14,466,242	97,409	22,383,698
Stylographic pens	785	112,813	1,945	284,688
By States:				
Illinois	8,846	1,973,597	13,895	2,846,003
New Jersey	21,216	3,355,793	22,828	5,756,711
New York	20,987	2,172,482	18,935	1,963,270
Other States	22,712	7,077,183	43,696	12,102,402
Fountain-pen desk sets	1,659	860,580	2,734	2,377,843
Pen points, total	1,248,455	1,274,021	2,044,624	3,081,324
By kind:				
Gold	24,049	768,097	37,439	1,782,916
Steel and brass	1,224,406	505,924	2,007,185	1,298,408
By States:				
New Jersey	852,919	660,360	1,475,192	1,637,533
New York	188,976	394,782	450,169	1,108,424
Other States	206,560	118,879	119,263	335,367
Pen parts made for sale as such, value		1,092,538		1,108,116

PHOTOGRAPHIC APPARATUS AND MATERIALS AND PROJECTION APPARATUS

Description of the industry.—The establishments classified in this industry are engaged primarily in the manufacture of cameras, motion-picture machines, photostat machines, blue-printing machines, flash-light apparatus and materials, tripods, plate holders, film rewinders and reels, developing tanks, sensitized paper and cloth, dry plates and films, lantern and stereopticon slides, and sheet gelatin.

TABLE 1.—SUMMARY FOR THE UNITED STATES, 1899 TO 1931, AND FOR STATES, 1931

[Data for establishments with products under \$5,000 in value are included for 1919 and prior years but not for 1921 and subsequent years. See sec. 3d, p. 4. Statistics are given for all States for which separate figures can be published without disclosing, exactly or approximately, the data reported by individual establishments. One of the "Other States," namely, New York, is, however, more important in the industry than any of the States shown separately.]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²
<i>United States</i>						
1931.....	110	10,609	\$13,082,078	\$20,867,793	\$79,506,499	\$58,638,700
1929.....	115	12,967	20,507,499	30,392,531	102,827,356	72,434,855
1927.....	122	12,120	18,310,992	29,020,235	90,827,737	61,807,502
1925.....	118	9,154	13,300,250	25,779,218	78,653,651	52,874,433
1923.....	111	9,905	13,224,381	19,253,149	71,828,028	52,574,879
1921.....	136	10,690	13,771,145	22,835,741	70,595,344	47,759,603
1919.....	187	13,465	14,900,237	33,806,708	88,393,022	54,586,314
1914.....	146	8,674	5,545,304	11,530,381	39,041,526	27,502,145
1909.....	103	5,195	3,037,077	6,707,632	22,561,341	15,853,709
1904.....	130	3,812	1,796,215	4,161,530	13,023,297	8,861,767
1899.....	153	3,444	1,442,848	3,378,210	7,799,388	4,421,173
Percent of increase or decrease (—):						
1929-31.....	-4.3	-18.2	-36.2	-31.3	-22.7	-19.0
1927-29.....	-5.7	7.0	12.0	4.7	13.2	17.2
1925-27.....	3.4	32.4	37.7	12.6	15.5	16.9
1923-25.....	6.3	-7.6	0.6	33.9	9.5	.6
1921-23.....	-18.4	-7.3	-4.0	-15.7	1.7	10.1
1919-21.....	-27.3	-20.6	-7.6	-32.5	-20.1	-12.5
1921-31.....	-19.1	-0.8	-5.0	-8.6	12.6	22.8
1919-29.....	-38.5	-3.7	37.6	-10.1	16.3	32.7
1909-19.....	81.6	159.2	390.6	474.0	291.8	244.3
1899-1909.....	-32.7	50.8	110.5	13.6	189.3	268.6
<i>States, 1931</i>						
California.....	8	120	\$165,946	\$578,524	\$1,005,961	\$427,437
Illinois.....	24	663	725,491	2,157,077	5,070,529	2,913,452
Indiana.....	4	26	32,923	84,372	179,108	94,736
Massachusetts.....	3	12	11,144	16,051	33,930	17,879
Minnesota.....	3	53	68,727	74,938	222,457	147,519
Missouri.....	7	191	215,041	519,015	1,310,099	791,084
Pennsylvania.....	14	177	185,315	394,362	1,112,447	718,085
Other States ³	47	9,367	11,677,491	17,043,464	70,571,908	53,528,514

¹ For 1929, manufacturers' sales (shipments or deliveries); for other years, production. See sec. 16, p. 9.

² Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 20, p. 11.

³ Iowa, 2 establishments; Louisiana, 1; Michigan, 2; New Jersey, 2; New York, 32; Ohio, 3; Texas, 1; Washington, 2; Wisconsin, 2.

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1931, 1929 AND 1925, AND FOR STATES, 1931

[This table presents statistics for only those States for which figures can be given without disclosing, exactly or approximately, the 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. See sec. 13, p. 8]

	Average number employed during year	NUMBER REPORTED FOR—											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<i>United States</i>													
1931.....	10,609	11,618	11,499	11,399	11,493	11,209	10,921	10,319	<i>9,365</i>	9,655	9,836	9,980	10,019
1929.....	12,967	11,600	11,858	12,156	12,537	12,641	12,877	13,066	13,087	13,346	13,970	14,316	14,154
1925.....	9,154	8,964	9,074	9,227	9,340	9,358	9,321	8,940	8,778	8,923	9,198	9,354	9,425
<i>States, 1931</i>													
California.....	120	114	110	95	87	86	88	116	129	147	154	152	160
Illinois.....	663	707	722	<i>600</i>	701	684	665	636	645	651	639	649	658
Indiana.....	26	<i>25</i>	<i>25</i>	<i>25</i>	26	25	26	<i>25</i>	27	26	<i>25</i>	26	26
Massachusetts.....	12	15	14	13	13	14	13	9	13	7	8	14	8
Minnesota.....	53	42	45	45	47	58	65	69	69	73	41	<i>40</i>	<i>40</i>
Missouri.....	191	209	201	197	195	195	190	190	182	187	186	<i>178</i>	181
Pennsylvania.....	177	188	184	179	181	177	179	177	176	179	174	<i>168</i>	<i>168</i>

TABLE 3.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1931

KIND	Value
1. Photographic Apparatus and Materials and Projection Apparatus industry, all products, total value.....	\$79,506,499
2. Photographic apparatus and materials and projection apparatus.....	78,946,366
3. Other products (not normally belonging to the industry).....	148,642
4. Receipts for contract, custom, and repair work.....	411,491
5. Photographic apparatus and materials and projection apparatus made as secondary products in other industries.....	325,464
Photographic apparatus and materials and projection apparatus, all industries, aggregate value (sum of 2 and 5).....	79,271,830
Cameras (including motion-picture cameras) and projection apparatus.....	9,570,714
Films and sensitized cloth and paper.....	60,465,356
Slides and sensitized plates.....	1,893,652
Other photographic apparatus and materials.....	7,342,108

PIPES (TOBACCO)

[A preliminary report for this industry was issued under date of June 27, 1932]

Description of the industry.—The establishments classified in this industry are engaged primarily in the manufacture of tobacco pipes from brier, meerschaum, composition, corncobs, and clay, with mouth-pieces of amber, rubber, celluloid, ivory, and other materials.

TABLE 1.—SUMMARY FOR THE UNITED STATES, 1899 TO 1931, AND FOR STATES¹ 1931

[Data for establishments with products under \$5,000 in value are included for 1919 and prior years but not for 1921 and subsequent years. See sec. 34, p. 4. Statistics are given for all States for which separate figures can be published without disclosing, exactly or approximately, the data reported by individual establishments]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²
<i>United States</i>						
1931.....	24	1,677	\$1,761,388	\$1,775,548	\$5,522,316	\$3,746,768
1929.....	24	1,680	1,961,020	1,749,222	5,557,982	3,808,760
1927.....	23	1,807	2,278,537	2,722,706	7,273,806	4,551,100
1925.....	28	1,970	2,290,769	2,718,135	7,298,595	4,580,460
1923.....	30	2,402	2,720,218	3,827,027	9,704,816	5,876,889
1921.....	36	1,765	1,937,097	2,825,856	7,123,810	4,297,954
1919.....	56	2,539	2,555,291	3,497,414	11,563,777	8,050,363
1914.....	47	2,354	1,188,411	2,308,246	4,220,084	1,911,838
1909.....	62	2,775	1,254,842	2,458,655	5,311,900	2,863,245
1904.....	68	1,947	830,801	1,354,848	2,834,496	1,480,148
1899.....	98	1,585	737,647	1,106,290	2,471,908	1,365,609
Percent of increase or decrease (—):						
1929-31.....		-0.2	-10.2	1.5	-0.6	-1.6
1927-29.....	(3)	-7.0	-13.9	-35.8	-23.6	-16.3
1925-27.....	(2)	-8.3	-0.5	0.2	-0.3	-0.6
1923-25.....	(2)	-18.0	-15.8	-29.0	-24.8	-22.1
1921-23.....	(2)	36.1	40.4	35.5	36.2	36.7
1919-21.....	(2)	-30.5	-24.2	-19.2	-38.3	-40.7
1921-31.....	(2)	-5.0	-9.1	-37.2	-22.5	-12.8
1919-29.....	(2)	-33.8	-23.3	-50.0	-51.9	-52.7
1909-19.....	(2)	-8.5	103.6	42.2	117.5	182.4
1899-1909.....	(2)	75.1	70.1	122.2	114.9	108.9
<i>States, 1931</i>						
Missouri.....	8	242	\$161,866	\$223,491	\$590,964	\$307,473
New York.....	10	889	943,095	1,050,499	3,114,834	2,064,385
Other States ⁴	6	546	656,427	501,558	1,876,468	1,374,910

¹ For 1929, manufacturers' sales (shipments or deliveries); for other years, production. See sec. 16, p. 9.

² Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 20, p. 11.

³ Percent not computed where base is less than 100.

⁴ Arkansas, 1 establishment; Illinois, 1; Massachusetts, 2; New Jersey, 2.

TABLE 2.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1931 AND 1929

[The figures for 1931 represent production; those for 1929, manufacturers' sales (shipments or deliveries). See sec. 16, p. 9]

KIND	VALUE	
	1931	1929
1. Pipes (Tobacco) industry, all products, total value.....	\$5,522,316	\$5,557,982
2. Pipes (tobacco), pipe parts, and cigar and cigarette holders and parts.....	5,360,786	5,499,197
3. Other products (not normally belonging to the Pipes (tobacco) industry).....	158,596	49,817
4. Receipts for contract, custom, and repair work.....	2,934	8,968
5. Pipes (tobacco), pipe parts, cigar and cigarette holders and parts made as secondary products in other industries, value.....	19,232	38,027
Pipes (tobacco), pipe parts, cigar and cigarette holders and parts, all industries, aggregate value (sum of 2 and 5).....	5,380,018	5,537,224
Pipes (tobacco) and pipe parts, total.....	5,241,123	5,356,208
Brier pipes.....	4,676,383	4,618,995
Corncob pipes.....	480,448	550,244
Other pipes and pipe parts.....	84,292	186,969
Cigar and cigarette holders and parts.....	138,895	181,016

ROOFING, BUILT-UP AND ROLL; ASPHALT SHINGLES; ROOF COATINGS OTHER THAN PAINT

[A preliminary report for this industry was issued under date of Sept. 14, 1932]

Description of the industry.—This industry classification covers establishments engaged wholly or principally in the manufacture of asphalt roll roofing, asphalt shingles, tar and asphalt saturated felt, and asphalt and other roof coatings.

Detailed statistics of products.—The census for 1929 was the first for which a special schedule, calling for data on quantities and values of the several classes of products, was used, and consequently it is impossible to give comparative figures for earlier years in table 3.

Production of roofing materials, all classes.—Roofing materials of various classes are manufactured and specifically reported to the Bureau of the Census in seven different industries, namely: Roofing, Built-up and Roll, etc.; Asbestos Products; Clay Products; Concrete Products; Paints and Varnishes; Marble, Granite, Slate, and Other Stone Products; Lumber and Timber Products. (Manufacturers of metal roofing do not report it separately.) For convenience, the production figures for all these classes of roofing materials have been brought together in table 5.

TABLE 1.—SUMMARY FOR THE UNITED STATES, 1899 TO 1931, AND FOR STATES, 1931

[Data for establishments with products under \$5,000 in value are included for 1919 and prior years but not for 1921 and subsequent years. See sec. 3d, p. 4. Statistics are given for all States for which separate figures can be published without disclosing exactly, or approximately, the data reported by individual establishments. Certain of the "Other States," however, are more important in the industry than some of the States shown separately]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²
<i>United States</i>						
1931.....	83	4, 123	\$5, 331, 030	\$32, 706, 052	\$58, 962, 919	\$26, 256, 567
1929.....	102	6, 027	8, 951, 537	61, 391, 590	103, 506, 090	42, 114, 500
1927.....	100	7, 255	10, 712, 626	67, 327, 735	123, 210, 305	55, 882, 570
1925.....	140	8, 310	12, 144, 764	78, 596, 627	123, 590, 811	44, 964, 184
1923.....	122	7, 665	10, 826, 123	55, 520, 343	84, 341, 931	28, 821, 698
1921.....	136	6, 908	9, 213, 047	45, 013, 397	76, 193, 430	31, 180, 033
1919.....	178	8, 871	10, 344, 043	52, 587, 777	85, 895, 359	33, 307, 822
1914.....	170	4, 088	2, 642, 136	17, 604, 944	27, 977, 913	10, 372, 969
1909.....	117	2, 465	1, 338, 697	12, 468, 177	19, 204, 423	6, 746, 246
1904.....	307	8, 810	4, 007, 669	10, 842, 307	19, 870, 953	9, 028, 646
1899.....	267	7, 593	3, 072, 317	6, 886, 006	13, 690, 540	6, 804, 534
Percent of increase or decrease (—):						
1929-31.....	-18.6	-31.6	-40.4	-46.7	-43.0	-37.7
1927-29.....	2.0	-16.9	-16.3	-8.8	-16.0	-24.6
1925-27.....	-28.6	-12.7	-11.8	-14.3	-0.3	24.2
1923-25.....	14.8	8.4	12.2	41.6	46.5	56.1
1921-23.....	-10.3	11.0	17.5	23.3	10.7	-7.6
1919-21.....	-23.6	-22.1	-10.9	-14.4	-11.3	-6.4
1921-31.....	-39.0	-40.3	-42.1	-27.3	-22.6	-15.8
1919-29.....	-42.7	-32.1	-13.5	16.7	20.5	26.4
1909-19.....	52.1	259.9	672.7	322.1	347.3	363.7
1899-1909.....	-56.2	-67.5	-56.4	80.9	40.3	-0.9

For footnotes, see end of table.

ROOFING, BUILT-UP AND ROLL; ASPHALT SHINGLES; COATINGS 1141

TABLE 1.—SUMMARY FOR THE UNITED STATES, 1899 TO 1931, AND FOR STATES, 1931—Continued

[See note at head of table]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²
<i>States, 1931</i>						
California.....	6	318	\$457,098	\$3,300,144	\$5,475,203	\$2,175,059
Illinois.....	18	1,365	1,623,034	9,581,345	17,354,815	7,773,470
Missouri.....	4	104	107,873	851,397	1,613,052	761,655
New Jersey.....	9	630	974,517	5,423,617	10,121,730	4,692,113
New York.....	9	182	217,555	961,360	1,958,476	907,116
Ohio.....	8	368	492,296	4,330,190	6,771,063	2,440,873
Pennsylvania.....	8	470	632,637	3,776,253	6,515,781	2,739,528
Other States ³	21	680	826,020	4,475,746	9,152,799	4,677,053

¹ For 1929, manufacturers' sales (shipments or deliveries); for other years, production. See sec. 16, p. 9.

² Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 20,

p. 11.

³ Alabama, 1 establishment; Colorado, 1; Florida, 1; Georgia, 3; Indiana, 1; Kentucky, 1; Louisiana, 1; Maryland, 1; Massachusetts, 3; Michigan, 1; Minnesota, 2; Tennessee, 1; Utah, 1; Virginia, 1; Washington, 1.

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1931, 1929, 1925, 1919, 1914, AND 1909, AND FOR STATES, 1931

[This table presents statistics for only those States for which figures can be given without disclosing, exactly or approximately, 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. See sec. 13, p. 8]

	Average number employed during year	NUMBER REPORTED FOR—											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<i>United States</i>													
1931.....	4,123	<i>3,733</i>	3,881	3,977	4,206	4,314	4,223	4,246	4,305	4,508	4,275	4,019	3,786
1929.....	6,027	<i>5,131</i>	5,596	5,885	6,262	6,598	6,837	6,412	6,422	6,409	5,106	5,598	5,267
1925.....	8,310	8,148	7,907	8,190	8,355	8,453	8,312	8,582	8,573	8,545	8,785	8,184	7,704
1919.....	8,871	7,814	<i>7,541</i>	7,647	7,837	8,114	8,563	9,228	9,748	10,034	10,082	9,827	9,717
1914.....	4,088	3,825	3,787	4,003	4,232	4,235	4,240	4,205	4,131	4,325	4,314	3,970	3,729
1909.....	2,465	<i>2,177</i>	2,204	2,342	2,465	2,494	2,408	2,424	2,465	2,694	2,753	2,635	2,522
<i>States, 1931</i>													
California.....	318	314	305	309	305	279	278	307	347	366	368	334	308
Illinois.....	1,365	1,264	1,330	1,398	1,476	1,453	1,388	1,399	1,422	1,440	1,347	1,302	1,171
Missouri.....	104	80	110	109	108	110	112	111	105	102	101	100	98
New Jersey.....	630	566	559	571	606	656	634	630	688	791	639	609	607
New York.....	182	157	153	159	193	205	179	194	195	197	200	176	176
Ohio.....	368	344	340	347	382	385	388	389	363	369	406	359	351
Pennsylvania.....	470	389	424	424	470	534	535	515	489	509	462	443	442

TABLE 3.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1931 AND 1929

[The figures for 1931 represent production; those for 1929, manufacturers' sales (shipments or deliveries). See sec. 16, p. 9. No comparable figures can be given for years prior to 1929. See "Detailed statistics of products", p. 1140]

KIND	1931	1929
1. "Roofing, Built-up and Roll; Asphalt Shingles; Roof Coatings Other Than Paint" industry, all products, total value.....	\$58,962,919	\$103,506,090
2. Roofing.....	49,453,352	94,591,578
3. Other products (not normally belonging to the industry).....	9,509,567	8,914,512
4. Roofing made as a secondary product in other industries.....	6,143,744	6,493,283
"Roofing, built-up and roll; asphalt shingles; roof coatings other than paint," all industries: Aggregate value (sum of 2 and 4).....	55,597,096	101,084,861
Asphalt roll roofing:		
Total roofing squares.....	17,525,143	28,437,076
Total value.....	\$20,272,517	\$36,109,653
Smooth surfaced:		
Roofing squares.....	11,650,193	18,718,704
Value.....	\$11,213,050	\$20,092,452
Grit surfaced:		
Roofing squares.....	5,865,950	9,718,372
Value.....	\$9,059,467	\$16,077,201
Asphalt shingles:		
Total roofing squares.....	6,558,624	11,676,636
Total value.....	\$22,566,749	\$42,291,343
Strip:		
Roofing squares.....	5,200,259	9,092,774
Value.....	\$18,328,528	\$33,707,384
Individual:		
Roofing squares.....	1,352,265	1,963,862
Value.....	\$4,238,221	\$8,583,959
Saturated felt:		
Total tons.....	143,512	205,525
Total value.....	\$6,025,401	\$9,803,629
Asphalt-saturated felt:		
Tons.....	110,727	137,025
Value.....	\$4,685,835	\$6,631,461
Tar-saturated felt:		
Tons.....	32,785	68,499
Value.....	\$1,339,566	\$3,172,168
Roof coatings and cements, total value.....	\$4,298,946	\$6,311,449
Asphalt roof cement (solid):		
Tons.....	16,630	35,161
Value.....	\$333,750	\$812,420
Fibrous plastic roof cement:		
Pounds.....	29,488,801	52,753,365
Value.....	\$1,347,599	\$2,336,111
Fibrous liquid roof coating:		
Gallons.....	4,979,013	4,941,563
Value.....	\$2,040,783	\$2,115,578
Nonfibrous liquid roof coating:		
Gallons.....	1,420,622	1,931,290
Value.....	\$576,814	\$1,017,346
Other roofing materials and those not reported by kind, value ¹	\$2,433,483	\$6,568,787

¹ Coal-tar roofing pitch, miscellaneous roofing materials, and roofing not reported by kind.

ROOFING, BUILT-UP AND ROLL; ASPHALT SHINGLES; COATINGS 1143

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, BY STATES: 1931

[Statistics are given for each State for which it is possible to publish separate figures without disclosing, exactly or approximately, the production reported by individual establishments. Certain of the "Other States," however, reported larger quantities and values of the respective classes of products than some of the States shown separately]

KIND AND STATE	Quantity	Value	KIND AND STATE	Quantity	Value
Asphalt, smooth-surfaced roll roofing, total	<i>Roofing squares</i> 11,659,193	\$11,213,050	Tar-saturated felt, total	<i>Tons</i> 32,785	\$1,339,566
California.....	1,427,908	1,299,577	Illinois.....	6,008	268,305
Illinois.....	3,135,554	2,998,660	Minnesota.....	1,980	103,310
New Jersey.....	903,140	856,222	Missouri.....	2,267	65,974
Pennsylvania.....	1,743,753	1,516,612	Pennsylvania.....	7,756	335,952
Other States.....	4,448,778	4,541,979	Other States.....	14,184	566,016
Asphalt, grit-surfaced roll roofing, total	5,805,950	9,059,467	Asphalt roof cement (solid), total	16,630	333,750
California.....	595,068	821,770	Illinois.....	4,358	113,732
Illinois.....	2,081,794	3,063,924	Ohio.....	2,147	18,814
New Jersey.....	484,945	661,081	Other States.....	10,095	201,204
New York.....	187,255	283,523	Fibrous plastic roof cement, total	<i>Pounds</i> 29,458,861	1,347,599
Ohio.....	332,527	1,040,930	California.....	223,268	13,997
Pennsylvania.....	668,828	1,520,234	Illinois.....	5,494,378	221,118
Other States.....	1,015,533	1,667,405	Missouri.....	2,446,075	86,077
Asphalt strip shingles, total	5,206,259	18,328,528	New Jersey.....	3,063,408	138,050
California.....	291,360	938,888	New York.....	2,363,483	94,615
Illinois.....	2,035,244	6,048,283	Ohio.....	3,062,752	127,538
New Jersey.....	1,032,641	4,047,407	Pennsylvania.....	4,519,488	255,248
New York.....	165,255	601,611	Other States.....	8,311,009	410,896
Ohio.....	456,759	1,601,294	Fibrous liquid roof coating, total	<i>Gallons</i> 4,979,013	2,040,783
Pennsylvania.....	272,505	947,244	California.....	23,304	13,582
Other States.....	952,495	4,083,801	Illinois.....	1,632,734	609,534
Asphalt individual shingles, total	1,352,265	4,238,221	New Jersey.....	621,631	406,169
California.....	190,512	487,244	New York.....	35,503	14,262
Illinois.....	360,107	1,031,551	Ohio.....	1,189,605	465,632
New Jersey.....	263,631	955,366	Pennsylvania.....	438,442	140,360
New York.....	146,529	529,909	Other States.....	1,037,794	391,244
Ohio.....	47,794	194,608	Nonfibrous liquid roof coating, total	1,420,622	576,814
Pennsylvania.....	338,692	1,029,543	California.....	101,328	34,651
Other States.....	338,692	1,029,543	Illinois.....	483,113	247,875
Asphalt-saturated felt, total	<i>Tons</i> 110,727	4,685,835	New Jersey.....	420,216	154,707
California.....	27,142	1,038,395	New York.....	34,044	11,509
Illinois.....	22,957	1,040,580	Pennsylvania.....	127,971	36,283
New Jersey.....	21,953	1,018,246	Other States.....	253,950	91,787
New York.....	15,042	612,552			
Pennsylvania.....	23,633	976,052			
Other States.....					

TABLE 5.—ROOFING MATERIALS, ALL KINDS—PRODUCTION, BY KIND, QUANTITY, AND VALUE, AND INDUSTRY IN WHICH MANUFACTURED, FOR THE UNITED STATES: 1925-31

[This table shows the production, so far as reported separately, of all classes of roofing materials. See "Production of roofing materials, all classes," p. 1140]

KIND ¹	Census year ²	Quantity	Value	Industry in which manufactured
Total.....	1931		\$67, 591, 511	
	1929		129, 832, 620	
		<i>Roofing squares</i>		
Asbestos shingles.....	1931	565, 997	3, 266, 054	Asbestos products other than steam packing and pipe and boiler covering.
	1929	894, 164	5, 277, 308	
	1927	1, 009, 767	6, 450, 088	
Asphalt roll roofing.....	1931	17, 525, 143	20, 272, 517	Roofing, built-up and roll; asphalt shingles; roof coatings other than paint.
	1929	28, 437, 076	36, 109, 653	
Asphalt shingles.....	1931	6, 558, 524	22, 566, 749	Do.
	1929	11, 676, 636	42, 291, 343	
		<i>Tons</i>		
Asphalt and tar-saturated felt.....	1931	143, 512	6, 025, 401	Do.
	1929	205, 525	9, 803, 629	
		<i>Roofing squares</i>		
Clay roofing tile.....	1931	285, 253	3, 125, 175	Clay products.
	1929	370, 771	3, 943, 847	
	1927	368, 451	5, 348, 750	
	1925	289, 956	5, 155, 301	
		<i>Tons</i>		
Concrete roofing tile.....	1931	31, 860	862, 197	Concrete products.
	1929	137, 052	2, 869, 062	
	1927	118, 365	3, 178, 290	
	1925	116, 555	3, 538, 601	
Asphalt roof cement (solid).....	1931	16, 630	333, 750	Roofing, built-up and roll; asphalt shingles; roof coatings other than paint.
	1929	35, 161	842, 420	
		<i>Pounds</i>		
Fibrous plastic roof cement.....	1931	29, 488, 861	1, 347, 599	Roofing, built-up and roll; asphalt shingles; roof coatings other than paint. Paints and varnishes. ⁴
	1929	52, 753, 395	2, 336, 111	
		<i>Gallons</i>		
Fibrous liquid roof coating.....	1931	4, 979, 013	2, 040, 783	Roofing, built-up and roll; asphalt shingles; roof coatings other than paint.
	1929	4, 941, 563	2, 115, 578	
Nonfibrous liquid roof coating.....	1931	1, 420, 622	576, 814	Do.
	1929	1, 931, 269	1, 017, 340	
Slate roofing.....	1931	(⁵)	2, 041, 258	Marble, granite, slate, and other stone products.
	1929	(⁵)	5, 207, 711	
	1927	(⁵)	6, 001, 063	
	1925	(⁵)	4, 273, 536	
		<i>Thousands</i>		
Wooden shingles.....	1931	2, 673, 549	5, 133, 214	Lumber and timber products.
	1929	6, 110, 672	18, 018, 588	
	1927	6, 443, 868	16, 302, 986	
	1925	7, 324, 027	21, 825, 600	

¹ No data for metal roofing have been reported separately to the Bureau of the Census.

² No comparable figures can be given for 1927 and 1925 for items for which these years are not shown.

³ Not including value of cement roofing tile, \$476,076 (quantity not reported), made in establishments classified in the "Roofing, Built-up and Roll; Asphalt Shingles; Roof Coating Other than Paint" industry. Manufacturers of such tile have been assigned to the Concrete Products industry at subsequent censuses.

⁴ Also made to some extent as secondary products in industries other than the Roofing and Paints and Varnishes industries.

⁵ No data.

SIGNS AND ADVERTISING NOVELTIES

[A preliminary report for this industry was issued under date of Nov. 9, 1932]

Description of the industry.—The principal products of this industry are neon and other electric signs; posters, show cards, and window and lobby displays not lithographed or printed; name plates and store-front signs; highway and other signs made in the shop; and advertising novelties and devices. This industry classification does not cover sign painting and lettering done outside the shop, on billboards, walls, windows, etc.

A special schedule calling specifically for data on the output of neon signs, other electric signs, other signs, and advertising novelties was used for the first time at the census for 1929, and therefore no comparable statistics can be given for earlier years.

TABLE 1.—SUMMARY FOR THE UNITED STATES, 1909-31, AND FOR STATES, 1931

[Data for establishments with products under \$5,000 in value are included for 1910 and prior years but not for 1921 and subsequent years. See sec. 3d, p. 4. Statistics are given for all States for which separate figures can be published without disclosing, exactly or approximately, the data reported by individual establishments. One of the "Other States," however, is more important in the industry than some of the States shown separately]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²
<i>United States</i>						
1931	1,078	14,463	\$18,484,776	\$21,297,359	\$74,681,351	\$53,383,692
1929	1,239	20,000	27,900,605	35,701,412	118,044,157	82,342,745
1927	813	16,907	24,044,389	30,892,264	98,481,024	67,588,730
1925	759	15,128	20,764,187	25,858,149	89,669,343	63,811,194
1923	648	12,938	16,429,460	22,641,082	67,223,676	44,582,694
1921	624	10,373	12,763,005	18,734,401	53,270,864	34,536,463
1919	779	10,432	9,715,216	16,071,924	43,843,093	27,271,169
1914	776	9,566	5,933,044	9,058,788	24,792,210	15,733,422
1909 ³	288	5,540	3,104,593	4,708,915	13,640,385	8,837,470
Percent of increase or decrease (—):						
1929-31	-13.0	-27.7	-33.7	-40.3	-36.7	-35.2
1927-29	52.4	18.3	16.0	15.6	19.9	21.8
1925-27	7.1	11.8	15.8	19.5	9.8	5.9
1923-25	17.1	16.5	26.4	14.2	33.4	43.1
1921-23	3.8	25.2	29.3	20.9	26.2	29.1
1919-21	-19.9	-0.6	30.8	16.6	22.9	26.6
1921-31	72.8	39.4	45.5	13.7	40.2	54.6
1919-29	59.1	-91.7	187.2	122.1	172.3	201.9
1909-19	170.5	88.3	212.9	241.3	220.0	208.6
<i>States, 1931</i>						
Alabama	4	18	\$17,581	\$28,341	\$81,919	\$53,578
California	75	831	1,421,713	1,205,130	5,145,699	3,940,479
Colorado	21	147	198,290	160,068	1,046,852	886,784
Connecticut	14	99	183,239	167,087	678,329	511,242
District of Columbia	4	12	18,104	14,122	40,805	32,683
Florida	8	77	103,199	46,882	578,132	531,250
Georgia	10	100	131,971	81,306	659,063	557,757
Illinois	119	2,426	3,273,850	3,319,204	13,376,077	10,056,873
Indiana	18	366	291,800	659,585	1,873,905	1,214,320
Iowa	17	196	203,499	475,830	1,189,868	714,028

For footnotes, see end of table.

TABLE 1.—SUMMARY FOR THE UNITED STATES, 1909-31, AND FOR STATES, 1931—Continued

[See note at head of table]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²
<i>States, 1931—Continued</i>						
Kansas.....	5	39	\$57,003	\$38,651	\$249,129	\$210,473
Kentucky.....	7	165	167,959	259,144	705,507	446,363
Louisiana.....	9	35	45,314	80,816	233,823	153,012
Maine.....	4	24	19,713	27,066	89,906	62,840
Maryland.....	18	465	562,223	515,780	1,933,417	1,417,637
Massachusetts.....	28	214	280,841	258,010	870,528	612,818
Michigan.....	48	537	742,807	841,185	2,719,452	1,878,297
Minnesota.....	42	1,361	1,457,841	1,649,894	6,233,228	4,583,334
Missouri.....	35	325	392,908	642,900	1,811,714	1,168,814
Nebraska.....	8	95	124,219	113,497	615,582	502,085
New Hampshire.....	4	13	19,031	17,255	55,407	38,152
New Jersey.....	37	878	1,174,978	1,254,635	3,968,954	2,714,549
New York.....	250	2,505	3,289,955	4,083,527	13,434,761	9,351,234
North Carolina.....	4	19	22,737	36,734	96,502	59,768
Ohio.....	82	1,347	1,551,708	2,679,936	7,008,795	4,328,859
Oklahoma.....	9	41	62,402	59,779	252,107	192,328
Oregon.....	8	90	147,168	85,789	463,139	377,350
Pennsylvania.....	82	894	1,249,714	1,313,987	4,576,773	3,262,786
Rhode Island.....	4	23	27,310	35,515	99,373	63,858
Tennessee.....	19	94	93,065	105,518	379,123	273,605
Texas.....	27	204	255,533	243,343	905,822	662,479
Utah.....	5	46	60,607	43,532	235,021	191,489
Virginia.....	6	137	165,432	122,796	928,698	805,902
Washington.....	24	129	212,977	110,891	620,853	509,562
West Virginia.....	4	27	33,918	33,253	95,885	62,602
Wisconsin.....	20	443	368,370	448,337	1,305,068	856,731
Other States ³	8	41	49,737	38,004	135,870	97,866

¹ For 1929, manufacturers' sales (shipments or deliveries); for other years, production. See sec. 16, p. 9.

² Value of products less cost of materials, fuel, and purchased electric energy. See sec. 20, p. 11.

³ No comparable figures can be given for years prior to 1909.

⁴ Arizona, 1 establishment; Arkansas, 1; Delaware, 3; Mississippi, 1; Montana, 1; North Dakota, 1.

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1931, 1929, 1925, 1919, 1914, AND 1909, AND FOR STATES, 1931

[This table presents statistics for only those States for which figures can be given without disclosing, exactly or approximately, 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. See sec. 13, p. 8]

	Average number employed during year	NUMBER REPORTED FOR—											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<i>United States</i>													
1931.....	14,463	<i>14,124</i>	14,129	14,394	14,639	14,997	14,606	14,318	14,253	14,356	14,647	14,600	14,496
1929.....	20,000	<i>18,268</i>	18,642	18,883	19,378	19,917	20,237	20,352	20,535	20,667	21,142	21,139	20,835
1925.....	15,128	<i>13,867</i>	13,851	14,643	15,106	15,321	15,358	15,386	15,169	15,377	15,587	15,648	15,925
1919.....	10,432	<i>8,771</i>	8,767	9,319	9,672	10,020	10,353	10,778	11,130	11,269	11,628	11,741	11,736
1914.....	9,566	<i>9,288</i>	<i>9,256</i>	9,282	9,613	9,868	9,927	9,639	9,611	9,734	9,704	9,497	9,373
1909.....	5,540	<i>4,958</i>	5,040	5,187	5,454	5,576	5,609	5,591	5,610	5,717	5,841	5,909	5,892
<i>States, 1931</i>													
California.....	831	828	862	869	882	875	851	848	811	816	800	777	759
Colorado.....	147	149	137	153	162	166	178	154	134	135	<i>129</i>	132	143
Connecticut.....	99	104	99	101	102	106	104	102	104	104	96	83	86
Florida.....	77	90	74	67	78	74	69	67	67	75	79	86	96
Georgia.....	100	111	115	108	115	105	98	93	93	96	96	93	83
Illinois.....	2,426	2,348	<i>2,324</i>	2,358	2,409	2,544	2,495	2,424	2,373	2,333	2,543	2,470	2,435
Indiana.....	366	<i>222</i>	242	249	257	338	388	466	475	447	427	466	408
Iowa.....	196	<i>161</i>	155	154	156	167	173	181	207	216	247	276	274
Kentucky.....	165	166	167	168	164	165	188	172	<i>153</i>	159	157	171	155
Maryland.....	465	382	<i>365</i>	465	479	483	478	482	477	469	473	457	533
Massachusetts.....	214	205	<i>198</i>	199	208	223	224	217	213	237	224	208	207
Michigan.....	537	530	547	571	605	582	564	567	506	497	488	489	493
Minnesota.....	1,361	1,375	1,363	1,304	1,321	1,309	1,298	1,294	<i>1,291</i>	1,304	1,411	1,455	1,519
Missouri.....	325	314	324	334	346	361	324	318	332	326	321	<i>299</i>	319
Nebraska.....	95	86	89	94	109	104	106	103	101	92	89	88	82
New Jersey.....	878	920	<i>820</i>	826	836	841	830	872	887	916	901	938	943
New York.....	2,505	2,494	2,492	2,512	2,536	2,645	2,456	<i>2,445</i>	2,461	2,589	2,525	2,461	2,449
Ohio.....	1,347	1,307	1,354	1,379	1,358	1,409	1,339	<i>1,227</i>	1,302	1,356	1,418	1,411	1,301
Oregon.....	90	101	101	102	103	94	82	80	70	72	98	88	89
Pennsylvania.....	894	<i>850</i>	900	923	969	991	974	855	874	836	848	860	870
Texas.....	204	195	196	<i>187</i>	189	199	203	217	210	203	221	213	212
Virginia.....	137	160	159	170	154	159	135	132	120	123	<i>165</i>	114	109
Washington.....	129	124	130	131	133	139	136	130	137	130	132	<i>112</i>	119
Wisconsin.....	443	454	469	466	453	450	456	455	446	430	420	<i>406</i>	416

TABLE 3.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1931 AND 1929

[The figures for 1931 represent production; those for 1929 refer to sales (shipments or deliveries) by manufacturers. See sec. 16, p. 9]

KIND	VALUE	
	1931	1929
1. Signs and Advertising Novelties industry, all products, total value.....	\$74,681,351	\$118,044,157
2. Signs and advertising novelties.....	69,650,243	111,425,110
3. Other products (not normally belonging to the industry).....	3,618,997	4,335,089
4. Receipts for custom and contract work.....	1,412,111	2,283,958
5. Signs and advertising novelties made as secondary products in other industries.....	1,184,828	1,711,704
Signs and advertising novelties, all industries: Aggregate value (sum of 2 and 5).....	70,835,071	113,136,814
Electric signs, total.....	23,991,694	34,906,933
Neon signs.....	16,783,098	11,373,028
Other electric signs.....	7,208,596	23,533,905
Cards and posters.....	2,964,447	
Cut-outs and displays.....	4,367,642	
Metal signs.....	5,751,486	
Process signs (not included elsewhere).....	3,529,737	39,708,075
Highway signs (not specified above).....	5,380,893	
Other signs.....	4,686,124	
Advertising novelties.....	20,163,048	38,521,896

TABLE 4.—PRODUCTS, BY KIND AND VALUE, BY STATES: 1931

[Statistics are given for all States (a) for which separate figures can be published without disclosing, exactly or approximately, the output of individual establishments, and (b) which contributed at least 2 percent of the total value of the specified class of products. Certain of the "Other States," however, reported larger values of the respective kinds of products than some of the States for which separate figures are given]

KIND AND STATE	1931		KIND AND STATE	1931	
	Number of establishments	Value		Number of establishments	Value
Neon signs, total.....	317	\$16,783,098	Metal signs—Continued.		
California.....	24	3,724,250	Missouri.....	13	\$150,449
Colorado.....	6	483,703	New York.....	98	773,652
Illinois.....	22	2,522,613	Ohio.....	39	1,204,329
Michigan.....	17	705,009	Pennsylvania.....	35	1,023,118
Missouri.....	11	472,511	Other States.....	141	1,124,443
New Jersey.....	17	512,647	Process signs, total.....	243	3,529,737
New York.....	55	2,404,479	California.....	22	171,795
Ohio.....	20	940,494	Illinois.....	17	601,601
Oregon.....	7	376,468	Michigan.....	16	386,241
Pennsylvania.....	22	689,805	New York.....	43	687,210
Texas.....	12	449,307	Ohio.....	27	645,568
Washington.....	9	431,268	Pennsylvania.....	15	79,466
Other States.....	95	3,070,484	Other States.....	103	957,856
Other electric signs, total.....	287	7,208,596	Highway signs, total.....	261	5,390,893
Illinois.....	27	1,899,896	California.....	20	140,197
Indiana.....	9	222,998	Illinois.....	10	431,812
Maryland.....	5	150,575	Missouri.....	11	361,352
Michigan.....	17	387,883	Nebraska.....	4	395,395
Minnesota.....	12	141,698	New Jersey.....	13	440,129
New Jersey.....	72	2,062,160	New York.....	33	310,825
New York.....	22	960,664	Ohio.....	22	573,061
Ohio.....	27	534,407	Pennsylvania.....	23	441,228
Pennsylvania.....	96	899,315	Other States.....	125	2,286,874
Other States.....			Other signs, total.....	322	4,686,124
Cards and posters, total.....	395	2,964,447	California.....	26	156,860
California.....	30	124,954	Illinois.....	26	690,577
Illinois.....	18	212,459	Michigan.....	13	143,171
Michigan.....	22	154,513	Minnesota.....	14	141,921
Minnesota.....	21	91,080	Missouri.....	14	187,680
New Jersey.....	9	69,375	Missouri.....	13	282,249
New York.....	95	703,454	New Jersey.....	57	894,772
Ohio.....	33	223,570	New York.....	28	284,680
Ohio.....	37	364,853	Ohio.....	29	420,284
Pennsylvania.....	130	1,020,189	Pennsylvania.....	12	101,163
Other States.....			Texas.....	90	1,382,787
Cut-outs and displays, total.....	214	4,367,642	Other States.....		
California.....	14	127,614	Advertising novelties, total.....	204	20,163,048
Illinois.....	14	1,276,488	Illinois.....	37	3,578,066
New York.....	57	1,796,068	Iowa.....	7	874,684
Ohio.....	17	445,710	Missouri.....	8	524,204
Pennsylvania.....	16	265,994	Missouri.....	11	2,372,866
Other States.....	96	455,768	New Jersey.....	55	2,854,003
Metal signs, total.....	417	5,751,486	New York.....	20	1,876,428
California.....	32	326,676	Ohio.....	8	415,164
Illinois.....	26	721,394	Pennsylvania.....	7	754,471
Michigan.....	16	261,282	Wisconsin.....	51	6,913,222
Michigan.....	17	165,843	Other States.....		
Minnesota.....					

SODA FOUNTAINS AND ACCESSORIES

Description of the industry.—The establishments in this industry are engaged primarily in the manufacture of complete soda fountains and of tanks, siphons, and other parts and accessories.

SUMMARY FOR THE UNITED STATES, 1899 TO 1931, AND FOR STATES, 1931

[Data for establishments with products under \$5,000 in value are included for 1919 and prior years but not for 1921 and subsequent years. See sec. 32, p. 4. Statistics are given for all States for which separate figures can be published without disclosing, exactly or approximately, the data reported by individual establishments. Certain of the "Other States," however, are more important in the industry than some of the States shown separately.]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products ^{1,2}	Value added by manufacture ³
<i>United States</i>						
1931.....	47	1,563	\$2,189,082	\$5,235,095	\$14,605,952	\$9,370,257
1929.....	54	2,764	3,921,538	10,489,871	24,509,783	14,019,912
1927.....	48	2,838	4,222,944	10,390,971	23,929,068	13,538,097
1925.....	60	2,372	3,628,340	8,632,020	22,031,816	13,399,790
1923.....	66	2,650	3,779,476	6,712,374	18,169,234	11,456,860
1921.....	62	2,144	3,047,981	6,495,791	15,407,131	8,911,340
1919.....	66	2,599	3,232,398	6,626,868	15,185,370	8,558,502
1914.....	67	2,229	1,661,245	3,883,076	8,781,437	4,898,361
1909.....	63	1,797	1,229,450	2,442,538	6,555,597	4,113,059
1904.....	37	1,469	834,705	1,923,835	4,634,265	2,710,430
1899.....	30	963	549,939	997,436	3,015,493	2,018,057
Percent of increase or decrease (—):						
1929-31.....	(9)	-43.5	-44.2	-50.1	-40.4	-33.2
1927-29.....	(9)	-2.6	-7.1	1.0	2.4	3.6
1925-27.....	(9)	19.6	16.4	20.4	8.0	1.0
1923-25.....	(9)	-10.8	-4.0	28.6	21.3	17.0
1921-23.....	(9)	24.0	24.0	3.3	17.9	28.6
1919-21.....	(9)	-17.5	-5.7	-2.0	1.5	4.1
1921-31.....	(9)	-27.1	-28.1	-19.4	-5.2	5.1
1919-29.....	(9)	6.3	21.3	58.3	61.4	63.8
1909-19.....	(9)	44.6	160.8	171.3	131.6	108.1
1899-1909.....	(9)	86.6	125.4	144.9	117.4	103.8
<i>States, 1931</i>						
California.....	5	42	\$59,236	\$147,817	\$278,243	\$130,426
Illinois.....	8	727	921,085	1,735,726	6,224,149	4,488,423
New York.....	13	84	143,817	515,323	1,031,696	519,373
Other States ⁴	21	710	1,065,844	2,836,829	7,071,864	4,235,036

¹ For 1929, manufacturers' sales (shipments or deliveries); for other years, production. See sec. 16, p. 9.

² Includes values of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of soda fountains and accessories, as follows: 1931, \$376,291; 1929, \$2,075,958; 1927, \$4,166,656; 1925, \$4,350,921; corresponding amounts for earlier years not available. Does not include following values of soda fountains and accessories made as secondary products by establishments engaged primarily in other lines of manufacture: 1931, \$477,307; 1929, \$201,156; 1927, \$565,148; 1925, \$207,438; 1923, \$58,800; 1921, \$248,417; 1919, \$1,657,841; corresponding amounts for earlier years not available.

³ Value of products less cost of materials, fuel, and purchased electric energy. See sec. 20, p. 11.

⁴ Percent not computed where base is less than 100.

⁵ Colorado, 1 establishment; Kentucky, 1; Maryland, 1; Massachusetts, 2; Michigan, 3; Missouri, 1; New Jersey, 1; Ohio, 5; Pennsylvania, 2; Utah, 1; Virginia, 1; Washington, 1; Wisconsin, 1.

SPORTING AND ATHLETIC GOODS, NOT INCLUDING FIRE-ARMS OR AMMUNITION

[A preliminary report for this industry was issued under date of Aug. 9, 1931]

Description of the industry.—This industry embraces establishments engaged primarily in the manufacture of a group of products which are not clearly defined in all respects but which are designated in general as sporting and athletic goods. These comprise not only such specific sporting equipment as that for fishing and hunting (except firearms and ammunition) and for athletic games and sports, such as golf, baseball, football, tennis, skating, etc., but also related commodities such as exercising machines and other gymnasium equipment and shooting-gallery equipment (not including firearms and ammunition). Clothing and footwear made specifically for sporting and athletic purposes, such as hunting coats and boots, bathing suits, sweaters, tennis shoes, leggings, etc., do not come within the scope of this industry classification but are assigned to the Clothing industries, the Knit Goods industry, the Boot and Shoe industry, etc.

Detailed statistics of products.—At censuses prior to that for 1929 the Sporting and Athletic Goods industry was canvassed by means of the "general schedule," which did not call specifically for data on the quantities and values of the several classes of products made in this industry, and for this reason it is impossible to give comparative figures for 1927 and earlier years in Table 3.

TABLE 1.—SUMMARY FOR THE UNITED STATES, 1899 TO 1931, AND FOR STATES, 1931

[Data for establishments with products under \$5,000 in value are included for 1919 and prior years but not for 1921 and subsequent years. See sec. 3d, p. 4. Statistics are given for all States for which separate figures can be published without disclosing, exactly or approximately, the data reported by individual establishments. One of the "Other States," namely, Massachusetts, is, however, more important in the industry than any of the States shown separately]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²
<i>United States</i>						
1931.....	217	10,176	\$11,219,073	\$20,098,555	\$49,257,447	\$29,158,892
1928.....	242	10,793	13,135,484	24,482,236	58,288,728	33,806,492
1927.....	188	9,689	11,595,480	19,393,661	44,942,778	26,549,117
1925.....	181	8,724	10,262,208	17,874,604	42,629,278	24,754,674
1925.....	170	9,683	10,440,207	18,492,511	41,797,075	23,804,564
1923.....	152	7,063	7,400,470	15,401,261	31,811,174	16,409,913
1921.....	188	6,412	5,752,963	11,969,388	23,839,991	11,870,603
1919.....	162	5,602	2,770,891	6,951,870	13,234,677	6,282,807
1914.....	180	5,321	2,165,434	5,564,766	11,052,286	5,487,520
1909.....	152	4,290	1,641,486	2,963,138	7,032,224	4,069,086
1904.....	143	2,225	809,687	1,801,929	3,623,496	1,826,567
Percent of increase or decrease (—):						
1929-31.....	-10.3	-5.7	-14.6	-17.9	-15.5	-13.7
1927-29.....	28.7	11.4	13.3	26.2	29.7	32.3
1925-27.....	3.9	11.1	13.0	8.5	5.4	3.2
1923-25.....	6.5	-9.9	-1.7	-3.3	2.0	6.2
1921-23.....	11.8	37.1	41.1	20.1	31.4	42.0
1919-21.....	-19.1	10.2	28.6	28.7	33.4	38.2
1921-31.....	42.8	44.1	51.6	30.5	54.8	77.7
1919-29.....	28.7	68.3	128.3	104.5	144.5	184.8
1909-19.....	4.4	20.5	165.7	115.1	115.7	116.3
1899-1909.....	25.9	139.1	167.4	208.8	204.6	200.4

For footnotes, see end of table.

TABLE 1.—SUMMARY FOR THE UNITED STATES, 1899 TO 1931, AND FOR STATES, 1931—Continued

[See note at head of table]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²
<i>States, 1931</i>						
California.....	9	18	\$20,795	\$53,677	\$123,128	\$69,451
Colorado.....	5	52	42,873	24,478	113,391	88,013
Connecticut.....	10	1,241	1,404,217	1,737,146	4,834,807	3,097,661
Illinois.....	33	1,516	1,778,103	3,797,304	7,939,911	4,142,607
Indiana.....	6	176	172,725	215,012	658,172	443,160
Maine.....	4	27	27,149	13,035	63,484	50,449
Michigan.....	12	481	567,614	738,799	2,503,331	1,764,532
Minnesota.....	5	64	63,727	141,905	303,491	161,086
Missouri.....	10	357	279,609	655,238	1,300,682	645,444
New Jersey.....	10	268	248,119	804,400	1,806,961	1,002,581
New York.....	41	1,138	1,165,449	2,346,017	5,022,631	2,676,614
Ohio.....	14	1,517	1,753,353	3,125,689	8,069,319	4,943,630
Rhode Island.....	4	278	324,988	354,307	916,577	562,270
Tennessee.....	4	90	67,970	113,813	216,720	102,907
Washington.....	8	40	39,706	108,826	238,545	129,719
Wisconsin.....	5	197	184,560	254,313	650,296	395,963
Other States ³	37	2,716	3,078,116	5,614,696	14,496,001	8,881,305

¹ For 1929, manufacturers' sales (shipments or deliveries); for other years, production. See sec. 16, p. 9.² Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 29, p. 11.³ Arkansas, 1 establishment; District of Columbia, 1; Idaho, 1; Iowa, 1; Kentucky, 3; Maryland, 1; Massachusetts, 11; Nevada, 1; New Hampshire, 2; North Carolina, 1; Oregon, 4; Pennsylvania, 7; South Carolina, 1; Texas, 1; Vermont, 1.

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1931, 1929, 1925, 1919, 1914, AND 1909, AND FOR STATES, 1931

[This table presents statistics for only those States for which figures can be given without disclosing, exactly or approximately, 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. See sec. 13, p. 8]

	Average number employed during year	NUMBER REPORTED FOR—											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<i>United States</i>													
1931.....	10,176	10,769	10,980	11,356	11,434	11,245	10,554	9,592	9,100	8,868	8,959	9,528	9,697
1929.....	10,793	11,029	11,075	11,300	11,190	10,950	10,694	10,447	10,300	10,484	10,643	10,680	10,823
1925.....	8,724	8,576	8,524	8,057	8,129	8,975	8,794	8,492	8,310	8,305	8,557	8,774	8,896
1919.....	6,412	5,633	5,874	6,023	6,231	6,263	5,956	6,340	6,506	6,612	6,859	7,139	7,593
1914.....	5,602	5,893	5,866	5,961	5,478	5,501	5,847	5,407	5,176	5,416	5,595	5,569	5,696
1909.....	5,321	5,369	5,331	5,501	5,585	5,478	5,338	5,053	4,694	5,142	5,335	5,422	5,604
<i>States, 1931</i>													
California.....	18	20	19	19	18	20	16	18	20	21	14	14	11
Colorado.....	59	44	53	55	61	63	66	62	55	47	26	41	47
Connecticut.....	1,241	1,307	1,278	1,272	1,261	1,230	1,215	1,242	1,193	1,219	1,203	1,227	1,227
Illinois.....	1,516	1,576	1,716	1,774	1,746	1,787	1,872	1,357	1,230	1,234	1,218	1,413	1,465
Indiana.....	176	154	165	224	210	193	201	177	143	153	181	180	148
Maine.....	27	33	29	26	33	35	32	26	17	23	23	23	26
Michigan.....	481	553	517	552	583	573	523	466	404	394	373	397	441
Minnesota.....	64	73	73	68	65	68	64	58	59	61	62	62	61
Missouri.....	357	414	390	399	410	423	353	350	340	363	379	352	337
New Jersey.....	268	279	307	344	374	361	291	195	181	216	192	227	250
New York.....	1,138	1,155	1,166	1,222	1,287	1,241	1,162	1,145	1,104	1,046	1,048	1,073	1,085
Ohio.....	1,517	1,548	1,593	1,723	1,747	1,714	1,655	1,445	1,492	1,373	1,318	1,330	1,366
Rhode Island.....	276	304	289	309	296	284	272	264	263	260	262	266	264
Tennessee.....	90	80	89	94	101	108	100	82	81	81	81	84	95
Washington.....	40	53	50	45	43	44	40	34	33	33	38	38	31
Wisconsin.....	197	214	228	247	247	228	227	174	162	167	160	154	161

TABLE 3.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1931 AND 1929

[The figures for 1931 represent production; those for 1929, manufacturers' sales (shipments or deliveries). See sec. 16, p. 9. No comparable data for years prior to 1929. See "Detailed statistics of products," p. 1151]

KIND	1931	1929
1. Sporting and Athletic Goods, Not Including Firearms or Ammunition Industry, all products, total value.....	\$49,257,447	\$58,288,728
2. Sporting and athletic goods, not including firearms or ammunition.....	46,282,719	52,971,247
3. Other products (not normally belonging to the industry).....	2,877,368	5,186,679
4. Receipts for repair work.....	97,360	130,802
5. Sporting and athletic goods, not including firearms or ammunition, made as secondary products in other industries, value.....	4,157,999	3,314,455
Sporting and athletic goods, not including firearms or ammunition, all industries:	\$50,440,718	\$56,285,702
Total value (sum of 2 and 5).....	\$23,338,654	\$21,067,216
Golf goods, total value.....		
Balls:	2,297,778	2,819,400
Dozens.....	\$5,991,578	\$7,460,200
Value.....		
Clubs:	4,134,378	3,166,380
Number.....	\$12,008,918	\$9,722,610
Value.....		
Shafts:	4,663,095	2,220,449
Number.....	\$3,008,921	\$1,573,609
Value.....		
Caddy bags:		
Number reported:	465,525	430,357
Number.....	\$1,630,530	\$1,709,561
Value.....	\$196,294	\$198,569
Number not reported, value.....	\$442,413	\$402,667
Other golf goods, including parts, value.....	\$4,296,378	\$4,650,643
Tennis goods, value.....	\$5,489,141	\$6,699,087
Baseball goods, total value.....		
Balls, including playground balls:	758,947	709,552
Dozens.....	\$2,730,584	\$3,261,411
Value.....		
Bats:	2,329,870	1,819,667
Number.....	\$1,030,537	\$1,050,638
Value.....		
Masks:	31,663	35,690
Number.....	\$93,822	\$110,847
Value.....		
Mitts and gloves:	908,100	932,157
Number.....	\$1,362,192	\$1,820,035
Value.....	\$272,006	\$456,186
Other baseball goods, value.....	\$4,217,341	\$5,766,034
Football, basket-ball, boxing, etc., goods, total value.....		
Footballs:	1,059,064	530,631
Number.....	\$1,314,983	\$1,410,781
Value.....		
Basket balls and other inflated balls:	50,884	115,205
Quantity reported:	\$570,104	\$1,641,224
Dozens.....	\$96,807	
Value.....	\$1,252,975	\$1,410,184
Quantity not reported, value.....	\$338,194	\$669,912
Pads, helmets, and guards for football, basket ball, and soccer, value.....		
Other football and basket-ball goods, value.....	48,875	70,980
Striking bags:	\$90,540	\$193,203
Number.....		
Value.....	67,644	60,979
Boxing gloves:	\$253,732	\$440,730
Sets of 4.....		
Value.....	\$6,761,170	\$9,760,370
Fishing tackle, total value.....		
Rods:	1,339,316	1,495,377
Number.....	\$1,911,948	\$2,448,764
Value.....		
Reels:	1,049,819	1,137,900
Number.....	\$1,643,140	\$1,815,871
Value.....	\$241,256	\$374,936
Rod mountings, and parts of fishing rods and reels, value.....	\$3,064,796	\$5,120,799
Other tackle (bait, trolling spoons, hooks, leaders, etc.), value.....		

TABLE 3.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1931 AND 1929—Continued

[See note at head of table]

KIND	1931	1929
Sporting and athletic goods, not including firearms or ammunition—Contd.		
Skates, total value.....	\$2,689,365	\$4,872,593
Roller:		
Pairs.....	1,745,637	2,614,044
Value.....	\$1,808,064	\$2,925,034
Ice:		
Pairs.....	547,285	684,964
Value.....	\$850,774	\$1,782,172
Parts, value.....	\$29,927	\$165,387
Gymnasium equipment, value.....	\$1,206,881	\$1,073,062
Equipment for hunting and shooting, not including firearms or ammunition, value.....	\$649,392	\$1,129,756
Skis and snowshoes, value.....	\$163,032	(¹)
Other sporting and athletic goods, including parts not specifically called for above, value.....	\$1,539,364	\$1,267,021

¹ Not called for on schedule.

STATIONERY GOODS NOT ELSEWHERE CLASSIFIED

Description of the industry.—This industry embraces establishments engaged primarily in the manufacture of a somewhat vaguely defined group of office, school, and library equipment and related commodities, made chiefly of paper and paperboard and excluding all types of furniture and machines. Among the principal products of the industry are papeteries, tablets, and pads made from purchased paper stock; indexing and filing devices; albums and scrapbooks; loose-leaf binders and fillers; desk pads and stamp pads; and miscellaneous items designated by the term "stationers' specialties."

SUMMARY FOR THE UNITED STATES, 1899 TO 1931, AND FOR STATES, 1931

[Data for establishments with products under \$5,000 in value are included for 1919 and prior years but not for 1921 and subsequent years. See sec. 3d, p. 4. Statistics are given for all States for which separate figures can be published without disclosing, exactly or approximately, the data reported by individual establishments. Certain of the "Other States," however, are more important in the industry than some of the States shown separately]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased electric energy	Value of products ^{1,2}	Value added by manufacture ³
<i>United States</i>						
1931.....	176	8,614	\$0,034,028	\$22,284,705	\$47,355,397	\$25,070,892
1929.....	203	11,078	13,429,726	32,177,887	74,062,047	41,884,160
1927.....	194	8,987	9,791,788	27,016,348	56,987,490	29,971,142
1925.....	217	11,399	12,078,257	31,108,376	67,809,267	36,700,891
1923.....	225	13,314	14,627,838	34,713,818	77,688,985	42,975,117
1921.....	221	11,285	12,399,233	29,005,923	64,596,878	34,991,055
1919.....	223	11,261	9,577,867	28,100,289	58,363,244	30,203,005
1914.....	189	7,728	3,791,012	10,762,623	21,903,066	11,140,438
1909.....	153	6,206	2,735,860	7,743,686	16,647,223	8,903,587
1904.....	143	4,295	1,499,803	3,920,421	8,867,457	4,947,030
1899.....	113	3,032	958,471	2,128,445	5,065,869	2,937,424
Percent of increase or decrease (-):						
1929-31.....	-13.3	-22.2	-27.3	-30.7	-36.1	-40.1
1927-29.....	4.6	23.3	26.9	19.1	30.0	39.7
1925-27.....	-10.6	-21.2	-18.9	-13.2	-16.0	-18.3
1923-25.....	-3.6	-14.4	-17.4	-10.4	-12.7	-14.6
1921-23.....	1.8	18.0	18.0	17.3	20.3	22.8
1919-21.....	-9	.2	29.5	5.1	10.7	15.9
1921-31.....	-20.4	-23.7	-27.1	-24.7	-26.7	-28.4
1919-29.....	-9.0	-1.6	29.8	14.3	26.9	38.7
1909-19.....	45.8	81.5	250.1	263.7	250.6	230.2
1899-1909.....	38.4	104.7	185.4	263.8	228.6	203.1
<i>States, 1931</i>						
California.....	7	87	\$116,362	\$186,281	\$582,728	\$396,447
Connecticut.....	5	359	357,274	613,112	1,406,298	793,181
Illinois.....	23	950	1,218,271	3,092,918	8,120,474	5,027,556
Indiana.....	8	327	279,975	1,055,753	1,990,581	934,823
Massachusetts.....	24	1,718	1,682,417	3,768,173	7,709,150	3,940,977
New Jersey.....	10	543	653,656	775,078	1,970,643	1,195,565
New York.....	44	1,578	1,740,380	3,525,266	7,789,920	4,264,654
Ohio.....	10	470	617,228	888,314	2,632,461	1,744,147
Pennsylvania.....	13	609	548,112	1,525,196	2,999,464	1,474,288
Wisconsin.....	4	83	94,111	228,808	659,453	430,645
Other States.....	28	1,851	1,696,242	6,625,806	11,494,230	4,868,424

¹ For 1929, manufacturers' sales (shipments or deliveries); for other years, production. See sec. 16, p. 9.

² Includes following values of miscellaneous commodities, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of stationery goods: 1931, \$2,333,936; 1929, \$3,403,477; 1927, \$4,418,512; 1925, \$3,191,264. No corresponding figures available for earlier years. Does not include following values of stationery goods made as secondary products by establishments: 1931, \$8,098,582; 1929, \$5,194,114; 1927, \$8,361,585; 1925, \$7,139,446; 1923, \$7,661,241; 1921, \$4,959,372; 1919, \$5,644,768. No corresponding figures available for earlier years.

³ Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 20, p. 11.

⁴ Georgia, 3 establishments; Iowa, 3; Kansas, 1; Kentucky, 1; Maryland, 1; Michigan, 4; Missouri, 2; Nebraska, 1; Rhode Island, 2; Tennessee, 3; Texas, 2; Virginia, 3; Washington, 2.

STEAM AND OTHER PACKING, PIPE AND BOILER COVERING, AND GASKETS, NOT ELSEWHERE CLASSIFIED

Because of the close relation and the amount of overlapping between this industry and the "Asbestos Products Other Than Steam Packing and Pipe and Boiler Covering" industry, in Group 10, the reports for the two industries have been combined and are presented in the section for Group 10. (See pp. 727 to 731.)

SURGICAL AND ORTHOPEDIC APPLIANCES AND RELATED PRODUCTS

Description of the industry.—This industry embraces establishments engaged primarily in the manufacture of surgical dressings, bandages, and gauze, and of such other products as braces, trusses, abdominal supports, suspensories, elastic hosiery, anklets, kneecaps, pneumatic splints, extension shoes, arch supports, crutches, and artificial limbs. The manufacture of surgical and dental instruments is not included, these commodities being classified as products of the Professional and Scientific Instruments industry.

TABLE 1.—SUMMARY FOR THE UNITED STATES, 1899 TO 1931, AND FOR STATES, 1931

[Data for establishments with products under \$5,000 in value are included for 1919 and prior years but not for 1921 and subsequent years. See sec. 3d, p. 4. Statistics are given for all States for which separate figures can be published without disclosing, exactly or approximately, the data reported by individual establishments. One of the "Other States," namely, New Jersey, is, however, more important in the industry than any of the States shown separately]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²
<i>United States</i>						
1931.....	325	6,740	\$7,271,373	\$22,954,244	\$51,012,062	\$28,057,818
1929.....	363	7,910	8,021,668	36,004,844	71,607,119	35,602,275
1927.....	335	7,310	8,371,278	30,763,598	60,623,497	29,850,899
1925.....	303	6,450	6,837,328	26,813,846	58,285,050	31,471,810
1923.....	288	5,868	6,308,521	24,275,660	47,603,399	23,327,739
1921.....	295	4,810	5,280,033	15,077,020	34,946,096	19,860,676
1919.....	445	7,061	6,878,668	22,958,068	46,805,266	23,817,198
1914.....	391	4,770	2,580,535	7,413,294	16,418,138	9,004,844
1909.....	324	4,241	2,128,927	5,371,656	12,399,314	7,027,658
1904.....	284	3,153	1,376,476	2,805,916	7,259,024	4,403,108
1899.....	306	1,788	767,421	1,417,642	4,682,212	3,284,570
Percent of increase or decrease (—):						
1929-31.....	-10.5	-14.8	-18.5	-36.2	-28.8	-21.2
1927-29.....	8.4	8.2	6.6	17.0	18.1	19.2
1925-27.....	10.6	13.3	22.4	14.7	4.0	-5.1
1923-25.....	5.9	9.9	8.4	10.5	22.4	34.9
1921-23.....	-3.1	22.0	19.5	61.0	36.2	17.4
1919-21.....	-33.7	-31.9	-23.2	-34.4	-25.3	-16.6
1921-31.....	10.2	40.1	37.7	52.2	46.0	41.2
1919-29.....	-18.4	12.0	28.7	56.6	53.0	49.5
1909-19.....	37.3	66.5	223.1	328.0	277.5	238.9
1899-1909.....	5.9	137.2	177.4	278.9	164.8	115.3
<i>States, 1931</i>						
California.....	21	123	\$181,477	\$123,045	\$529,023	\$405,878
Colorado.....	5	11	15,702	21,022	64,716	43,694
Connecticut.....	10	323	305,682	1,671,942	2,007,820	935,878
Illinois.....	28	1,031	1,033,230	3,401,395	8,925,570	5,524,175
Indiana.....	4	36	46,880	160,860	311,219	150,369
Iowa.....	3	8	9,814	6,691	30,218	23,527
Maryland.....	3	10	13,373	10,052	36,355	26,353
Massachusetts.....	24	348	266,985	515,782	1,240,304	724,522
Michigan.....	6	79	98,911	105,709	482,542	376,842
Minnesota.....	10	56	66,670	43,968	233,495	189,827
Missouri.....	17	167	181,764	496,514	1,374,543	878,029
Nebraska.....	4	32	35,969	45,978	149,442	103,464
Nevada.....	4	32	35,969	45,978	149,442	103,464
New York.....	75	1,184	1,414,659	5,213,797	11,131,110	5,917,313
Ohio.....	20	287	239,678	570,510	1,600,728	1,030,218
Oklahoma.....	3	6	7,200	5,588	28,523	22,935
Oregon.....	3	9	10,199	10,505	35,772	25,267
Pennsylvania.....	34	526	522,845	529,129	1,797,128	1,267,999
Texas.....	7	76	58,362	35,523	134,635	101,112
Washington.....	4	17	26,308	17,076	65,643	48,567
Other States ³	44	2,421	2,735,667	9,969,177	20,233,246	10,262,069

¹ For 1929, manufacturers' sales (shipments or deliveries); for other years, production. See sec. 16, p. 9.
² Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 20, p. 11.

³ Alabama, 1 establishment; Arkansas, 1; District of Columbia, 4; Florida, 1; Georgia, 2; Kansas, 2; Kentucky, 2; Louisiana, 1; Mississippi, 1; Nevada, 1; New Hampshire, 2; New Jersey, 15; North Carolina, 1; Rhode Island, 1; South Carolina, 1; Utah, 3; Wisconsin, 5.

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1931, 1929, 1925, 1919, 1914, AND 1909, AND FOR STATES, 1931

[This table presents statistics for only those States for which figures can be given without disclosing, exactly or approximately, 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. See sec. 13, p. 8.]

	Average number employed during year	NUMBER REPORTED FOR—											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<i>United States</i>													
1931.....	6,740	6,672	6,862	6,995	6,957	6,878	6,704	6,692	6,708	6,769	6,656	6,575	6,418
1929.....	7,910	7,463	7,643	7,755	7,795	7,859	7,806	7,859	8,159	8,251	8,404	8,045	7,890
1925.....	6,450	6,270	6,258	6,340	6,401	6,378	6,366	6,451	6,468	6,568	6,554	6,670	6,641
1919.....	7,061	8,247	7,498	6,972	6,782	6,659	6,862	6,677	6,901	7,001	6,968	7,086	7,109
1914.....	4,770	4,615	4,753	4,679	4,733	5,741	4,632	4,611	4,591	4,776	4,982	5,113	4,924
1909.....	4,241	4,016	4,061	4,108	4,125	4,167	4,211	4,303	4,305	4,332	4,374	4,433	4,453
<i>States, 1931</i>													
California.....	123	124	128	126	120	122	123	125	124	124	120	120	117
Colorado.....	11	11	11	11	11	11	11	11	11	12	11	11	11
Connecticut.....	323	291	300	303	307	323	311	338	330	350	351	344	332
Illinois.....	1,031	1,028	1,015	1,014	1,022	1,066	966	1,012	1,094	1,131	1,072	1,051	961
Indiana.....	39	39	39	39	35	35	35	35	35	35	36	36	37
Iowa.....	8	8	8	8	8	8	8	8	8	8	7	7	7
Maryland.....	10	10	10	10	10	10	10	10	10	10	10	10	10
Massachusetts.....	348	342	361	385	357	356	347	357	334	348	339	339	336
Michigan.....	79	85	82	82	81	80	78	77	78	77	75	75	76
Minnesota.....	56	57	57	57	57	57	57	57	57	54	54	54	55
Missouri.....	157	157	159	182	158	157	160	158	155	155	159	150	154
Nebraska.....	32	34	34	32	34	33	32	31	31	32	33	33	24
New York.....	1,184	1,120	1,236	1,264	1,274	1,252	1,226	1,179	1,164	1,172	1,147	1,105	1,071
Ohio.....	287	311	311	295	298	298	289	283	273	276	271	271	269
Oklahoma.....	6	7	7	6	6	6	6	6	6	6	7	7	7
Oregon.....	9	9	9	7	8	10	9	9	9	10	10	10	9
Pennsylvania.....	526	523	526	528	543	538	527	518	525	524	521	521	517
Texas.....	76	75	96	144	101	99	51	47	63	56	58	61	66
Washington.....	17	22	22	20	20	17	17	15	14	16	12	13	14

TABLE 3.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1931 AND 1929

[The figures for 1931 represent production; those for 1929 refer to sales (shipments or deliveries) by manufacturers. See sec. 16, p. 9.]

	KIND	1931	1929
		\$51,012,062	\$71,607,119
1. "Surgical and Orthopedic Appliances and Related Products" industry, all products, total value.....		\$51,012,062	\$71,607,119
2. Surgical and orthopedic appliances and related products.....		45,839,449	65,014,815
3. Other products (not normally belonging to the industry).....		5,046,154	6,428,045
4. Receipts for contract, custom, and repair work.....		120,459	164,259
5. Surgical and orthopedic appliances and related products made as secondary products in other industries.....		5,283,505	3,357,936
Surgical and orthopedic appliances and related products, all industries, aggregate value (sum of 2 and 5).....		51,122,954	68,372,751
Artificial limbs.....		1,700,195	2,442,972
Ligatures.....		2,280,550	2,920,778
Sanitary napkins.....		11,330,531	10,340,700
Surgical dressings and bandages.....		19,342,940	31,201,146
Other surgical and orthopedic appliances.....		16,408,738	21,467,065

¹ Braces of all kinds, trusses, elastic hosiery, abdominal supports, kneecaps and anklets, extension shoes, arch supports, eardrums, crutches, splints, etc.

THEATRICAL SCENERY AND STAGE EQUIPMENT

Description of the industry.—The principal products of this industry are scenery and curtains for theaters, halls, and schools; stage hardware and equipment, other than electrical; and floats for street pageants. (Establishments engaged in the manufacture of electrical stage equipment are classified in the Electrical Machinery, Apparatus, and Supplies industry.)

SUMMARY FOR THE UNITED STATES, 1914 TO 1931, AND FOR STATES, 1931

[Data for establishments with products under \$5,000 in value are included for 1919 and prior years but not for 1921 and subsequent years. See sec. 3d, p. 4. Statistics are given for all States for which separate figures can be published without disclosing, exactly or approximately, the data reported by individual establishments. One of the "Other States," however, is more important in the industry than Illinois]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products ^{1,2}	Value added by manufacture ³
<i>United States</i>						
1931.....	45	365	\$649, 117	\$1, 218, 498	\$3, 002, 860	\$1, 784, 362
1929.....	55	547	992, 133	2, 093, 498	5, 507, 827	3, 409, 329
1927.....	39	561	1, 379, 971	2, 330, 377	5, 745, 472	3, 415, 095
1925.....	33	391	853, 652	1, 519, 907	3, 578, 210	2, 058, 303
1923.....	17	210	429, 772	634, 022	1, 625, 668	991, 046
1921.....	18	169	361, 302	491, 632	1, 214, 480	722, 798
1919.....	17	149	237, 603	504, 655	1, 067, 033	562, 378
1914.....	7	88	89, 339	124, 577	328, 965	202, 358
Percent of increase or decrease (—):						
1929-31.....	(9)	-33.3	-34.6	-41.9	-45.5	-47.7
1927-29.....	(9)	-2.5	-28.1	-10.0	-4.1	-0.2
1925-27.....	(9)	43.5	61.7	53.3	60.6	65.9
1923-25.....	(9)	86.2	98.6	189.5	120.1	107.7
1921-23.....	(9)	24.3	19.0	29.1	33.9	37.1
1919-21.....	(9)	13.4	52.1	-2.6	13.8	28.5
1921-31.....	(9)	116.0	79.7	147.8	147.3	146.9
1919-29.....	(9)	267.1	317.6	315.8	416.2	508.2
<i>States, 1931</i>						
California.....	6	49	\$100, 528	\$172, 925	\$421, 534	\$248, 009
Illinois.....	4	25	43, 062	100, 131	204, 464	104, 333
Missouri.....	3	20	38, 526	113, 496	273, 151	159, 655
New York.....	17	181	342, 475	577, 207	1, 429, 194	851, 987
Ohio.....	5	33	45, 390	77, 850	224, 887	147, 507
Other States ⁴	10	57	79, 136	177, 359	449, 030	272, 271

¹ For 1929, manufacturers' sales (shipments or deliveries); for other years, production. See sec. 16, p. 9.

² Includes values of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of theatrical scenery and stage equipment, as follows: 1929, \$35,000; 1927, \$259,715; corresponding amounts for earlier years not available. Does not include following values of theatrical scenery and stage equipment reported by establishments engaged primarily in other lines of manufacture: 1931, \$22,581; 1929, \$7,840; 1925, \$143,790; 1923, \$12,850; corresponding amounts for earlier years not available.

³ Value of products less cost of materials, fuel, and purchased electric energy. See sec. 20, p. 11.

⁴ No comparable figures can be given for years prior to 1914.

⁵ Percent not computed where base is less than 100.

⁶ Colorado, 1 establishment; Georgia, 1; Louisiana, 1; Massachusetts, 1; Minnesota, 1; Oklahoma, 1; Oregon, 1; Pennsylvania, 1; Texas, 1; Wisconsin, 1.

TOBACCO MANUFACTURES

Description of the industries.—The two tobacco industries, (1) Cigars and Cigarettes and (2) Tobacco, Chewing and Smoking, and Snuff, embrace all establishments engaged primarily in the manufacture of the commodities from which the industries derive their titles.

Number of establishments.—The numbers of establishments shown in the Census report fall below the corresponding numbers given in the report of the Commissioner of Internal Revenue, the differences being due to the following causes: (1) On the records of the Bureau of Internal Revenue the same establishments may appear two or more times—for example, as a manufacturer of cigars, as a manufacturer of chewing tobacco, and as a manufacturer of cigarettes—while for census purposes such an establishment would make only one report and would be classified according to its product of chief value. (2) A separate report is required by the Bureau of Internal Revenue for each plant or factory, whereas in compiling the census returns two or more factories operated under the same ownership in the same city, town, or village are treated as a single establishment. (3) Every dealer in scrap tobacco is required to register with the Bureau of Internal Revenue, whereas the manufactures-census statistics do not include data for dealers. (4) Growers of perique tobacco are required by the Bureau of Internal Revenue to register as manufacturers of tobacco, but are not covered by the Census of Manufactures. (5) A considerable number of manufacturers registered for taxation purposes made products valued at less than \$5,000, and therefore were not covered by the Census of Manufactures. (See sec. 3*d*, p. 4.)

Inclusion of internal-revenue tax in cost of materials and value of products.—All branches of tobacco manufacture are subject to internal-revenue taxation. Tobacco manufacturers were directed, in preparing returns for the Census, to report the total selling value of all products manufactured during the year, including the total internal-revenue tax paid on these products. Such taxes were also included in the cost of materials for 1931, but were not thus included for prior years. The inclusion of the internal-revenue tax data in both the cost of materials and the value of products makes possible the calculation of the true value added by manufacture (value of products less cost of materials, fuel, etc.—i.e., the value actually created by the manufacturing processes) for 1931; but since the amounts of internal-revenue tax paid during the preceding census years were not separately reported to the Bureau of the Census except for 1929 and were not separately tabulated for that year, it is impossible to calculate comparable figures for value added by manufacture for years prior to 1931.

As stated above, a separate report is required by the Bureau of Internal Revenue for each plant or factory making a particular product, whereas for census purposes each establishment is classified as a whole according to its product of chief value. For example: An establishment classified in the Cigars and Cigarettes industry by the Bureau of the Census might manufacture 10,000,000 cigars and 100,000

pounds of tobacco during the year, in which case all figures in the report, including the item for internal-revenue tax, would be tabulated for the Cigars and Cigarettes industry, whereas the Bureau of Internal Revenue would tabulate separately the tax on the cigars and the tax on the tobacco. The amount of internal-revenue tax paid in 1931 by establishments classified in the cigars and cigarettes industry includes \$21,470,000 for manufactured tobacco, whereas the amount of tax paid on cigars and cigarettes by tobacco manufacturers was very much smaller. (Exact data on this amount are not available, however.) The annual report of the Commissioner of Internal Revenue shows separately the value of stamps used in connection with the manufacture of cigars, of cigarettes, of tobacco, and of snuff during the calendar year 1931, whereas the Census figures on cost of materials and value of products for 1931 include the tax paid on the products manufactured in the Cigars and Cigarettes industry and on those classified in the tobacco and snuff industry, respectively. A further cause—of minor importance, however—of the differences between the two sets of figures is the fact that the Internal Revenue figures include the tax paid by manufacturers of products valued at less than \$5,000. (See final sentence under "Number of establishments," above.)

TABLE I.—SUMMARY FOR THE TOBACCO INDUSTRIES IN COMBINATION AND SEPARATELY, FOR THE UNITED STATES, 1899 TO 1931, AND FOR STATES, 1931

[Data for establishments with products under \$5,000 in value are included for 1919 and prior years but not for 1921 and subsequent years. See sec. 30, p. 4. Statistics are given for all States for which separate figures can be published without disclosing, exactly or approximately, the data reported by individual establishments. Certain of the "Other States," however, are more important in the respective industries than some of the States shown separately. See footnotes 7 and 10]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²
THE TOBACCO INDUSTRIES						
<i>United States</i>						
1931	1, 228	99, 769	\$69, 411, 167	(\$785, 502, 241 { 363, 475, 695	\$1, 155, 851, 190	\$379, 348, 949
1929	1, 788	116, 119	94, 573, 749	429, 272, 352	1, 246, 241, 839	(³)
1927	2, 156	129, 299	105, 250, 631	420, 666, 513	1, 163, 783, 379	(³)
1925	2, 623	132, 132	111, 558, 170	425, 769, 266	1, 091, 009, 981	(³)
1923	3, 672	146, 337	120, 462, 233	515, 864, 980	1, 044, 192, 405	(³)
1921	4, 372	149, 985	120, 903, 492	608, 688, 363	1, 048, 489, 597	(³)
1919	10, 291	157, 097	123, 988, 084	483, 567, 754	1, 012, 933, 213	(³)
1914	13, 951	178, 872	77, 856, 100	207, 133, 584	499, 168, 222	(³)
1909	15, 822	166, 810	69, 354, 594	177, 189, 621	419, 695, 104	(³)
1904	16, 827	159, 406	62, 639, 003	126, 085, 698	331, 111, 181	(³)
1899	14, 959	132, 526	47, 975, 331	92, 866, 542	263, 713, 173	(³)
Percent of increase or decrease (—):						
1929-31	-31.3	-14.1	-26.6	-15.3	-7.3	-----
1927-29	-17.1	-10.2	-10.1	2.0	7.1	-----
1925-27	-17.8	-2.1	-5.7	-1.2	6.7	-----
1923-25	-28.6	-9.7	-7.4	-17.5	4.5	-----
1921-23	-16.0	-2.4	-0.4	-15.3	-0.4	-----
1919-21	-57.5	-4.5	-2.5	25.9	3.5	-----
1921-31	-71.9	-33.5	-42.6	-40.3	10.2	-----
1919-29	-82.6	-26.1	-23.7	-11.2	23.0	-----
1909-19	-35.0	-5.8	78.8	172.9	143.1	-----
1899-1909	5.8	25.9	44.6	90.8	58.0	-----

For footnotes, see end of table.

TABLE 1.—SUMMARY FOR THE TOBACCO INDUSTRIES IN COMBINATION AND SEPARATELY, FOR THE UNITED STATES, 1899 TO 1931, AND FOR STATES, 1931—Continued

[See note at head of table]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²
CIGARS AND CIGARETTES						
<i>United States</i>						
1931.....	1, 103	88, 328	\$60, 737, 688	{ \$674, 343, 984 \$266, 602, 334 }	\$986, 738, 067	\$312, 394, 083
1929.....	1, 636	105, 308	85, 623, 298	356, 778, 023	1, 066, 908, 888	(³)
1927.....	1, 997	116, 174	94, 589, 211	335, 855, 075	965, 523, 702	(³)
1925.....	2, 445	117, 108	90, 373, 421	331, 350, 626	874, 814, 594	(³)
1923.....	3, 466	130, 036	107, 723, 504	369, 491, 263	821, 226, 819	(³)
1921.....	4, 146	133, 357	108, 161, 040	452, 211, 828	806, 748, 865	(³)
1919.....	9, 926	138, 773	111, 313, 348	353, 297, 366	773, 662, 495	(³)
1914.....	13, 515	152, 892	68, 306, 398	130, 529, 525	314, 684, 297	(³)
1909.....	15, 262	139, 678	60, 431, 949	102, 719, 795	260, 088, 233	(³)
1904.....	16, 394	135, 416	55, 863, 678	81, 131, 561	214, 343, 551	(³)
1899.....	14, 522	103, 365	40, 865, 510	57, 828, 255	159, 955, 811	(³)
Percent of increase or decrease (-):						
1929-31.....	-32. 6	-16. 1	-29. 1	-16. 9	-7. 5	-----
1927-29.....	-18. 1	-9. 4	-9. 5	6. 4	10. 5	-----
1925-27.....	-18. 3	-0. 8	-4. 8	1. 2	10. 4	-----
1923-25.....	-29. 5	-9. 9	-7. 8	-10. 3	6. 5	-----
1921-23.....	-16. 4	-2. 5	-0. 4	-18. 3	1. 8	-----
1919-21.....	-58. 2	-3. 9	-2. 8	28. 0	4. 3	-----
1921-31.....	-73. 4	-33. 8	-43. 8	-34. 4	22. 3	-----
1919-29.....	-83. 5	-24. 1	-23. 1	1. 0	37. 9	-----
1909-19.....	-35. 4	-0. 6	84. 2	243. 9	197. 5	-----
1899-1909.....	5. 8	35. 0	47. 9	77. 6	62. 6	-----
<i>States, 1931</i>						
Colorado.....	3	38	\$34, 386	\$57, 113	\$119, 739	\$62, 629
Connecticut.....	29	521	542, 343	608, 967	1, 473, 860	870, 893
Florida.....	53	10, 229	8, 260, 478	12, 896, 552	28, 849, 387	15, 952, 835
Illinois.....	88	531	546, 006	1, 125, 970	2, 163, 696	1, 037, 726
Indiana.....	20	2, 139	1, 018, 629	2, 739, 457	4, 796, 010	2, 056, 553
Iowa.....	14	259	143, 228	208, 728	452, 172	243, 444
Kentucky.....	12	2, 198	1, 402, 019	19, 801, 861	25, 008, 903	5, 205, 042
Louisiana.....	7	1, 119	606, 522	1, 364, 732	2, 327, 179	962, 447
Maine.....	6	83	75, 014	135, 994	248, 454	112, 460
Maryland.....	15	295	182, 014	321, 037	623, 460	302, 423
Massachusetts.....	38	709	624, 554	1, 810, 208	3, 651, 160	1, 840, 952
Michigan.....	33	3, 455	1, 948, 316	7, 166, 346	11, 710, 118	4, 543, 772
Missouri.....	19	1, 740	1, 029, 003	3, 334, 784	6, 246, 338	2, 911, 554
Nebraska.....	7	44	25, 610	61, 456	109, 965	48, 509
New Jersey.....	46	9, 342	6, 145, 124	42, 649, 012	61, 060, 806	18, 420, 794
New York.....	250	5, 555	5, 241, 653	15, 379, 006	27, 781, 699	12, 402, 693
North Carolina.....	7	15, 501	10, 820, 691	369, 599, 869	511, 431, 455	141, 831, 586
Ohio.....	68	4, 817	2, 490, 505	5, 998, 651	10, 721, 886	4, 728, 235
Pennsylvania.....	243	19, 839	12, 417, 856	38, 579, 192	71, 202, 120	32, 622, 928
Rhode Island.....	4	29	17, 940	24, 533	57, 578	33, 404
Wisconsin.....	58	438	379, 372	595, 944	1, 221, 988	626, 044
Other States.....	83	9, 447	6, 786, 120	149, 889, 572	215, 467, 094	65, 577, 522
TOBACCO: CHEWING AND SMOKING, AND SNUFF						
<i>United States</i>						
1931.....	125	11, 441	8, 673, 479	{ \$111, 158, 257 \$66, 873, 351 }	\$169, 113, 123	57, 954, 866
1929.....	152	10, 811	8, 955, 451	72, 494, 329	179, 332, 951	(³)
1927.....	159	13, 125	10, 661, 420	85, 310, 438	198, 244, 677	(³)
1925.....	178	15, 024	12, 184, 749	94, 418, 640	216, 186, 417	(³)
1923.....	206	16, 301	12, 738, 729	146, 373, 777	222, 965, 586	(³)
1921.....	226	16, 628	12, 742, 452	156, 476, 535	241, 740, 732	(³)
1919.....	365	18, 324	12, 674, 736	130, 270, 388	239, 270, 718	(³)
1914.....	436	25, 980	9, 549, 702	76, 604, 059	175, 280, 925	(³)
1909.....	460	27, 232	8, 922, 646	74, 465, 826	156, 606, 871	(³)
1904.....	433	23, 990	6, 775, 325	44, 354, 047	116, 767, 630	(³)
1899.....	437	29, 161	7, 109, 821	35, 038, 287	103, 754, 362	(³)

For footnotes, see end of table.

TABLE I.—SUMMARY FOR THE TOBACCO INDUSTRIES IN COMBINATION AND SEPARATELY, FOR THE UNITED STATES, 1899 TO 1931, AND FOR STATES, 1931—Continued.

(See note at head of table)

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²
TOBACCO, CHEWING AND SMOKING, AND SNUFF—continued.						
<i>United States—Contd.</i>						
Percent of increase or decrease (—):						
1929-31.....	-17.8	5.8	-3.1	-7.8	-5.7	-----
1927-29.....	-4.4	-17.6	-16.0	-15.0	-9.5	-----
1925-27.....	-10.7	-12.0	-12.5	-9.0	-8.3	-----
1923-25.....	-13.6	-7.8	-4.3	-35.5	-3.0	-----
1921-23.....	-8.9	-2.0	(³)	-6.5	-7.8	-----
1919-21.....	-38.1	-9.3	0.5	20.1	1.0	-----
1921-31.....	-44.7	-31.2	-31.9	-57.3	-30.0	-----
1919-29.....	-58.4	-41.0	-29.3	-44.4	-25.1	-----
1909-19.....	-20.7	-32.7	42.1	74.9	52.8	-----
1899-1909.....	5.3	-6.6	25.5	112.5	50.9	-----
<i>States, 1931</i>						
Indiana.....	7	26	\$27,000	\$35,375	\$138,328	\$52,953
Iowa.....	5	18	11,866	72,121	97,196	25,075
New York.....	10	61	58,352	417,854	668,530	250,676
Pennsylvania.....	19	269	243,985	2,631,724	4,234,255	1,602,531
Virginia.....	5	1,798	951,229	10,762,941	18,905,092	8,142,151
Other States ¹⁰	79	9,269	7,381,647	97,188,242	145,669,722	47,881,480

¹ For 1929, manufacturers' sales (shipments or deliveries); for other years, production. See sec. 16, p. 9.

² Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 20, p. 11.

³ Includes \$422,026,576 paid as internal-revenue tax. See "Inclusion of internal-revenue tax in cost of materials and value of products," p. 1160.

⁴ Not including internal-revenue tax; comparable with figures for earlier years. See "Inclusion of internal-revenue tax in cost of materials and value of products," p. 1160.

⁵ No comparable figures available. See "Inclusion of internal-revenue tax in cost of materials and value of products," p. 1160.

⁶ Includes \$377,741,650 paid as internal-revenue tax. See "Inclusion of internal-revenue tax in cost of materials and value of products," p. 1160.

⁷ Alabama, 1 establishment; California, 27; Delaware, 1; Georgia, 8; Idaho, 1; Kansas, 2; Minnesota, 12; Montana, 2; New Hampshire, 3; Oklahoma, 1; Oregon, 1; South Carolina, 3; South Dakota, 1; Tennessee, 2; Texas, 1; Utah, 1; Virginia, 3; Washington, 1; West Virginia, 7. The figures for these States are combined in order to avoid disclosing, exactly or approximately, data for individual establishments. Some of the States in this group—in particular, Virginia—are more important in the industry than many of the States for which separate figures are given.

⁸ Includes \$44,284,926 paid as internal-revenue tax. See "Inclusion of internal-revenue tax in cost of materials and value of products," p. 1160.

⁹ Less than one-tenth of 1 percent.

¹⁰ California, 2 establishments; Connecticut, 1; Delaware, 1; Illinois, 9; Kentucky, 13; Louisiana, 1; Massachusetts, 4; Michigan, 3; Minnesota, 1; Missouri, 5; New Jersey, 3; North Carolina, 3; Ohio, 16; Rhode Island, 1; Tennessee, 11; Texas, 1; West Virginia, 1; Wisconsin, 3. Some of the States in this group—namely, Illinois, Kentucky, Missouri, and Ohio—are, however, more important in the industry than any of the States for which separate figures are given.

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1931, 1929, 1925, 1919, AND 1914, AND FOR STATES, 1931, FOR THE TOBACCO INDUSTRIES

[This table presents statistics for only those States for which figures can be given without disclosing, exactly or approximately, the 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. See sec. 13, p. 8]

CIGARS AND CIGARETTES	Average number employed during year	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
<i>United States</i>													
1931	88,828	85,806	88,002	89,107	88,088	89,209	88,954	88,516	90,003	89,502	88,995	88,840	85,622
1929	105,308	100,910	102,570	102,620	103,620	103,400	103,962	104,451	106,005	105,502	110,307	110,307	105,749
1925	117,108	116,675	116,511	112,560	113,648	113,117	114,476	114,476	117,877	117,877	121,463	121,463	122,740
1919	138,773	142,147	142,333	138,028	137,048	137,758	138,455	138,455	145,539	145,539	143,071	153,729	158,112
1914	152,802	151,956	153,222	149,915	152,070	152,270	152,213	152,213	153,363	154,810	156,404	154,003	150,948
<i>States, 1931</i>													
Colorado	38	45	49	39	39	37	37	17	31	36	38	41	43
Connecticut	621	530	516	526	534	524	534	530	520	517	518	517	512
Florida	10,229	9,375	9,861	9,945	10,553	10,458	10,458	10,408	10,584	10,775	10,680	11,091	9,964
Illinois	531	493	522	544	534	540	544	533	528	523	531	531	522
Indiana	2,139	2,207	2,271	2,040	2,059	2,151	2,151	2,163	2,073	2,072	2,057	2,068	2,114
Iowa	259	284	283	276	277	288	288	283	251	251	252	253	271
Kentucky	2193	2,250	2,215	2,120	2,080	2,185	2,185	2,163	2,312	2,341	2,328	2,130	2,172
Louisiana	1,119	1,102	1,104	1,109	1,102	1,122	1,094	1,094	1,110	1,132	1,147	1,147	1,146
Maine	83	85	81	79	82	82	78	78	76	82	86	86	87
Maryland	295	267	288	270	284	274	280	280	294	294	320	320	328
Massachusetts	709	516	688	758	758	787	787	787	794	718	720	688	663
Michigan	3,455	3,573	3,563	3,448	3,494	3,571	3,571	3,537	3,302	3,360	3,430	3,403	3,082
Missouri	1,740	1,702	1,808	1,605	1,687	1,680	1,680	1,676	1,830	1,902	1,901	1,906	1,695
Nebraska	44	46	44	44	44	44	44	44	44	44	44	44	44
New Jersey	9,242	9,735	9,144	9,037	9,058	9,363	9,363	9,277	9,444	9,389	9,220	9,320	9,225
New York	7,924	5,165	5,448	5,706	5,931	5,790	5,790	5,239	5,450	5,413	5,731	5,894	5,801
North Carolina	15,601	15,300	15,463	16,192	15,380	15,253	15,452	15,635	15,635	15,635	15,003	15,012	15,624
Ohio	4,917	3,766	3,095	3,065	3,095	3,073	3,015	3,015	4,306	4,703	4,730	4,706	4,456
Pennsylvania	19,689	18,962	19,765	20,252	20,066	20,173	19,844	19,703	20,301	20,124	19,703	19,447	18,644
Rhode Island	29	27	25	31	31	33	32	32	33	31	28	29	29
Wisconsin	458	405	409	429	441	442	449	449	460	462	453	439	435

TOBACCO, CHEWING AND SMOKING, AND
SHUFF

Year	United States	Indiana	Iowa	New York	Pennsylvania	Virginia	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1881	11,441	10,476	10,879	10,479	10,541	10,088	10,735	11,219	12,571	12,792	12,607	12,294	12,215							
1891	10,811	10,824	11,147	11,179	10,983	10,953	10,757	10,815	10,847	20,488	10,782	10,642	10,451							
1901	15,024	15,122	15,658	15,121	14,800	14,779	14,887	15,013	15,018	15,161	15,122	14,967	14,667							
1911	18,324	17,907	18,043	17,552	17,434	17,336	17,610	18,219	18,810	19,392	19,696	19,446	18,684							
1912	25,980	26,855	27,982	27,995	27,506	26,320	26,679	25,479	24,918	25,811	24,892	24,575	24,238							
1913	26	24	26	26	24	26	26	26	26	24	24	27	27							
1914	18	19	18	18	18	18	19	17	19	19	19	19	18							
1915	60	61	61	61	61	61	62	69	68	61	61	61	61							
1916	260	205	298	264	269	239	297	263	267	264	268	268	319							
1917	1,798	1,679	1,692	1,786	1,808	1,768	1,708	1,766	1,740	1,783	1,858	1,912	2,014							

TABLE 3.—PRODUCTS, BY KIND AND VALUE, FOR THE TOBACCO INDUSTRIES IN COMBINATION AND SEPARATELY: 1931, 1929, AND 1927

[The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for other years represent production. See sec. 16, p. 9]

	1931	1929	1927
Tobacco industries, all products, aggregate value.....	\$1,155,851,190	\$1,246,241,839	\$1,163,768,379
Cigars.....	226,004,878	309,327,032	336,080,515
Cigarettes.....	672,652,372	668,243,257	557,715,047
Chewing and smoking tobacco.....	223,109,568	232,607,120	238,508,515
Snuff.....	31,448,713	32,479,248	29,150,915
All other products.....	2,635,659	3,585,182	2,313,387
Cigars and Cigarettes industry, all products, total value.....	956,738,067	1,060,908,888	965,523,702
Cigars.....	225,886,562	309,210,900	336,026,301
Cigarettes.....	670,599,155	668,035,126	551,870,928
Chewing and smoking tobacco.....	89,429,574	87,917,300	75,361,417
All other products.....	822,776	1,745,562	2,265,056
Tobacco: Chewing and Smoking, and Snuff industry, all products, total value.....	169,113,123	179,322,951	198,244,677
Cigars.....	118,316	116,132	54,214
Cigarettes.....	2,053,217	208,131	5,844,119
Chewing and smoking tobacco.....	133,679,994	144,689,820	163,147,098
Snuff.....	31,448,713	32,479,243	29,150,915
All other products.....	1,812,833	1,839,620	48,331

TABLE 4.—PRODUCTS, BY KIND AND VALUE, FOR THE TOBACCO INDUSTRIES AS A GROUP, BY STATES: 1931

[This table gives statistics for each State for which it is possible to publish separate figures without disclosing, exactly or approximately, the output of individual establishments. Certain of the "Other States," however, outrank some of the States for which separate figures are given]

KIND	Number of establishments ¹	Value	KIND	Number of establishments ¹	Value
Cigars, total.....	1,071	\$226,004,878	Cigars—Continued		
California.....	24	2,704,285	New Jersey.....	46	\$38,314,661
Colorado.....	3	119,739	New York.....	233	21,077,459
Connecticut.....	29	1,476,677	Ohio.....	69	10,696,240
Florida.....	52	28,838,559	Pennsylvania.....	235	69,730,696
Illinois.....	85	1,568,040	Rhode Island.....	5	57,113
Indiana.....	20	4,692,179	Wisconsin.....	61	1,250,438
Iowa.....	16	419,950	Other States.....	85	26,518,140
Louisiana.....	7	2,327,179	Cigarettes, total.....	58	672,652,372
Maine.....	6	247,198	North Carolina.....	4	426,607,270
Maryland.....	15	623,110	Other States.....	54	246,045,102
Massachusetts.....	38	3,626,042	Chewing and smoking tobacco, total.....	261	223,109,568
Michigan.....	32	11,639,300	Snuff.....	18	31,448,713
Nebraska.....	7	91,881			

¹ The difference between the sum (1,408) of the numbers of establishments manufacturing the several classes of products, as given in this table, and the total number of establishments in the two industries (1,228) as given in table 1 of this report, is due to the fact that some of the establishments made more than one class of products.

² It is necessary to withhold from publication the figures for the leading States in the production of chewing and smoking tobacco and for all States in which snuff is manufactured, in order to avoid disclosing approximations of the output of individual establishments.

TOYS, GAMES, AND PLAYGROUND EQUIPMENT, AND CHILDREN'S CARRIAGES AND SLEDS

[A preliminary report for these industries was issued under date of Nov. 12, 1932]

Because of the considerable amount of overlapping between the Toys, Games, and Playground Equipment and the Children's Carriages and Sleds industries, combined statistics for the two industries are given in tables 1 and 3 of this report. (See Group 14, p. 1026.)

Description of the industries.—The Toys, Games, and Playground Equipment industry embraces establishments engaged in the manufacture of apparatus for games (both for adults and for children), except ordinary playing cards and apparatus classified under "Sporting and Athletic Goods, Not Including Firearms or Ammunition"; playground equipment and lawn swings; toys of all kinds, such as dolls, doll parts, and doll clothes; toy furniture and utensils; mechanical toys and toy building blocks; toy drums; hobby horses and rocking horses; kites; conjuring apparatus, tricks, and puzzles; masks; marbles; educational boards; toy pistols, air rifles, etc.

The establishments classified in the Children's Carriages and Sleds industry are engaged primarily in the manufacture of children's carriages and certain other classes of children's wheel goods, and children's sleds.

TABLE 1.—SUMMARY FOR THE INDUSTRIES, IN COMBINATION AND SEPARATELY, FOR THE UNITED STATES, 1899 TO 1931, AND FOR STATES, 1931

[Data for establishments with products under \$5,000 in value are included for 1919 and prior years but not for 1921 and subsequent years. See sec. 3d, p. 4. Statistics are given for all States for which separate figures can be published without disclosing, exactly or approximately, the data reported by individual establishments. Certain of the "Other States," however, are more important in the industry than some of the States shown separately]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²
THE GROUP AS A WHOLE						
<i>United States</i>						
1931	439	17,390	\$16,859,015	\$28,665,352	\$70,370,168	\$41,764,806
1929	555	23,782	25,974,029	43,496,314	103,649,841	69,150,527
1927	489	21,768	23,857,031	39,700,594	92,623,851	52,823,347
1925	493	20,483	21,708,352	35,732,656	85,907,267	59,174,611
1923	511	22,808	22,756,746	39,765,007	90,239,498	59,474,401
1921	451	14,908	14,530,940	24,085,820	57,208,184	33,122,364
1919	644	20,887	18,676,315	31,541,656	79,163,399	38,621,743
1914	382	13,737	6,679,571	11,461,983	25,768,371	14,046,388
1909	316	10,605	4,444,273	7,683,112	17,069,284	9,389,182
1904	239	8,333	3,397,690	5,129,901	11,948,694	6,818,703
1899	246	6,042	2,209,549	3,661,519	8,249,694	4,638,708
Percent of increase or decrease (—):						
1929-31	-20.9	-26.8	-35.1	-34.2	-32.1	-30.6
1927-29	14.2	9.2	11.2	9.6	11.9	13.7
1925-27	11.0	6.3	7.6	11.1	7.5	5.5
1923-25	-14.3	-10.2	-4.6	-10.1	-4.8	-6
1921-23	13.3	53.0	56.6	65.1	57.7	52.4
1919-21	-30.0	-28.6	-19.6	-23.6	-18.5	-14.2
1921-31	-2.7	16.6	16.0	18.8	23.0	26.1
1919-29	-13.8	13.8	43.7	37.9	47.7	55.7
1909-19	107.7	97.0	306.7	310.5	311.1	311.5
1899-1909	26.0	75.5	101.1	109.8	105.7	102.4

For footnotes, see end of table.

TABLE I.—SUMMARY FOR THE INDUSTRIES, IN COMBINATION AND SEPARATELY, FOR THE UNITED STATES, 1899 TO 1931, AND FOR STATES, 1931—Continued

(See note at head of table)

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²
TOYS (NOT INCLUDING CHILDREN'S WHEELGOODS OR SLEDS), GAMES, AND PLAYGROUND EQUIPMENT						
<i>United States</i>						
1931	380	13,231	\$12,379,612	\$21,514,744	\$53,690,779	\$32,086,635
1929	476	16,660	17,660,673	29,981,527	74,828,981	44,847,454
1927	397	14,738	15,543,383	25,805,418	63,955,706	38,150,288
1925	352	13,557	13,785,048	22,179,472	55,733,706	33,554,294
1923	411	14,484	13,900,548	23,829,329	56,066,432	32,237,103
1921	362	9,448	8,953,034	14,568,517	35,491,345	20,922,828
1919	541	14,201	11,847,277	19,841,498	45,656,803	25,815,305
1914	290	7,887	3,498,866	5,779,494	13,756,748	7,977,254
1909	226	5,305	2,227,412	3,554,238	8,264,135	4,709,897
1904	161	4,330	1,614,706	2,280,439	5,577,693	3,288,254
1899	169	3,316	1,119,253	1,605,449	4,009,999	2,344,550
Percent of increase or decrease (-):						
1929-31	-20.2	-20.6	-29.9	-28.2	-28.4	-28.5
1927-29	19.9	13.0	13.6	16.2	17.0	17.6
1925-27	12.8	8.7	12.8	16.3	14.8	13.7
1923-25	-14.4	-6.4	-8	-6.9	-6	4.1
1921-23	13.5	53.3	55.3	63.6	58.0	54.1
1919-21	-33.1	-33.5	-24.4	-26.6	-22.3	-19.0
1921-31	5.0	40.0	38.3	47.7	51.0	53.4
1919-29	-12.0	17.3	49.1	51.1	63.9	73.7
1909-19	139.4	167.7	431.9	468.2	452.5	448.1
1899-1909	33.7	60.0	99.0	113.4	106.1	100.9
<i>States, 1931</i>						
California	10	53	\$43,387	\$81,779	\$228,696	\$146,917
Connecticut	13	858	847,210	902,747	3,166,996	2,204,249
Illinois	24	1,234	1,241,961	1,514,418	4,913,194	3,398,776
Indiana	12	477	407,750	746,600	1,628,035	881,375
Maine	5	301	264,231	306,480	741,636	435,156
Maryland	5	162	135,474	279,203	610,812	331,609
Massachusetts	28	1,580	1,371,122	2,922,432	6,507,800	3,585,368
Michigan	8	468	470,397	647,576	1,951,128	1,303,552
Minnesota	6	94	110,296	143,114	477,429	334,316
Missouri	6	319	259,405	388,342	925,513	637,171
New Hampshire	5	106	82,036	69,838	275,986	204,148
New Jersey	17	1,275	1,311,758	1,736,177	5,264,295	3,528,118
New York	147	3,121	3,253,818	7,288,562	16,086,610	8,768,048
Ohio	37	1,259	1,011,577	2,026,730	4,806,593	2,779,863
Pennsylvania	27	1,351	1,074,471	1,769,948	4,082,585	2,312,637
Rhode Island	6	27	21,162	37,366	90,577	53,211
Wisconsin	5	93	78,708	166,734	467,632	300,895
Other States ¹	19	453	394,949	426,638	1,375,262	948,624
CARRIAGES AND SLEDS, CHILDREN'S						
<i>United States</i>						
1931	59	4,159	4,479,403	7,090,608	16,769,379	9,678,771
1929	79	7,102	8,313,356	13,514,787	28,817,860	15,303,073
1927	59	7,030	7,813,648	13,895,080	28,665,145	14,773,059
1925	86	6,926	7,923,304	13,553,184	30,173,501	16,620,317
1923	100	8,324	8,856,198	15,935,678	34,172,976	18,237,268
1921	89	5,460	5,577,906	9,517,303	21,716,839	12,199,535
1919	103	6,686	6,229,038	11,700,158	24,506,506	12,806,438
1914	92	5,900	3,180,705	5,682,439	11,751,623	6,069,134
1909	84	5,300	2,216,881	4,128,874	8,805,129	4,676,255
1904	78	4,003	1,782,984	2,840,462	6,370,911	3,530,449
1899	77	2,728	1,060,296	1,996,070	4,289,695	2,263,625

For footnotes, see end of table.

TABLE 1.—SUMMARY FOR THE INDUSTRIES, IN COMBINATION AND SEPARATELY, FOR THE UNITED STATES, 1899 TO 1931, AND FOR STATES, 1931—Continued

[See note at head of table]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²
CARRIAGES AND SLEDS, CHILDREN'S—continued						
<i>United States—Continued</i>						
Percent of increase or decrease (—):						
1929-31.....	(0)	-41.4	-46.1	-47.5	-41.8	-36.8
1927-29.....	(0)	1.0	6.4	-2.7	0.5	3.6
1925-27.....	(0)	1.5	-1.4	2.5	-5.0	-11.1
1923-27.....	-14.0	-16.8	-10.5	-15.0	-11.7	-8.9
1923-25.....	(0)	52.5	58.8	67.4	57.4	49.5
1921-23.....	(0)	-18.3	-10.5	-18.7	-11.4	-4.7
1919-21.....	-13.6					
1921-31.....	(0)	-23.8	-19.7	-25.5	-22.8	-20.7
1919-29.....	23.3	6.2	33.5	15.5	17.6	19.5
1909-19.....	(0)	26.2	181.0	183.4	178.3	173.9
1899-1909.....	(0)	94.4	103.3	106.9	105.3	103.9
<i>States, 1931</i>						
Illinois.....	6	224	\$244,989	\$624,024	\$1,247,599	\$623,575
Indiana.....	4	109	88,875	125,058	270,553	145,495
Massachusetts.....	11	1,262	1,287,056	2,277,674	4,995,218	2,717,544
New York.....	10	276	336,488	718,033	1,469,070	751,037
Ohio.....	6	1,277	1,556,106	1,890,401	5,552,002	3,661,601
Pennsylvania.....	5	197	186,133	368,736	713,334	344,598
Other States ³	17	814	779,756	1,086,682	2,521,603	1,434,921

¹ For 1929, manufacturers' sales (shipments or deliveries); for other years, production. See sec. 16, p. 9.

² Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 20.

D. II.

³ Arkansas, 1 establishment; Colorado, 1; Georgia, 1; Iowa, 2; Kansas, 2; Kentucky, 1; North Carolina, 1; Oklahoma, 1; Oregon, 1; Tennessee, 1; Texas, 1; Vermont, 3; Washington, 1; West Virginia, 2.

⁴ Percent not computed where base is less than 100.

⁵ Alabama, 1 establishment; Connecticut, 3; Iowa, 1; Maryland, 1; Michigan, 2; Minnesota, 2; Missouri, 2; New Jersey, 1; Vermont, 1; Wisconsin, 3.

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR EACH INDUSTRY, FOR THE UNITED STATES, 1931, 1929, 1925, 1919, 1914, and 1909, and for STATES, 1931

[This table presents statistics for only those States for which figures can be given without disclosing, exactly or approximately, 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. See sec. 13, p. 8.]

	Average number employed during year	NUMBER REPORTED FOR—											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
TOYS (NOT INCLUDING CHILDREN'S WHEEL GOODS OR SLEDS), GAMES, AND PLAY-GROUND EQUIPMENT													
<i>United States</i>													
1931	13, 231	9, 883	10, 953	11, 533	11, 679	12, 092	12, 318	12, 693	14, 129	15, 819	17, 192	16, 904	13, 589
1929	10, 660	12, 832	13, 748	14, 913	15, 364	15, 869	16, 198	16, 683	17, 807	18, 881	20, 237	20, 144	17, 183
1925	13, 557	10, 377	11, 238	11, 919	12, 464	12, 879	13, 391	14, 042	14, 420	15, 003	16, 104	16, 253	14, 607
1919	14, 201	10, 141	11, 080	12, 028	12, 706	13, 564	14, 318	15, 574	15, 942	16, 283	16, 471	18, 701	15, 574
1914	7, 887	5, 745	6, 438	6, 853	7, 165	7, 501	7, 861	8, 299	8, 712	9, 818	10, 135	9, 039	7, 031
1909	5, 305	5, 716	4, 194	4, 443	4, 847	5, 114	5, 354	5, 580	5, 984	6, 205	6, 505	6, 376	5, 328
<i>States, 1931</i>													
California	53	29	31	35	37	44	48	49	50	67	99	107	34
Connecticut	858	770	822	855	881	873	842	849	855	876	936	945	789
Illinois	1, 234	1, 092	1, 147	1, 096	1, 270	1, 279	1, 223	1, 266	1, 242	1, 299	1, 383	1, 317	1, 196
Indiana	477	280	342	378	431	467	514	510	601	594	635	550	418
Maine	301	318	295	295	307	300	298	284	295	318	301	331	269
Maryland	162	82	97	97	100	112	147	198	196	212	230	244	227
Massachusetts	1, 580	1, 396	1, 563	1, 649	1, 603	1, 569	1, 441	1, 516	1, 617	1, 717	1, 806	1, 797	1, 235
Michigan	468	392	403	409	402	433	428	427	447	607	622	612	431
Minnesota	94	86	88	98	99	106	93	92	100	101	92	91	90
Missouri	319	131	239	332	213	260	212	238	399	389	441	610	465
New Hampshire	106	109	103	101	104	104	95	93	91	101	112	133	127
New Jersey	1, 275	819	832	971	1, 148	1, 244	1, 422	1, 238	1, 315	1, 531	1, 571	1, 621	1, 536
New York	3, 121	1, 748	2, 106	2, 279	2, 263	2, 489	2, 699	2, 971	3, 631	4, 212	4, 764	4, 623	3, 671
Ohio	1, 259	1, 130	1, 194	1, 218	1, 242	1, 231	1, 180	1, 299	1, 298	1, 380	1, 416	1, 343	1, 192
Pennsylvania	1, 351	1, 001	1, 031	1, 074	1, 074	1, 145	1, 212	1, 236	1, 470	1, 742	1, 921	1, 871	1, 432
Rhode Island	27	30	26	27	28	25	24	23	18	26	36	35	36
Wisconsin	93	71	70	75	81	69	71	109	88	113	142	149	72
CARRIAGES AND SLEDS, CHILDREN'S													
<i>United States</i>													
1931	4, 159	3, 438	3, 822	4, 051	4, 191	4, 291	4, 028	4, 209	4, 258	4, 288	4, 724	4, 701	3, 901
1929	7, 102	6, 850	6, 618	6, 965	7, 288	7, 329	6, 885	6, 927	7, 350	7, 949	8, 340	7, 733	5, 985
1925	6, 925	6, 400	6, 650	6, 914	6, 866	6, 618	6, 527	6, 439	6, 680	7, 274	7, 918	7, 865	7, 066
1919	6, 685	5, 999	6, 213	6, 486	6, 522	6, 684	6, 878	6, 644	6, 848	6, 838	6, 946	6, 995	7, 179
1914	5, 900	6, 198	6, 211	6, 180	6, 056	5, 892	5, 637	5, 562	5, 422	5, 787	5, 970	6, 052	5, 893
1909	5, 300	5, 637	5, 871	5, 683	5, 540	5, 309	4, 836	4, 653	4, 627	5, 066	5, 258	5, 366	5, 790
<i>States, 1931</i>													
Illinois	224	212	215	219	226	241	187	190	217	223	245	243	273
Indiana	109	96	94	87	103	115	105	116	110	123	140	122	99
Massachusetts	1, 262	1, 177	1, 330	1, 401	1, 384	1, 376	1, 273	1, 254	1, 210	1, 188	1, 230	1, 220	1, 098
New York	276	242	241	258	254	259	244	268	261	317	343	328	300
Ohio	1, 277	872	1, 014	1, 052	1, 184	1, 270	1, 220	1, 417	1, 454	1, 382	1, 659	1, 664	1, 138
Pennsylvania	197	148	172	191	189	195	189	173	175	187	233	267	246

TOYS, GAMES, AND PLAYGROUND EQUIPMENT, ETC. 1171

TABLE 3.—PRODUCTS, BY KIND, NUMBER, AND VALUE, FOR THE UNITED STATES: 1925 TO 1931

(The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for other years represent production. See sec. 16, p. 9)

KIND	1931	1929	1927	1925
1. "Toys, Games, and Playground Equipment" and "Children's Carriages and Sleds" industries, all products, total value.....	\$70,370,158	\$103,646,841	\$92,623,851	\$85,907,267
2. Toys, games, and playground equipment and children's carriages, and sleds.....	62,384,803	93,536,335	81,879,005	75,854,251
3. Other products (not normally belonging to the industries).....	7,804,435	9,874,285	9,314,897	8,450,801
4. Receipts for repair work.....	180,920	236,221	1,429,349	1,572,215
5. Toys, games, and playground equipment and children's carriages and sleds, made as secondary products in other industries.....	10,925,482	19,084,794	15,962,060	12,217,134
Toys, games, and playground equipment and children's carriages and sleds, all industries: Aggregate value (sum of 2 and 5).....	73,310,285	112,621,129	97,831,665	88,071,385
Toys, games, and playground equipment, total value.....	\$56,666,077	\$83,115,017	\$70,034,795	\$60,029,388
Dolls:				
Number reported:				
Number.....	11,183,993	15,151,801		
Value.....	\$8,256,591	\$12,397,935	\$13,440,758	\$12,117,437
Number not reported, value.....	\$701,460			
Doll parts, value.....	\$2,295,236	\$2,912,452	\$1,671,911	\$1,490,407
Doll clothes, value.....	\$546,905	\$670,244	\$451,775	
Metal toys other than mechanical, value.....	\$10,230,310	\$13,641,472	\$9,393,014	
Mechanical toys propelled by springs or by electricity, total value.....	\$5,491,866	\$7,889,393	\$7,563,435	
Trains:				
Number reported:				
Number.....	683,690			
Value.....	\$1,081,062	\$4,309,241		
Number not reported, value.....	\$2,223,000			
Airplanes:				
Number reported:				
Number.....	814,695			
Value.....	\$88,121	\$3,580,152		\$3,011,569
Number not reported, value.....	\$2,109			
Other, value.....	\$2,097,583			
Airplanes other than mechanical, value.....	\$568,156	(?)	(?)	
Wooden toys, value.....	\$5,739,905	\$6,575,040	\$5,819,964	
Rubber toy balloons, value.....	\$2,725,322	\$3,090,567	\$3,577,657	
Rubber toys other than balloons, value.....	\$2,629,822	\$3,966,301	\$3,087,167	
China, clay, and composition toys (including marbles), value.....	\$518,300	\$699,143	\$801,099	
Structural toy sets, value.....	\$976,026	(?)	(?)	
Stuffed toy animals, value.....	\$1,310,878	\$1,882,692	(?)	
Toy furniture, value.....	\$1,421,326	\$3,485,139	\$2,388,312	
Kites, value.....	\$144,011	(?)	(?)	
Toys not specified above (including paper toys) and games, value.....	\$9,215,709	\$15,167,597	\$18,847,554	
Parts of toys, for sale as such, value.....	\$159,264	\$370,589	(?)	(?)
Playground equipment, value.....	\$3,144,923	\$6,821,502	\$2,661,550	\$1,449,226
Products not distributed by kind, value.....	\$590,069	\$3,544,711		\$8,924,749

For footnotes, see end of table.

TABLE 3.—PRODUCTS, BY KIND, NUMBER, AND VALUE, FOR THE UNITED STATES: 1925 to 1931—Continued

[See note at head of table]

KIND	1931	1929	1927	1925
Toys, games, and playground equipment and children's carriages and sleds—Continued				
Children's carriages and other wheel goods and children's sleds, total value.....	\$16,644,208	\$29,506,112	\$27,706,869	\$28,041,997
Baby carriages, go-carts, strollers, and sulkies:				
Number reported:				
Number.....	390,781	506,201	507,731	647,310
Value.....	\$4,111,043	\$7,171,977	\$7,459,424	\$8,059,446
Number not reported, value.....	\$1,579,710	\$1,879,329	\$1,276,592	\$990,949
Doll carriages and doll carts:				
Number reported:				
Number.....	770,000	1,307,546	1,080,160	1,309,571
Value.....	\$1,846,991	\$3,504,068	\$2,066,274	\$2,815,233
Number not reported, value.....	\$60,000	\$166,368		
Velocipedes and tricycles:				
Number.....	666,900	905,050	640,702	566,507
Value.....	\$2,801,204	\$4,696,021	\$3,539,041	\$2,762,087
Sidewalk cycles:				
Number.....	75,167	80,278	56,934	(¹)
Value.....	\$646,436	\$729,628	\$523,079	(¹)
Children's automobiles:				
Number reported:				
Number.....	144,500	205,352	144,380	216,400
Value.....	\$606,987	\$1,020,740	\$1,168,173	\$1,765,797
Number not reported, value.....	\$20,000			
Children's wagons (coaster, express, and play):				
Number reported:				
Number.....	1,348,721	1,807,430	1,416,916	1,228,740
Value.....	\$1,863,828	\$3,842,124	\$3,337,224	\$3,534,568
Number not reported, value.....	\$83,500	\$166,071		\$510,581
Scoters:				
Number.....	167,756	470,917	1,302,161	1,281,063
Value.....	\$226,608	\$656,423	\$3,275,485	\$3,445,918
3-wheel play cars:				
Number.....	206,112	580,374	482,439	666,698
Value.....	\$257,605	\$966,241	\$723,277	\$1,277,417
Baby walkers and tenders:				
Number.....	240,226	331,526	275,816	237,187
Value.....	\$618,006	\$788,061	\$799,301	\$743,719
Sleds:				
Number reported:				
Number.....	531,764	628,866	1,248,726	878,523
Value.....	\$503,196	\$617,096	\$1,744,751	\$918,878
Number not reported, value.....	\$298,099	\$254,519		
Children's wheelbarrows:				
Number.....	294,232	(¹)	(¹)	(¹)
Value.....	\$83,341	(²)	(²)	(²)
Children's wheel goods not reported by kind, value.....	\$455,748	\$2,111,754	\$983,248	\$1,208,384
Parts of children's wheel goods, for sale as such, value.....	\$641,006	\$935,692	(³)	(³)

¹ For 1931 and 1929, "Repair work" only; for 1927 and 1925, "Parts and repair work."² Not called for on schedule.³ The production of toy balloons was reported solely, and that of other rubber toys mainly, by establishments in the "Rubber products" group of industries, which embraces all industries using crude rubber as their principal material.

UMBRELLAS, PARASOLS, AND CANES

Description of the industry.—The principal products of this industry are umbrellas, parasols, canes, umbrella and parasol cases, handles other than gold and silver, and frames and other parts for umbrellas and parasols.

SUMMARY FOR THE UNITED STATES, 1899 TO 1931, AND FOR STATES, 1931

[Data for establishments with products under \$5,000 in value are included for 1919 and prior years but not for 1921 and subsequent years. See sec. 3d, p. 4. Statistics are given for all States for which separate figures can be published without disclosing, exactly or approximately, the data reported by individual establishments. One of the "Other States," namely, New Jersey, is, however, more important in the industry than either Massachusetts or Ohio]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased electric energy	Value of products ^{1, 2}	Value added by manufacture ³
<i>United States</i>						
1931.....	93	1,852	\$1,610,627	\$5,135,961	\$9,114,759	\$3,978,798
1929.....	141	2,855	2,768,410	10,907,373	17,094,378	7,087,003
1927.....	164	3,308	3,411,261	14,020,984	23,156,400	9,135,416
1925.....	176	3,731	3,686,014	16,594,328	27,299,431	10,705,103
1923.....	187	3,776	3,738,531	17,939,629	28,395,233	10,395,604
1921.....	154	3,149	3,126,246	16,888,759	26,007,762	9,119,003
1919.....	198	3,368	3,139,662	15,632,989	25,308,826	9,675,837
1914.....	265	4,792	2,167,453	8,591,887	13,813,353	5,221,486
1909.....	256	5,472	2,252,858	10,055,915	15,864,122	5,808,207
1904.....	204	5,386	1,826,043	8,250,246	13,296,046	5,045,800
1899.....	202	5,640	1,868,514	8,381,216	13,668,966	5,287,770
Percent of increase or decrease (-):						
1929-31.....	-34.0	-35.1	-41.8	-52.9	-49.3	-43.9
1927-29.....	-14.0	-13.7	-18.8	-22.2	-22.3	-22.4
1925-27.....	-6.8	-11.3	-7.7	-15.5	-15.2	-14.7
1923-25.....	-5.9	-1.2	-1.1	-7.8	-3.9	3.0
1921-23.....	21.4	19.9	19.6	6.6	9.2	14.0
1919-21.....	-22.2	-6.5	-0.4	8.0	2.8	-5.8
1921-31.....	-39.6	-41.2	-48.5	-69.0	-65.0	-56.4
1919-29.....	-28.8	-15.2	-11.8	-30.2	-28.9	-26.8
1909-19.....	-22.7	-38.5	30.4	55.5	59.5	66.6
1899-1909.....	26.7	-3.0	20.6	20.0	16.1	9.8
<i>States, 1931</i>						
Maryland.....	5	275	\$166,410	\$700,197	\$1,275,144	\$574,947
Massachusetts.....	6	98	82,708	378,002	559,751	181,749
New York.....	58	511	568,876	2,629,966	4,099,623	1,469,627
Ohio.....	5	89	66,713	190,631	324,351	133,720
Pennsylvania.....	10	557	406,131	969,875	1,859,603	889,923
Other States ⁴	9	322	318,789	267,460	996,287	728,827

¹ For 1929, manufacturers' sales (shipments or deliveries); for other years, production. See sec. 16, p. 9.

² Includes values of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of umbrellas, parasols, and canes, as follows: For 1931, \$509,672; 1929, \$408,740; 1927, \$489,643; 1925, \$1,245,033; corresponding amounts for earlier years not available. Does not include following values of umbrellas, parasols, and canes, made as secondary products by establishments engaged primarily in other lines of manufacture: For 1931, \$495,915; 1929, \$467,895; 1927, \$335,333; 1925, \$41,969; 1923, \$301,698; 1921, \$70,990; 1919, \$81,964; corresponding amounts for earlier years not available.

³ Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 20, p. 11.

⁴ Illinois, 2 establishments; Louisiana, 2; Missouri, 1; New Jersey, 2; Tennessee, 1; Washington, 1.

WINDOW SHADES AND FIXTURES

Description of the industry.—The principal products of this industry are window shades, window-shade rollers, and fixtures; and curtain poles, rods, and fixtures.

SUMMARY FOR THE UNITED STATES, 1899-1931, AND FOR STATES, 1931

[Data for establishments with products under \$5,000 in value are included for 1919 and prior years but not for 1921 and subsequent years. See sec. 3d, p. 4. Statistics are given for all States for which separate figures can be published without disclosing, exactly or approximately, the data reported by individual establishments. Certain of the "Other States," however, are more important in the industry than some of the States shown separately]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²
<i>United States</i>						
1931.....	448	3, 119	\$3, 313, 322	\$11, 198, 002	\$20, 561, 734	\$9, 363, 732
1929.....	482	4, 708	5, 623, 588	19, 785, 350	36, 904, 694	17, 179, 344
1927.....	386	4, 733	5, 855, 781	21, 065, 474	37, 081, 937	16, 016, 463
1925.....	336	5, 176	6, 207, 820	25, 029, 474	41, 667, 681	16, 628, 207
1923.....	305	5, 957	6, 825, 750	29, 521, 217	47, 040, 082	18, 118, 865
1921.....	242	3, 781	4, 421, 041	17, 887, 660	29, 647, 761	11, 760, 101
1919.....	287	4, 411	3, 689, 286	18, 249, 540	29, 190, 649	10, 941, 109
1914.....	286	4, 077	2, 180, 585	11, 888, 569	17, 444, 120	5, 555, 551
1909.....	219	3, 930	1, 917, 692	12, 652, 607	18, 570, 932	5, 918, 325
1904.....	144	2, 624	1, 086, 232	5, 946, 478	8, 930, 630	2, 984, 162
1899.....	96	1, 801	762, 144	5, 575, 126	8, 071, 854	2, 496, 728
Percent of increase or decrease (—):						
1929-31.....	-7.1	-33.8	-41.1	-43.4	-44.4	-45.5
1927-29.....	24.9	-0.5	-4.0	-6.1	-0.3	7.3
1925-27.....	14.9	-8.6	-5.7	-15.8	-11.0	-3.7
1923-25.....	10.2	-13.1	-9.1	-15.2	-12.6	-8.2
1921-23.....	26.0	57.6	54.4	65.0	60.7	54.1
1919-21.....	-15.7	-14.3	20.5	-2.0	1.6	7.5
1921-31.....	85.1	-17.5	-25.1	-37.4	-30.6	-20.4
1919-29.....	67.9	6.7	53.3	8.4	26.6	57.0
1909-19.....	31.1	12.2	91.3	44.2	57.2	84.9
1899-1909.....	(9)	118.2	155.0	126.9	130.1	137.0
<i>States, 1931</i>						
California.....	51	213	\$254, 010	\$797, 590	\$1, 513, 266	\$715, 676
Colorado.....	4	17	12, 485	37, 476	71, 200	33, 724
Connecticut.....	6	9	7, 491	45, 969	88, 984	43, 015
Illinois.....	75	384	461, 190	1, 098, 698	2, 432, 163	1, 333, 465
Indiana.....	11	130	100, 588	244, 917	614, 354	269, 437
Maryland.....	9	40	42, 923	304, 606	459, 282	154, 616
Massachusetts.....	21	97	109, 754	575, 485	990, 245	414, 760
Michigan.....	16	577	539, 306	1, 520, 520	3, 146, 402	1, 625, 882
Minnesota.....	5	19	18, 712	44, 056	92, 171	48, 115
Missouri.....	11	72	92, 168	246, 310	509, 009	262, 669
New Jersey.....	19	143	191, 950	839, 734	1, 313, 875	474, 141
New York.....	126	625	705, 411	2, 634, 165	4, 662, 374	2, 028, 209
Ohio.....	28	156	156, 850	391, 223	741, 277	350, 054
Oklahoma.....	4	13	12, 520	41, 034	72, 778	31, 744
Oregon.....	3	6	7, 710	67, 350	97, 842	30, 492

Footnotes at end of table.

SUMMARY FOR THE UNITED STATES, 1899-1931, AND FOR STATES, 1931—Contd.

[See note at head of table]

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased electric energy	Value of products ^{1,2}	Value added by manufacture ³
<i>States, 1931—Continued</i>						
Pennsylvania.....	17	179	\$194,522	\$854,204	\$1,264,089	\$409,885
Texas.....	11	48	39,677	421,621	613,749	192,128
Washington.....	8	20	26,208	60,638	135,210	74,578
Wisconsin.....	6	20	27,457	99,863	181,485	81,622
Other States ⁴	17	351	312,390	872,483	1,661,973	789,490

¹ For 1929, manufacturers' sales (shipments or deliveries); for other years, production. See sec. 16, p. 9.

² Includes values of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of window shades and fixtures, as follows: 1931, \$1,523,191; 1929, \$1,551,019; 1927, \$4,044,801; 1925, \$5,702,353; corresponding amounts for earlier years not available. Does not include following values of window shades and fixtures made as secondary products by establishments engaged primarily in other lines of manufacture: 1931, \$3,211,968; 1929, \$3,937,843; 1927, \$3,521,305; 1925, \$3,147,793; 1923, \$2,251,387; 1921, \$952,161; 1919, \$1,263,644; corresponding amounts for earlier years not available.

³ Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 20, p. 11.

⁴ Percent not computed where base is less than 100.

⁵ District of Columbia, 2 establishments; Florida, 2; Georgia, 2; Kansas, 1; Kentucky, 1; Maine, 1; Nebraska, 1; Rhode Island, 2; Tennessee, 1; Utah, 1; Vermont, 2; Virginia, 1.