CANDLES

Description of the industry.—This industry embraces establishments engaged primarily in the manufacture of candles for lighting or for decorative and ornamental purposes.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 to 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (—)	
					1933–1935	1929–1935
Number of establishments	23	19	23	20	(*)	(*)
Proprietors and firm members	3	1	(1)	4	(*)	(*)
Salaried personnel, total [2]	187	(3)	(1)	156	(3)	19.9
Salaried officers of corporations	45	(3)	(1)	35	(3)	(*)
Supervisory, technical, and clerical employees	[4] 142	[5] 138	(1)	121	2.9	17.4
Salaries paid, total [2]	$476,869	(3)	(1)	$501,787	(3)	−5.0
To salaried officers of corporations	$226,411	(3)	(1)	$261,363	(3)	−13.4
To supervisory, technical, and clerical employees	[4] $250,458	[5] $184,570	(1)	$240,424	35.7	4.2
Wage earners (average for year) [6]	713	673	713	781	5.9	−8.7
Wages	$598,938	$561,248	$711,459	$923,039	6.7	−35.1
Cost of materials, etc., total	$2,400,349	$1,844,417	$2,480,770	$3,250,627	30.1	−26.2
Cost of materials and supplies	$2,320,238	(1)	(1)	$3,173,982	(1)	−26.9
Cost of fuel	$66,159	(1)	(1)	$59,187	(1)	11.8
Cost of purchased electric energy	$13,952	(1)	(1)	$17,458	(1)	−20.1
Value of products	[7] $4,734,485	[7] $4,128,082	[7] $5,396,198	[7] $6,686,194	14.7	−29.2
Value added by manufacture [8]	$2,334,136	$2,283,665	$2,915,428	$3,435,567	2.2	−32.1

*Percent not computed where base is less than 100.

[1] No data.

[2] No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

[3] Data incomplete.

[4] Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 29; salaries $109,081. Technical, 6; salaries, $15,818. Clerical, 107; salaries, $125,559. See sec. 10, p. 7.

[5] Supervisory, 26; salaries, $74,280. Clerical and other, 112; salaries, $110,290. See sec. 10, p. 7.

[6] See sec. 11, p. 7.

[7] Includes values of commodities other than candles, made as secondary products by establishments in this industry, as follows: 1935, $547,168; 1933, $402,336; 1931, $576,956; 1929, $565,550. Does not include values of candles made as secondary products in other industries. The total values of candles made, so far as separately reported to the Bureau of the Census, were as follows: 1935, $5,478,061; 1933, $4,822,754; 1931, $6,109,302; 1929, $8,093,436.

[8] Value of products less cost of materials, supplies, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 8, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, fuel, and purchased energy	Value of products	Value added by manufacture
United States	23	187	713	$476,869	$598,938	$2,400,349	$4,734,485	$2,334,136
California	4	13	22	14,056	12,186	34,162	76,271	42,109
New York	12	149	553	398,411	464,885	1,918,038	3,822,278	1,904,240
Other States [1]	7	25	138	64,402	121,867	448,149	835,936	387,787

[1] Maryland, 1 establishment; Massachusetts, 1; Missouri, 1; New Jersey, 2; Ohio, 1; Pennsylvania, 1.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year [1]	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States													
1935	711	695	712	707	695	678	677	635	686	744	771	761	769
1933	673	614	626	607	638	587	520	592	692	817	780	824	776
States, 1935													
California	22	26	25	25	25	24	24	21	20	18	18	18	19
New York	551	550	572	566	557	539	541	502	523	542	556	581	581

[1] As the 1935 averages given in this table are derived from the figures for the 12 months in the calendar year, they differ slightly from the corresponding averages in table 2, which are derived in part from figures for months in fiscal years differing from the calendar year. See sec. 11, p. 7.

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CHEMICALS NOT ELSEWHERE CLASSIFIED

[Preliminary reports for this industry were issued Oct. 13, 1936, and on subsequent dates]

Description of the industry.—This industry embraces establishments engaged primarily in the manufacture of the classes of products for which statistics are given in table 3. It does not include the production of all classes of chemicals in the broad sense of the term, the principal exceptions being (1) explosives, (2) fertilizers, (3) soap, and (4) wood-distillation products. The manufacture of each of these four classes of products is treated as a separate industry.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (−)	
					1933–1935	1929–1935
Number of establishments	570	541	558	551	5.4	3.4
Proprietors and firm members	50	48	(1)	41	(*)	(*)
Salaried personnel, total [2]	14,541	(3)	(1)	13,318	(3)	9.2
Salaried officers of corporations	523	(3)	(1)	658	(3)	−20.5
Supervisory, technical, and clerical employees	[4] 14,018	[5] 10,246	(1)	12,660	36.8	10.7
Salaries paid, total [2]	$36,591,754	(3)	(1)	$35,924,786	(3)	1.9
To salaried officers of corporations	$4,254,396	(3)	(1)	$5,510,897	(3)	−22.8
To supervisory, technical, and clerical employees	[4] $32,337,358	[5] $22,612,123	(1)	$30,413,889	43.0	6.3
Wage earners (average for year) [6]	65,838	53,190	48,522	62,199	23.8	5.9
Wages	$80,480,605	$59,228,692	$66,360,107	$94,680,013	35.9	−15.0
Cost of materials, etc., total	329,350,435	221,453,486	246,068,398	363,576,811	48.7	−9.4
Cost of materials, supplies, and containers	285,685,002	(1)	(1)	313,319,328	(1)	−8.8
Cost of fuel	25,272,119	(1)	(1)	26,270,146	(1)	−3.8
Cost of purchased electric energy	18,393,314	(1)	(1)	23,987,337	(1)	−23.3
Value of products	668,697,448	476,502,663	533,175,179	738,048,386	40.3	−9.4
Value added by manufacture [7]	339,347,013	255,049,177	287,106,781	374,471,575	33.1	−9.4

*Percent not computed where base is less than 100.

[1] No data.

[2] No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

[3] Data incomplete.

[4] Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 3,739; salaries, $12,640,487. Technical, 3,455; salaries, $9,896,660. Clerical, 6,824; salaries, $9,800,211. See sec. 10, p. 7.

[5] Supervisory, 4,149; salaries, $13,428,570. Clerical and other, 6,097; salaries, $9,183,553. See sec. 10, p. 7.

[6] See sec. 11, p. 7.

[7] Value of products less cost of materials, supplies, containers, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, etc., fuel, and purchased energy	Value of products	Value added by manufacture
United States	570	14,541	65,838	$36,591,754	$80,480,605	$329,350,435	$668,697,448	$339,347,013
Alabama	4	90	783	275,898	685,139	3,265,919	6,096,359	2,830,440
California	52	791	3,150	1,883,094	4,083,770	10,733,562	27,664,660	16,931,098
Colorado	3	5	55	12,200	61,086	140,577	284,256	143,679
Connecticut	11	176	673	370,766	803,016	4,294,914	6,143,423	1,848,509
Illinois	36	646	3,648	1,468,506	4,373,666	19,972,124	36,394,430	16,422,306
Indiana	11	239	1,229	532,724	1,552,655	5,657,252	10,397,295	4,740,043
Iowa	4	45	327	125,370	369,421	2,155,380	2,869,305	713,925
Louisiana	12	134	780	306,611	865,215	4,550,050	7,324,036	2,773,986
Maryland	12	208	1,164	487,789	1,272,268	8,052,492	11,921,276	3,868,784
Massachusetts	21	549	2,614	1,394,444	2,894,805	10,773,589	20,454,550	9,680,961
Michigan	19	1,115	5,794	2,827,448	7,620,048	17,520,684	45,817,084	28,296,400
Minnesota	6	20	88	36,350	84,476	756,012	1,216,511	460,499
New Jersey	92	3,866	14,513	9,579,998	18,198,552	67,794,655	138,128,726	70,334,071
New York	87	2,440	9,990	6,947,431	12,866,833	56,750,700	123,496,822	66,746,122
Ohio	46	805	4,715	2,424,832	6,091,381	24,709,740	47,474,423	22,764,683
Pennsylvania	55	968	3,936	2,259,128	4,460,282	31,681,497	54,611,444	22,929,947
Rhode Island	6	40	247	104,867	293,333	1,118,138	1,932,132	813,994
Tennessee	10	447	2,052	1,008,545	1,936,794	10,272,802	24,870,886	14,598,084
Texas	8	108	554	234,762	556,580	1,995,832	3,849,071	1,853,239
Virginia	12	355	2,289	899,388	2,378,406	10,609,738	22,429,145	11,819,407
Washington	7	44	156	95,086	154,744	847,872	1,960,315	1,112,443
West Virginia	12	804	3,473	1,746,821	4,624,303	18,257,292	37,292,613	19,035,321
Other States [1]	44	646	3,610	1,569,696	4,253,832	17,439,614	36,068,686	18,629,072

[1] Arkansas, 2 establishments; Delaware, 1; District of Columbia, 1; Florida, 1; Georgia, 2; Kansas, 2; Kentucky, 2; Maine, 3; Missouri, 8; Montana, 2; New Hampshire, 3; North Carolina, 2; Oklahoma, 2; Oregon, 1; South Carolina, 3; Utah, 2; Wisconsin, 6; Wyoming, 1. See sec. 23, p. 12.

FOR STATISTICS OF WAGE EARNERS BY MONTHS, SEE TABLE 4, P. 640

TABLE 3.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1935, 1933, AND 1929

[All production figures represent production for sale and/or for interplant transfer unless specified as "Made and consumed." Tons 2,000 pounds unless otherwise specified]

	1935	1933	1929
1. "Chemicals Not Elsewhere Classified" industry, all products, total value	$668, 697, 448	$476, 502, 663	$738, 048, 386
2. Chemicals	592, 005, 039	427, 509. 191	671, 767, 066
3. Other products (not normally belonging to the industry)	76, 692, 409	39, 149 284	66, 281, 320
4. Chemicals and other products not reported separately (on abridged questionnaire)[1]		9, 844, 188	
5. Chemicals made as secondary products in other industries	53, 862, 061	[2] 62, 467. 565	(3)

	1935	1933	1929	NUMBER OF ESTABLISHMENTS, BY STATES, 1935
Chemicals, aggregate value (sum of 2 and 5)	$645, 867, 100	[2] $489, 976. 756	(3)	
Acetates, total value	$13, 217. 439	$11, 407, 060	(3)	
Aluminum:				
Number of establishments	5	5	(4)	Mo., 1; N. J., 3; N. Y., 1.
Tons [5]	175	76		
Value	$30, 285	$11, 295		
Amyl:				
Number of establishments	10	9	11	Ill., 1; Md., 1; Mich., 1; N. J., 3; N. Y., 1; Pa., 2; Wis., 1.
Gallons	1, 025. 789	[2] 608, 000	181, 203	
Value	$789, 293	[2] $441, 592	$312, 298	
Butyl:				
Number of establishments	9	11	11	Calif., 1; Ill., 1; Md., 1; Mass., 1; N. J., 3; Pa., 1; W. Va., 1.
Gallons	5. 631. 056	3. 763. 176	4, 523. 863	
Value	$3, 686, 689	$2, 577, 547	$5, 680. 155	
Calcium:				
Number of establishments	24	29	49	Mich.. 3; N. Y., 5; Pa., 13; Tenn., 1; Wis., 2.
Tons [6]	25, 851	26, 042	58, 163	
Value	$825, 522	$1, 165, 938	$4, 695, 449	
Ethyl:				
Number of establishments	9	9	14	Ill., 1; Md., 1; Mass., 1; Mich., 1; N. J., 3; Pa., 1; W. Va., 1.
Gallons	5, 563, 199	5, 082, 213	10, 932, 225	
Value	$2, 679, 195	$2, 660, 445	$9. 006, 914	
Chromium:				
Number of establishments	3		(4)	Ind., 1; Mass., 1; N. J., 1.
Pounds (basis 8½ to 12 percent Cr_2O_3)	630. 023			
Value	$35, 171			
Lead:				
Number of establishments	5	$4, 550, 243	6	N. J., 4; N. Y., 1.
Pounds	3, 360, 067		2, 084 364	
Value	$252, 799		$255, 753	
Other acetates, value	$4, 918, 485		(3)	

Acetone:				
Number of establishments	7	(7)	(4)	Calif., 1; Ill., 1; Ind., 1; Md., 1; Pa., 2; W. Va., 1.
Pounds	68,921,870			
Value	$2,642,149			
Acids, total value	$65,389,561	$50,656,657	$91,688,136	
Acetic (basis 100 percent): [8]				
Number of establishments	13	16	17	Ark., 1; La., 1; Mass., 1; Mich., 2; N. J., 1; N. Y., 1; Pa., 3; Tenn., 3.
Pounds	101,500,662	65,150,478	66,364,066	
Value	$5,455,362	$4,302,881	$6,890,411	
Boric (boracic):				
Number of establishments	3	6	7	Calif., 3.
Pounds	28,738,000	21,612,634	26,055,132	
Value	$1,245,874	$844,564	$1,541,360	
Chromic:				
Number of establishments	4	7	8	Md., 1; N. J., 1; Ohio, 1; Pa., 1.
Pounds	6,723,304	4,969,047	4,211,605	
Value	$887,842	$537,378	$710,272	
Citric:				
Number of establishments	4	5	5	Calif., 1; N. J., 2; N. Y., 1.
Pounds [9]	10,493,068	5,695,793	10,755,798	
Value	$2,768,377	$1,795,382	$4,832,984	
Hydrochloric:				
Number of establishments	33	36	33	Ala., 1; Calif., 2; Conn., 1; Del., 1; Ill., 3; Ind., 1; La., 1; Mass., 1; Mich., 3; N. J., 5; N. Y., 5; Ohio, 2; Pa., 3; Tex., 1; Wash., 1; W. Va., 2.
Total production (basis 100 percent), tons	87,090	62,628	81,307	
Made and consumed in same establishments, tons	32,201	17,733	18,701	
Made for sale:				
Tons	54,889	44,895	62,606	
Value	$3,048,159	$2,386,790	$3,195,415	
From salt:				
Number of establishments	19			Calif., 1; Conn., 1; Del., 1; Ill., 3; Ind., 1; La., 1; Mass., 1; N. J., 3; N. Y., 1; Ohio, 2; Pa., 2; Tex., 1; Wash., 1.
Tons	47,098			
Value	$2,656,028			
From chlorine:				
Number of establishments	5			Calif., 1; Ill., 1; Mich., 1; N. J., 1; N. Y., 1.
Tons	3,229	(10)	(10)	
Value	$203,398			
By-product and other:				
Number of establishments	8			Ala., 1; Mich., 2; N. Y., 3; Pa., 1; W. Va., 1.
Tons	4,562			
Value	$188,733			
Hydrofluoric (basis 100 percent):				
Number of establishments	5	[2] 5	(4)	Del., 1; Ind., 1; N. J., 1; Ohio, 1; Pa., 1.
Pounds	2,993,273	[2] 2,715,165		
Value	$471,327	[2] $402,368		
Mixed (sulphuric-nitric):				
Number of establishments	16	17	36	Ala., 1; Calif., 1; Del., 1; Ill., 2; Mass., 1; N. J., 4; N. Y., 1; Ohio, 1; Pa., 3; Wis., 1.
Tons	46,074	41,962	63,721	
Value	$2,105,231	$1,883,320	$4,214,433	

For footnotes, see end of table.

TABLE 3.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1935, 1933, AND 1929—Continued

[See note at head of table]

	1935	1933	1929	NUMBER OF ESTABLISHMENTS, BY STATES, 1935
Acids—Continued.				
Nitric:				
Number of establishments	30	28	48	Ala., 2; Ariz., 1; Calif., 3; Colo., 1; Conn., 2; Del., 1; Ill., 4; Mass., 1; Mich., 1; Mo., 1; N. J., 4; N. Y., 2; Ohio, 1; Pa., 4; Wash., 1; Wis., 1.
Total production (basis 100 percent), tons	96,109	[2] 95,637	143,454	
Made and consumed in same establishments, tons	71,609	[2] 66,056	110,493	
Made for sale:				
Tons	24,500	[2] 29,581	32,961	
Value	$2,142,817	[2] $2,428,268	$3,494,577	
Oleic:				
Number of establishments	12	(11)	13	Ill., 1; N. J., 4; Ohio, 6; Pa., 1.
Pounds	43,763,371		56,947,501	
Value	$3,273,421		$5,374,587	
Oxalic:				
Number of establishments	4	4	(4)	Ill., 1; N. J., 1; N. Y., 2.
Pounds	8,883,521	9,223,062		
Value	$945,215	$903,254		
Phosphoric:				
Number of establishments	11	11	9	Ala., 1; Ill., 1; Mont., 1; N. J., 3; N. Y., 1; R. I., 1; S. C., 2; Tenn., 1.
Pounds [12]	45,385,991	24,652,505	34,673,982	
Value	$1,333,702	$891,563	$2,073,066	
Pyrogallic:				
Number of establishments	3	3	(4)	Mo., 1; N. Y., 2.
Pounds	86,516	72,553		
Value	$115,802	$100,414		
Stearic:				
Number of establishments	12	(11)	12	Calif., 1; Colo., 1; Ill., 1; N. J., 2; Ohio, 6; Pa., 1.
Pounds	27,438,289		39,153,726	
Value	$2,776,935		$5,488,320	
Sulphuric: [13]				
Number of establishments	155	112	170	Ala., 7; Ariz., 1; Calif., 5; Colo., 1; Conn., 2; Del., 1; Fla., 3; Ga., 13; Ill., 10; Ind., 3; Kans., 1; Ky., 1; La., 5; Md., 4; Mass., 2; Mich., 3; Miss., 4; Mo., 2; Mont., 1; N. J., 10; N. Y., 3; N. C., 8; Ohio, 13; Okla., 2; Pa., 11; R. I., 1; S. C., 10; Tenn., 5; Tex., 7; Utah, 1; Va., 8; Wash., 1; W. Va., 2; Wis., 2; Wyo., 2.
Total production (basis 50° Baumé), tons	6,432,127	(14)	8,491,114	
Made and consumed in same establishments, tons	1,943,979	(14)	2,674,949	
Made for sale:				
Tons	4,488,148	3,847,889	5,816,165	
Value	$31,907,994	$26,482,063	$45,573,245	
Production by process:				
Contact:				
Number of establishments	65	(14)	42	Ala., 2; Ariz., 1; Calif., 5; Colo., 1; Del., 1; Fla., 1; Ill., 4; Ind., 3; Kans., 1; Ky., 1; La., 2; Md., 2; Mass., 1; Mich., 1; Mo., 2; N. J., 6; N. Y., 2; N. C., 2; Ohio, 3; Okla., 2; Pa., 8; R. I., 1; Tenn., 1; Tex., 4; Va., 2; Wash., 1; W. Va., 1; Wis., 2; Wyo., 2.
Total production, tons	3,431,427	(14)	3,076,240	
Made and consumed in same establishments, tons	834,534	(14)	(10)	
Made for sale:				
Tons	2,596,893			
Value	$19,457,633			

Chamber:				
Number of establishments	101	(14)	141	Ala., 5; Conn., 2; Fla., 2; Ga., 13; Ill., 6; Ind., 1; La., 3; Md., 4; Mass., 1; Mich., 2; Miss., 4; Mont., 1; N. J., 6; N. Y., 2; N. C., 6; Ohio, 11; Pa., 6; S. C., 10; Tenn., 5; Tex., 3; Utah, 1; Va., 6; W. Va., 1.
Total production, tons	3,000,700	(14)	5,414,874	
Made and consumed in same establishments, tons	1,109,445	(14)	(10)	
Made for sale:				
Tons	1,891,255			
Value	$12,450,361			
Tannic:				
Number of establishments	6	5	4	Mass., 1; Mo., 1; N. J., 2; N. Y., 1; Pa., 1.
Pounds [9]	724,552	682,462	1,449,375	
Value	$304,728	$236,125	$503,567	
Tartaric:				
Number of establishments	4	5	4	Calif., 1; N. Y., 2; Ohio, 1.
Pounds	6,887,121	6,798,855	4,906,479	
Value	$1,609,027	$1,492,871	$2,059,680	
Other acids, value	[15] $4,997,748	$5,969,416	$5,736,219	
Alcohols:				
Methyl, synthetic:				
Number of establishments	6	4	(4)	Ill., 1; Ind., 1; N. J., 1; N. Y., 1; Okla., 1; W. Va., 1.
Gallons	[16] 13,359,247	8,793,000		
Value	$3,611,382	$1,680,346		
Amyl, including refined fusel oil:				
Number of establishments	11			Calif., 1; Ill., 1; Md., 1; Mich., 1; N. J., 3; N. Y., 1; Pa., 1; W. Va., 1; Wis., 1.
Pounds	5,160,604			
Value	$568,111			
Butyl:				
Number of establishments	6	$24,121,944	(4)	Calif., 1; Ill., 1; N. J., 1; Pa., 1; W. Va., 2.
Pounds	35,877,675			
Value	$2,601,983			
Ethyl and other alcohols,[17] value	$36,299,499			
Ammonia, anhydrous:				
Number of establishments	11	[2] 9	16	Calif., 2; Mass., 1; Mich., 2; N. Y., 2; Ohio, 1; Pa., 1; Va., 1; W. Va., 1.
Pounds [18]	138,778,725	[2] 150,184,618	173,349,355	
Value [18]	$5,679,399	[2] $5,930,049	$10,673,234	
Ammonia, aqua and liquor: [19]				
Number of establishments	40	15	11	Calif., 2; Mass., 9; Mich., 6; Mo., 2; N. H., 1; N. J., 3; N. Y., 7; Ohio, 1; Pa., 3; R. I., 1; Va., 1; Wash., 1; W. Va., 1; Wis., 2.
Pounds (NH_3 content)	23,915,726	[2] 11,390,067	30,200,074	
Value	$1,235,479	$923,125	$1,784,212	
Bicarbonates and carbonates, total value	$36,513,605	$30,362,915	(3)	
Sodium bicarbonate, refined:				
Number of establishments	4	5	5	Mich., 1; N. Y., 1; Ohio, 1; Va., 1.
Tons (basis 100 percent)	136,556	129,273	140,234	
Value	$3,658,321	$3,585,862	$4,062,074	
Bismuth, subcarbonate:				
Number of establishments	6	5	5	Mo., 1; N. J., 2; N. Y., 3.
Pounds	231,432	210,773	140,391	
Value	$364,265	$293,728	$304,972	

For footnotes, see end of table.

TABLE 3.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1935, 1933, AND 1929—Continued

[See note at head of table]

	1935	1933	1929	NUMBER OF ESTABLISHMENTS, BY STATES, 1935
Bicarbonates and carbonates—Continued.				
Copper carbonate:				
Number of establishments	6	3	7	Calif., 2; Ill., 1; N. J., 1; Ohio, 2.
Pounds [9]	638,425	525,570	675,436	
Value	$89,536	$77,724	$123,202	
Soda ash:				
Number of establishments	16	[20] 11	14	Calif., 4; La., 2; Md., 1; Mich., 2; N. Y., 1; Ohio, 2; Pa., 1; Tex., 1; Va., 2.
Total production, tons	2,508,859	2,317,011	2,682,216	
Made and consumed in same establishments, tons	637,224	662,983	868,360	
Made for sale:				
Total tons	1,871,635	1,654,028	1,813,856	
Total value	$28,424,750	$24,182,681	$34,648,657	
By process:				
Ammonia soda:				
Number of establishments	9	6	6	La., 2; Mich., 2; N. Y., 1; Ohio, 2; Tex., 1; Va., 1.
Tons	1,776,470	1,585,633	1,717,944	
Value	$27,212,035	$23,163,690	$32,540,942	
Natural and electrolytic soda:				
Number of establishments	7	3	8	Calif., 4; Md., 1; Pa., 1; Va., 1.
Tons	[21] 95,165	[22] 68,395	95,912	
Value	$1,212,715	$1,018,991	$2,107,715	
Calcium carbonate (precipitated chalk):				
Number of establishments	6			Md., 1; Mo., 1; N. J., 1; Ohio, 1; Pa., 1; Va., 1.
Tons	33,971		(4)	
Value	$859,649			
Magnesium carbonate, precipitated:				
Number of establishments	7			Calif., 1; N. Y., 1; Pa., 4; W. Va., 1.
Tons	7,301		(4)	
Value	$877,741	$2,222,920		
Sal soda:				
Number of establishments	17		19	Calif., 6; Colo., 1; Md., 1; Mich., 1; N. J., 3; N. Y., 1; Ohio, 1; Pa., 1; R. I., 1; Wash., 1.
Tons	39,439		57,850	
Value	$1,021,308		$1,522,895	
Other bicarbonates and carbonates, value	$1,218,035		(3)	
Bismuth subgallate:				
Number of establishments	5	5	5	Mo., 1; N. J., 1; N. Y., 3.
Pounds	24,328	26,013	22,946	
Value	$38,686	$38,813	$54,899	

Bromides, value	$4,963,608	$2,764,131	(4)	
Calcium carbide:				
Number of establishments	6	7	(4)	Ala., 1; Iowa, 2; Mich., 1; N. Y., 1; Va., 1.
Tons	147,092	101,488		
Value	$6,234,380	$6,059,205		
Calcium oxychloride (bleaching powder):				
Number of establishments	16	10	15	Calif., 1; Maine, 1; Md., 2; Mass., 1; Mich., 1; N. H., 1; N. Y., 5; Pa., 1; R. I., 1; Va., 1; Wis., 1.
Tons [23]	39,561	28,302	93,116	
Value	$909,071	$921,264	$3,350,537	
Carbon, activated:				
Number of establishments	8	(4)	(4)	Md., 1; Mich., 1; Ohio, 1; Pa., 2; Tenn., 1; Tex., 1; Va., 1.
Tons [6]	11,477			
Value	$925,634			
Carbon bisulphide:				
Number of establishments	9	10	10	Calif., 1; Mich., 1; N. Y., 2; Pa., 2; Tenn., 1; Va., 1; W. Va., 1.
Pounds	117,757,762	90,179,039	71,009,798	
Value	$3,384,851	$3,282,612	$2,859,584	
Carbon tetrachloride:				
Number of establishments	5	6	3	Mich., 2; N. Y., 1; Ohio, 1; W. Va., 1.
Pounds	51,970,367	30,343,693	32,712,749	
Value	$2,149,877	$1,354,475	$1,728,034	
Chlorates, value	$410,499	$342,191	(4)	
Chlorides, total value	$17,350,094	$15,646,841	(3)	
Aluminum (anhydrous, crystal, and liquid):				
Number of establishments	10	7	7	Conn., 1; Mass., 1; Mo., 1; N. J., 3; N. Y., 2; Pa., 1; W. Va., 1.
Tons [9]	2,339	1,127	1,521	
Value	$397,295	$143,250	$225,184	
Calcium: [24]				
Solid:				
Number of establishments	5			Mich., 2; N. J., 1; N. Y., 1; Ohio, 1.
Tons (basis 73 to 75 percent)	7,526			
Value	$108,548			
Flake:				
Number of establishments	4	13	18	Mich., 2; N. Y., 1; Ohio, 1.
Tons (basis 73 to 75 percent)	197,948	158,000	277,010	
Value	$3,205,727	$2,715,552	$5,947,281	
Liquid:				
Number of establishments	5			Mich., 2; N. Y., 2; Ohio, 1.
Tons (basis 75 percent)	21,527			
Value	$314,613			
Iron—ferric and ferrous:				
Number of establishments	14	9	7	Calif., 1; Ill., 1; Mich., 3; Mo., 1; N. J., 2; N. Y., 3; Ohio, 1; Pa., 1; R. I., 1.
Pounds [9]	11,318,416	9,153,567	5,941,289	
Value	$291,875	$201,253	$292,515	
Mercury—mercuric and mercurous:				
Number of establishments	5	4	5	Mo., 1; N. J., 3; N. Y., 1.
Pounds	478,486	411,768	525,759	
Value	$428,402	$379,661	$921,611	

For footnotes, see end of table.

TABLE 3.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1935, 1933, AND 1929—Continued

[See note at head of table]

	1935	1933	1929	NUMBER OF ESTABLISHMENTS, BY STATES, 1935
Chlorides—Continued.				
Sulphur:				
Number of establishments	4	5	4	Mich., 1; N. J., 1; N. Y., 2.
Pounds	76,362,340	45,997,960	17,827,108	
Value	$1,178,804	$664,983	$312,228	
Tin—stannic:				
Number of establishments	7	9		Mo., 1; N. J., 5; N. Y., 1.
Pounds	15,640,763	18,888,348	(4)	
Value	$3,976,487	$3,228,402		
Tin—stannous:				
Number of establishments	7	5		Mo., 1; N. J., 4; Pa., 2.
Pounds	477,229	301,840	(4)	
Value	$174,811	$98,545		
Ammonium (sal ammoniac):				
Number of establishments	8			Calif., 1; Ind., 1; N. J., 2; N. Y., 1; Ohio, 1; Pa., 2.
Pounds	34,864,681		(4)	
Value	$1,583,613			
Copper:				
Number of establishments	6			Mo., 1; N. J., 4; Ohio, 1.
Pounds	77,290		(4)	
Value	$9,717			
Gold:				
Number of establishments	5	$8,215,195	6	Mo., 1; N. J., 2; N. Y., 1; Pa., 1.
Ounces	1,102		6,016	
Value	$24,404		$73,008	
Methyl:				
Number of establishments	3			N. Y., 1; Va., 1; Wis., 1.
Pounds	2,083,974		(4)	
Value	$688,927			
Other chlorides, value	[25] $4,966,871		(4)	
Chloroform:				
Number of establishments	4	3	5	Mich., 2; N. H., 1; N. Y., 1.
Pounds	1,799,437	1,770,169	3,081,920	
Value	$324,091	$292,085	$595,759	
Chromates and bichromates, total value	$5,229,894	$3,579,304	(3)	
Sodium:				
Number of establishments	6	6	8	Md., 1; Mo., 1; N. J., 3; Ohio, 1.
Tons	42,325	29,234	39,301	
Value	$4,762,728	$3,280,994	$5,137,346	
Potassium:				
Number of establishments	5			Md., 1; N. J., 2; N. Y., 1; Ohio, 1.
Pounds	4,491,316	$298,310	(4)	
Value	$359,366			
Other chromates and bichromates, value	$107,800			

Citral:				
Number of establishments	4	(26)	(4)	N. J., 3; N. Y., 1.
Pounds	11,340			
Value	$21,698			
Citrates, total value	$1,356,874	$1,463,963	(4)	
Iron-ammonium:				
Number of establishments	4	3	(4)	Mo., 1; N. J., 1; N. Y., 1; Pa. 1.
Pounds	304,902	132,192		
Value	$123,643	$51,399		
Potassium:				
Number of establishments	3	4	5	Mo., 1; N. J., 1; N. Y., 1.
Pounds	174,501	145,556	151,074	
Value	$65,761	$63,362	$80,701	
Iron:				
Number of establishments	3	$1,349,202	(4)	Mo., 1; N. J., 1; N. Y., 1.
Pounds	5,785			
Value	$4,223			
Other citrates, value	[27] $1,163,247			
Coal-tar products, total value [28]	$120,581,844	$107,272,733	$130,651,757	
Crudes [29]	$19,173,099	$16,984,752	$26,370,143	
Intermediates	$29,360,324	$21,443,027	$25,593,686	
Finished products [28]	$72,048,421	$68,844,954	$78,687,928	
Cyanides, total value	$4,429,529	$3,205,352	(4)	
Copper:				
Number of establishments	4	4	(4)	N. J., 2; N. Y., 1; Ohio, 1.
Pounds	473,492	551,590		
Value	$169,557	$209,117		
Silver:				
Number of establishments	5	[2] $2,996,235	(4)	Mo., 1; N. J., 2; N. Y., 1; Pa., 1.
Ounces	130,073			
Value	$77,899			
Other cyanides, value	[30] $4,182,073			
Ester gum:				
Number of establishments	17	(26)	(4)	Ala., 1; Calif., 1; Conn., 1; Ind., 1; Mass., 1; Mich., 1; Nebr., 1; N. J., 4; N. Y., 4; Pa., 2.
Pounds	21,372,890			
Value	$1,481,880			
Ether (ethyl):				
Number of establishments	7	7	6	Ind., 1; Md., 1; Mo., 1; N. J., 2; Pa., 1; W. Va., 1.
Pounds	7,915,299	7,421,283	6,463,552	
Value	$1,305,459	$1,384,694	$1,897,194	
Ferro-alloys, electric-furnace:				
Number of establishments	18	18	19	Ala., 1; Iowa, 1; Minn., 1; N. J., 1; N. Y., 5; Ohio, 2; Pa., 3; Tenn., 2; Va., 1; W. Va., 1.
Tons (2,240 pounds)	216,627	120,976	220,410	
Value	$23,489,764	$11,868,027	$28,655,447	
Fluorides, value	$1,969,219	(4)	(4)	

For footnotes, see end of table.

TABLE 3.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1935, 1933, AND 1929—Continued

[See note at head of table]

	1935	1933	1929	NUMBER OF ESTABLISHMENTS, BY STATES, 1935
Geraniol:				
Number of establishments	8	(26)	6	N. J., 4; N. Y., 4.
Pounds	111,096		94,743	
Value	$147,767		$244,650	
Glycerin, crude:				
Number of establishments	51	30	48	Calif., 9; Conn., 2; Ill., 3; Ind., 2; Iowa, 1; Md., 1; Mass., 3; Mo., 1; Nebr., 1; N. J., 8; N. Y., 6; Ohio, 7; Oreg., 1; Pa., 4; R. I., 1; Wash., 1.
Pounds	24,042,800	22,161,409	28,789,974	
Value	$2,366,481	$1,191,000	$2,358,031	
Glycerin, refined:				
Number of establishments	23	22	26	Calif., 2; Ill., 4; Ind., 2; Kans., 2; Md., 1; Mass., 2; Mo., 1; N. J., 2; N. Y., 3; Ohio, 3; Pa., 1.
Pounds	118,726,871	107,852,796	113,140,075	
Value	$12,973,082	$7,915,000	$12,715,641	
Glycerophosphates, value	$165,955	$120,960	(4)	
Hydroxides, total value	$30,295,190	$26,006,527	(3)	
Potassium (caustic):				
Number of establishments	4	4	3	Calif., 1; N. Y., 3.
Tons [9]	9,518	9,348	7,191	
Value	$1,260,031	$868,000	$637,977	
Sodium (caustic):				
Number of establishments	30	27	25	Calif., 3; Ill., 1; La., 2; Me., 2; Mich., 4; N. H., 1; N. J., 1; N. Y., 6; Ohio, 2; R. I., 1; Tex., 1; Va., 1; Wash., 2; W. Va., 2; Wis., 1.
Total production, tons [31]	759,381	686,983	761,792	
Made and consumed in same establishments, tons	39,171	42,252	37,118	
Made for sale:				
Tons	720,210	644,731	724,674	
Value	$28,134,175	$24,478,385	$36,089,264	
Production by process:				
Electrolytic:				
Number of establishments	22	21	20	Calif., 2; Ill., 1; Me., 2; Mich., 2; N. H., 1; N. J., 1; N. Y., 6; Ohio, 1; R. I., 1; Wash., 2; W. Va., 2; Wis. 1.
Total production, tons	322,401	247,620	236,807	
Made and consumed in same establishments, tons	34,881	39,114	(4)	
Made for sale:				
Tons	287,520	208,506	(4)	
Value	$11,263,248	$8,683,911	(4)	
Lime-soda:				
Number of establishments	11	9	6	Calif., 2; La., 2; Mich., 2; N. Y., 1; Ohio, 2; Tex., 1; Va. 1.
Total production, tons [32]	436,980	439,363	524,985	
Made and consumed in same establishments, tons	4,290	3,138	(4)	
Made for sale:				
Tons	432,690	436,225		
Value	$16,870,927	$15,794,474		
Other hydroxides, value	$900,984	$660,142		

Hypophosphites, value	$29,190	$119,640	(4)	
Iodides, total value	$745,324	$1,309,237	(3)	
Potassium:				
Number of establishments	7	8	7	Mo., 1; N. J., 3; N. Y., 3.
Pounds	433,489	479,079	443,557	
Value	$572,161	$1,108,316	$1,487,166	
Sodium:				
Number of establishments	5	5	6	Mo., 1; N. J., 1; N. Y., 3.
Pounds	38,024	36,775	49,796	
Value	$82,038	$116,401	$214,960	
Thymol:				
Number of establishments	3			Mo., 1; N. J., 1; N. Y., 1.
Pounds	6,615	$84,520	(4)	
Value	$21,935			
Other iodides, value	$69,190			
Iodine, resublimed:				
Number of establishments	6	6	7	Calif. 1; N. J., 2; N Y., 3.
Pounds	199,816	83,978	87,102	
Value	$238,357	$223,178	$412,444	
Lactates, value	$91,487	$112,761	(4)	
Linoleates, total value	$127,971	$40,991	(3)	
Cobalt:				
Number of establishments	4	3		N. J., 2; Ohio, 2.
Pounds	408,201	115,436	(4)	
Value	$95,155	$30,567		
Other linoleates, value	$32,816	$10,424	(4)	
Mercury, ammoniated:				
Number of establishments	6	5		Mo., 1; N. J., 3; N. Y., 2.
Pounds	60,269	57,475	(4)	
Value	$82,275	$76,296		
Mercury, redistilled:				
Number of establishments	5	5		N. J., 4; Pa., 1.
Pounds	74,817	51,380	(4)	
Value	$85,956	$56,672		
Modified sodas:				
Soda ash and caustic:				
Number of establishments			6	Mich., 2; N. Y., 2; N. C., 1; Ohio, 2; R. I., 1; Tex., 1.
Tons			9,935	
Value	9	7	$632,280	
Soda ash and bicarbonate:	29,103	21,873		
Number of establishments	$1,140,022	$775,805	7	
Tons			49,219	
Value			$1,150,783	
Nitrates, except sodium, total value [33]	$3,321,566	$2,359,216	(3)	
Bismuth, sub:				
Number of establishments	6	6	5	Mo., 1; N. J., 2; N. Y., 3.
Pounds	269,193	387,743	280,454	
Value	$360,303	$454,575	$465,982	

For footnotes, see end of table.

TABLE 3.—PRODUCTS BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1935, 1933, AND 1929—Continued

[See note at head of table]

	1935	1933	1929	NUMBER OF ESTABLISHMENTS, BY STATES, 1935
Nitrates—Continued.				
Silver (lunar caustic):				
Number of establishments	7	6	5	Mo., 1; N. J., 2; N. Y., 2; Ohio, 1; Pa., 1.
Ounces	5,194,507	4,145,648	5,646,749	
Value	$1,907,693	$1,071,810	$2,015,936	
Ammonium:				
Number of establishments	9	10	(4)	Ala., 1; Calif., 1; Ill., 1; Mo., 1; N. J., 3; Ohio, 1; Pa., 1.
Pounds	25,297,894	18,693,952		
Value	$673,704	$574,056		
Zinc:				
Number of establishments	3			Mo., 1; N. J., 1; Ohio, 1.
Pounds	12,502	$258,775	(4)	
Value	$2,594			
Other nitrates, except sodium, value	$377,272			
Oxalates, total value	$148,984	$90,189	(3)	
Iron:				
Number of establishments	3	3	(4)	Mo., 1; N. J., 1; N. Y., 1.
Pounds	7,869	5,266		
Value	$3,873	$4,106		
Other oxalates, value	$145,111	$86,083	(4)	
Oxides, total value	$8,770,428	$4,502,826	(3)	
Aluminum:				
Number of establishments	4	4	4	Ala., 1; Mass., 1; N. Y., 2.
Tons	22,035	7,664	33,246	
Value	$3,852,141	$1,525,141	$3,446,116	
Mercury:				
Number of establishments	4	4	(4)	Mo., 1; N. J., 2; N. Y., 1.
Pounds	119,813	119,028		
Value	$141,922	$146,577		
Tin:				
Number of establishments	7	5	(4)	Ind., 1; N. J., 3; Ohio, 2; Pa., 1.
Pounds	3,245,462	2,743,179		
Value	$1,685,692	$1,117,545		
Copper, cupric:				
Number of establishments	5		5	Ind., 1; N. J., 1; N. Y., 1; Ohio, 1; Pa., 1.
Pounds	1,169,875		825,280	
Value	$219,486		$170,778	
Chromium:				
Number of establishments	7	$1,713,563		N. J., 1; N. Y., 1; Ohio, 2; Pa., 3.
Pounds	3,480,585		(4)	
Value	$756,708			
Other oxides, value	[34] $2,114,479		(4)	
Peroxides, total value	$3,859,162	$2,965,752	(3)	

Hydrogen:				
Number of establishments	10	9	10	Calif., 2; Mo., 1; N. J., 2; N. Y., 5
Pounds (basis 100 volumes)	17,409,092	12,118,806	8,508,049	
Value	$3,154,593	$2,388,229	$2,371,781	
Other peroxides, value	[35] $704,569	$577,523	(4)	
Phosphates, total value	$14,189,574	$11,485,931	(3)	
Calcium:				
Monobasic:				
Number of establishments	10	9		Ala., 1; Ill., 2; Mo., 1; N. J., 2; R. I., 1; S. C., 1; Tenn., 1; Va., 1.
Tons	35,860	39,236		
Value	$4,665,301	$4,941,220		
Dibasic:				
Number of establishments	6		8	Ill., 1; La., 1; Mich., 1; Mo., 2; N. J., 1.
Tons	2,714	6	38,139	
Value	$208,035	3,010	$5,557,454	
Tribasic:		$390,779		
Number of establishments	5			Ill., 2; La., 1; Mo., 1; N. J., 1.
Tons	2,015			
Value	$242,249			
Sodium:				
Tribasic:				
Number of establishments	14	11	14	Ala., 1; Calif., 2; Del., 1; Ill., 2; Ind., 1; Mo., 1; N. J., 5; S. C., 1.
Tons	87,109	79,583	82,045	
Value	$3,861,952	$3,684,484	$5,008,815	
Dibasic:				
Number of establishments	12	14		Ala., 1; Del., 1; Ill., 2; Ind., 1; Md., 1; N. J., 5; S. C., 1.
Tons	35,444	38,354	14	
Value	$1,338,065	$1,396,037	64,134	
Monobasic and pyro:			$3,955,723	Ala., 1; Ill., 2; Mo., 2; N. J., 1.
Number of establishments	6	7		
Tons	4,517	2,521		
Value	$832,724	$539,918		
Meta:				
Number of establishments	4			Ala., 1; Ill., 2; Ind., 1.
Tons	5,147	(4)	(4)	
Value	$519,708			
Other phosphates, value	[36] $2,521,540	$533,493	(4)	
Plastics, total value	$44,035,686	[2] $24,904,782	$39,734,426	
Nitrocellulose (pyroxylin):				
Number of establishments	13	12	10	Conn., 1; Mass., 5; N. J., 5; N. Y., 2.
Total production, not including finished articles, pounds	16,299,519	12,945,556	21,847,427	
Made and consumed in same establishments, pounds	2,958,859	2,849,523	4,856,625	
Produced for sale:				
Pounds	13,340,660	10,096,033	16,990,802	
Value	$10,682,358	$7,799,283	$17,266,323	
Finished articles of nitrocellulose (pyroxylin) made in producing establishments in "Chemicals not Elsewhere Classified" industry, value [37]	$5,116,420	[2] $5,020,356	$10,522,214	

For footnotes, see end of table.

TABLE 3.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1935, 1933, AND 1929—Continued

[See note at head of table]

	1935	1933	1929	NUMBER OF ESTABLISHMENTS, BY STATES, 1935
Plastics—Continued.				
Cellulose acetate:				
Number of establishments	6	5		Conn., 1; Mass., 1; N. J., 3; N. Y., 1.
Pounds	10,395,290	[2] 2,874,819		
Value	$7,986,489	[2] $2,245,543		
Coal-tar resins:				
Total pounds	[38] 87,718,953	41,556,515		
Total value	[38] $15,672,401	$7,508,587		
Derived from—				
Phenol and/or cresol:				
Number of establishments	20			Conn., 1; Mass., 2; Mich., 1; N. J., 8; N. Y., 4; Oreg., 1; Pa., 3.
Pounds	52,326,946		$11,945,889	
Value	$9,929,904			
Phthalic anhydride:				
Number of establishments	10			Ill., 1; Mass., 1; Mich., 1; Mo., 1; N. J., 1; N. Y., 2; Pa., 2; Wis., 1.
Pounds	17,900,745	(10)		
Value	$2,946,897			
Other coal-tar resins:				
Number of establishments	7			Conn., 1; Mo., 1; N. J., 2; Pa., 3.
Pounds	17,491,262			
Value	$2,795,600			
Other plastics and synthetic resins, including synthetic rubber, value	$4,578,018	$2,331,013		
Resinates, total value	$171,994	$71,840	(3)	
Cobalt:				
Number of establishments	4			N. J., 1; Ohio, 2; Pa., 1.
Pounds	203,108			
Value	$37,746			
Manganese:		$71,840	(4)	
Number of establishments	4			N. J., 1; Ohio, 1; Pa., 2.
Pounds	599,299			
Value	$60,092			
Other resinates, value	$74,156			
Salicylates, total value	$200,805	$135,841	(3)	
Magnesium:				
Number of establishments	3	3		Mich., 1; Mo., 1; N. J., 1.
Pounds	4,420	3,602	(4)	
Value	$4,866	$3,432		
Other salicylates, value	$195,939	$132,409		
Sodium aluminate:				
Number of establishments	6			Ark., 1; Ill., 2; Mass., 1; N. J., 1; Pa., 1.
Tons	6,770	(39)	(4)	
Value	$417,728			

Sodium antimonate:				
Number of establishments	3	(39)	(4)	N. J., 1; Ohio, 1; Pa., 1.
Pounds	4,100,543			
Value	$441,191			
Sodium benzoate:				
Number of establishments	5	6	5	Ill., 1; Mo., 1; N. J., 2; N. Y., 1.
Pounds	1,354,893	1,113,449	868,141	
Value	$391,332	$292,837	$349,318	
Sodium borate (borax):				
Number of establishments	4	[2] 5	8	Calif., 4.
Tons	106,131	93,813	92,250	
Value	$3,693,129	$3,163,335	$3,279,640	
Sodium hypochlorite:				
Number of establishments	53	18	20	Calif., 6; Conn., 2; Ill., 4; Iowa, 1; Maine, 2; Md., 2; Mass., 4; Mich., 3; Minn., 3; Mo., 1; N. H., 1; N. J., 6; N. Y., 7; Ohio, 2; Pa., 5; R. I., 1; Wash., 2; Wis., 1.
Tons [40]	50,807	32,468	26,772	
Value	$4,304,921	$2,073,133	$2,015,817	
Sodium silicate:				
Liquid:				
Number of establishments	24			Calif., 3; Ill., 3; Ind., 3; Kans., 1; Md., 1; Mass., 1; Mich., 1; Mo., 1; N. J., 4; N. Y., 2; Ohio, 2; Pa., 1; Wis., 1.
Tons (basis 40°)	577,587			
Value	$6,607,204	28	23	
		630,367	590,277	
Solid:		$6,582,613	$7,179,397	
Number of establishments	13			Calif., 2; Ga., 1; Ill., 1; Ind., 1; Kans., 1; La., 1; Mo., 1; N. J., 1; N. Y., 1; Ohio, 1; Pa., 1; Wash., 1.
Tons	30,536			
Value	$1,066,387			
Sodium silicofluoride:				
Number of establishments	11	8	7	Fla., 1; Ill., 1; Ind., 1; Md., 2; Mass., 1; Mont., 1; N. J., 3; Tenn., 1.
Tons	2,628	1,411	2,278	
Value	$202,677	$131,945	$228,093	
Stearates, total value	$1,108,726	$351,954	(3)	
Aluminum:				
Number of establishments	12	5	6	Calif., 1; Ill., 1; Ky., 1; Mo., 1; N. J., 2; N. Y., 2; Ohio, 2; Pa., 1; Wis., 1.
Tons	1,896	681	1,066	
Value	$633,274	$227,466	$440,180	
Calcium:				
Number of establishments	8	3	(4)	Calif., 1; Ill., 1; Mo., 1; N. J., 1; N. Y., 2; Ohio, 1; Pa., 1.
Pounds	491,673	99,809		
Value	$90,582	$16,442		
Zinc:				
Number of establishments	10	$108,046	6	Calif., 1; Ill., 1; Mo., 1; N. J., 3; N. Y., 2; Ohio, 1; Pa., 1.
Pounds	1,718,979		1,454,797	
Value	$322,500		$320,203	
Other stearates, value	$62,370		(4)	

For footnotes, see end of table.

TABLE 3.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1935, 1933, AND 1929—Continued

[See note at head of table]

	1935	1933	1929	NUMBER OF ESTABLISHMENTS, BY STATES, 1935
Sulphates, total value	$21,497,368	$16,825,816	(3)	
Aluminum (concentrated alum):				
Number of establishments	22	24	27	Calif., 2; Conn., 1; Del., 1; Ga. 1; Ill., 3; La., 2; Mass., 1; N. J., 2; Ohio, 3; Pa., 5; Tenn., 1.
Tons	348,030	322,478	344,962	
Value	$7,748,490	$6,600,000	$8,038,730	
Aluminum-ammonium (ammonia alum):				
Number of establishments	7	7	6	Del., 1; Ga., 1; Ill., 1; Mass., 1; Ohio, 1; Pa., 2.
Tons	5,188	4,022	5,720	
Value	$259,292	$198,810	$286,772	
Barium (blanc fixé):				
Number of establishments	11	8	12	Calif., 1; Ga., 1; Mo., 1; N. J., 3; N. Y., 2; Ohio, 1; R. I., 1; W. Va., 1.
Pounds	7,809,136	8,676,391	26,049,893	
Value	$235,832	$261,035	$958,446	
Copper (blue vitriol):				
Number of establishments	15	14	13	Calif., 3; Idaho, 1; Ill., 2; Ind., 1; Mont., 1; N. J., 2; N. Y., 2; Pa., 1; Tenn., 1; Tex., 1.
Pounds	54,759,439	56,070,199	78,669,112	
Value	$2,002,099	$1,407,631	$4,344,538	
Iron (copperas):				
Number of establishments	23	23	28	Ala., 2; Calif., 1; Conn., 1; Ill., 3; Ind., 2; Mo., 2; N. J., 3; N. Y., 2; Ohio, 3; Pa., 4.
Tons	31,852	27,860	56,047	
Value	$311,516	$252,575	$553,604	
Magnesium (Epsom salt):				
Number of establishments	5	8	8	Calif., 1; Md., 1; Mich., 1; N. J., 1; Okla., 1.
Tons	38,489	37,364	36,983	
Value	$1,116,533	$1,234,342	$1,404,978	
Manganese:				
Number of establishments	4	5	(3)	Ga., 1; Ill., 1; Mo., 1; Tenn., 1.
Pounds [41]	6,211,704	2,620,045		
Value	$190,620	$74,242		
Potash and chrome alums:				
Number of establishments	5	5	7	Del., 1; Ill., 1; Mo., 1; N. J., 1; Pa., 1.
Tons	2,666	1,951	3,447	
Value	$156,684	$110,392	$214,646	
Sodium, total value	$4,262,546	(3)	(3)	
Anhydrous (refined):				
Number of establishments	8	(42)	(4)	Calif., 1; Ind., 1; Mass., 1; N. J., 3; Pa., 2.
Tons	[42] 23,609			
Value	[42] $457,890			

Glauber's salt:				
Number of establishments	19	19	20	Calif., 3; Conn., 1; Del., 1; Ill., 1; Ind., 1; Md., 1; Mass., 2; N. J., 5; Ohio, 1; Pa., 2; Wyo., 1.
Tons	[44] 39,961	39,804	61,953	
Value	[44] $542,251	$586,057	$1,112,267	
Hyposulphite (thiosulphate):				
Number of establishments	8	8	7	Calif., 1; Del., 1; Ind., 1; N. H., 1; N. J., 2; Pa., 2.
Tons	24,477	18,211	25,020	
Value	$1,054,264	$763,476	$906,369	
Niter cake:				
Number of establishments	20	20	46	Calif., 1; Colo., 1; Conn., 2; Del., 1; Ill., 2; Mass., 1; Mich., 1; Mo., 1; N. J., 2; Ohio, 3; Pa., 3; Tenn., 1; Tex., 1.
Total production, tons	28,252	30,558	111,522	
Made and consumed in same establishments, tons	9,438	13,546	28,839	
Made for sale:				
Number of establishments	17	18	41	
Tons	18,814	17,012	82,683	
Value	$343,890	$352,512	$1,023,136	
Salt cake (crude):				
Number of establishments	27	30	28	Calif., 2; Conn., 1; Del., 1; Ill., 4; Ind., 1; La., 1; Md., 1; Mass., 1; Mich., 1; N. J., 5; N. Y., 1; Ohio, 3; Pa., 3; Tex., 2.
Total production, tons	192,384	143,148	206,612	
Made and consumed in same establishments, tons	22,542	28,538	36,436	
Made for sale:				
Tons	[45] 169,842	114,610	170,176	
Value	[45] $1,864,251	$1,471,278	$2,014,838	
Sodium-aluminum (soda alum):				
Number of establishments	3	3	3	Ill., 3.
Tons	18,217	18,941	14,947	
Value	$1,040,580	$1,019,849	$848,299	
Zinc:				
Number of establishments	10	8	7	Calif., 1; Kans., 1; Mo., 1; N. J., 1; Ohio, 2; Pa., 1; Va., 3.
Pounds	37,465,865	29,796,852	24,903,841	
Value	$721,025	$512,103	$698,092	
Ammonium:				
Number of establishments	18		10	Calif., 2; Ill., 2; Ind., 2; Ky., 1; Mass., 1; Mich., 1; Mo., 1; N. J., 1; N. Y., 3; Ohio, 1; Pa., 1; Tex., 1; Va., 1.
Pounds	192,458,668	$1,981,514	11,852,867	
Value	$2,073,258		$240,391	
Other sulphates, value	[46] $1,378,893		(4)	
Sulphides, total value	$2,112,475	$1,870,209	(3)	
Sodium:				
Number of establishments	13	11	18	Calif., 1; Del., 1; Ill., 1; Mass., 1; Mich., 1; Mo., 2; N. J., 2; N. Y., 1; N. C., 1; Pa., 1; W. Va., 1.
Tons [47]	24,884	30,732	33,032	
Value	$1,390,001	$1,353,886	$1,406,606	
Ammonium:				
Number of establishments	5			
Pounds (basis 100 percent)	842,248	$516,323	(4)	Ga., 1; Mo., 1; N. Y., 1; Ohio, 1; W. Va., 1.
Value	$85,730			
Other sulphides, value	$636,744			

For footnotes, see end of table.

TABLE 3.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1935, 1933, AND 1929—Continued

[See note at head of table]

	1935	1933	1929	NUMBER OF ESTABLISHMENTS, BY STATES, 1935
Sulphites, total value	$3,752,458	$3,003,088	(3)	
Sodium, normal: [48]				
Number of establishments	7	7	6	Calif., 1; Ill., 1; Md., 1; Mo., 1; N. J., 3.
Tons	6,840	3,371	5,970	
Value	$473,991	$266,339	$462,072	
Sodium, formaldehyde, and zinc-hydro:				
Number of establishments	7	6		
Pounds	15,076,836	12,482,486	(4)	N. J., 4; N. Y., 1; Pa., 1; R. I., 1.
Value	$2,650,638	$2,305,059		
Other sulphites, value	$627,829	$431,690		
Sulphur, refined:				
Number of establishments	9	13	14	Calif., 3; Mass., 1; N. Y., 3; Tex., 2.
Tons	47,504	48,663	78,119	
Value	$1,649,758	$1,736,064	$3,066,002	
Tartrates, total value	$867,883	$1,089,214	(3)	
Potassium, bi- (cream of tartar):				
Number of establishments	4	3	7	Calif., 1; Mass., 1; N. Y., 2.
Pounds	3,855,022	5,789,150	7,852,559	
Value	$641,971	$890,818	$1,930,577	
Other tartrates, value	[49] $225,912	$198,396	(4)	
Vanillin:				
Number of establishments	6	4		
Pounds	236,896	195,600	(4)	Mo., 1; N. J., 5.
Value	$684,723	$776,553		
Vitreous enamels ("frit"):				
Number of establishments	11	9	11	Calif., 1; Ill., 2; Ind., 1; Md., 1; N. J., 1; N. Y., 1; Ohio, 1; Pa., 3.
Pounds	73,397,433	39,852,992	(4)	
Value	$4,399,947	$2,586,714	$4,512,183	
Other inorganic chemicals, value	[50] $59,306,050	$45,956,627	(4)	
Other organic chemicals, value	[51] $45,860,328	$34,514,424	(4)	

[1] An abridged questionnaire, which did not provide for reporting production in detail, was used in the census for 1933 for canvassing the smaller establishments.
[2] Revised.
[3] Data incomplete.
[4] Not available.
[5] Production in 1935, basis 20 percent. For other years, as reported, regardless of strength.
[6] Production in 1935, basis 80 percent. For other years, as reported, regardless of strength.
[7] Withheld to avoid disclosing approximations of data reported by individual establishments. Value included in that of "Other organic chemicals" (p. 638).
[8] Synthetic, natural dilute, and glacial.
[9] For 1935, 100 percent, except for copper carbonate; for copper carbonate, 52 percent metallic content. For earlier years, as reported, regardless of strength.

[10] No data.
[11] No comparable data.
[12] For 1935, basis 50 percent H_3PO_4. For 1933 and 1929, basis 50 percent, in part P_2O_5 and in part H_3PO_4.
[13] Data for production by establishments classified in Lead Smelting and Refining and Copper Smelting industries included in figures for 1935 and 1929 but not in those for 1933.
[14] Data incomplete. See footnote 13.
[15] Includes, in order of value, data for hydrocyanic, acetic anhydride, formic, and molybdic acids, etc.
[16] In addition, 3,648,180 gallons of refined natural methanol, valued at $1,148,548, was produced for sale in the Wood Distillation and Charcoal Manufacture industry.
[17] The production of ethyl alcohol, as reported to the Bureau of Internal Revenue, Treasury Department, was 193,218,597 proof gallons in 1935 and 138,600,000 proof gallons in 1933.
[18] Includes production from ammonia liquor. Such production in 1935 amounted to 2,990,685 pounds, valued at $388,699. Not reported separately for earlier years.
[19] Figures for 1935, but not for earlier years, include data for ammonia produced in Manufactured Gas industry. For production in Coke industry, see Bureau of Mines report, "Coke and By-Products," in Minerals Yearbook, 1936 and earlier years.
[20] Includes two establishments that reported no soda ash made for sale.
[21] Electrolytic production was for interplant transfer and not for sale.
[22] Natural process only.
[23] Production in 1935 and 1933, basis 35 to 37 percent. For 1929, as reported, regardless of strength.
[24] Data for calcium chloride made by establishments engaged primarily in production of salt included for 1933 and 1929 but not for 1935. Such production in 1935, reported by 8 establishments, amounted to 8,044 tons, valued at $50,442.
[25] Includes, in order of value, data for potassium chloride, zinc chloride, ethylene dichloride, barium chloride, ethyl chlorides, etc.
[26] Data incomplete. Value included in that of "Other organic chemicals" (p. 638).
[27] Includes, in order of value, data for sodium citrate and calcium citrate.
[28] Figures for 1935 do not include data for color lakes, statistics for which are given in report for Paints, Pigments, and Varnishes, nor for certain other coal-tar chemicals, figures for which will be found elsewhere in this table. Data for these classes of products are included in the figures for 1933 and 1929. See also Tariff Commission report No. 115, entitled "Dyes and Other Synthetic Organic Chemicals in the United States, 1935."
[29] Not including by-product crudes made in coke plants and gas works.
[30] Includes, in order of value, data for sodium cyanide, sodium ferrocyanide, potassium ferrocyanide and ferricyanide, etc.
[31] Not including sodium hydroxide made and consumed in establishments classified in Wood-Pulp and Textile industries.
[32] Includes output of 2 establishments that produced caustic from natural soda ash.
[33] Data for sodium nitrate withheld to avoid disclosing an approximation of the output of an individual establishment. Value included in that of "Other inorganic chemicals" (p. 638).
[34] Includes, in order of value, data for titanium dioxide, antimony oxide, arsenic oxide, etc.
[35] Includes, in order of value, data for sodium peroxide, barium peroxide, etc.
[36] Includes value of ammonium phosphate, etc.
[37] In addition, nitrocellulose articles are made from purchased nitrocellulose plastics by establishments in certain other industries, including "Synthetic-Resin, Cellulose-Plastic, Vulcanized-Fiber, and Molded and Pressed Pulp Fabricated Articles, not Elsewhere Classified," "Brushes, Other Than Rubber," "Combs," and "Fountain Pens."
[38] Includes data for an indeterminable amount of materials used as fillers, such as wood flour, etc. See also Tariff Commission report No. 115, entitled "Dyes and Other Synthetic Organic Chemicals in the United States, 1935."
[39] Withheld to avoid disclosing approximations of data reported by individual establishments. Value included in that of "Other inorganic chemicals" (p. 638).
[40] Production in 1935, basis 15 percent. For other years, as reported, regardless of strength.
[41] Production in 1935, basis 100 percent. For 1933, as reported, regardless of strength.
[42] Includes data for anhydrous sodium sulphate made from brine.
[43] Withheld to avoid disclosing approximations of data for individual establishments. Value included in that of "Other sulphates" (p. 637).
[44] Includes data for Glauber's salt refined from natural product.
[45] Includes data for natural salt cake made from brines.
[46] Includes, in order of value, data for lead sulphate, nickel sulphate, satin white, chromium sulphate, etc.
[47] Production in 1935, basis 60 to 62 percent. For other years, as reported, regardless of strength.
[48] Anhydrous and crystal.
[49] Includes, in order of value, data for Rochelle salts, tartar emetic, etc.
[50] Includes, in order of value, data for aluminum metal, sodium nitrate, calcium molybdate, sodium metal, silicon carbide, sodium perborate, calcium hypochlorite (true), sodium nitrite, etc.
[51] Includes, in order of value, data for tetraethyl lead, nitrocellulose (not plastic), ethylene glycol, formaldehyde, trichlorethylene, synthetic camphor, etc.

TABLE 4.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year[1]	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States													
1935	65,852	62,908	63,652	64,848	65,191	65,701	66,031	65,396	65,979	66,421	67,742	68,151	68,209
1933	53,190	(*)	(*)	44,154	(*)	(*)	49,698	(*)	(*)	62,299	(*)	(*)	62,412
States, 1935													
Alabama	783	762	750	745	828	833	806	743	730	782	818	793	806
California	3,151	3,049	3,136	3,234	3,184	3,187	3,273	3,208	3,150	3,109	3,086	3,125	3,065
Colorado	55	52	52	52	43	44	45	52	62	61	62	68	63
Connecticut	673	625	626	667	674	677	685	612	673	673	707	731	721
Illinois	3,648	3,701	3,628	3,715	3,702	3,727	3,710	3,598	3,598	3,552	3,601	3,616	3,625
Indiana	1,229	887	1,146	1,162	1,170	1,226	1,251	1,252	1,304	1,343	1,360	1,331	1,312
Iowa	327	308	270	284	340	313	357	373	293	311	331	379	365
Louisiana	780	545	759	669	623	891	982	908	819	808	830	751	779
Maine	15	12	14	14	15	16	16	16	17	16	15	14	14
Maryland	1,156	1,073	1,093	1,090	1,128	1,143	1,178	1,133	1,168	1,174	1,212	1,237	1,239
Massachusetts	2,614	2,575	2,589	2,590	2,541	2,558	2,460	2,297	2,587	2,698	2,816	2,792	2,859
Michigan	5,794	5,776	5,554	5,529	5,626	5,729	5,840	5,958	5,967	5,897	5,893	5,943	5,821
Minnesota	88	54	53	61	133	136	128	114	129	75	58	56	62
Missouri	1,163	1,142	1,153	1,150	1,169	1,166	1,156	1,104	1,125	1,168	1,195	1,217	1,215
New Hampshire	147	145	145	142	143	144	148	147	147	150	151	151	151
New Jersey	14,516	13,731	14,023	14,123	14,265	14,286	14,311	14,562	14,717	14,741	15,013	15,231	15,188
New York	9,993	9,519	9,678	9,995	9,976	9,968	10,025	10,018	10,062	10,088	10,121	10,142	10,323
Ohio	4,734	4,638	4,680	4,707	4,742	4,723	4,741	4,596	4,809	4,800	4,811	4,770	4,792
Pennsylvania	3,931	3,870	3,847	3,914	3,960	3,972	3,927	3,859	3,799	3,855	4,153	4,127	3,891
Rhode Island	247	248	246	244	251	249	247	246	243	243	244	250	247
Tennessee	2,053	1,933	1,959	2,021	2,046	2,066	2,027	2,064	1,921	1,991	2,093	2,208	2,303
Texas	554	600	576	579	594	555	549	542	558	539	517	515	525
Virginia	2,290	2,070	2,170	2,513	2,332	2,312	2,261	2,194	2,278	2,330	2,330	2,330	2,361
Washington	156	154	147	156	173	169	166	156	144	151	152	150	148
West Virginia	3,473	3,254	3,215	3,352	3,386	3,433	3,443	3,391	3,385	3,558	3,795	3,766	3,699
Wisconsin	546	496	545	555	539	526	520	533	549	558	564	572	592

* Data incomplete. See last sentence, second paragraph, sec. 11, p. 7.

[1] As the averages for 1935 given in this table are derived from the figures for the 12 months in the calendar year, some of them differ from the corresponding averages in table 2, which are derived in part from figures for months in fiscal years differing from the calendar year. See sec. 11, p. 7.

CLEANING AND POLISHING PREPARATIONS

[A preliminary report for this industry was issued January 21, 1937]

Description of the industry.—This industry, as constituted for Manufactures Census purposes, embraces establishments engaged primarily in the manufacture of cleansers, washing powders, and washing compounds containing no soap; dry-cleaning preparations; metal, automobile, and other polishes; and paint and varnish removers. (Cleansers, washing powders, and washing compounds containing soap are made to some extent as secondary products by these establishments, but are manufactured principally by establishments classified in the Soap industry. See footnote 4, table 4.)

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (−)	
					1933–1935	1929–1935
Number of establishments	395	327	388	429	20.8	−7.9
Proprietors and firm members	137	100	(1)	168	37.0	−18.5
Salaried personnel, total [2]	1,609	(3)	(1)	1,624	(3)	−0.9
Salaried officers of corporations	402	(3)	(1)	390	(3)	3.1
Supervisory, technical, and clerical employees	[4] 1,207	[5] 1,202	(1)	1,234	0.4	−2.2
Salaries, paid, total [2]	$3,757,582	(3)	(1)	$4,349,271	(3)	−13.6
To salaried officers of corporations	$1,835,861	(3)	(1)	$2,090,370	(3)	−12.2
To supervisory, technical, and clerical employees	[4] $1,921,721	[5] $1,960,145	(1)	$2,258,901	−2.0	−14.9
Wage earners (average for year) [6]	2,824	2,755	2,449	2,713	2.5	4.1
Wages	$3,032,976	$2,721,985	$2,969,048	$3,356,161	11.4	−9.6
Cost of materials, etc., total	17,282,575	14,752,539	16,979,010	19,399,041	17.1	−10.9
Cost of materials, supplies, and containers	16,967,005	(1)	(1)	19,044,274	(1)	−10.9
Cost of fuel	134,973	(1)	(1)	170,998	(1)	−21.1
Cost of purchased electric energy	180,597	(1)	(1)	183,769	(1)	−1.7
Value of products	42,406,982	41,048,318	48,007,349	50,779,632	3.3	−16.5
Value added by manufacture [7]	25,124,407	26,295,779	31,028,339	31,380,591	−4.5	−19.9

[1] No data.
[2] No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.
[3] Data incomplete.
[4] Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 174; salaries, $618,225. Technical, 81; salaries, $207,746. Clerical, 952; salaries, $1,095,750. See sec. 10, p. 7.
[5] Supervisory, 221; salaries, $698,007. Clerical and other, 981; salaries, $1,262,138. See sec. 10, p. 7.
[6] See sec. 11, p. 7.
[7] Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, containers, fuel, and purchased energy	Value of products	Value added by manufacture
United States	395	1,609	2,824	$3,757,582	$3,032,976	$17,282,575	$42,406,982	$25,124,407
California	24	52	60	118,322	60,340	383,256	894,130	510,874
Colorado	5	7	6	12,454	5,576	19,109	129,680	110,571
Connecticut	13	45	164	137,866	200,322	774,163	1,457,585	683,422
Florida	3	3	6	3,965	5,194	22,334	43,911	21,577
Georgia	3	9	9	16,416	7,603	95,279	175,922	80,643
Illinois	52	135	373	430,717	361,155	1,903,540	4,951,396	3,047,856
Indiana	6	53	23	71,153	25,000	131,602	407,106	275,504
Iowa	10	21	26	43,549	29,344	107,546	300,018	192,472
Louisiana	3	5	6	9,130	3,709	11,597	38,420	26,823
Maryland	11	36	39	77,756	38,259	212,139	602,919	390,780
Massachusetts	23	51	60	106,299	62,872	246,237	650,902	404,665
Michigan	22	97	322	255,909	404,672	2,604,543	4,696,685	2,092,142
Minnesota	4	10	7	17,149	5,164	47,275	117,657	70,382
Missouri	26	96	116	221,631	111,459	790,825	2,203,829	1,413,004
New Jersey	25	91	136	197,329	137,682	851,582	1,880,103	1,028,521
New York	66	370	782	807,467	808,519	3,840,984	9,690,978	5,849,994
Ohio	37	166	323	537,626	326,559	2,823,148	6,967,761	4,144,613
Pennsylvania	28	94	143	200,017	139,645	942,448	2,265,052	1,322,604
Other States [1]	34	268	222	492,827	299,902	1,474,968	4,932,928	3,457,960

[1] Alabama, 1 establishment; Arkansas, 1; District of Columbia, 1; Kansas, 1; Kentucky, 1; Maine, 2; Nebraska, 2; New Hampshire, 4; North Carolina, 1; Oregon, 2; Rhode Island, 2; South Carolina, 2; South Dakota, 1; Tennessee, 1; Texas, 1; Vermont, 1; Wisconsin, 10.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States													
1935	2,824	2,691	2,800	2,973	2,942	2,907	2,917	2,767	2,735	2,798	2,808	2,825	2,727
1933	2,755	(*)	(*)	2,581	(*)	(*)	2,695	(*)	(*)	2,986	(*)	(*)	2,776
States, 1935													
California	60	57	59	59	60	62	63	64	61	57	58	61	59
Colorado	6	6	6	6	6	6	7	7	7	7	6	6	6
Connecticut	164	162	162	162	162	163	163	163	165	165	168	168	166
Florida	6	6	6	6	6	6	6	6	6	6	6	6	6
Georgia	9	9	9	9	9	9	10	10	10	9	9	9	9
Illinois	373	360	352	374	377	383	386	371	363	349	381	396	382
Indiana	23	22	23	24	26	23	23	22	23	24	21	23	24
Iowa	26	25	26	28	27	27	25	27	26	25	26	25	25
Louisiana	6	5	6	7	7	5	5	5	6	7	8	8	8
Maryland	39	37	38	39	40	42	42	39	38	41	39	39	36
Massachusetts	60	61	60	58	62	61	57	58	58	59	60	66	63
Michigan	322	300	309	377	314	333	333	322	318	316	311	319	313
Minnesota	7	7	7	7	7	6	5	6	8	9	9	7	7
Missouri	116	114	118	120	133	120	105	103	115	124	119	111	109
New Hampshire	16	16	16	16	16	16	16	16	16	16	16	16	16
New Jersey	136	112	135	125	127	130	136	132	131	137	150	165	147
New York	782	715	765	791	799	820	882	793	747	797	777	762	739
Ohio	323	338	363	401	391	339	300	276	280	293	291	310	294
Pennsylvania	143	141	140	161	166	152	148	140	148	143	143	118	110
Wisconsin	163	157	160	160	165	161	162	163	166	167	165	164	163

* Data incomplete. See last sentence, second paragraph, sec. 11, p. 7.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE: 1935, 1931, AND 1929

[No comparable figures available for 1933. See sec. 4, p. 3]

	1935	1931	1929
1. Cleaning and Polishing Preparations industry, all products, total value	$42,406,982	$48,007,349	$50,779,632
2. Cleaning and polishing preparations	34,658,174	[1] 44,953,566	[1] 46,969,447
3. Other products (not normally belonging to the industry)	7,748,808	[1] 3,053,783	[1] 3,810,185
4. Cleaning and polishing preparations made as secondary products in other industries, value [2]	7,232,210	10,553,857	14,463,971
Cleaning and polishing preparations, aggregate value (sum of 2 and 4) [2]	$41,890,384	$55,507,423	$61,433,418
Cleaning preparations, total value [2]	$24,058,109	$37,851,148	$43,525,055
Containing no soap, total value	$17,787,653	$25,785,562	
Cleansers, scouring powders, and washing compounds, reported as such:			
Packaged:			
Pounds	52,722,584		
Value	$4,169,467		
Bulk, value	$6,902,839		
Cleansers and scouring compounds in bar form:			
Pounds	434,688		
Value	$139,284		
Dry-cleaning preparations, total value	$1,570,963		
Quantity reported:		(3)	(3)
Gallons	916,058		
Value	$980,115		
Quantity not reported, value	$590,848		
Cleaning preparations containing no soap, not reported by kind, value	$5,005,100		
Containing soap, value [4]	$5,525,925	$9,392,428	
Cleaning preparations not reported by kind or by soap content, value	$744,531	$2,673,158	
Polishing preparations, total value	$15,817,740	$15,840,683	$17,908,363
Metal polish	$1,950,268	$2,719,657	$4,071,094
Automobile-body polish	$2,544,763	$2,772,403	
Floor wax (liquid and paste)	$6,402,725	$4,999,877	$13,837,269
Other polishing preparations (furniture, floor, etc.)	$4,919,984	$5,348,746	
Paint and varnish removers:			
Gallons	1,858,016	(5)	(5)
Value	$2,014,535	$1,815,592	(5)

[1] Because of the fact that the questionnaires for 1931 and 1929 did not provide for as much detail in reporting certain classes of products as did that for 1935, the figures to which this note is indexed are not comparable with the corresponding ones for 1935.

[2] Not including value of cleaning preparations containing soap, made by establishments classified in the Soap industry. See footnote 4.

[3] Not reported separately.

[4] Value of production in Cleaning and Polishing Preparations industry only. Cleaning preparations containing soap are made principally in the Soap industry. The total production, in 1935, in all industries in which such preparations were made is given below. No comparable figures are available for earlier years.

	Pounds	Value
Total		$13,685,514
Cleansers, scouring powders, and washing compounds containing soap:		
Packaged	253,071,667	8,988,830
Bulk	51,630,678	2,332,258
Cleansers and scouring compounds in bar form	10,331,776	514,349
Cleaning preparations (containing soap) not reported by kind or by quantity		1,850,077

[5] No data.

[6] Data incomplete.

6 10

COMPRESSED AND LIQUEFIED GASES

[A preliminary report for this industry was issued Mar. 9, 1937]

Description of the industry.—This industry, as constituted for Manufactures Census purposes, embraces establishments engaged primarily in the production of gases sold usually in compressed and liquefied forms but in some cases (as carbon dioxide for the manufacture of "dry ice" and hydrogen for the manufacture of ammonia and other commodities) delivered through pipes. "Dry ice" also is treated as a product of this industry.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (—)	
					1933–1935	1929–1935
Number of establishments	330	326	349	354	1.2	—6.8
Proprietors and firm members	1	2	(1)	3	(*)	(*)
Salaried personnel, total [2]	1,903	(3)	(1)	3,056	(3)	—37.7
Salaried officers of corporations	84	(3)	(1)	90	(3)	(*)
Supervisory, technical, and clerical employees	[4] 1,819	[5] 1,430	(1)	2,966	27.2	—38.7
Salaries paid, total [2]	$3,748,860	(3)	(1)	$5,662,732	(3)	—33.8
To salaried officers of corporations	$537,126	(3)	(1)	$569,428	(3)	—5.7
To supervisory, technical, and clerical employees	[4] $3,211,734	[5] $2,418,661	(1)	$5,093,304	32.8	—36.9
Wage earners (average for year) [6]	3,788	2,763	2,844	3,390	37.1	11.7
Wages	$4,408,205	$3,154,300	$3,895,612	$5,378,211	39.8	—18.0
Cost of materials, etc., total	11,239,281	8,585,707	10,134,507	14,528,603	30.9	—22.6
Cost of materials, supplies, and containers [7]	8,629,673	(1)	(1)	10,971,158	(1)	—21.3
Cost of fuel	371,884	(1)	(1)	681,156	(1)	—45.4
Cost of purchased electric energy	2,237,724	(1)	(1)	2,876,289	(1)	—22.2
Value of products	42,018,950	32,007,108	41,806,112	52,189,779	31.3	—19.5
Value added by manufacture [8]	30,779,669	23,421,401	31,671,605	37,661,176	31.4	—18.3

* Percent not computed where base is less than 100.

[1] No data.

[2] No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

[3] Data incomplete.

[4] Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 487; salaries, $1,524,103. Technical, 34; salaries $103,849. Clerical, 1,298; salaries, $1,583,782. See sec. 10, p. 7.

[5] Supervisory, 445; salaries, $1,252,544. Clerical and other, 985; salaries, $1,166,117. See sec. 10, p. 7.

[6] See sec. 11, p. 7.

[7] Includes cost of replacing returnable containers.

[8] Value of products less cost of materials, supplies, containers, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 8, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, etc., fuel, and purchased energy	Value of products	Value added by manufacture
United States	330	1,903	3,788	$3,748,860	$4,408,205	$11,239,281	$42,018,950	$30,779,669
Alabama	6	25	47	52,083	45,296	136,668	520,463	383,795
California	26	138	220	302,029	286,346	910,177	2,980,974	2,070,797
Colorado	6	15	58	41,912	58,781	127,113	413,163	286,050
Florida	5	13	30	20,658	26,310	81,530	300,611	219,081
Georgia	7	31	67	66,588	54,086	173,605	573,503	399,898
Illinois	16	118	206	190,179	277,515	564,888	2,768,909	2,204,021
Indiana	10	47	122	123,723	144,779	460,773	1,614,719	1,153,946
Louisiana	10	54	75	95,994	73,348	222,150	808,417	586,267
Maryland	5	13	65	31,171	76,018	216,851	715,067	498,216
Massachusetts	9	71	139	130,001	169,355	422,102	1,586,315	1,164,213
Michigan	16	83	234	170,290	272,365	669,764	2,332,092	1,662,328
Minnesota	9	67	83	131,534	96,012	279,169	1,053,654	774,485
Missouri	13	122	161	239,068	169,898	475,673	1,897,729	1,422,056
New Jersey	12	97	261	201,831	322,714	924,081	3,012,600	2,088,519
New York	12	90	197	161,196	227,266	404,897	2,197,580	1,792,683
Ohio	33	198	453	453,249	534,318	1,009,635	4,396,807	3,387,172
Oklahoma	7	36	37	64,193	38,683	152,673	495,100	342,427
Pennsylvania	31	236	494	419,383	617,436	1,305,856	5,417,002	4,111,146
Tennessee	8	23	40	33,697	43,436	124,366	526,259	401,893
Texas	22	91	184	190,804	189,852	511,185	1,735,535	1,224,350
Utah	5	17	31	28,636	38,059	79,629	246,579	166,950
Virginia	8	46	107	72,112	96,317	253,820	940,216	686,396
Washington	10	42	64	85,318	76,408	207,330	683,988	476,658
West Virginia	7	46	142	79,082	171,089	583,300	1,388,629	805,329
Other States [1]	37	184	269	364,129	302,518	942,046	3,413,039	2,470,993

[1] Arizona, 2 establishments; Arkansas, 2; Connecticut, 1; Iowa, 5; Kansas, 5; Kentucky, 3; Montana, 1; Nebraska, 3; New Mexico, 1; North Carolina, 2; Oregon, 3; South Dakota, 1; Wisconsin, 6; Wyoming, 2. See sec. 23, p. 12.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year[1]	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States													
1935	3,794	3,590	3,649	3,644	3,721	3,810	3,904	3,945	3,959	3,874	3,838	3,813	3,781
1933	2,763	(*)	(*)	2,295	(*)	(*)	2,517	(*)	(*)	3,313	(*)	(*)	3,218
States, 1935													
Alabama	47	45	45	45	46	47	49	48	48	46	48	49	49
California	224	222	228	229	231	218	222	218	224	225	220	227	218
Colorado	58	56	58	54	52	56	60	61	63	61	59	57	55
Florida	30	34	28	28	29	32	30	29	28	28	30	31	32
Georgia	68	82	77	71	66	67	68	60	70	63	61	61	67
Illinois	206	202	201	194	198	208	216	223	224	209	205	195	194
Indiana	122	102	115	123	114	114	121	120	119	133	137	135	133
Iowa	32	33	32	31	32	34	34	33	31	31	31	32	27
Louisiana	75	70	70	70	73	73	78	78	78	77	77	80	79
Maryland	65	56	59	57	68	68	67	66	65	67	70	72	70
Massachusetts	140	123	119	123	129	140	168	158	148	142	144	140	140
Michigan	234	223	247	230	224	226	222	232	227	234	238	243	261
Minnesota	83	80	77	77	80	82	87	89	94	82	82	84	79
Missouri	161	150	150	146	159	166	174	185	188	170	148	148	146
New Jersey	261	247	250	254	265	291	279	274	265	253	252	251	251
New York	197	180	183	188	189	201	212	221	207	195	187	204	200
Ohio	454	433	438	442	446	450	456	461	467	473	461	457	461
Oklahoma	37	35	35	37	38	38	37	36	39	38	38	38	40
Pennsylvania	494	469	483	477	478	493	506	525	511	497	508	502	480
Tennessee	40	39	38	36	38	38	39	39	40	43	46	45	44
Texas	185	162	162	171	182	185	188	192	211	201	197	188	177
Utah	31	26	26	29	29	32	33	34	35	35	33	32	31
Virginia	107	104	103	100	118	109	115	108	117	113	102	92	98
Washington	65	56	60	66	64	64	64	71	69	70	67	63	66
West Virginia	142	138	136	137	137	142	141	148	146	142	145	144	143
Wisconsin	52	45	47	47	48	49	52	55	56	56	56	55	55

* Data incomplete. See last sentence, second paragraph, sec. 11, p. 7.

[1] As the averages for 1935 given in this table are derived from the figures for the 12 months in the calendar year, some of them differ from the corresponding averages in table 2, which are derived in part from figures for months in fiscal years differing from the calendar year. See sec. 11, p. 7.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1935, 1933, AND 1929

	1935	1933	1929
1. Compressed and Liquefied Gases industry, all products, total value	$42,018,950	$32,007,108	$52,189,779
2. Compressed and liquefied gases	40,756,603	31,725,924	51,622,803
3. Other products (not normally belonging to the industry)	1,262,347	281,184	566,976
4. Compressed and liquefied gases made as secondary products in other industries, value	26,385,549	[1] 16,459,457	19,670,116

	1935	1933	1929	NUMBER OF ESTABLISHMENTS, BY STATES, 1935
Compressed and liquefied gases, aggregate value (sum of 2 and 4).	$67,142,152	[1] $48,185,381	$71,291,919	
Ammonia, anhydrous: [2]				
Number of establishments	11	[1] 9	16	Calif., 2; Mass., 1; Mich., 2; N. Y. 2; Ohio, 1; Pa., 1; Va., 1; W. Va., 1.
Pounds [3]	138,778,725	[1] 150,184,618	173,349,355	
Value [3]	$5,679,399	[1] $5,930,049	$10,673,234	
Chlorine:				
Number of establishments	22	[1] 20	20	Calif., 2; Ill., 1; Md., 1; Mich., 2; N. H., 1; N. J., 1; N. Y., 7; Ohio, 1; R. I., 1; Wash., 2; W. Va., 2; Wis., 1.
Total production, tons [4]	315,139	[1] 217,089	199,472	
Made and consumed in same establishments, tons [4]	107,759	[1] 92,526	54,545	
Made for sale:				
Number of establishments	19	16	17	
Tons	207,380	124,563	144,927	
Value	$7,961,186	$4,486,325	$7,113,091	
Hydrogen:				
Number of establishments	40	36	44	Ark., 1; Calif., 3; Ga., 1; Ill., 2 Ind., 2; Ky., 1; Mass., 1; Mich. 2; Minn., 1; Mo., 1; N. J., 3 N. Y., 4; Ohio, 4; Oreg., 1; Pa. 4; Tenn., 1; Tex., 2; Utah, 1 Va., 2; Wash., 1; W. Va., 1; Wis., 1.
M cubic feet [5]	743,860	589,290	207,843	
Value	$1,556,658	$914,532	$1,423,456	
Hydrocarbon gases:				
Acetylene:				
Number of establishments	116	108	104	Ala., 2; Ariz., 1; Ark., 1; Calif., 9; Colo., 2; Fla., 1; Ga., 2; Ill., 6; Ind., 6; Iowa, 3; Kans., 3; Ky., 1; La., 4; Md., 2; Mass., 4; Mich., 7; Minn., 3; Mo. 2; Nebr., 2; N. J., 4; N. Y., 3; Ohio, 11; Okla., 3; Oreg., 1; Pa., 10; S. Dak., 1; Tenn., 2; Tex., 8; Utah, 1; Va., 3; Wash., 3; W. Va., 2; Wis., 2; Wyo., 1.
M cubic feet	1,143,199	754,089	969,534	
Value	$14,747,824	$11,038,959	$16,553,763	
Liquefied petroleum gases:				
Number of establishments	27	19	(6)	Calif., 4; Ill., 1; Ind., 2; Kans., 4; Md., 1; N. J., 1; N. Y., 1; Ohio, 1; Okla., 2; Pa., 3; S. C., 1; Tex., 3; W. Va., 1; Wyo., 2.
M gallons	374,719	178,630		
Value	$7,989,298	$2,524,098		
Other hydrocarbon gases, value	$501,338	$1,216,859	$2,447,196	
Nitrous oxide:				
Number of establishments	12	10	9	Calif., 3; Md., 1; Mich., 1; Mo., 1; N. J., 2; N. Y., 1; Ohio, 2; Va. 1.
M gallons	95,861	82,220	109,812	
Value	$945,802	$810,529	$1,196,392	
Oxygen:				
Number of establishments	163	160	178	Ala., 3; Ariz., 1; Ark., 1; Calif., 10; Colo., 3; Fla., 2; Ga., 2; Ill., 6; Ind., 4; Iowa, 2; Kans., 2; Ky., 2; La., 5; Md., 2; Mass., 3; Mich., 9; Minn., 5; Mo., 6; Mont., 1; Nebr., 2; N. J., 8; N.Y., 6; N.C., 1; Ohio, 19; Okla. 4; Oreg., 2; Pa., 17; Tenn., 5; Tex., 12; Utah, 2; Va., 5; Wash., 4; W. Va., 2; Wis., 4; Wyo., 1.
M cubic feet, total	2,683,859	1,821,880	3,140,095	
Liquefaction process	2,592,714	1,756,961	2,816,641	
Electrolytic process	91,145	64,919	323,454	
Value	$18,125,676	$12,997,005	$23,409,606	
Sulphur dioxide:				
Number of establishments	5	5	4	Calif., 1; N. J., 2; Va., 1; Wis., 1.
Pounds	24,628,183	19,559,779	17,600,936	
Value	$1,170,401	$967,657	$973,596	

For footnotes, see end of table.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1935, 1933, AND 1929—Continued

	1935	1933	1929	NUMBER OF ESTABLISHMENTS, BY STATES, 1935
Compressed and liquefied gases—Continued.				
Carbon dioxide (not including "dry ice"):				
Number of establishments	61	50	54	Ala., 1; Calif., 8; Colo., 1; Fla., 3; Ga., 2; Ill., 5; Ind., 1; La., 1; Md., 1; Mass., 2; Mich., 3; Minn., 1; Mo., 2; N. J., 2; N.Y., 6; N. C., 1; Ohio, 4; Pa., 5; Tenn., 2; Tex., 4; Utah, 2; Va., 2; Wash., 2.
Pounds [7]	87,657,446	117,382,256	136,930,311	
Value	$4,541,329	$4,466,461	$6,931,735	
Solid carbon dioxide ("dry ice"):				
Number of establishments	35	26	(6)	Calif., 4; Colo., 1; Fla., 1; Ga., 1; Ill., 2; Ind., 1; La., 1; Mass., 2; Mich., 1; Minn., 1; Mo., 2; N.Mex., 1; N.Y., 3; Ohio, 2; Pa., 5; Tex., 2; Utah, 1; Va., 2; Wash., 2.
Pounds	165,123,912	59,057,600		
Value	$3,245,692	$1,969,526		
Other gases, value	$677,549	$863,381	$570,850	

[1] Revised.
[2] Made in the Chemicals Not Elsewhere Classified and the Manufactured Gas industries. Does not include production in the Coke industry.
[3] Includes production from ammonia liquor. Amount of such production in 1935, 2,990,685 pounds, valued at $388,699. No corresponding data available for earlier years.
[4] Not including chlorine made and consumed in Wood Pulp industry.
[5] Includes hydrogen delivered to consumers through pipe lines. The amount thus delivered in 1935 (estimated), 537,000 M cubic feet. No corresponding estimates have been made for earlier years.
[6] No data.
[7] Includes carbon dioxide piped to plants making "dry ice." Quantities thus piped in 1935 and 1933 (estimated), 25,285,000 pounds and 64,500,000 pounds, respectively. No corresponding estimate has been made for 1929.

DRUG GRINDING

Description of the industry.—The establishments in this industry are engaged primarily in grinding drugs, charcoal, herbs, gums, licorice and other roots, etc. The values of products for the industry, as given in the table below, do not, of course, include the values of drugs ground for their own use or for sale by establishments which, because of the character of their principal products, are classified in the Drugs and Medicines industry or in other industries.

Omission of State statistics except for wage-earner employment.—As no figures for wages, cost of materials, value of products, and value added by manufacture can be given for the most important State in this industry, namely, New Jersey, without disclosing approximations of data for individual establishments, and as those States for which it would be possible to publish separate figures without disclosing such approximations of data accounted for less than one-half of the total activity of the industry (as measured by number of wage earners employed) in the United States in 1935, the publication of statistics for those States for which separate figures could be given would be misleading, and therefore no such statistics are included in this report. In table 2, however, figures are given for each State represented by three or more establishments, even though one or two of these establishments reported most of the wage earners employed in the industry in the State. (See sec. 23, p. 12.)

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (—)	
					1933–1935	1929–1935
Number of establishments	[1] 21	22	23	26	(*)	(*)
Proprietors and firm members	4	5	(2)	5	(*)	(*)
Salaried personnel, total [3]	118	(4)	(2)	162	(4)	—27.2
Salaried officers of corporations	18	(4)	(2)	34	(4)	(*)
Supervisory, technical, and clerical employees	[5] 100	[6] 107	(2)	128	—6.5	—21.9
Salaries paid, total [3]	$397,364	(4)	(2)	$599,422	(4)	—33.7
To salaried officers of corporation	$160,448	(4)	(2)	$232,760	(4)	—31.1
To supervisory, technical, and clerical employees	[5] $236,916	[6] $282,308	(2)	$366,662	—16.1	—35.4
Wage earners (average for year) [7]	590	630	661	677	—6.3	—12.9
Wages	$601,127	$613,593	$711,328	$840,935	—2.0	—28.5
Cost of materials, etc., total	$3,378,932	$3,448,408	$5,457,110	$5,675,079	—2.0	—40.5
Cost of materials, supplies, and containers	$3,226,789	(2)	(2)	$5,501,018	(2)	—41.3
Cost of fuel	$95,030	(2)	(2)	$120,591	(2)	—21.2
Cost of purchased electric energy	$57,113	(2)	(2)	$53,470	(2)	6.8
Value of products	$5,915,760	$6,399,236	$9,159,361	$9,669,220	—7.6	—38.8
Value added by manufacture [8]	$2,536,828	$2,950,828	$3,702,251	$3,994,141	—14.0	—36.5

* Percent not computed where base is less than 100.

[1] Illinois, 5 establishments; Maryland, 1; New Jersey, 5; New York, 5; North Carolina, 1; Pennsylvania, 2; Wisconsin, 2.

[2] No data.

[3] No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

[4] Data incomplete.

[5] Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 21; salaries, $78,471. Technical, 8; salaries, $25,711. Clerical, 71; salaries, $132,734. See sec. 10, p. 7.

[6] Supervisory, 26; salaries, $118,359. Clerical and other, 81; salaries, $163,949. See sec. 10, p. 7.

[7] See sec. 11, p. 7.

[8] Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States													
1935	590	580	582	585	581	585	597	600	589	587	596	597	601
1933	630	578	573	538	584	587	618	626	689	689	700	692	689
States, 1935													
Illinois	52	49	48	47	47	48	49	56	54	55	56	53	57
New Jersey	459	456	458	462	460	460	465	462	454	453	460	461	462
New York	55	53	54	54	54	55	57	56	56	55	57	57	56

DRUGS AND MEDICINES

[A preliminary report for this industry was issued March 22, 1937]

Description of the industry.—This industry, as constituted for Manufactures Census purposes, embraces establishments engaged primarily in the manufacture of drugs and medicines, such as alkaloids and derivatives, biological products, and pharmaceutical metals and salts, and of medicinal preparations packaged for sale at retail to the general public. In preceding censuses, part of these establishments were classified in the former "Druggists' Preparations" industry and part in the former "Patent or Proprietary Medicines and Compounds" industry.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (−)	
					1933–1935	1929–1935
Number of establishments	1,056	996	1,197	1,366	6.0	−22.7
Proprietors and firm members	300	278	(1)	439	7.9	−31.7
Salaried personnel, total [2]	9,350	(3)	(1)	10,780	(3)	−13.3
Salaried officers of corporations	1,355	(3)	(1)	(4)	(3)	(4)
Supervisory, technical, and clerical employees	[5] 7,995	[6] 7,638	(1)		4.7	
Salaries paid, total [2]	$22,353,389	(3)	(1)	$30,162,787	(3)	−25.9
To salaried officers of corporations	$8,058,137	(3)	(1)	(4)	(3)	(4)
To supervisory, technical, and clerical employees	[5] $14,295,252	[6] $13,434,587	(1)		6.4	
Wage earners (average for year) [7]	22,128	19,683	21,023	23,841	12.4	−7.2
Wages	$21,978,878	$18,797,949	$23,194,291	$27,123,851	16.9	−19.0
Cost of materials, etc., total	$83,444,677	$70,593,520	$82,356,149	$112,509,871	18.2	−25.8
Cost of materials, supplies, and containers	$81,785,763	(1)	(1)	$110,693,491	(1)	−26.1
Cost of fuel	$1,000,932	(1)	(1)	$1,197,440	(1)	−16.4
Cost of purchased electric energy	$657,982	(1)	(1)	$618,940	(1)	6.3
Value of products	$291,733,473	$257,012,695	$313,562,626	$376,959,656	13.5	−22.6
Value added by manufacture [8]	$208,288,796	$186,419,175	$231,206,477	$264,449,785	11.7	−21.2

[1] No data.
[2] No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.
[3] Data incomplete.
[4] Not available.
[5] Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 1,376; salaries, $5,046,889. Technical, 921; salaries, $2,178,981. Clerical, 5,698; salaries, $7,069,382. See sec. 10, p. 7.
[6] Supervisory, 1,188; salaries, $5,176,842. Clerical and other, 6,450; salaries, $8,257,745. See sec. 10, p. 7.
[7] See sec. 11, p. 7.
[8] Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 8, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, containers, fuel, and purchased energy	Value of products	Value added by manufacture
United States	1,056	9,350	22,128	$22,353,389	$21,978,878	$83,444,677	$291,733,473	$208,288,796
Arkansas	5	5	16	4,298	9,206	48,597	118,410	69,813
California	52	223	423	424,700	411,984	1,236,739	3,856,609	2,619,870
Colorado	9	26	41	60,112	39,705	119,921	383,416	263,495
District of Columbia	5	26	49	66,530	37,648	162,185	430,213	268,028
Georgia	19	60	97	133,447	75,338	742,560	2,500,859	1,758,299
Illinois	94	1,176	2,063	2,479,284	2,021,591	10,412,589	30,460,373	20,047,784
Indiana	41	519	1,779	1,507,267	2,275,245	5,386,227	27,435,207	22,048,980
Iowa	33	201	261	389,162	233,793	879,570	2,772,633	1,893,063
Kansas	17	40	67	93,567	63,513	195,493	543,221	347,728
Kentucky	7	28	44	78,332	33,787	117,087	444,889	327,802
Louisiana	13	33	87	62,856	54,968	221,290	734,450	513,160
Maryland	20	192	450	534,555	432,153	1,964,562	8,072,622	6,108,060
Massachusetts	44	324	878	802,523	833,498	4,025,011	12,715,305	8,690,294
Michigan	44	785	3,044	1,999,519	3,498,727	9,927,362	38,771,683	28,844,321
Minnesota	22	231	383	526,372	356,404	1,630,701	4,228,865	2,598,164
Missouri	58	589	1,391	1,476,532	1,318,646	6,346,854	20,882,892	14,536,038
Nebraska	15	121	164	258,200	159,460	626,401	1,944,478	1,318,077
New Jersey	47	631	1,541	1,686,399	1,648,645	6,173,387	23,922,898	17,749,511
New York	224	1,857	3,938	4,824,821	3,851,302	13,336,096	51,964,311	38,628,215
North Carolina	10	68	390	159,331	291,683	1,319,139	2,916,394	1,597,255
Ohio	71	480	796	1,023,519	750,309	2,887,222	9,283,545	6,396,323
Oklahoma	3	3	8	5,270	5,324	26,602	57,416	30,814
Pennsylvania	84	984	2,429	2,190,048	2,248,373	7,851,915	26,308,186	18,456,271
Rhode Island	5	9	25	12,765	22,811	49,310	148,651	99,341
South Carolina	3	7	7	7,453	6,872	18,003	61,036	43,033
Tennessee	23	296	489	576,256	374,492	2,259,849	5,299,582	3,039,733
Texas	17	69	165	171,601	128,289	480,898	1,336,766	855,868
Vermont	8	25	35	65,966	29,039	90,298	360,059	269,761
Virginia	11	49	62	117,098	61,654	289,233	1,285,945	996,712
Washington	6	12	14	23,312	19,675	36,608	135,648	99,040
Wisconsin	12	54	77	112,623	66,988	259,790	701,445	441,655
Other States [1]	34	227	914	479,671	617,756	4,323,178	11,655,466	7,332,288

[1] Alabama, 3 establishments; Connecticut, 8; Delaware, 2; Florida, 4; Maine, 2; Mississippi, 1; New Hampshire, 2; Oregon, 3; South Dakota, 3; Utah, 1; West Virginia, 5.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year [1]	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States													
1935	22,170	22,446	22,391	21,974	21,752	21,491	21,665	21,392	21,632	22,468	23,066	23,079	22,683
1933	19,683	(*)	(*)	18,759	(*)	(*)	18,560	(*)	(*)	20,448	(*)	(*)	21,591
States, 1935													
Alabama	10	10	10	10	10	10	10	10	10	10	10	10	10
Arkansas	16	14	18	13	16	16	15	15	18	15	19	16	16
California	423	392	399	416	418	416	413	418	431	443	451	446	435
Colorado	41	35	37	39	42	40	42	41	40	42	44	46	42
Connecticut	678	701	714	680	687	664	629	693	698	680	676	698	616
District of Columbia	49	63	57	47	49	46	46	46	41	44	51	55	48
Florida	41	50	50	37	36	31	31	33	36	47	49	48	45
Georgia	97	104	92	87	92	116	113	78	82	90	133	85	91
Illinois	2,063	2,092	1,942	1,889	1,881	1,890	1,942	1,998	2,039	2,180	2,313	2,319	2,271
Indiana	1,779	1,683	1,754	1,778	1,773	1,801	1,783	1,619	1,681	1,862	1,870	1,879	1,859
Iowa	261	238	249	241	251	253	257	274	281	270	278	273	271
Kansas	67	58	63	71	71	72	71	74	71	65	62	66	62
Kentucky	44	41	41	41	42	42	44	45	46	45	45	51	49
Louisiana	87	92	90	89	89	81	79	94	80	82	97	85	90
Maryland	450	453	450	448	444	445	448	452	451	448	453	455	453
Massachusetts	880	914	910	920	902	863	862	846	817	863	885	893	886
Michigan	3,044	3,075	3,084	3,087	3,040	3,015	2,926	2,830	2,959	3,037	3,154	3,179	3,142
Minnesota	383	365	376	385	431	416	404	366	365	372	376	371	365
Missouri	1,398	1,451	1,432	1,410	1,399	1,319	1,322	1,331	1,409	1,440	1,445	1,401	1,412
Nebraska	164	165	165	151	138	137	157	159	163	180	195	189	173
New Jersey	1,541	1,513	1,579	1,579	1,535	1,513	1,516	1,471	1,481	1,521	1,566	1,611	1,610
New York	3,973	3,982	4,023	4,022	3,949	3,966	3,949	3,813	3,775	3,948	4,072	4,102	4,076
North Carolina	390	495	501	258	249	138	452	520	507	466	423	347	320
Ohio	798	787	801	788	791	797	772	799	777	797	823	833	809
Oklahoma	8	10	7	7	9	10	8	10	10	10	8	6	6
Oregon	24	27	27	28	23	23	22	21	23	22	23	22	21
Pennsylvania	2,425	2,579	2,487	2,418	2,375	2,374	2,353	2,316	2,328	2,458	2,492	2,469	2,449
Rhode Island	25	25	25	25	22	25	25	25	27	27	26	26	26
South Carolina	7	7	7	7	7	7	7	7	7	7	7	8	8

South Dakota	25	34	41	30	18	17	17	19	17	20	21	30	41
Tennessee	489	483	475	488	481	492	481	490	473	492	507	509	499
Texas	165	181	158	153	157	137	146	158	164	164	164	226	177
Vermont	35	34	34	35	35	36	35	35	36	36	36	36	35
Virginia	62	64	65	64	61	61	61	61	61	61	62	62	61
Washington	14	11	12	12	12	12	17	17	17	16	12	12	12
West Virginia	86	91	91	93	87	87	85	85	85	82	84	79	79
Wisconsin	77	74	75	78	77	77	77	76	77	79	85	83	63

* Data incomplete. See last sentence, second paragraph, sec. 11, p. 7.

[1] As the 1935 averages given in this table are derived from the figures for the 12 months in the calendar year, some of them differ from the corresponding averages in table 2, which are derived in part from figures for months in fiscal years differing from the calendar year. See sec. 11, p. 7.

TABLE 4.—PRODUCTS, BY KIND AND VALUE: 1935, 1931, AND 1929

[No comparable figures for 1933 are available. See sec. 4, p. 3]

	1935	1931	1929
1. Drugs and Medicines industry, all products, total value	$291,733,473	$313,562,626	$376,959,656
2. Drugs and medicines	259,520,898	(1)	(1)
3. Other products (not normally belonging to the industry)	32,212,575		
4. Drugs and medicines made as secondary products in other industries	21,239,548		
Drugs and medicines, aggregate value (2 and 4)	$280,760,446	$305,545,390	$358,628,236
Medicinal products sold direct to or prescribed by physicians, total value	$133,200,568	(1)	(1)
Alkaloids and derivatives, made for sale:			
Total pounds	1,062,520	(1)	(1)
Total value	$6,130,792	$7,676,913	$8,029,633
Caffeine:			
Pounds	472,408	371,577	442,226
Value	$910,956	$953,094	$1,104,337
Brucine:			
Pounds	18,739		
Value	$26,484		
Ephedrine:			
Pounds	11,559		
Value	$153,040		
Strychnine:			
Pounds	24,561	$6,723,819	$6,925,296
Value	$189,628		
Other (including nicotine, except sulphate, and quinine):			
Pounds	535,253		
Value	$4,850,684		
Biological products, total value	$13,412,335	$14,821,143	$16,850,168
For human use:			
Antitoxins	2,643,774	2,430,274	2,916,918
Bacterins	1,002,074	1,026,220	808,711
Serums	1,136,110	1,103,246	673,055
Vaccines	1,551,835	1,146,052	1,091,812
Viruses	604,009	193,337	340,734
Undistributed	921,492	1,189,412	1,285,594
For animal use:			
Antitoxins	200,876	255,141	635,070
Bacterins	626,580	542,730	776,785
Serums	3,348,312	5,435,630	6,802,688
Vaccines	438,179	515,917	561,874
Viruses	700,189	885,925	908,767
Undistributed	238,905	97,259	48,160

[1] No data.

TABLE 4.—PRODUCTS, BY KIND AND VALUE: 1935, 1931, AND 1929—Con.

[No comparable figures for 1933 are available. See sec. 4, p. 3]

	1935	1931	1929
Drugs and medicines—Continued.			
Medicinal products sold direct to or prescribed by physicians—Continued.			
Other products sold direct to or prescribed by physicians, total value	$113,657,441		
Prepared intramuscular, subcutaneous, and intravenous products:			
U. S. P. and N. F.:*			
Arspenamines	1,301,597		
Other	5,243,134		
Special formulas	4,164,318		
Liquid preparations (tinctures, fluid extracts, sirups, elixirs, solutions, etc.):			
U. S. P. and N. F	10,407,887		
Special formulas	19,455,898		
Dry preparations (pills, tablets, powders, salts, etc.):			
U. S. P. and N. F	8,485,919		
Special formulas	21,279,813		
Ointments, cerates, suppositories, globules, etc.:			
U. S. P. and N. F	2,332,291		
Special formulas	4,927,983		
Pharmaceutical metals and their salts (bromides, citrates, bismuth, etc.):			
U. S. P. and N. F	1,151,988		
Special formulas	3,279,640		
Synthetic chemical medicinals	6,568,439		
Gland products:			
U. S. P. and N. F	5,549,098		
Special formulas	5,415,528		
Vitamin products:			
U. S. P. and N. F	5,036,259	$283,047,334	$333,748,435
Special formulas	6,420,404		
Undistributed	2,637,245		
Medicines in specially prepared packages made for sale to the general public, total value	136,458,467		
U. S. P. and N. F.:			
Liquid preparations (tinctures, fluid extracts, sirups, elixirs, solutions, etc.)	7,879,900		
Dry preparations (pills, tablets, powders, salts, etc.)	6,192,821		
Ointments, cerates, suppositories, globules, etc	3,658,328		
Pharmaceutical metals and their salts	10,292,952		
Gland products	787,945		
Vitamin products	2,285,866		
Undistributed	315,030		
Not U. S. P. and N. F.:			
Liquid preparations (tinctures, fluid extracts, sirups, elixirs, solutions, etc.)	41,882,330		
Dry preparations (pills, tablets, powders, salts, etc.)	39,538,343		
Ointments, cerates, suppositories, globules, etc	15,350,281		
Synthetic chemical medicinals	321,204		
Gland products	440,709		
Vitamin products	2,369,273		
Undistributed	5,143,485		
Medicinal products not classified above, and undistributed	5,934,806		
Poultry and animal remedies (except biological products)	5,166,605		

* United States Pharmacopoeia and National Formulary.

EXPLOSIVES

[A preliminary report for this industry was issued Dec. 18, 1936]

Description of the industry.—This industry, as constituted for Manufactures Census purposes, embraces establishments engaged primarily in the manufacture of black and smokeless powder, dynamite, nitroglycerin, etc. The classification does not cover the production of ammunition nor of fireworks, which are assigned to the Ammunition and Related Products industry and the Fireworks industry, respectively.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (—)	
					1933–1935	1929–1935
Number of establishments	74	66	78	95	(*)	(*)
Proprietors and firm members	19	2	(1)	28	(*)	(*)
Salaried personnel, total [2]	712	(3)	(1)	791	(3)	—10.0
Salaried officers of corporations	31	(3)	(1)	40	(3)	(*)
Supervisory, technical, and clerical employees	[4] 681	[5] 523	(1)	751	30.2	—9.3
Salaries paid, total [2]	$1,809,632	(3)	(1)	$2,226,390	(3)	—18.7
To salaried officers of corporations	$176,350	(3)	(1)	$208,734	(3)	—15.5
To supervisory, technical, and clerical employees	[4] $1,633,282	[5] $1,244,567	(1)	$2,017,656	31.2	—19.1
Wage earners (average for year) [6]	4,570	4,168	4,733	5,614	9.6	—18.6
Wages	$5,646,701	$4,135,128	$5,572,447	$8,487,890	36.6	—33.5
Cost of materials, etc., total	$17,000,618	$12,704,528	$19,518,905	$31,764,307	33.8	—46.5
Cost of materials, supplies, and containers	$15,732,262	(1)	(1)	$29,966,690	(1)	—47.5
Cost of fuel	$798,879	(1)	(1)	$1,263,856	(1)	—36.8
Cost of purchased electric energy	$469,477	(1)	(1)	$533,761	(1)	—12.0
Value of products	$40,667,200	$35,105,999	$46,258,353	$72,539,724	15.8	—43.9
Value added by manufacture [7]	$23,666,582	$22,401,471	$26,739,448	$40,775,417	5.6	—42.0

* Percent not computed where base is less than 100.

[1] No data.

[2] No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

[3] Data incomplete.

[4] Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory. 169; salaries, $688,031. Technical, 226; salaries, $492,816. Clerical, 286; salaries, $452,435. See sec. 10, p. 7,

[5] Supervisory, 279; salaries, $836,752. Clerical and other, 244; salaries, $407,815. See sec. 10, p. 7.

[6] See sec. 11, p. 7.

[7] Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, containers, fuel, and purchased energy	Value of products	Value added by manufacture
United States	74	712	4,570	$1,809,632	$5,646,701	$17,000,618	$40,667,200	$23,666,582
California	4	69	399	173,395	530,071	2,045,072	4,922,878	2,877,806
Illinois	6	75	359	197,620	428,060	1,371,314	3,356,052	1,984,738
Missouri	3	30	205	82,002	227,408	814,758	1,905,936	1,091,178
Pennsylvania	18	183	1,086	457,804	1,143,507	3,019,486	7,386,499	4,367,013
Other States [1]	43	355	2,521	898,811	3,317,655	9,749,988	23,095,835	13,345,847

[1] Alabama, 3 establishments; Arizona, 1; Arkansas, 1; Colorado, 1; Indiana, 1; Iowa, 1; Kansas, 1; Kentucky, 3; Massachusetts, 1; Michigan, 2; New Jersey, 4; New York, 1; Ohio, 7; Oklahoma, 3; Tennessee, 1; Texas, 4; Utah, 1; Washington, 3; West Virginia, 3; Wisconsin, 1.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States													
1935	4,570	4,594	4,597	4,490	4,450	4,507	4,489	4,532	4,575	4,655	4,713	4,677	4,565
1933	4,168	3,596	3,623	3,666	3,606	3,666	3,725	4,022	4,482	4,795	5,002	4,999	4,835
States, 1935													
California	399	371	368	377	386	391	399	409	416	417	422	414	412
Illinois	359	371	393	390	344	344	334	335	341	361	377	365	354
Kentucky	48	52	54	52	52	51	24	50	51	52	51	45	45
Missouri	205	205	209	208	205	203	200	204	203	204	206	206	205
New Jersey	1,075	1,105	1,075	1,012	1,000	1,042	1,082	1,101	1,104	1,122	1,121	1,084	1,052
Ohio	150	143	146	143	140	145	144	142	149	154	166	160	165
Oklahoma	10	10	10	10	10	10	10	10	10	10	10	10	10
Pennsylvania	1,086	1,122	1,107	1,093	1,109	1,116	1,075	1,054	1,065	1,072	1,075	1,079	1,066
Texas	6	6	6	6	6	6	6	6	6	6	6	6	6
Washington	194	187	185	184	194	189	196	194	194	197	202	203	205
West Virginia	41	41	41	39	40	41	41	40	42	42	43	43	43

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE: 1935, 1933, AND 1929

	1935	1933	1929
1. Explosives industry, all products, total value	$40,667,200	$35,105,999	$72,539,724
2. Explosives (including consumption in shooting wells on contract [1])	$34,655,156	$29,045,482	$62,953,053
3. Other products (not normally belonging to the industry)	$6,012,044	$6,060,517	$9,586,671
Explosives (including consumption in shooting wells on contract [1]):			
Total pounds	338,116,413	288,407,846	529,862,602
Total value [1]	$34,655,156	$29,045,482	$62,953,053
Dynamite:			
Pounds	191,190,664	147,844,610	306,147,401
Value	$19,715,009	$15,222,725	$36,989,032
Permissible explosives: [2]			
Pounds	47,990,826	51,560,267	70,608,408
Value	$4,985,657	$4,153,927	$8,375,355
Nitroglycerin:			
Consumed in shooting wells on contract and made for sale, pounds	2,483,262	1,111,011	3,453,362
Amount received for shooting wells on contract and value of production for sale	$818,748	$450,970	$2,446,884
Blasting powder:			
Pounds	35,153,125	66,188,125	120,667,400
Value	$2,147,814	$4,056,386	$7,750,000
Pellet powder:			
Pounds	31,467,150		
Value	$2,076,261		
Fuse powder:			
Pounds	1,477,975	992,439	2,270,256
Value	$231,654	$186,092	$426,914
Gunpowder, black and smokeless, and other explosives not specified above:			
Pounds	28,353,411	20,711,394	26,715,775
Value	$4,680,013	$4,975,382	$6,964,868

[1] Amount received for shooting wells is treated as value of nitroglycerin used for this purpose.
[2] Those approved by the Bureau of Mines, Department of the Interior, as suitable for use in mines where dust and gas explosions are likely to occur.

FERTILIZERS

[A preliminary report for this industry was issued Mar. 12, 1937]

Description of the industry.—This industry, as constituted for Manufactures Census purposes, embraces establishments engaged primarily in the production of commercial fertilizers, of which the principal classes are complete fertilizers (mixtures of superphosphates, potash, and ammoniates) and superphosphates. It does not include the merchandising of fertilizer materials for use in the natural state, nor of tankage from meat-packing establishments for use without remanufacture.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (—)	
					1933-1935	1929-1935
Number of establishments	670	522	599	638	28.4	5.0
Proprietors and firm members	184	86	(1)	139	(*)	32.4
Salaried personnel, total [2]	3,223	(3)	(1)	4,051	(3)	−20.4
Salaried officers of corporations	511	(3)	(1)	639	(3)	−20.0
Supervisory, technical, and clerical employees	[4] 2,712	[5] 2,316	(1)	3,412	17.1	−20.5
Salaries paid, total [2]	$6,080,948	(3)	(1)	$9,397,707	(3)	−35.3
To salaried officers of corporations	$2,014,561	(3)	(1)	$2,595,952	(3)	−22.4
To supervisory, technical, and clerical employees	[4] $4,066,387	[5] $3,884,432	(1)	$6,801,755	4.7	−40.2
Wage earners (average for year) [6]	17,473	13,063	14,551	20,926	33.8	−16.5
Wages	$10,967,021	$7,274,317	$12,145,966	$17,883,925	50.8	−38.7
Cost of materials, etc., total	$93,364,695	$69,053,111	$106,481,104	$159,801,195	35.2	−41.6
Cost of materials, supplies, and containers	$91,380,164	(1)	(1)	$157,020,058	(1)	−41.8
Cost of fuel	$552,442	(1)	(1)	$893,888	(1)	−38.2
Cost of purchased electric energy	$1,432,089	(1)	(1)	$1,887,249	(1)	−24.1
Value of products	$140,386,112	$94,939,311	$154,349,887	$232,510,936	47.9	−39.6
Value added by manufacture [7]	$47,021,417	$25,886,200	$47,868,783	$72,709,741	81.6	−35.3

* Percent not computed where base is less than 100.

[1] No data.

[2] No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

[3] Data incomplete.

[4] Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 933; salaries, $1,869,660. Technical, 158; salaries, $296,357. Clerical, 1,621; salaries, $1,900,370. See sec. 10, p. 7.

[5] Supervisory, 732; salaries, $1,663,993. Clerical and other, 1,584; salaries, $2,220,439. See sec. 10, p. 7.

[6] See sec. 11, p. 7.

[7] Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, containers, fuel, and purchased energy	Value of products	Value added by manufacture
United States	670	3,223	17,473	$6,080,948	$10,967,021	$93,364,695	$140,386,112	$47,021,417
Alabama	33	118	684	174,429	300,419	3,732,129	4,960,104	1,227,975
Arkansas	7	21	72	20,597	21,921	317,430	575,838	258,408
California	29	98	269	194,951	262,513	2,437,858	4,282,850	1,844,992
Connecticut	6	62	186	144,316	157,375	1,466,191	2,427,917	961,726
Delaware	7	24	72	56,891	28,304	452,473	719,611	267,138
Florida	41	264	1,141	569,701	665,914	7,026,153	10,052,652	3,026,499
Georgia	127	429	2,113	656,289	970,471	10,855,929	15,647,911	4,791,982
Illinois	13	75	291	127,731	214,727	1,903,209	3,352,090	1,448,881
Indiana	11	48	234	120,155	174,249	1,800,081	2,833,534	1,033,453
Kentucky	3	42	95	83,327	62,723	719,907	1,276,167	556,260
Louisiana	11	65	473	114,786	222,294	1,719,084	2,989,080	1,269,996
Maine	12	43	122	70,425	91,680	1,203,756	1,922,782	719,026
Maryland	37	417	2,254	876,624	2,049,136	10,052,817	16,485,797	6,432,980
Massachusetts	9	39	278	68,933	227,047	2,093,684	2,644,521	550,837
Michigan	4	29	307	79,597	320,670	1,266,133	1,831,265	565,132
Mississippi	15	65	379	102,558	156,298	1,801,330	2,700,681	899,351
New Jersey	22	114	697	258,503	604,103	3,645,056	5,409,460	1,764,404
New York	16	49	237	96,651	198,961	1,665,347	2,281,825	616,478
North Carolina	70	310	1,760	480,251	781,254	9,262,823	13,568,015	4,305,192
Ohio	22	146	859	360,277	726,996	5,666,702	8,981,862	3,315,160
Pennsylvania	23	130	620	237,442	481,800	2,912,413	4,426,478	1,514,065
South Carolina	64	212	1,361	393,874	669,853	6,597,438	9,380,458	2,783,020
Tennessee	9	58	452	126,166	258,853	2,319,905	3,580,714	1,260,809
Texas	12	39	133	44,588	66,252	661,347	1,147,910	486,563
Virginia	47	258	2,173	486,047	1,061,206	10,612,145	14,999,398	4,387,253
Washington	5	14	29	25,511	22,728	214,199	379,820	165,621
Other States [1]	15	54	183	110,328	169,274	959,156	1,527,372	568,216

[1] Arizona, 1 establishment; Kansas, 2; Minnesota, 1; Missouri, 1; Montana, 1; Nebraska, 1; Nevada, 1; Rhode Island, 1; Vermont, 1; West Virginia, 1; Wisconsin, 4.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year [1]	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States													
1935	17,708	17,409	20,397	30,327	28,896	19,557	13,714	11,577	12,076	14,161	15,062	14,441	14,882
1933	13,063	(*)	(*)	16,369	(*)	(*)	8,938	(*)	(*)	12,333	(*)	(*)	13,105
States, 1935													
Alabama	705	780	1,033	1,543	1,516	548	393	336	360	449	476	486	545
Arkansas	74	80	151	162	176	97	33	24	29	34	33	32	33
California	270	253	273	265	274	271	251	257	250	256	300	300	288
Connecticut	185	154	159	283	333	350	154	131	124	113	155	136	130
Delaware	72	46	63	89	88	97	74	56	62	87	87	73	45
Florida	1,153	1,229	1,298	1,345	1,025	1,096	1,124	789	896	970	1,249	1,400	1,420
Georgia	2,124	2,429	3,104	5,406	4,195	1,855	1,080	904	1,001	1,082	1,293	1,441	1,694
Illinois	312	245	307	331	443	431	215	252	267	410	341	247	254
Indiana	238	152	180	252	223	342	265	191	204	384	282	201	175
Kentucky	94	65	87	148	158	169	57	47	71	109	92	56	72
Louisiana	463	553	710	857	978	423	291	235	255	270	296	304	388
Maine	115	96	83	125	226	306	188	62	48	61	45	86	58
Maryland	2,278	1,863	1,987	2,752	3,276	2,783	2,034	1,882	2,003	2,523	2,580	1,838	1,817
Massachusetts	283	273	273	275	537	596	263	183	167	161	172	233	262
Michigan	309	331	318	347	457	329	246	241	209	309	285	291	343
Mississippi	388	473	608	696	668	333	183	189	219	247	267	355	422
New Jersey	700	630	640	895	1,009	831	664	649	634	615	645	568	623
New York	242	186	173	211	316	413	326	222	222	265	182	201	187
North Carolina	1,810	2,007	2,310	4,070	3,516	1,844	1,011	736	936	1,062	1,270	1,421	1,532
Ohio	871	777	760	787	1,092	1,057	850	849	760	1,221	850	716	736
Pennsylvania	622	521	506	773	966	802	683	503	484	612	568	557	491
South Carolina	1,414	1,466	1,855	3,667	2,531	1,302	868	645	646	744	1,065	1,104	1,080
Tennessee	448	415	538	772	949	579	242	268	302	307	330	317	361
Texas	130	183	240	282	210	107	57	57	60	68	97	103	94
Virginia	2,194	1,969	2,470	3,649	3,388	2,385	2,013	1,771	1,765	1,700	1,930	1,676	1,614
Washington	29	31	41	53	34	39	25	21	25	15	24	21	17
Wisconsin	23	14	14	40	67	55	35	5	8	11	9	6	7

*Data incomplete. See last sentence, second paragraph, sec. 11, p. 7.

[1] As the 1935 averages given in this table are derived from the figures for the 12 months in the calendar year, they differ somewhat from the corresponding averages in table 2, which are derived in part from figures for months in fiscal years differing from the calendar year. See sec. 11, p. 7.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1929 TO 1935

[Ton, 2,000 pounds]

	1935	1933	1931	1929
1. Fertilizer industry, all products, total value	$140,386,112	$94,939,311	$154,349,887	$232,510,936
2. Fertilizers:				
Tons	6,220,789	4,945,011	(1)	8,734,045
Value	$115,434,862	$76,768,916	$134,384,776	$201,751,371
3. Other products (not normally belonging to the industry), value	[2] $24,951,250	$14,836,399	$19,965,111	$30,759,565
4. Fertilizers and other products not reported separately (on abridged schedule), value [3]	----------	$3,333,996	----------	----------
5. Fertilizers made as secondary products in other industries:				
Tons	238,991	250,951	(1)	586,184
Value	$5,205,574	$6,042,037	$6,333,125	$20,979,745
Fertilizers, aggregate (sum of 2 and 5):				
Tons	6,459,780	5,195,962	6,967,681	9,320,229
Value	$120,640,436	$82,810,953	$140,717,901	$222,731,116
Complete fertilizers (mixtures containing nitrogen, phosphoric acid, and potash):				
Total tons	4,201,581	3,273,744	4,544,650	5,991,780
Total value	$93,091,644	$61,179,998	$110,172,501	$168,838,463
Plant-food content reported (see table 6), tons	3,492,900	2,506,244	3,424,694	4,143,110
Plant-food content not reported, tons	708,681	767,500	1,119,956	1,848,670
Potash superphosphate:				
Total tons	142,076	86,868	149,301	211,293
Total value	$2,680,679	$1,385,040	$2,998,074	$4,854,365
Plant-food content reported (see table 6), tons	131,084	63,961	135,719	166,658
Plant-food content not reported, tons	10,992	22,907	13,582	44,635
Superphosphates, not ammoniated (including concentrated phosphates): [4]				
Total production, tons	3,674,356	(1)	3,492,771	4,133,134
Made for sale:				
Tons	1,754,777	1,545,782	1,968,153	2,531,230
Value	$16,489,121	$12,881,737	$20,678,216	$28,375,184
Made and consumed, tons	[5] 1,919,579	(6)	[5] 1,524,618	[5] 1,601,904
Fish scrap:				
Tons	114,124	46,869	45,655	84,711
Value	$2,912,937	$1,487,300	$1,441,522	$3,244,632
Bone meal:				
Tons	56,313	20,503	51,773	39,548
Value	$1,414,115	$479,502	$1,518,136	$1,544,054
Ammoniated superphosphates (including urea and ammonium-nitrate solutions):				
Tons	41,278			
Value	$608,661			
Other ammoniated fertilizers (nonpotash):				
Tons	19,763	[7] 222,196	[7] 208,149	[7] 461,667
Value	$445,026	[7] $5,397,376	[7] $3,909,452	[7] $15,874,418
Other fertilizers:				
Tons	129,868			
Value	$2,998,253			

[1] Data incomplete.
[2] Includes $14,976,923, value of goods sold in condition in which purchased. No corresponding figures available for earlier years.
[3] An abridged schedule, which did not provide for reporting production in detail, was used in the 1933 census for canvassing the smaller fertilizer plants. See sec. 4, p. 3.
[4] Basis 16 percent available phosphoric acid.
[5] Not included in tonnage figure under "Fertilizers, aggregate," above.
[6] No data.
[7] These figures compare with 190,909 tons, valued at $4,051,940, representing the production, in 1935, of "Ammoniated superphosphates," "Other ammoniated fertilizers," and "Other fertilizers."

TABLE 5.—FERTILIZERS—PRODUCTION, BY CLASS, QUANTITY, AND VALUE, BY STATES: 1935

[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, outrank some of the States shown separately. See sec. 23. p. 12]

	Total	Complete fertilizers	Superphosphates, including concentrated phosphates	Other fertilizers [1]
United States:				
Tons	6,459,780	4,201,581	[2] 1,754,777	503,422
Value	$120,640,436	$93,091,644	$16,489,121	$11,059,671
Alabama:				
Tons	260,897	193,085	63,454	4,358
Value	$4,360,671	$3,656,294	$634,050	$70,327
California:				
Tons	160,038	53,532	(3)	(3)
Value	$4,234,090	$2,043,727	(3)	(3)
Connecticut:				
Tons	50,411	47,776	----------	2,635
Value	$1,651,301	$1,538,400	----------	$112,901
Delaware:				
Tons	31,670	20,442	----------	11,228
Value	$803,756	$599,959	----------	$203,797
Florida:				
Tons	446,223	304,840	119,060	22,323
Value	$9,294,318	$7,710,666	$1,050,510	$533,142
Georgia:				
Tons	732,507	548,336	168,560	15,611
Value	$13,853,877	$11,787,116	$1,740,895	$325,866
Illinois:				
Tons	149,791	106,502	16,253	27,036
Value	$3,251,827	$2,332,933	$218,080	$700,814
Indiana:				
Tons	115,973	89,803	12,157	14,013
Value	$2,682,134	$2,157,126	$193,439	$331,569
Kentucky:				
Tons	47,069	38,620	(3)	(3)
Value	$1,101,600	$926,967	(3)	(3)
Louisiana:				
Tons	135,495	79,872	46,763	8,860
Value	$2,495,002	$1,874,282	$410,655	$210,065
Maine:				
Tons	52,075	48,947	----------	3,128
Value	$1,789,867	$1,677,352	----------	$112,515
Maryland:				
Tons	934,286	392,548	482,192	59,546
Value	$12,654,684	$7,680,087	$3,867,234	$1,107,363
Massachusetts:				
Tons	121,442	82,508	(3)	(3)
Value	$2,524,433	$2,032,097	(3)	(3)
Michigan:				
Tons	57,356	45,190	(3)	(3)
Value	$1,084,343	$866,067	(3)	(3)
Mississippi:				
Tons	113,681	78,681	(3)	(3)
Value	$2,165,112	$1,696,818	(3)	(3)
Missouri:				
Tons	1,187	1,187	----------	----------
Value	$33,340	$33,340	----------	----------
New Jersey:				
Tons	246,432	184,282	54,463	7,687
Value	$4,726,159	$4,082,172	$419,381	$224,606
New York:				
Tons	105,779	71,891	(3)	(3)
Value	$2,032,259	$1,561,371	(3)	(3)
North Carolina:				
Tons	629,380	482,389	122,084	24,907
Value	$11,529,688	$9,975,755	$1,042,899	$511,034
Ohio:				
Tons	451,648	288,321	118,127	45,200
Value	$8,580,136	$6,177,526	$1,417,087	$985,523
Pennsylvania:				
Tons	197,757	133,540	(3)	(3)
Value	$3,658,260	$2,985,640	(3)	(3)
South Carolina:				
Tons	433,935	315,022	112,124	6,789
Value	$7,570,167	$6,470,299	$978,759	$121,109

For footnotes, see end of table.

TABLE 5.—FERTILIZERS—PRODUCTION, BY CLASS, QUANTITY, AND VALUE, BY STATES: 1935—Continued

[See note at head of table]

	Total	Complete fertilizers	Superphosphates, including concentrated phosphates	Other fertilizers [1]
Tennessee:				
Tons	227,731	79,175	121,999	26,557
Value	$3,502,099	$1,661,638	$1,351,216	$489,245
Texas:				
Tons	43,494	26,162	(3)	(3)
Value	$923,138	$682,261	(3)	(3)
Virginia:				
Tons	600,310	448,373	82,713	69,224
Value	$12,079,135	$9,705,305	$742,670	$1,631,160
Washington:				
Tons	11,219	10,223	----------	996
Value	$309,522	$287,142	----------	$22,380
Other States:				
Tons	101,994	30,334	(3)	(3)
Value	$1,749,518	$889,304	(3)	(3)
Undistributed:				
Tons	----------	----------	[3] 234,828	[3] 153,324
Value	----------	----------	[3] $2,422,246	[3] $3,366,255

[1] Includes ammoniated superphosphates, other ammoniated fertilizers (nonpotash), potash superphosphate, bone meal, and fish scrap.
[2] Basis 16 percent available phosphoric acid.
[3] The items not shown for individual States are included in the "Undistributed" item to avoid disclosing, exactly or approximately, the output of individual establishments.

TABLE 6.—PLANT-FOOD CONTENT OF COMPLETE FERTILIZERS AND OF POTASH SUPERPHOSPHATE, FOR THE UNITED STATES, 1935, 1933, AND 1929; FOR GEOGRAPHIC DIVISIONS, 1935 and 1929; AND FOR STATES, 1935

[This table covers all establishments which reported plant-food content. Statistics are given for each State for which separate figures can be presented without disclosing, exactly or approximately, the data reported by individual establishments, and for the remaining States in groups. Certain States for which group figures are given are more important in the Fertilizer industry than some of those shown separately.]

GEOGRAPHIC DIVISION AND STATE	Census year	Quantity and percent for which plant-food content was reported		AVERAGE PERCENTAGE CONTENT OF—		
				Nitrogen as N	Phosphorus as P_2O_5	Potassium as K_2O
COMPLETE FERTILIZERS		*Short tons*	*Percent of total*			
UNITED STATES	1935	3,492,900	83.1	3.4	8.9	5.0
	1933	2,506,244	76.6	3.2	8.8	4.7
	1929	4,143,110	69.1	2.7	9.5	4.4
NEW ENGLAND DIVISION	1935	155,327	84.1	5.3	9.5	10.1
	1929	216,928	92.3	4.0	8.2	7.1
Connecticut, Rhode Island, and Vermont	1935	30,971	58.1	4.8	7.5	6.5
Maine	1935	46,224	94.4	5.5	10.4	11.6
Massachusetts	1935	78,132	94.7	5.4	9.8	10.7
MIDDLE ATLANTIC DIVISION	1935	328,133	84.2	3.8	9.2	6.7
	1929	348,538	82.0	2.9	9.2	6.0
New Jersey	1935	174,822	94.9	4.3	9.1	7.2
New York	1935	62,703	87.2	3.5	10.1	5.6
Pennsylvania	1935	90,608	67.9	3.2	8.8	6.5
EAST NORTH CENTRAL DIVISION	1935	434,319	80.2	2.0	11.8	4.9
	1929	480,988	71.1	1.9	12.5	5.1
Illinois	1935	58,601	55.0	2.7	11.5	6.0
Indiana	1935	80,277	89.4	2.2	12.2	5.8
Michigan	1935	33,675	74.5	2.3	11.5	5.6
Ohio	1935	261,766	90.8	1.8	11.8	4.2
SOUTH ATLANTIC DIVISION	1935	2,071,075	82.4	3.4	8.2	4.5
	1929	2,358,894	65.6	2.7	8.8	3.9
Delaware	1935	16,240	79.4	3.9	9.2	8.5
Florida	1935	246,480	80.9	4.1	7.4	5.5
Georgia	1935	461,872	84.2	3.3	8.4	4.0
Maryland	1935	313,354	79.8	3.3	9.0	6.0
North Carolina	1935	349,069	72.4	3.1	8.1	3.8
South Carolina	1935	271,676	86.2	3.5	8.0	3.7
Virginia	1935	412,384	92.0	3.3	8.1	4.0
EAST AND WEST SOUTH CENTRAL DIVISIONS	1935	458,763	90.5	3.6	8.5	4.8
	1929	701,472	72.8	2.9	10.0	4.4
Alabama	1935	186,054	96.4	3.4	8.4	4.5
Arkansas	1935	9,291	80.1	4.0	8.4	5.2
Kentucky	1935	24,314	63.0	2.5	10.8	5.4
Louisiana	1935	79,871	100.0	4.1	9.1	4.5
Mississippi	1935	60,918	77.4	4.0	8.2	4.0
Tennessee	1935	79,134	99.9	3.1	7.3	6.4
Texas	1935	19,181	73.3	4.4	9.8	4.8
PACIFIC DIVISION	1935	45,283	70.0	6.4	9.2	5.8
	1929	36,290	37.1	4.7	8.1	3.7
California	1935	39,553	73.9	6.7	9.4	5.5
Washington	1935	5,730	56.1	4.5	8.1	8.0

TABLE 6.—PLANT-FOOD CONTENT OF COMPLETE FERTILIZERS AND OF POTASH SUPERPHOSPHATE, FOR THE UNITED STATES, 1935, 1933, AND 1929; FOR GEOGRAPHIC DIVISIONS, 1935 AND 1929; AND FOR STATES, 1935—Continued

[See note at head of table]

GEOGRAPHIC DIVISION AND STATE	Census year	Quantity and percent for which plant-food content was reported		AVERAGE PERCENTAGE CONTENT OF—	
				Phosphorous as P_2O_5	Potassium as K_2O
POTASH SUPERPHOSPHATE		*Short tons*	*Percent of total*		
UNITED STATES	1935	131,084	92.3	11.5	7.0
	1933	63,961	73.6	11.3	7.6
	1929	166,658	78.9	12.1	7.6
NEW ENGLAND AND MIDDLE ATLANTIC DIVISIONS	1935	4,114	89.1	11.5	6.3
	1929	8,748	95.3	11.5	6.7
Massachusetts, New Jersey, and New York	1935	1,262	100.0	10.5	9.2
Pennsylvania	1935	2,852	85.1	12.0	5.0
EAST NORTH CENTRAL DIVISION	1935	44,271	84.6	12.8	10.1
	1929	85,868	88.4	12.8	10.0
Illinois	1935	7,097	69.4	11.9	15.4
Indiana	1935	12,304	99.1	12.6	10.0
Michigan	1935	1,121	29.3	11.9	17.5
Ohio	1935	23,749	91.8	13.2	8.3
SOUTH ATLANTIC DIVISION	1935	50,478	95.7	11.0	6.0
	1929	57,613	77.7	11.0	4.7
Delaware and Maryland	1935	17,180	92.5	12.0	5.8
Florida and Georgia	1935	6,857	97.3	10.3	5.3
North Carolina	1935	8,635	96.4	9.9	4.9
South Carolina	1935	2,130	90.6	10.0	4.1
Virginia and West Virginia	1935	15,676	99.1	11.1	7.4
EAST AND WEST SOUTH CENTRAL AND PACIFIC DIVISIONS	1935	32,221	99.5	10.4	4.5
	1929	14,429	46.8	11.9	5.1
Alabama and Arkansas	1935	1,001	100.0	12.0	4.0
California, Louisiana, and Texas	1935	5,069	99.9	11.8	4.6
Kentucky and Tennessee	1935	26,151	99.4	10.1	4.5

TABLE 7.—MATERIALS CONSUMED, BY KIND AND QUANTITY: 1935 AND 1929

KIND	TONS (2,000 POUNDS)	
	1935	1929
Used in manufacture of fertilizers:		
Sulphate of ammonia	304, 408	460, 505
Nitrate of soda	163, 118	240, 403
Calcium cyanamid	32, 406	77, 389
Cottonseed meal	49, 499	84, 762
Tankage (processed)	99, 965	
Tankage (animal) and dried blood	47, 863	221, 460
Tankage (garbage)	55, 441	
Fish scrap and meal	83, 883	149, 887
Guano (all kinds)	22, 568	40, 807
Bones, ground, steamed, etc	26, 002	45, 676
Superphosphates:		
Made and consumed in same establishments	[1] 1, 919, 579	[2] 1, 601, 685
Purchased and consumed	[1] 1, 078, 990	[3] 1, 368, 031
Muriate of potash	[4] 328, 881	228, 319
Sulphate of potash	51, 626	77, 043
Manure salts	[5] 178, 394	389, 884
Kainite	21, 416	81, 119
Other potash-bearing substances	45, 291	90, 497
Ammonia, anhydrous	13, 508	
Ammonia, aqua, basis 25 percent NH_3	38, 786	
Urea and calurea	13, 176	
Ammonium phosphate	28, 900	
Other inorganic nitrogenous materials	59, 575	916, 812
Sewage sludge	11, 182	
Other organic nitrogenous materials	78, 694	
Other materials containing plant food	218, 681	
Used in manufacture of sulphuric acid and superphosphates:		
Phosphate rock	1, 563, 747	2, 291, 037
Sulphuric acid purchased and used [6]	620, 972	922, 150
Sulphuric acid made and consumed: [6]		
Contact process	116, 827	1, 373, 033
Chamber process	982, 521	
Pyrites	206, 990	201, 394
Sulphur	225, 336	339, 088

[1] Basis 16 percent available phosphoric acid.
[2] Basis 20 percent or less available phosphoric acid.
[3] Comprises 1,320,694 tons, basis 20 percent or less available phosphoric acid, run of pile, and 47,337 tons, basis over 40 percent available phosphoric acid.
[4] Basis 50 percent K_2O.
[5] Basis 20 percent K_2O.
[6] Basis 50° Baumé.

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FIREWORKS AND ALLIED PRODUCTS

[A preliminary report for this industry was issued Dec. 16, 1936]

Description of the industry.—The Fireworks and Allied Products industry, as constituted for Manufactures Census purposes, embraces establishments engaged primarily in the manufacture of fireworks of all kinds, flares and fusees, railroad torpedoes, and fuses. Because of the reclassification into this industry of establishments manufacturing flares, fusees, and railroad torpedoes, formerly classified in the Ammunition and Related Products industry, the statistics for years prior to 1935 as given in this report differ from those previously published.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933 [1]	1931 [1]	1929 [1]	PERCENT OF INCREASE OR DECREASE (—)	
					1933–1935	1929–1935
Number of establishments	52	46	48	61	(*)	(*)
Proprietors and firm members	16	7	(2)	19	(*)	(*)
Salaried personnel, total [3]	273	(4)	(2)	281	(4)	−2.8
Salaried officers of corporations	67	(4)	(2)	66	(4)	(*)
Supervisory, technical, and clerical employees	[5] 206	[6] 167	(2)	215	23.4	−4.2
Salaries paid, total [3]	$752,234	(4)	(2)	$866,801	(4)	−13.2
To salaried officers of corporations	$340,028	(4)	(2)	$394,064	(4)	−13.7
To supervisory, technical, and clerical employees	[5] $412,206	[6] $302,377	(2)	$472,737	36.3	−12.8
Wage earners (average for year) [7]	1,588	1,420	1,887	2,448	11.8	−35.1
Wages	$1,309,493	$1,121,803	$1,661,277	$2,706,512	16.7	−51.6
Cost of materials, etc., total	$2,626,025	$2,045,512	$2,991,717	$5,036,178	28.4	−47.9
Cost of materials, supplies, and containers	$2,494,740	(2)	(2)	$4,864,741	(2)	−48.7
Cost of fuel	$78,304	(2)	(2)	$112,095	(2)	−30.1
Cost of purchased electric energy	$52,981	(2)	(2)	$59,342	(2)	−10.7
Value of products	$6,504,443	$5,978,817	$6,976,457	$11,651,785	8.8	−44.2
Value added by manufacture [8]	$3,878,418	$3,933,305	$3,984,740	$6,615,607	−1.4	−41.4

* Percent not computed where base is less than 100.
[1] Revised; see text.
[2] No data.
[3] No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.
[4] Data incomplete.
[5] Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 65; salaries, $193,109. Technical, 16; salaries, $48,112. Clerical, 125; salaries, $170,985. See sec. 10, p. 7.
[6] Supervisory, 64; salaries, $166,584. Clerical and other, 103; salaries, $135,793. See sec. 10, p. 7.
[7] See sec. 11, p. 7.
[8] Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 3 and 8, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, containers, fuel, and purchased energy	Value of products	Value added by manufacture
United States	52	273	1,588	$752,234	$1,309,493	$2,626,025	$6,504,443	$3,878,418
Illinois	4	25	55	75,218	46,665	111,563	268,089	156,526
Maryland	3	29	398	66,772	213,786	345,313	812,974	467,661
New Jersey	5	19	157	49,006	140,503	244,877	645,629	400,752
Ohio	7	10	92	29,847	64,385	113,302	435,093	321,791
Pennsylvania	8	21	138	36,558	97,313	137,064	419,310	282,246
Other States [1]	25	169	748	494,833	746,841	1,673,906	3,923,348	2,249,442

[1] California, 6 establishments; Colorado, 1; Connecticut, 4; Indiana, 1; Iowa, 1; Massachusetts, 3; Michigan, 1; Missouri, 1; Nebraska, 1; New York, 4; Virginia, 1; Washington, 1.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year[1]	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States													
1935	1,587	1,298	1,536	1,892	2,033	2,128	2,002	1,058	1,155	1,246	1,549	1,672	1,473
1933	1,420	1,364	1,517	1,271	1,255	1,732	1,768	1,024	1,176	1,440	1,579	1,538	1,380
States, 1935													
California	61	59	59	59	59	63	68	58	53	56	57	69	75
Illinois	55	44	47	49	52	59	64	63	56	58	55	56	55
Maryland	398	314	394	518	585	600	553	150	206	266	372	436	382
Massachusetts	174	59	128	218	266	282	292	100	112	94	206	215	118
New Jersey	157	118	164	201	204	223	153	101	104	134	169	167	148
New York	98	94	103	120	128	132	145	27	101	61	92	93	85
Ohio	92	83	104	131	126	117	121	63	65	75	75	72	71
Pennsylvania	138	146	140	152	137	140	148	144	114	144	131	139	118

[1] As the 1935 average given in this table is derived from the figures for the 12 months in the calendar year, it differs somewhat from the corresponding average in table 2, which is derived in part from the figures for months in fiscal years differing from the calendar year. See sec. 11, p. 7.

TABLE 4.—PRODUCTS, BY KIND AND VALUE: 1935

[No detailed production figures for earlier years are available.

KIND	Value
1. Fireworks and Allied Products industry, all products, total value	$6,504,443
2. Fireworks and allied products	6,425,188
3. Other products (not normally belonging to the industry)	79,255
4. Fireworks and allied products made as secondary products in other industries, value	26,414
Fireworks and allied products, aggregate value (sum of 2 and 4)	6,451,602
Fireworks, total	2,845,205
Novelty	1,172,237
Display	612,642
Other fireworks	1,060,326
Flares or fusees (highway, railroad, etc.)	875,051
Railroad torpedoes	288,796
Safety fuses, miners' squibs, etc	2,442,550

GLUE AND GELATIN

[A preliminary report for this industry was issued Dec. 21, 1936]

Description of the industry.—This industry, as constituted for Manufactures Census purposes, embraces establishments engaged primarily in the manufacture of glues from vegetable and animal materials, including casein, and of edible and inedible gelatin.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (−)	
					1933–1935	1929–1935
Number of establishments	74	63	72	74	(*)	--------
Proprietors and firm members	15	8	(1)	14	(*)	(*)
Salaried personnel, total [2]	655	(3)	(1)	545	(3)	20.2
Salaried officers of corporations	92	(3)	(1)	86	(3)	(*)
Supervisory, technical, and clerical employees	[4] 563	[5] 431	(1)	459	30.6	22.7
Salaries paid, total [2]	$1,661,966	(3)	(1)	$1,658,419	(3)	0.2
To salaried officers of corporations	$611,868	(3)	(1)	$732,270	(3)	−16.4
To supervisory, technical, and clerical employees	[4] $1,050,098	[5] $814,640	(1)	$926,149	28.9	13.4
Wage earners (average for year) [6]	3,253	2,013	2,559	2,993	61.6	8.7
Wages	$3,534,418	$2,032,873	$3,325,312	$4,236,092	73.9	−16.6
Cost of materials, etc., total	15,076,298	8,328,468	15,460,384	18,978,027	81.0	−20.6
Cost of materials, supplies, and containers	13,530,888	(1)	(1)	17,448,905	(1)	−22.5
Cost of fuel	1,380,379	(1)	(1)	1,381,663	(1)	−.1
Cost of purchased electric energy	165,031	(1)	(1)	147,459	(1)	11.9
Value of products	28,161,033	17,162,712	27,515,739	32,458,019	64.1	−13.2
Value added by manufacture [7]	13,084,735	8,834,244	12,055,355	13,479,992	48.1	−2.9

* Percent not computed where base is less than 100.

[1] No data.

[2] No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

[3] Data incomplete.

[4] Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 166; salaries, $474,722. Technical, 100; salaries, $212,407. Clerical, 297; salaries, $362,969. See sec. 10, p. 7.

[5] Supervisory, 141; salaries, $443,729. Clerical and other, 290; salaries, $370,911. See sec. 10, p. 7.

[6] See sec. 11, p. 7.

[7] Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 18, p. 11.

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TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, containers, fuel, and purchased energy	Value of products	Value added by manufacture
United States	74	655	3,253	$1,661,966	$3,534,418	$15,076,298	$28,161,033	$13,084,735
Illinois	17	173	749	401,299	854,311	3,828,174	6,588,828	2,760,654
Massachusetts	10	138	863	499,130	1,015,246	3,653,053	6,470,713	2,817,660
New York	11	80	537	194,346	558,300	3,105,619	5,683,717	2,578,098
Pennsylvania	8	85	337	177,381	322,324	1,227,174	2,372,650	1,145,476
Washington	4	46	57	96,934	73,843	401,424	777,373	375,949
Other States [1]	24	133	711	292,876	710,394	2,860,854	6,267,752	3,406,898

[1] California, 5 establishments; Connecticut, 1; Indiana, 2; Maryland, 1; Michigan, 2; Minnesota, 1; Missouri, 3; New Jersey, 5; Ohio, 1; Vermont, 1; Virginia, 1; Wisconsin, 1.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 12, pp. 7 and 12]

	Average number employed during year [1]	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States													
1935	3,250	3,221	3,290	3,303	3,309	3,278	3,229	3,097	3,001	3,128	3,304	3,375	3,467
1933	2,013	2,032	1,989	1,985	1,857	1,828	1,831	1,658	1,837	2,008	2,265	2,361	2,500
States, 1935													
California	120	109	110	104	108	127	133	130	129	133	117	121	119
Illinois	746	763	754	769	764	740	714	674	652	698	781	819	825
Massachusetts	863	866	920	865	845	850	848	856	782	868	878	883	894
Missouri	13	12	12	12	12	12	12	14	13	14	14	14	14
New Jersey	149	150	150	148	148	148	149	138	152	154	148	153	151
New York	537	517	547	545	559	556	560	513	506	508	532	547	555
Pennsylvania	337	357	361	351	352	347	329	289	279	285	363	360	370
Washington	57	35	42	52	66	66	52	55	65	60	62	64	61

[1] As the 1935 averages given in this table are derived from the figures for the 12 months in the calendar year, they differ slightly from the corresponding averages in table 2, which are derived in part from figures for months in fiscal years differing from the calendar year. See sec. 11, p. 7.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE: 1935, 1931, AND 1929

[No detailed production data were collected for 1933]

	1935	1931	1929
1. Glue and Gelatin industry, all products, total value [1]	$28, 161, 033	$27, 515, 739	$32, 458, 019
2. Glue and gelatin [1]	22, 155, 971	23, 949, 069	26, 863, 540
3. Other products (not normally belonging to the industry)	6, 005, 062	3, 566, 670	5, 594, 479
4. Glue and gelatin made as secondary products in other industries, value	3, 288, 529	[2] 3, 842, 588	[2] 5, 783, 583
Glue and gelatin, aggregate value (sum of 2 and 4) [1]	$25, 444, 500	[2] $27, 791, 657	[2] $32, 647, 123
Glue:			
Animal:			
Pounds	90, 283, 081	89, 400, 156	106, 380, 612
Value	$9, 215, 364	$13, 385, 282	$15, 141, 433
Vegetable:			
Pounds	126, 792, 581	102, 511, 167	133, 152, 385
Value	$5, 204, 473	$4, 067, 468	$6, 141, 686
Casein:			
Pounds	5, 873, 943	[2] 4, 787, 000	[2] 6, 760, 000
Value	$668, 282	[2] $468, 000	[2] $876, 000
Flexible and fish: [3]			
Pounds	13, 790, 191	10, 236, 507	10, 281, 013
Value	$2, 157, 673	$2, 057, 681	$2, 430, 519
Gelatin:			
Edible:			
Pounds	20, 907, 453	15, 199, 452	18, 423, 304
Value	$6, 914, 685	$5, 980, 469	$7, 514, 488
Inedible:			
Pounds	2, 922, 872	3, 150, 199	1, 712, 799
Value	$1, 284, 023	$1, 832, 757	$542, 997

[1] Includes an indeterminate amount of duplication due to the use of animal and vegetable glue in the manufacture of flexible glue.
[2] Revised; estimated in part.
[3] Figures combined to avoid disclosing approximations of the output of individual manufacturers of fish glue.

GREASE AND TALLOW, NOT INCLUDING LUBRICATING GREASES

[A preliminary report for this industry was issued Dec. 3, 1936]

Description of the industry.—The Grease and Tallow industry, as classified for Census purposes, embraces establishments engaged primarily in rendering grease and soap stock, chiefly from animal fat, bones, meat scrap, etc., and in rendering tallow from fat. Grease and tallow are also made in large quantities as secondary products by establishments in other industries, principally Meat Packing.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (—)	
					1933–1935	1929–1935
Number of establishments	260	201	238	297	29.4	—12.5
Proprietors and firm members	162	114	(1)	177	42.1	—8.5
Salaried personnel, total [2]	960	(3)	(1)	959	(3)	0.1
Salaried officers of corporations	205	(3)	(1)	193	(3)	6.2
Supervisory, technical, and clerical employees	[4] 755	[5] 694	(1)	766	8.8	—1.4
Salaries paid, total [2]	$2,360,997	(3)	(1)	$2,615,255	(3)	—9.7
To salaried officers of corporations	$1,025,443	(3)	(1)	$910,053	(3)	12.7
To supervisory, technical, and clerical employees	[4] $1,335,554	[5] $1,156,595	(1)	$1,705,202	15.5	—21.7
Wage earners (average for year) [6]	4,784	3,988	4,067	5,475	20.0	—12.6
Wages	$5,418,697	$4,098,663	$5,224,902	$7,862,149	32.2	—31.1
Cost of materials, etc., total	27,304,982	14,141,142	17,532,576	40,142,447	93.1	—32.0
Cost of materials, supplies, and containers	25,505,237	(1)	(1)	38,103,480	(1)	—33.1
Cost of fuel	1,283,124	(1)	(1)	1,588,228	(1)	—19.2
Cost of purchased electric energy	516,621	(1)	(1)	450,739	(1)	14.6
Value of products	45,207,296	26,238,320	29,240,848	61,607,990	72.3	—26.6
Value added by manufacture [7]	17,902,314	12,097,178	11,708,272	21,465,543	48.0	—16.6

[1] No data.
[2] No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.
[3] Data incomplete.
[4] Supervisory, technical, and clerical employes reported separately for 1935 only, as follows: Supervisory, 259; salaries, $654,761. Technical, 26; salaries, $61,478. Clerical, 470; salaries, $619,315. See sec. 10, p. 7.
[5] Supervisory, 215; salaries, $526,007. Clerical and other, 479; salaries, $630,588. See sec. 10, p. 7.
[6] See sec. 11, p. 7.
[7] Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, containers, fuel, and purchased energy	Value of products	Value added by manufacture
United States	260	960	4,784	$2,360,997	$5,418,697	$27,304,982	$45,207,296	$17,902,314
California	19	41	332	125,672	440,201	1,877,352	3,073,839	1,196,487
Colorado	5	9	47	26,043	51,832	143,858	289,724	145,866
Illinois	14	173	584	346,927	760,311	2,728,693	5,507,988	2,779,295
Indiana	14	16	108	47,751	98,548	194,620	621,060	426,440
Iowa	20	25	148	45,021	171,236	364,714	944,494	579,780
Maryland	5	8	55	21,922	59,785	284,579	421,031	136,452
Massachusetts	14	67	432	149,010	487,090	2,211,643	3,617,480	1,405,837
Michigan	10	48	321	154,141	395,918	919,748	1,998,470	1,078,722
Minnesota	8	13	29	50,127	28,136	93,537	275,070	181,533
Missouri	3	2	12	3,542	15,418	50,553	110,535	59,982
Nebraska	5	7	44	13,406	47,576	72,956	277,379	204,423
New York	23	165	754	380,432	857,267	3,579,943	6,195,366	2,615,423
Ohio	26	90	459	214,355	449,237	2,081,847	3,548,164	1,466,317
Pennsylvania	32	97	533	232,867	590,665	2,017,348	3,778,448	1,761,100
Virginia	6	31	177	106,585	129,974	782,139	1,206,637	424,498
Wisconsin	14	26	107	66,616	121,929	739,845	1,294,542	554,697
Other States [1]	42	142	640	376,580	713,574	9,161,607	12,047,069	2,885,462

[1] Connecticut, 2 establishments; Delaware, 2; District of Columbia, 1; Florida, 1; Georgia, 1; Idaho, 1; Kansas, 2; Kentucky, 3; Maine, 1; New Hampshire, 1; New Jersey, 16; Oregon, 1; Rhode Island, 3; South Dakota, 2; Tennessee, 1; Texas, 2; Vermont, 1; Washington, 1.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year [1]	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States													
1935	4,739	4,874	4,812	4,828	4,877	4,838	4,788	4,699	4,691	4,599	4,657	4,578	4,626
1933	3,988	(*)	(*)	3,691	(*)	(*)	3,914	(*)	(*)	4,280	(*)	(*)	4,272
States, 1935													
California	332	364	351	342	334	332	338	337	321	317	315	312	321
Colorado	47	46	46	46	44	47	47	44	47	47	52	50	51
Illinois	575	648	647	612	595	629	612	548	535	517	519	520	522
Indiana	108	115	102	101	103	107	108	110	111	110	111	110	112
Iowa	148	131	130	144	152	154	154	153	153	151	152	153	148
Kentucky	36	34	33	36	32	35	36	35	37	38	39	37	38
Maryland	55	55	55	55	55	54	55	54	55	56	56	56	56
Massachusetts	422	446	438	434	425	426	427	419	421	409	410	403	410
Michigan	321	310	314	319	327	315	324	316	324	318	334	323	329
Minnesota	29	28	27	26	26	26	26	26	30	31	33	33	33
Missouri	12	12	12	12	12	12	12	12	12	12	12	12	12
Nebraska	44	45	39	43	45	46	45	45	43	44	48	45	44
New Jersey	289	297	290	291	302	292	298	292	282	278	280	282	283
New York	750	758	738	739	765	771	789	761	744	736	732	728	740
Ohio	459	444	458	454	469	472	468	457	482	452	460	453	443
Pennsylvania	533	525	527	578	596	570	510	512	519	515	521	505	519
Rhode Island	32	34	32	32	31	31	30	31	32	32	32	32	32
Virginia	166	223	211	204	199	141	126	163	138	144	154	144	147
Wisconsin	107	110	109	109	107	105	105	98	110	110	114	105	105

* Data incomplete. See last sentence, second paragraph, sec. 11, p. 7.

[1] As the 1935 averages given in this table are derived from the figures for the 12 months in the calendar year, they differ somewhat from the corresponding averages in table 2, which are derived in part from figures for months in fiscal years differing from the calendar year. See sec. 11, p. 7.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE: 1935, 1931, AND 1929

[No comparable figures available for 1933]

	1935	1931	1929
1. "Grease and Tallow, Not Including Lubricating Greases" industry, all products, total value	$45,207,296	$29,240,848	$61,607,990
2. Grease (including soap stock):			
Pounds	97,046,266	(1)	(1)
Value	$5,144,264	$3,498,952	$7,928,725
3. Tallow, total:			
Pounds	255,316,011	(1)	(1)
Value	$16,083,727	$12,048,009	$24,689,800
Edible:			
Pounds	2,498,320	(1)	(1)
Value	$190,912		
Inedible:			
Pounds	252,817,691		
Value	$15,892,815		
4. Other products (not normally belonging to the industry), value	$23,979,305	$13,693,887	$28,989,465
5. Grease and tallow made as secondary products in other industries (principally Meat Packing), total value	$29,635,279	$17,027,474	$35,253,924
6. Grease (including soap stock), total value	$13,796,434	$7,478,785	$18,364,159
Quantity reported:			
Pounds	201,344,728	(1)	(1)
Value	$10,853,437		
Quantity not reported:			
Value	$2,942,997		
7. Tallow, total:			
Pounds	260,426,309	(1)	(1)
Value	$15,838,845	$9,548,689	$16,889,765
Edible:			
Pounds	71,636,934	(1)	(1)
Value	$4,723,654		
Inedible:			
Pounds	188,789,375		
Value	$11,115,191		
Grease and tallow, aggregate value (sum of 2, 3, and 5)	$50,863,270	$32,574,435	$67,872,449
Grease (including soap stock):			
Total value (sum of 2 and 6)	$18,940,698	$10,977,737	$26,292,884
Quantity reported:			
Pounds	298,390,994	(1)	(1)
Value	$15,997,701		
Quantity not reported:			
Value	$2,942,997		
Tallow, total (sum of 3 and 7):			
Pounds	515,742,320	(1)	(1)
Value	$31,922,572	$21,596,698	$41,579,565
Edible:			
Pounds	74,135,254	(1)	(1)
Value	$4,914,566		
Inedible:			
Pounds	441,607,066		
Value	$27,008,006		

[1] No data.

INK, PRINTING

[A preliminary report for this industry was issued Dec. 17, 1936]

Description of the industry.—This industry embraces establishments engaged primarily in the production of printing inks of various colors, gold and bronze inks, and lithographing inks.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (—)	
					1933–1935	1929–1935
Number of establishments	191	160	171	147	19.4	29.9
Proprietors and firm members	36	32	(1)	36	(*)	-------
Salaried personnel, total [2]	976	(3)	(1)	1,113	(3)	—12.3
Salaried officers of corporations	189	(3)	(1)	193	(3)	—2.1
Supervisory, technical, and clerical employees	[4] 787	[5] 625	(1)	920	25.9	—14.5
Salaries paid, total [2]	$2,889,160	(3)	(1)	$4,311,804	(3)	—33.0
To salaried officers of corporations	$1,135,937	(3)	(1)	$1,894,141	(3)	—40.0
To supervisory, technical, and clerical employees	[4] $1,753,223	[5] $1,430,632	(1)	$2,417,663	22.5	—27.5
Wage earners (average for year) [6]	2,370	2,094	2,247	2,448	13.2	—3.2
Wages	$3,234,361	$2,663,369	$3,479,344	$3,957,185	21.4	—18.3
Cost of materials, etc., total	18,594,167	12,603,500	14,532,021	19,204,715	47.5	—3.2
Cost of materials, supplies, and containers	17,987,807	(1)	(1)	18,543,595	(1)	—3.0
Cost of fuel	145,424	(1)	(1)	267,708	(1)	—45.7
Cost of purchased electric energy	460,936	(1)	(1)	393,412	(1)	17.2
Value of products	34,534,951	26,166,304	32,188,398	42,749,992	32.0	—19.2
Value added by manufacture [7]	15,940,784	13,562,804	17,656,377	23,545,277	17.5	—32.3

*Percent not computed where base is less than 100.
[1] No data.
[2] No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.
[3] Data incomplete.
[4] Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory 171; salaries, $744,064. Technical, 168; salaries, $421,932. Clerical, 448; salaries, $587,227. See sec. 10, p. 7.
[5] Supervisory, 208; salaries, $830,148. Clerical and other, 417; salaries, $600,484. See sec. 10, p. 7.
[6] See sec. 11, p. 7.
[7] Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, containers, fuel, and purchased energy	Value of products	Value added by manufacture
United States	191	976	2,370	$2,889,160	$3,234,361	$18,594,167	$34,534,951	$15,940,784
California	9	46	166	153,662	214,503	1,091,639	1,705,833	614,194
Illinois	33	158	378	417,546	490,994	4,008,930	7,192,058	3,183,128
Massachusetts	7	32	107	73,851	131,985	950,985	1,318,416	367,431
Michigan	8	56	99	181,765	120,612	825,741	1,931,665	1,105,924
Missouri	11	32	71	91,115	93,730	483,768	939,632	455,864
New Jersey	14	76	159	215,888	225,170	1,401,659	2,813,656	1,411,997
New York	48	330	775	1,047,223	1,152,396	5,682,564	10,921,368	5,238,804
Ohio	18	69	176	230,443	253,801	1,015,470	2,175,735	1,160,265
Pennsylvania	16	102	309	305,854	371,095	2,091,710	3,617,247	1,525,537
Tennessee	3	6	5	7,105	6,118	36,667	66,204	29,537
Wisconsin	4	18	30	43,326	38,352	329,586	524,374	194,788
Other States [1]	20	51	94	121,382	135,605	675,448	1,328,763	653,315

[1] Colorado, 1 establishment; District of Columbia, 1; Georgia, 1; Indiana, 2; Iowa, 1; Louisiana, 3; Maryland, 2; Minnesota, 2; New Hampshire, 1; Oregon, 1; Texas, 3; Virginia, 2.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year [1]	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States													
1935	2,387	2,286	2,338	2,366	2,374	2,370	2,400	2,393	2,413	2,440	2,429	2,420	2,419
1933	2,094	(*)	(*)	1,941	(*)	(*)	1,980	(*)	(*)	2,258	(*)	(*)	2,252
States, 1935													
California	166	153	157	161	164	169	175	177	170	168	166	167	165
Illinois	378	365	376	372	376	375	380	377	382	388	379	382	385
Louisiana	11	11	11	11	12	11	10	11	10	11	10	10	11
Massachusetts	107	107	106	107	106	106	107	107	106	106	105	107	109
Michigan	99	88	91	98	102	102	102	102	101	98	100	99	99
Missouri	71	69	71	69	71	70	70	71	73	71	71	71	73
New Jersey	159	140	143	144	142	140	143	139	175	181	185	189	192
New York	793	772	791	812	801	803	810	810	786	806	802	771	751
Ohio	176	171	175	172	177	172	177	172	181	179	181	180	180
Pennsylvania	309	296	300	306	307	305	307	307	308	310	308	324	333
Tennessee	5	5	5	5	6	6	6	6	5	5	5	5	5
Texas	14	13	14	14	14	14	14	15	15	14	13	13	13
Wisconsin	30	27	28	29	30	30	30	30	30	30	31	30	30

*Data incomplete. See last sentence, second paragraph, sec. 11. p. 7.

[1] As the 1935 averages given in this table are derived from the figures for the 12 months in the calendar year, they differ somewhat from the corresponding averages in table 2, which are derived in part from figures for months in fiscal years differing from the calendar year. See sec. 11, p. 7.

TABLE 4.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1935, 1931, AND 1929

[No data available for 1933. See sec. 4, p. 3]

	1935	1931	1929
1. Printing Ink industry, all products, total value	$34, 534, 951	$32, 188, 398	$42, 749, 992
2. Printing and lithographing inks (finished):			
Pounds	148, 913, 601	(1)	(1)
Value	$32, 151, 519	$31, 150, 608	$40, 698, 391
3. Other products, including base inks (not normally belonging to the industry), value	$2, 383, 432	$1, 037, 790	$2, 051, 601
4. Printing and lithographing inks made as secondary products in other industries:			
Pounds	1, 671, 427	(1)	(1)
Value	$409, 805	$1, 179, 168	$932, 095
Printing and lithographing inks (finished), total (sum of 2 and 4):			
Pounds	150, 585, 028	(1)	(1)
Value	$32, 561, 324	$32, 329, 776	$41, 630, 486

[1] No data.

INK, WRITING

[A preliminary report for this industry was issued Jan. 29, 1937]

Description of the industry.—This industry classification covers establishments whose principal products are writing inks and fluids. Writing ink is made also to a considerable extent as a secondary product by establishments engaged primarily in the manufacture of other commodities. (See second sentence, footnote 8, table 1, below.)

Omission of State statistics except for wage-earner employment.—No figures for wages, cost of materials, value of products, and value added by manufacture can be given for any State without disclosing approximations of data for individual establishments. In table 2, however, figures are given for Massachusetts and New York.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (—)	
					1933–1935	1929–1935
Number of establishments	[1] 22	22	23	29	----------	(*)
Proprietors and firm members	10	9	(2)	14	(*)	(*)
Salaried personnel, total [3]	141	(4)	(2)	326	(4)	−56.7
Salaried officers of corporations	25	(4)	(2)	37	(4)	(*)
Supervisory, technical, and clerical employees	[5] 116	[6] 179	(2)	289	−35.2	−59.9
Salaries paid, total [3]	$330,132	(4)	(2)	$635,736	(4)	−48.1
To salaried officers of corporations	$119,064	(4)	(2)	$214,266	(4)	−44.4
To supervisory, technical, and clerical employees	[5] $211,068	[6] $234,356	(2)	$421,470	−9.9	−49.9
Wage earners (average for year) [7]	377	355	347	416	6.2	−9.4
Wages	$379,506	$321,281	$362,999	$479,995	18.1	−20.9
Cost of materials, etc., total	1,414,541	1,226,495	1,462,621	1,992,573	15.3	−29.0
Cost of materials, supplies, and containers	1,390,577	(2)	(2)	1,958,837	(2)	−29.0
Cost of fuel	16,793	(2)	(2)	22,508	(2)	−25.4
Cost of purchased electric energy	7,171	(2)	(2)	11,228	(2)	−36.1
Value of products [8]	3,381,907	2,522,118	3,535,121	4,594,974	34.1	−26.4
Value added by manufacture [9]	1,967,366	1,295,623	2,072,500	2,602,401	51.8	−24.4

* Percent not computed where base is less than 100.

[1] California, 1 establishment; Illinois, 2; Indiana, 1; Massachusetts, 3; Michigan, 1; Missouri, 2; New York, 8; Pennsylvania, 3; Washington, 1.

[2] No data.

[3] No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

[4] Data incomplete.

[5] Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 16; salaries, $51,847. Technical, 9; salaries, $44,024. Clerical, 91; salaries, $115,197. See sec. 10, p. 7.

[6] Supervisory, 26; salaries, $81,366. Clerical and other, 153; salaries, $152,990. See sec. 10, p. 7.

[7] See sec. 11, p. 7.

[8] Includes values of commodities other than writing ink, made as secondary products by establishments in this industry, as follows: 1935, $1,291,114; 1933, no data; 1931, $1,644,098; 1929, $1,673,588. Does not include following values of writing inks made as secondary products by establishments classified in other industries: 1935, $1,554,981; 1933, no data; 1931, $1,650,649; 1929, $1,748,602. The total values of writing inks made in all industries were as follows: 1935, $3,645,774; 1933, no data; 1931, $3,541,672; 1929, $4,669,988.

[9] Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States													
1935	377	363	365	376	387	384	382	380	383	387	375	374	368
1933	355	296	295	290	303	291	315	400	471	445	437	365	356
States, 1935													
Massachusetts	139	129	130	138	139	140	136	139	138	145	143	146	145
New York	128	130	129	130	137	131	130	123	125	123	125	124	123

INSECTICIDES AND FUNGICIDES, AND INDUSTRIAL AND HOUSEHOLD CHEMICAL COMPOUNDS NOT ELSEWHERE CLASSIFIED

[A preliminary report for this industry was issued Feb. 25, 1937]

Description of the industry.—This industry, as now constituted for Manufactures Census purposes, is a part of that formerly designated as "Patent or Proprietary Medicines and Compounds," and embraces establishments engaged primarily in the manufacture of chemical preparations for industrial, agricultural, and household use. It does not cover the manufacture of proprietary medicines nor of cosmetics and other toilet preparations, which are assigned to other industry classifications, namely, "Drugs and Medicines" and "Perfumes, Cosmetics, and Other Toilet Preparations."

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (−)	
					1933–1935	1929–1935
Number of establishments	546	380	498	585	43.7	−6.7
Proprietors and firm members	164	111	(1)	158	47.7	3.8
Salaried personnel, total [2]	1,984	(3)	(1)	2,374	(3)	−16.4
Salaried officers of corporations	519	(3)	(1)	(4)	(3)	(4)
Supervisory, technical, and clerical employees	[5] 1,465	[6] 1,156	(1)	(4)	26.7	(4)
Salaries paid, total [2]	$4,555,279	(3)	(1)	$6,814,988	(3)	−33.2
To salaried officers of corporations	$2,305,940	(3)	(1)	(4)	(3)	(4)
To supervisory, technical, and clerical employees	[5] $2,249,339	[6] $1,883,214	(1)	(4)	19.4	(4)
Wage earners (average for year) [7]	3,466	1,977	2,650	3,281	75.3	5.6
Wages	$3,401,387	$1,856,430	$3,015,282	$4,109,195	83.2	−17.2
Cost of materials, etc., total	24,343,531	11,210,546	20,639,647	26,035,948	117.1	−6.5
Cost of materials, supplies, and containers	23,823,283	(1)	(1)	25,526,604	(1)	−6.7
Cost of fuel	312,692	(1)	(1)	298,085	(1)	4.9
Cost of purchased electric energy	207,556	(1)	(1)	211,259	(1)	−1.8
Value of products	53,429,197	27,908,314	54,756,260	66,725,759	91.4	−19.9
Value added by manufacture [8]	29,085,666	16,697,768	34,116,613	40,689,811	74.2	−28.5

[1] No data.
[2] No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.
[3] Data incomplete.
[4] Not available because of change in classification. See "Description of the industry," above.
[5] Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 248; salaries, $751,428. Technical, 161; salaries, $338,640. Clerical, 1,056; alaries, $1,159,271. See sec. 10, p. 7.
[6] Supervisory, 475; salaries, $1,026,380. Clerical and other, 681; salaries, $856,834. See sec. 10, p. 7.
[7] See sec. 11, p. 7.
[8] Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 8, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, containers, fuel, and purchased energy	Value of products	Value added by manufacture
United States	546	1,984	3,466	$4,555,279	$3,401,387	$24,343,531	$53,429,197	$29,085,666
California	52	118	284	250,956	299,076	2,300,825	3,932,261	1,631,436
Colorado	5	8	8	11,713	6,930	29,628	79,983	50,355
Connecticut	8	44	32	99,010	39,560	190,086	588,661	398,575
Florida	11	26	64	39,388	47,038	270,822	522,779	251,957
Georgia	10	43	67	109,963	53,120	313,942	817,242	503,300
Illinois	61	380	645	937,097	598,740	5,142,795	11,162,933	6,020,138
Indiana	6	22	36	60,996	35,150	229,597	853,278	623,681
Iowa	4	7	10	12,718	7,133	52,243	122,171	69,928
Louisiana	4	9	12	9,780	9,687	21,971	60,225	38,254
Maryland	13	63	150	145,441	97,354	1,056,490	2,009,876	953,386
Massachusetts	21	57	83	109,137	85,912	456,089	995,640	539,551
Michigan	22	80	146	172,341	127,128	939,446	3,136,288	2,196,842
Missouri	27	100	121	239,499	117,045	983,854	2,357,825	1,373,971
Nebraska	5	6	15	8,228	11,947	29,933	105,457	75,524
New Jersey	46	207	558	538,119	646,613	3,817,568	8,034,726	4,217,158
New York	82	334	428	781,483	469,461	3,893,106	8,391,016	4,497,910
Ohio	36	119	110	273,132	121,769	842,523	2,074,401	1,231,878
Oregon	5	6	16	6,546	8,995	45,956	74,753	28,797
Pennsylvania	40	124	221	269,124	221,807	1,018,599	2,652,740	1,634,141
Tennessee	8	31	94	77,849	64,977	624,010	1,223,298	599,288
Texas	11	31	35	58,407	23,864	174,899	446,959	272,060
Virginia	5	10	22	23,228	16,798	74,862	180,310	105,448
Washington	12	12	22	25,611	20,652	143,751	238,419	94,668
Wisconsin	9	25	24	53,979	31,502	111,474	272,217	160,743
Other States [1]	43	122	263	241,534	239,129	1,579,062	3,095,739	1,516,677

[1] Alabama, 3 establishments; Arizona, 2; Arkansas, 2; Delaware, 1; Kentucky, 4; Maine 2; Minnesota, 12; New Hampshire, 1; North Carolina, 4; North Dakota, 1; Oklahoma, 3; South Carolina, 2; South Dakota, 1; Utah, 1; Vermont, 2; West Virginia, 2.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year [1]	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States													
1935	3,482	3,261	3,434	3,795	3,894	3,780	3,627	3,425	3,369	3,322	3,289	3,278	3,309
1933	1,977	(*)	(*)	1,949	(*)	(*)	2,109	(*)	(*)	1,998	(*)	(*)	1,950
States, 1935													
Alabama	9	8	8	9	9	9	9	9	9	9	8	8	8
California	284	275	313	290	318	341	288	254	253	276	265	264	267
Colorado	8	8	8	8	8	8	8	8	9	9	9	9	8
Connecticut	32	30	29	30	33	33	32	33	32	37	35	32	30
Florida	64	60	64	74	84	67	69	66	67	55	52	60	53
Georgia	67	58	58	93	88	83	76	75	69	48	54	56	51
Illinois	645	597	637	714	711	670	647	618	630	639	645	634	597
Indiana	36	37	37	38	36	34	33	37	40	36	31	37	39
Iowa	10	8	11	11	10	8	7	7	8	12	13	13	10
Kentucky	54	65	65	63	63	64	46	34	36	57	46	47	66
Louisiana	12	11	11	12	13	13	13	13	13	12	12	11	11
Maryland	150	134	149	174	165	178	177	162	147	126	116	136	137
Massachusetts	83	79	80	85	86	86	86	85	90	83	80	77	75
Michigan	149	137	144	176	200	185	173	147	132	116	119	117	141
Minnesota	64	62	63	63	64	64	64	64	64	63	67	65	61
Missouri	121	107	130	132	131	132	123	112	124	118	121	113	112
Nebraska	15	14	17	16	17	17	17	15	14	13	13	11	13
New Jersey	569	530	513	615	621	617	601	562	535	555	560	560	555
New York	429	421	427	448	446	449	444	430	428	411	405	412	422
North Carolina	21	21	21	21	21	21	21	21	21	22	22	22	24
Ohio	110	108	114	118	122	114	121	114	110	110	102	94	94
Oklahoma	9	8	8	8	8	8	8	8	8	11	11	11	11
Oregon	16	8	34	33	22	15	18	18	12	6	4	9	7
Pennsylvania	222	205	215	232	244	242	226	222	218	217	217	212	212
Tennessee	94	97	82	102	107	100	105	79	80	77	90	98	108
Texas	35	29	32	37	38	37	34	42	41	39	37	30	29
Virginia	22	10	17	23	28	29	24	24	24	24	21	17	18
Washington	22	15	33	45	72	21	13	13	11	11	11	10	10
Wisconsin	24	23	23	24	24	24	26	27	27	25	24	23	23

*Data incomplete. See last sentence, second paragraph, sec. 11, p. 7.

[1] As the 1935 averages given in this table are derived from the figures for the 12 months in the calendar year, they differ somewhat from the corresponding averages in table 2, which are derived in part from figures for months in fiscal years differing from the calendar year. See sec. 11, p. 7.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE: 1935, 1931, AND 1929

[No comparable figures for 1933 are available. See sec. 4, p. 3]

	1935	1931	1929
1. "Insecticides and Fungicides, and Industrial and Household Chemical Compounds" industry, all products, total value	$53,429,197	$54,756,260	$66,725,759
2. Insecticides and fungicides, and industrial and household chemical compounds	48,255,746	46,686,121	58,340,519
3. Other products (not normally belonging to the industry)	5,173,451	8,070,139	8,385,240
4. Insecticides and fungicides, and industrial and household chemical compounds, made as secondary products in other industries, value	$20,986,102	$13,000,804	$22,198,140
Insecticides and fungicides, and industrial and household chemical compounds, aggregate value (2 and 4)	$69,241,848	$59,686,925	$80,538,659
Deodorants, other than for human use, value	$779,246	$1,500,541	$1,761,539
Disinfectants and insecticides, total value	$37,945,785	$34,875,236	$43,525,993
Disinfectants and insecticides reported by kind:			
Agricultural insecticides and fungicides, total value	$16,543,840	$13,749,090	$17,771,785
Calcium arsenate:			
Pounds	43,295,354	26,128,620	33,064,426
Value	$2,322,394	$1,279,789	$1,859,735
Lead arsenate:			
Pounds	52,145,851	37,974,038	30,682,379
Value	$4,173,462	$3,674,422	$3,523,427
Lime-sulphur, dry:			
Pounds	8,398,926	11,034,000	14,406,000
Value	$425,470	$564,482	$602,762
Lime-sulphur solution:			
Gallons	10,165,903	11,015,019	11,973,877
Value	$990,572	$1,265,863	$1,446,026
Paris green:			
Pounds	2,638,210		
Value	$489,427		
Other agricultural insecticides and fungicides, including nicotine sulphate and sulphur dust, value	$8,142,515	$6,964,534	$10,339,835
Household insecticides and repellants, total value	$13,302,727	$14,773,046	$15,077,107
Fly sprays:			
Pounds	21,188,424	32,359,219	36,685,374
Value	$5,722,930	$9,258,038	$9,322,578
Insect powder (Pyrethrum):			
Pounds	4,384,922	4,739,449	5,542,498
Value	$1,408,511	$1,850,647	$2,446,524
Fluoride powders and mixtures:			
Pounds	834,370	905,201	700,845
Value	$424,850	$415,615	$385,199
Moth repellants:			
Pounds	3,440,131	5,205,983	2,364,401
Value	$1,095,118	$1,550,958	$799,774
Household insecticides and repellants not reported by kind, value	$4,651,318	$1,697,788	$2,123,032
Disinfectants, value	$5,245,916	$5,411,502	$7,331,787
Disinfectants and insecticides not reported by kind, value	$2,853,302	$941,598	$3,345,314
Boiler compounds, value	$5,882,981	$3,386,537	$5,083,950
Other industrial and household chemical compounds, value [1]	$24,633,836	$19,924,611	$30,167,177

[1] Chemical compounds for waterproofing, insulating, metal-treating, and oil-treating, household tints and dyes, etc.

MUCILAGE, PASTE, AND OTHER ADHESIVES, EXCEPT GLUE AND RUBBER CEMENT

Description of the industry.—The principal products of establishments in this industry are mucilage, paste, mending cement, sealing wax, and other adhesives except glue and rubber cement.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (—)	
					1933–1935	1929–1935
Number of establishments	66	55	69	84	(*)	(*)
Proprietors and firm members	29	28	(1)	47	(*)	(*)
Salaried personnel, total [2]	209	(3)	(1)	237	(3)	—11.8
Salaried officers of corporations	71	(3)	(1)	72	(3)	(*)
Supervisory, technical, and clerical employees	[4] 138	[5] 114	(1)	165	21.1	—16.4
Salaries paid, total [2]	$452,314	(3)	(1)	$712,860	(3)	—36.5
To salaried officers of corporations	$244,230	(3)	(1)	$380,242	(3)	—35.8
To supervisory, technical, and clerical employees	[4] $208,084	[5] $167,765	(1)	$332,618	24.0	—37.4
Wage earners (average for year) [6]	267	213	282	414	25.4	—35.5
Wages	$288,569	$236,939	$350,145	$546,926	21.8	—47.2
Cost of materials, etc., total	1,646,165	1,294,528	1,888,790	3,668,707	27.2	—55.1
Cost of materials, supplies, and containers	1,571,788	(1)	(1)	3,581,035	(1)	—56.1
Cost of fuel	39,028	(1)	(1)	51,137	(1)	—23.7
Cost of purchased electric energy	35,349	(1)	(1)	36,535	(1)	—3.2
Value of products [7]	3,632,601	2,478,485	3,620,783	6,638,387	46.6	—45.3
Value added by manufacture [8]	1,986,436	1,183,957	1,731,993	2,969,680	67.8	—33.1

* Percent not computed where base is less than 100.

[1] No data.

[2] No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

[3] Data incomplete.

[4] Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 22; salaries, $61,336. Technical, 17; salaries, $26,558. Clerical, 99; salaries, $120,190. See sec. 10, p. 7.

[5] Supervisory, 30; salaries, $69,406. Clerical and other, 84; salaries, $98,359. See sec. 10, p. 7.

[6] See sec. 11, p. 7.

[7] Includes values of commodities other than mucilage, paste, and other adhesives, made as secondary products by establishments in this industry, as follows: 1935, $296,851; 1933, $212,466; 1931, $431,183; 1929, $470,397. Does not include following values of mucilage, paste, and other adhesives made as secondary products by establishments classified in other industries: 1935, $3,143,631; 1933, $1,050,835; 1931, $2,995,447; 1929, $2,560,597.

[8] Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 8, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, containers, fuel, and purchased energy	Value of products	Value added by manufacture
United States	66	209	267	$452,314	$288,569	$1,646,165	$3,632,601	$1,986,436
California	6	11	11	37,147	12,251	87,341	170,802	83,461
Illinois	5	10	6	11,539	6,583	33,511	73,851	40,340
Massachusetts	5	17	23	35,798	30,359	214,028	389,628	175,600
New York	22	92	113	208,526	116,396	543,769	1,292,498	748,729
Ohio	5	11	20	18,925	20,131	92,910	214,590	121,680
Pennsylvania	6	19	26	39,606	21,916	135,986	261,936	125,950
Other States [1]	17	49	68	100,773	80,933	538,620	1,229,296	690,676

[1] Connecticut, 1 establishment; Indiana, 1; Kansas, 1; Maryland, 1; Michigan, 3; Minnesota, 2; Missouri, 2; New Jersey, 1; Oklahoma, 1; Texas, 1; Wisconsin, 3.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States													
1935	267	249	262	269	269	264	260	268	272	280	274	274	268
1933	213	190	192	199	207	217	218	220	225	229	222	220	221
States, 1935													
California	11	9	10	11	11	11	11	10	11	11	11	10	10
Illinois	6	6	6	7	7	7	7	7	6	6	6	6	6
Massachusetts	23	22	23	23	23	23	23	23	23	23	24	24	24
Michigan	20	22	19	19	20	20	19	19	19	20	21	21	21
New York	113	103	110	110	113	109	105	113	118	122	116	120	112
Ohio	20	16	21	26	18	19	19	21	19	22	18	17	18
Pennsylvania	26	24	24	23	25	26	26	26	26	26	29	29	29
Wisconsin	12	10	10	11	13	11	12	12	13	13	12	11	11

OIL, CAKE, AND MEAL, COTTONSEED

[A preliminary report for this industry was issued Jan. 25, 1937]

Description of the industry.—This industry embraces establishments engaged primarily in the manufacture of products from cottonseed, but does not cover the activities of plants engaged in the further manufacture, from refined cottonseed oil, of lard substitutes and vegetable cooking oils.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (—)	
					1933–1935	1929–1935
Number of establishments	458	475	504	553	—3.6	—17.2
Proprietors and firm members	37	17	(1)	34	(*)	(*)
Salaried personnel, total [2]	2,469	(3)	(1)	3,180	(3)	—22.4
Salaried officers of corporations	326	(3)	(1)	394	(3)	—17.3
Supervisory, technical, and clerical employees	[4] 2,143	[5] 2,231	(1)	2,786	—3.9	—23.1
Salaries paid, total [2]	$4,719,697	(3)	(1)	$6,732,607	(3)	—29.9
To salaried officers of corporations	$1,078,641	(3)	(1)	1,310,318	(3)	—17.7
To supervisory, technical, and clerical employees	[4] $3,641,056	[5] $3,625,245	(1)	5,422,289	0.4	—32.9
Wage earners (average for year) [6]	13,226	14,242	12,268	15,825	—7.1	—16.4
Wages	$5,911,625	$5,375,712	$8,335,459	$11,203,227	10.0	—47.2
Cost of materials, etc., total	160,540,022	78,229,307	147,164,705	249,019,800	105.2	—35.5
Cost of materials, supplies, and containers	157,107,225	(1)	(1)	243,452,174	(1)	—35.5
Cost of fuel	1,759,006	(1)	(1)	3,127,268	(1)	—43.8
Cost of purchased electric energy	1,673,791	(1)	(1)	2,440,358	(1)	—31.4
Value of products	187,887,305	104,211,631	181,347,056	298,376,039	80.3	—37.0
Value added by manufacture [7]	27,347,283	25,982,324	34,182,351	49,356,239	5.3	—44.6

*Percent not computed where base is less than 100.

[1] No data.

[2] No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

[3] Data incomplete.

[4] Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 1,033; salaries, $2,234,033. Technical, 48; salaries, $99,515. Clerical, 1,062; salaries, $1,307,508. See sec. 10, p. 7.

[5] Supervisory, 1,151; salaries, $2,342,189. Clerical and other, 1,080; salaries, $1,283,056. See sec. 10, p. 7.

[6] See sec. 11, p. 7.

[7] Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, containers, fuel, and purchased energy	Value of products	Value added by manufacture
United States	458	2,469	13,226	$4,719,697	$5,911,625	$160,540,022	$187,887,305	$27,347,283
Alabama	29	172	1,145	347,249	536,069	13,118,803	14,936,644	1,817,841
Arizona	3	13	95	51,740	60,320	1,802,701	2,573,876	771,175
Arkansas	27	165	1,001	306,448	468,392	12,067,422	14,356,773	2,289,351
California	6	63	184	122,479	122,397	3,904,194	4,751,222	847,028
Georgia	54	301	1,560	554,623	633,618	19,682,462	22,204,892	2,522,430
Louisiana	18	110	546	213,694	250,558	8,445,760	9,674,175	1,228,415
Mississippi	41	273	1,920	548,706	778,157	21,154,941	24,577,961	3,423,020
North Carolina	42	182	960	302,746	408,966	10,984,612	12,515,253	1,530,641
Oklahoma	31	145	540	264,756	195,430	4,613,806	5,727,340	1,113,534
South Carolina	30	144	795	247,218	302,228	8,477,201	9,425,635	948,434
Tennessee	14	117	1,001	277,122	486,067	12,687,903	14,794,415	2,106,512
Texas	156	747	3,303	1,431,602	1,570,043	40,981,515	49,181,165	8,199,650
Other States [1]	7	37	177	51,314	99,380	2,618,702	3,167,954	549,252

[1] Illinois, 3 establishments; Missouri, 2; New Mexico, 2.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year [1]	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States													
1935	13,633	15,595	14,117	12,236	9,083	7,684	7,174	7,238	10,241	17,645	22,170	20,973	19,438
1933	14,242	(*)	(*)	12,315	(*)	(*)	7,852	(*)	(*)	20,741	(*)	(*)	18,839
States, 1935													
Alabama	1,212	1,467	1,056	972	783	636	560	722	1,043	1,823	2,015	1,815	1,655
Arizona	125	128	127	125	85	74	33	81	57	156	215	217	198
Arkansas	993	1,279	1,243	1,004	798	583	453	420	597	1,151	1,592	1,490	1,302
California	188	255	238	236	174	167	148	146	114	75	261	231	209
Georgia	1,575	1,627	1,102	1,395	1,182	1,123	1,137	944	1,610	2,336	2,450	2,148	1,847
Louisiana	582	494	464	344	358	270	217	252	417	1,113	1,084	1,005	969
Mississippi	2,020	2,159	2,054	2,088	1,343	1,366	1,442	1,131	1,515	3,093	3,027	2,619	2,397
North Carolina	976	1,293	1,178	993	688	333	317	387	558	805	1,795	1,768	1,599
Oklahoma	583	775	660	459	249	217	159	245	299	364	1,164	1,198	1,204
South Carolina	822	963	908	737	559	449	428	373	437	1,192	1,447	1,282	1,087
Tennessee	1,038	1,129	1,167	1,051	702	744	647	587	661	1,161	1,562	1,579	1,465
Texas	3,349	3,801	3,682	2,644	2,078	1,632	1,564	1,874	2,884	4,242	5,268	5,311	5,205

*Data incomplete. See last sentence, second paragraph, sec. 11, p. 7.

[1] As the 1935 averages given in this table are derived from the figures for the 12 months in the calendar year, they differ somewhat from the corresponding averages in table 2, which are derived in part from figures for months in fiscal years differing from the calendar years. See sec. 11, p. 7.

TABLE 4.—COTTONSEED PRODUCTS, BY KIND, QUANTITY, AND VALUE, AND COTTONSEED CRUSHED, BY QUANTITY: 1929 TO 1935

[From reports compiled from data collected in Monthly Inquiry on Cottonseed and Cottonseed Products (Census Bulletin No. 172)]

KIND	SEASON (12 MONTHS) ENDED JULY 31—			
	1935	1933	1931	1929
Crude cottonseed products, total value [1]	$177,738,000	$87,313,000	$169,704,000	$265,247,000
Oil:				
Pounds	1,108,582,294	1,445,681,407	1,441,881,530	1,604,131,038
Value	$91,849,000	$47,234,000	$91,638,000	$133,906,000
Cake and meal:				
Tons (2,000 pounds)	1,614,345	2,093,168	2,164,820	2,281,576
Value	$54,023,000	$29,467,000	$58,623,000	$90,706,000
Hulls:				
Tons (2,000 pounds)	913,039	1,312,435	1,303,504	1,368,279
Value	$10,260,000	$4,681,000	$10,474,000	$12,842,000
Linters:				
Bales	805,083	741,401	823,944	1,085,766
Value	$21,606,000	$5,931,000	$8,969,000	$27,793,000
Cottonseed crushed, tons (2,000 pounds)	3,549,891	4,620,558	4,715,148	5,061,058

[1] The differences between these totals and the values of products given in table 1 for the corresponding years are due in part to the inclusion in table 1 of data for the values of refined cottonseed oil and minor products, and receipts for ginning, and in part to the fact that the figures in table 1 cover calendar years whereas those in table 4 refer to seasons ended July 31.

OIL, CAKE, AND MEAL, LINSEED

[A preliminary report for this industry was issued Jan. 18, 1937]

Description of the industry.—The establishments classified in this industry are those whose principal products are linseed oil and its natural by-products, cake and meal.

Difference between biennial-census figures and sums of quarterly-census figures.—The Bureau of the Census makes a quarterly canvass of producers of animal and vegetable fats and oils. The differences between the totals shown for the last four biennial-census years, assembled from the returns of this quarterly census, and the totals for the same years as given in table 4 of this report are due to the fact that the biennial census covers production in the Linseed Oil industry alone, whereas the quarterly canvass covers, in addition, plants which make linseed oil as a secondary product. The combined production of linseed oil, both as a primary product in the Linseed Oil industry and as a secondary product in other industries, as reported in the Quarterly Census of Animal and Vegetable Fats and Oils, was as follows: 1935, 502,043,424 pounds; 1931, 520,735,372 pounds; 1929, 763,576,494 pounds.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (—)	
					1933–1935	1929–1935
Number of establishments	25	22	28	29	(*)	(*)
Proprietors and firm members	2	----------	(1)	2	----------	----------
Salaried personnel, total [2]	244	(3)	(1)	232	[2] (3)	5.2
Salaried officers of corporations	16	(3)	(1)	15	(3)	(*)
Supervisory, technical, and clerical employees	[4] 228	[5] 144	(1)	217	58.3	5.1
Salaries paid, total [2]	$512,463	(3)	(1)	$637,214	(3)	—19.6
To salaried officers of corporations	$105,866	(3)	(1)	$131,701	(3)	—19.6
To supervisory, technical, and clerical employees	[4] $406,597	[5] $318,975	(1)	$505,513	27.5	—19.6
Wage earners (average for year) [6]	2,350	1,625	1,837	2,715	44.6	—13.4
Wages	$2,649,697	$1,684,254	$2,278,340	$4,097,712	57.3	—35.3
Cost of materials, etc., total	48,808,968	33,853,334	50,306,207	[7] 92,860,082	44.2	—47.4
Cost of materials, supplies, and containers	48,108,277	(1)	(1)	[7] 91,868,988	(1)	—47.6
Cost of fuel	373,648	(1)	(1)	507,541	(1)	—26.4
Cost of purchased electric energy	327,043	(1)	(1)	483,553	(1)	—32.4
Value of products	60,264,331	40,462,842	62,882,544	[7] 111,326,162	48.9	—45.9
Value added by manufacture [8]	11,455,363	6,609,508	12,576,337	18,466,080	73.3	—38.0

* Percent not computed where base is less than 100.
[1] No data.
[2] No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.
[3] Data incomplete.
[4] Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 57; salaries, $179,291. Technical, 12; salaries, $21,006. Clerical, 159; salaries, $206,300. See sec. 10, p. 7.
[5] Supervisory, 59; salaries, $187,183. Clerical and other, 85; salaries, $131,792. See sec. 10, p. 7.
[6] See sec. 11, p. 7.
[7] Revised.
[8] Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 8, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, containers, fuel, and purchased energy	Value of products	Value added by manufacture
United States	25	244	2,350	$512,463	$2,649,697	$48,808,968	$60,264,331	$11,455,363
Illinois	3	15	171	31,133	176,018	2,866,383	3,235,662	369,279
Minnesota	4	32	423	72,939	487,423	9,538,191	13,350,196	3,812,005
New York	6	56	344	97,067	401,930	6,309,842	7,462,537	1,152,695
Other States [1]	12	141	1,412	311,324	1,584,326	30,094,552	36,215,936	6,121,384

[1] California, 1 establishment; Iowa, 2; Kansas, 1; New Jersey, 2; Ohio, 1; Oregon, 2; Pennsylvania, 2; Wisconsin, 1.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year [1]	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States													
1935	2,356	1,977	2,274	2,352	2,353	2,292	2,413	2,282	2,163	2,486	2,492	2,589	2,594
1933	1,625	1,443	1,319	1,228	1,268	1,407	1,431	1,564	1,777	1,933	2,130	2,000	2,000
States, 1935													
Illinois	171	150	128	117	144	133	145	165	178	180	216	234	263
Minnesota	423	346	317	351	361	288	343	329	374	602	608	607	549
New York	344	380	381	370	284	277	394	316	333	350	338	360	342

[1] As the 1935 averages given in this table are derived from the figures for the 12 months in the calendar year, the average for the United States differs slightly from the corresponding one in table 2, which was derived in part from figures for months in fiscal years differing from the calendar year. See sec. 11, p. 7.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE: 1935, 1931, AND 1929

[No comparable figures are available for 1933]

	1935	1931	1929
Linseed Oil, Cake, and Meal industry, all products, total value	$60,264,331	$62,882,544	[1] $111,326,162
Oil, cake, and meal [2]	$56,659,356	$60,809,084	[1] $103,087,036
Other products [3]	$3,604,975	$2,073,460	$8,239,126
Linseed oil, cake, and meal:			
Oil: [2]			
Pounds	483,025,310	509,153,413	[1] 741,555,627
Value	$43,271,858	$43,509,324	[1] $66,739,906
Cake and meal: [2]			
Tons	470,760	542,173	752,110
Value	$13,387,498	$17,299,760	$36,347,130

[1] Revised.
[2] See "Difference between biennial-census figures and sum of quarterly census figures," p. 695.
[3] Principally oils other than linseed.

OILS, ESSENTIAL

Description of the industry.—This industry consists in the distillation and refining of natural essential oils and of witch-hazel extract. Essential oils, volatile oils, or essences are distinguished by the possession of strong and characteristic odors and by being vaporizable without decomposition and usually with little or no residue. Outside this industry is a large production of synthetic oils and perfume bases that are chiefly of coal-tar origin and are classed as chemicals.

Omission of State statistics except for wage-earner employment.—No figures for salaries and wages, cost of materials, value of products, and value added by manufacture can be given for any State in this industry without disclosing, exactly or approximately, data for individual establishments. Figures for wage-earner employment are, however, given for New York State in table 2. (See sec. 23, p. 12.)

TABLE 1.—GENERAL STATISTICS: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (−)	
					1933–1935	1929–1935
Number of establishments	[1] 12	12	12	22	-----	(*)
Proprietors and firm members	3	2	(2)	8	(*)	(*)
Salaried personnel, total [3]	68	(4)	(2)	94	(4)	(*)
Salaried officers of corporations	13	(4)	(2)	18	(4)	(*)
Supervisory, technical, and clerical employees	[5] 55	[6] 66	(2)	76	(*)	(*)
Salaries paid, total [3]	$231,866	(4)	(2)	$306,143	(4)	−24.3
To salaried officers of corporations	$115,134	(4)	(2)	$125,506	(4)	−8.3
To supervisory, technical, and clerical employees	[5] $116,732	[6] $146,397	(2)	$180,637	−20.3	−35.4
Wage earners (average for year) [7]	166	175	128	265	−5.1	−37.4
Wages	$219,018	$221,688	$199,241	$325,881	−1.2	−32.8
Cost of materials, etc., total	2,601,649	2,243,096	2,706,615	3,804,228	16.0	−31.6
Cost of materials, supplies, and containers	2,551,717	(2)	(2)	3,717,898	(2)	−31.4
Cost of fuel	43,712	(2)	(2)	72,471	(2)	−39.7
Cost of purchased electric energy	6,220	(2)	(2)	13,859	(2)	−55.1
Value of products	3,541,983	3,093,861	3,504,948	6,653,353	14.5	−46.8
Value added by manufacture [8]	940,334	850,765	798,333	2,849,125	10.5	−67.0

*Percent not computed where base is less than 100.

[1] Connecticut, 2 establishments; Florida, 1; Illinois, 1; Michigan, 1; New Jersey, 2; New York, 4; Pennsylvania, 1.

[2] No data.

[3] No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

[4] Data incomplete.

[5] Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 14; salaries, $53,028. Technical, 15; salaries, $34,356. Clerical, 26; salaries, $29,348. See sec. 10, p. 7.

[6] Supervisory, 23; salaries, $80,583. Clerical and other, 43; salaries, $65,814. See sec. 10, p. 7.

[7] See sec. 11, p. 7.

[8] Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR NEW YORK STATE, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States													
1935	166	175	173	173	165	162	152	155	159	165	164	173	177
1933	175	172	176	164	165	165	164	164	166	174	187	201	206
New York, 1935	41	41	42	40	41	39	39	41	38	42	42	43	41

OILS NOT ELSEWHERE CLASSIFIED

Description of the industry.—This industry embraces establishments engaged primarily in the production of animal oils, such as fish, lard, and neatsfoot, and of certain vegetable oils, such as castor, coconut, palm, and soybean. It does not include the production of cottonseed and linseed oils, each of which is separately classified.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (—)	
					1933–1935	1929–1935
Number of establishments	106	58	65	75	(*)	(*)
Proprietors and firm members	31	9	(1)	16	(*)	(*)
Salaried personnel, total [2]	495	(3)	(1)	492	(3)	0.6
Salaried officers of corporations	109	(3)	(1)	107	(3)	1.9
Supervisory, technical, and clerical employees	[4] 386	[5] 300	(1)	385	28.7	0.3
Salaries paid, total [2]	$1,127,669	(3)	(1)	$1,422,981	(3)	—20.8
To salaried officers of corporations	$509,856	(3)	(1)	$627,626	(3)	—18.8
To supervisory, technical, and clerical employees	[4] $617,813	[5] $566,479	(1)	$795,355	9.1	—22.3
Wage earners (average for year) [6]	1,770	931	961	1,234	90.1	43.4
Wages	$1,814,179	$970,258	$1,394,402	$1,950,432	87.0	—7.0
Cost of materials, etc., total	28,950,356	15,625,029	19,969,825	36,895,506	85.3	—21.5
Cost of materials, supplies, and containers	28,121,898	(1)	(1)	36,333,016	(1)	—22.6
Cost of fuel	472,469	(1)	(1)	348,485	(1)	35.6
Cost of purchased electric energy	355,989	(1)	(1)	214,005	(1)	66.3
Value of products	41,736,942	22,254,137	25,922,012	45,159,825	87.5	—7.6
Value added by manufacture [7]	12,786,586	6,629,108	5,952,187	8,264,319	92.9	54.7

*Percent not computed where base is less than 100.
[1] No data.
[2] No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.
[3] Data incomplete.
[4] Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 115; salaries, $297,765. Technical, 47; salaries, $104,062. Clerical, 224; salaries, $215,986. See sec. 10, p. 7.
[5] Supervisory, 116; salaries, $330,284. Clerical and other, 184; salaries, $236,195. See sec. 10, p. 7.
[6] See sec. 11, p. 7.
[7] Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, containers, fuel, and purchased energy	Value of products	Value added by manufacture
United States	106	495	1,770	$1,127,669	$1,814,179	$28,950,356	$41,736,942	$12,786,586
California	30	156	658	341,260	684,374	8,563,138	15,495,921	6,932,783
Delaware	3	16	17	42,654	17,117	384,966	619,891	234,925
Georgia	3	18	53	53,834	31,303	267,244	419,992	152,748
Illinois	7	52	163	76,215	189,343	3,954,130	4,954,683	1,000,553
Massachusetts	4	16	14	47,097	17,944	224,287	397,374	173,087
Missouri	3	3	12	4,000	9,558	21,059	42,434	21,375
New Jersey	6	52	258	154,177	317,825	6,045,424	8,025,423	1,979,999
New York	7	18	41	52,560	40,603	439,325	638,721	199,396
Pennsylvania	8	71	122	209,961	138,852	2,220,202	3,153,677	933,475
Texas	3	--------	9	----------	5,180	10,363	26,024	15,661
Virginia	4	17	120	27,302	71,726	599,305	793,967	194,662
Other States [1]	28	76	303	118,609	290,354	6,220,913	7,168,835	947,922

[1] Colorado, 2 establishments; Florida, 1; Indiana, 1; Iowa, 3; Kentucky, 1; Louisiana, 1; Maryland, 3; Michigan, 2; Minnesota, 1; Ohio, 6; Oklahoma, 1; Oregon, 3; South Carolina, 1; Washington, 2.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year [1]	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States													
1935	1,806	1,588	1,634	1,556	1,544	1,655	1,618	1,874	2,089	2,150	2,281	1,894	1,785
1933	931	(*)	(*)	811	(*)	(*)	843	(*)	(*)	1,031	(*)	(*)	1,106
States, 1935													
California	681	655	681	617	556	550	540	608	797	820	922	717	712
Delaware	17	6	6	6	6	6	21	31	31	31	31	27	7
Georgia	52	53	53	53	48	48	48	53	53	53	53	53	53
Illinois	166	159	155	154	157	157	160	167	143	170	216	172	176
Iowa	23	25	25	25	16	25	16	25	16	16	27	27	27
Maryland	69	8	8	8	8	88	102	100	104	104	107	103	90
Massachusetts	14	15	14	15	14	13	13	14	13	13	14	14	14
Missouri	12	11	11	11	11	11	12	12	12	12	12	12	11
New Jersey	258	263	280	276	288	270	225	222	247	244	251	259	266
New York	41	19	20	20	20	65	66	67	66	66	44	22	22
Ohio	92	93	97	99	100	84	75	69	85	93	97	107	110
Oregon	56	45	43	44	44	49	48	86	95	70	49	48	49
Pennsylvania	122	122	125	123	126	128	124	119	117	119	124	125	117
Texas	9	3	3	3	11	11	11	11	11	11	11	11	11
Virginia	120	43	43	36	76	85	92	225	231	232	235	104	33

* Data incomplete. See last sentence, second paragraph, sec. 11, p. 7.

[1] As the 1935 averages given in this table are derived from the figures for the 12 months in the calendar year, they differ somewhat from the corresponding averages in table 2, which are derived in part from figures for months in fiscal years differing from the calendar year. See sec. 11, p. 7.

PAINTS, PIGMENTS, AND VARNISHES

[A preliminary report for this industry was issued Feb. 13, 1937]

Description of the industry.—This industry, as constituted for Manufactures Census purposes, embraces establishments engaged primarily in the manufacture of pigments or colors (other than bone black, carbon black, and lampblack), paints in paste form, paints mixed ready for use, varnishes, lacquers, enamels, etc. As the dry colors and pigments made by certain manufacturers in this industry are used as materials by manufacturers of paints, separate figures for the two groups are given in tables 1A, 3A, 4, and 5.

TABLE 1.—GENERAL STATISTICS FOR THE INDUSTRY, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (−)	
					1933–1935	1929–1935
Number of establishments	1,082	961	1,039	1,063	12.6	1.8
Proprietors and firm members	238	174	(1)	234	36.8	1.7
Salaried personnel, total [2]	10,914	(3)	(1)	12,888	(3)	−15.3
Salaried officers of corporations	1,451	(3)	(1)	1,573	(3)	−7.8
Supervisory, technical, and clerical employees	[4] 9,463	[5] 7,326	(1)	11,315	29.2	−16.4
Salaries paid, total [2]	$24,471,790	(3)	(1)	$38,033,685	(3)	−35.7
To salaried officers of corporations	$8,066,435	(3)	(1)	$11,799,160	(3)	−31.6
To supervisory, technical, and clerical employees	[4] $16,405,355	[5] $12,815,656	(1)	$26,234,525	28.0	−37.5
Wage earners (average for year) [6]	27,686	22,880	22,521	29,211	21.0	−5.2
Wages	$32,186,867	$23,790,537	$29,424,646	$42,244,695	35.3	−23.8
Cost of materials, etc., total	231,982,952	153,026,437	193,736,737	334,132,065	51.6	−30.6
Cost of materials, supplies, and containers	225,419,132	(1)	(1)	327,271,797	(1)	−31.1
Cost of fuel	3,749,149	(1)	(1)	4,057,871	(1)	−7.6
Cost of purchased electric energy	2,814,671	(1)	(1)	2,802,397	(1)	0.4
Value of products	416,999,566	289,441,956	350,725,652	568,975,838	44.1	−26.7
Value added by manufacture [7]	185,016,614	136,415,519	156,988,915	234,843,773	35.6	−21.2

[1] No data.
[2] No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.
[3] Data incomplete.
[4] Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 1,856; salaries, $5,790,157. Technical, 1,480; salaries, $3,243,030. Clerical, 6,127; salaries, $7,372,168. See sec. 10, p. 7.
[5] Supervisory, 1,961; salaries, $5,826,257. Clerical and other, 5,365; salaries, $6,989,399. See sec. 10, p. 7.
[6] See sec. 11, p. 7.
[7] Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 1-A.—GENERAL STATISTICS FOR THE "PAINTS, VARNISHES, AND RELATED PRODUCTS" AND "COLORS AND PIGMENTS" BRANCHES OF THE INDUSTRY, FOR THE UNITED STATES: 1935

	Paints, varnishes, and related products	Colors and pigments
Number of establishments	993	89
Proprietors and firm members	232	6
Salaried personnel, total [1]	9, 203	1, 711
Salaried officers of corporations	1, 347	104
Supervisory, technical, and clerical employees	[2] 7, 856	[2] 1, 607
Salaries paid, total [1]	$20, 714, 439	$3, 757, 351
To salaried officers of corporations	$7, 333, 407	$733, 028
To supervisory, technical, and clerical employees	[2] $13, 381, 032	[2] $3, 024, 323
Wage earners (average for year) [3]	21, 690	5, 996
Wages	$25, 323, 496	$6, 863, 371
Cost of materials, etc., total	$195, 826, 900	$36, 156, 052
Cost of materials, supplies, and containers	$192, 081, 860	$33, 337, 272
Cost of fuel	$1, 813, 927	$1, 935, 222
Cost of purchased electric energy	$1, 931, 113	$883, 558
Value of products	$349, 788, 826	$67, 210, 740
Value added by manufacture [4]	$153, 961, 926	$31, 054, 688

[1] No data for employees of central administrative offices are included. See sec. 10, p. 7.
[2] For "Paints, varnishes, and related products": Supervisory, 1,457; salaries, $4,610,184. Technical, 1,149; salaries, $2,602,721. Clerical, 5,250; salaries, $6,168,127. For "Colors and pigments": Supervisory, 399; salaries, $1,179,973. Technical, 331; salaries, $640,309. Clerical, 877; salaries, $1,204,041. See sec. 10, p. 7.
[3] See sec. 11, p. 7.
[4] Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY FOR THE INDUSTRY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, containers, fuel, and purchased energy	Value of products	Value added by manufacture
United States	1, 082	10, 914	27, 686	$24, 471, 790	$32, 186, 867	$231, 982, 952	$416, 999, 566	$185, 016, 614
California	101	498	1, 356	1, 013, 912	1, 677, 864	14, 685, 824	25, 693, 741	11, 007, 917
Colorado	4	19	40	40, 490	52, 194	287, 333	490, 886	203, 553
Connecticut	12	74	201	148, 730	189, 318	1, 392, 729	2, 509, 061	1, 116, 332
District of Columbia	3	4	7	6, 740	7, 354	50, 079	78, 580	28, 501
Florida	9	23	21	32, 435	17, 011	189, 932	349, 747	159, 815
Georgia	11	54	103	105, 143	83, 820	594, 668	979, 285	384, 617
Illinois	105	1, 213	3, 979	2, 900, 482	4, 697, 724	34, 392, 519	60, 013, 165	25, 620, 646
Indiana	25	234	569	582, 555	614, 617	4, 971, 007	8, 082, 586	3, 111, 579
Iowa	5	17	28	25, 641	24, 711	228, 263	395, 663	167, 400
Kentucky	24	252	524	625, 417	477, 111	5, 093, 853	8, 578, 013	3, 484, 160
Louisiana	9	63	146	109, 830	136, 497	955, 143	1, 499, 052	543, 909
Maryland	20	213	656	444, 057	692, 434	3, 497, 790	9, 057, 790	5, 560, 000
Massachusetts	44	311	640	810, 509	694, 751	4, 564, 140	8, 405, 947	3, 841, 807
Michigan	49	661	2, 084	1, 611, 956	2, 577, 247	19, 600, 762	40, 087, 043	20, 486, 281
Minnesota	20	148	253	305, 432	295, 739	2, 194, 955	3, 954, 659	1, 759, 704
Missouri	46	761	1, 659	1, 138, 675	1, 798, 649	12, 413, 631	23, 220, 758	10, 807, 127
Nebraska	5	18	21	37, 582	26, 825	131, 230	309, 018	177, 788
New Jersey	124	1, 551	4, 468	3, 413, 569	5, 618, 170	37, 546, 615	65, 503, 612	27, 956, 997
New York	168	1, 508	3, 567	3, 905, 298	4, 098, 673	31, 222, 942	54, 451, 923	23, 228, 981
Ohio	96	1, 267	2, 549	2, 902, 241	3, 014, 442	20, 051, 932	38, 685, 047	18, 633, 115
Oregon	10	23	92	41, 861	89, 177	729, 082	1, 256, 626	527, 544
Pennsylvania	92	1, 044	2, 651	2, 225, 217	3, 015, 761	19, 690, 493	34, 255, 249	14, 564, 756
Rhode Island	9	72	106	192, 810	121, 231	1, 019, 459	1, 879, 723	860, 264
Tennessee	9	63	163	170, 649	142, 345	1, 481, 733	2, 302, 545	820, 812
Texas	14	116	126	164, 586	131, 810	1, 297, 657	2, 313, 411	1, 015, 754
Virginia	8	43	59	97, 002	53, 561	513, 924	884, 634	370, 710
Washington	12	42	83	101, 167	88, 111	535, 404	1, 004, 231	468, 827
West Virginia	5	58	254	217, 983	241, 760	1, 433, 288	2, 360, 964	927, 676
Wisconsin	22	268	610	586, 059	740, 504	6, 249, 931	9, 482, 110	3, 232, 179
Other States [1]	21	296	673	513, 762	767, 456	4, 966, 634	8, 914, 497	3, 947, 863

[1] Alabama, 2 establishments; Arizona, 1; Delaware, 3; Kansas, 2; Maine, 1; Montana, 1; New Hampshire, 1; North Carolina, 3; Oklahoma, 1; South Carolina, 3; South Dakota, 1; Utah, 2.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE INDUSTRY, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year [1]	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States													
1935	27,850	25,586	26,265	26,947	28,147	29,128	29,163	28,421	27,736	28,085	28,391	28,288	28,042
1933	22,880	(*)	(*)	19,714	(*)	(*)	24,012	(*)	(*)	24,781	(*)	(*)	24,183
States, 1935													
California	1,360	1,241	1,274	1,291	1,333	1,348	1,388	1,426	1,441	1,430	1,411	1,367	1,372
Colorado	41	38	38	38	39	43	44	45	43	43	41	38	37
Connecticut	201	203	212	207	209	209	199	195	195	198	195	198	197
District of Columbia	7	6	6	6	7	7	7	7	7	7	7	6	5
Florida	21	20	19	20	20	20	20	21	21	23	22	22	22
Georgia	110	100	97	99	117	122	120	110	103	110	112	112	116
Illinois	4,029	3,809	3,918	3,998	4,193	4,249	4,183	3,984	3,892	3,990	4,064	4,048	4,023
Indiana	569	529	525	561	609	609	607	591	570	576	556	549	548
Iowa	28	27	27	27	28	29	28	28	28	28	28	27	27
Kentucky	524	472	484	515	552	569	525	511	526	538	545	535	519
Louisiana	146	160	159	159	153	154	151	134	133	133	144	136	134
Maryland	657	691	661	668	682	691	689	643	653	637	632	624	615
Massachusetts	641	604	600	616	640	653	665	659	638	663	666	649	638
Michigan	2,080	1,840	1,976	2,030	2,138	2,225	2,188	2,152	2,063	2,059	2,099	2,111	2,074
Minnesota	256	238	238	255	266	295	296	267	245	243	238	246	244
Missouri	1,666	1,672	1,705	1,757	1,800	1,703	1,634	1,662	1,626	1,620	1,623	1,566	1,623
Nebraska	21	22	22	22	22	22	21	21	21	21	21	21	21
New Jersey	4,481	3,992	4,099	4,142	4,265	4,726	4,674	4,552	4,510	4,576	4,709	4,770	4,761
New York	3,592	3,294	3,303	3,456	3,606	3,749	3,755	3,659	3,568	3,647	3,735	3,696	3,634
North Carolina	29	29	29	30	29	29	29	29	29	29	30	30	30
Ohio	2,577	2,346	2,436	2,524	2,666	2,748	2,715	2,634	2,550	2,528	2,562	2,635	2,585
Oregon	92	81	81	85	97	103	107	105	103	99	85	79	79
Pennsylvania	2,650	2,414	2,554	2,569	2,719	2,797	2,830	2,730	2,570	2,650	2,670	2,669	2,623
Rhode Island	106	101	104	104	106	105	108	106	107	106	106	107	107
South Carolina	24	24	24	24	24	24	24	24	25	25	24	24	23
Tennessee	163	151	149	159	170	178	166	158	161	163	164	176	160
Texas	126	115	116	122	127	128	128	137	133	131	132	125	117
Virginia	59	55	55	55	59	58	60	60	61	62	63	61	59
Washington	83	71	73	78	88	93	93	91	84	91	79	76	75
West Virginia	254	239	246	248	243	246	258	255	253	260	265	268	267
Wisconsin	610	521	557	589	628	689	670	651	613	611	589	596	607

* Data incomplete. See last sentence, second paragraph, sec. 11, p. 7.

[1] As the 1935 averages given in this table are derived from the figures for the 12 months in the calendar year, they differ somewhat from the corresponding averages in table 2, which are derived in part from figures for months in fiscal years differing from the calendar year. See sec. 11, p. 7.

TABLE 3-A.—WAGE EARNERS, BY MONTHS, FOR THE "PAINTS, VARNISHES, AND RELATED PRODUCTS" AND "COLORS AND PIGMENTS" BRANCHES OF THE INDUSTRY, FOR THE UNITED STATES, 1935

[See sec. 11, p. 7]

	Paints, varnishes, and related products	Colors and pigments		Paints, varnishes, and related products	Colors and pigments
Average number employed during year[1]	21,805	6,045	Number reported for—Con.		
Number reported for—			June	22,857	6,306
January	20,094	5,492	July	22,199	6,222
February	20,726	5,539	August	21,514	6,222
March	21,362	5,585	September	21,771	6,314
April	22,366	5,781	October	22,008	6,383
May	23,049	6,079	November	21,928	6,360
			December	21,783	6,259

[1] As the averages given in this table are derived from the figures for the 12 months in the calendar year, they differ somewhat from the corresponding averages in table 1-A, which are derived in part from figures for months in fiscal years differing from the calendar year. See sec. 11, p. 7.

TABLE 4.—PAINTS AND VARNISHES AND RELATED PRODUCTS—PRODUCTION, BY KIND, QUANTITY, AND VALUE: 1935, 1931, AND 1929

[No comparable figures for 1933 are available; and owing to an extensive revision of the questionnaire used at the 1935 Census, no comparable figures for certain items can be given for any earlier year]

	1935	1931	1929
1. Establishments engaged primarily in manufacture of paints and varnishes and related products, except dry colors and pigments—all products, total value	$349,788,826	$299,788,874	$500,782,253
2. Paints and varnishes and related products	$327,228,884	(1)	(1)
3. Other products	$22,559,942	(1)	(1)
4. Paints and varnishes and related products made as secondary products in other industries and by establishments engaged primarily in manufacture of colors and pigments	$8,926,758	(1)	(1)
Paints and varnishes and related products, aggregate value (sum of 2 and 4)	$336,155,642	$292,636,170	$458,126,979
Paints, total value	$158,514,474	$157,961,481	$236,542,242
Water paints and calcimines, dry or paste:			
Pounds	125,165,083	122,823,417	155,810,548
Value	$5,297,701	$5,265,219	$7,093,017
Plastic paints:			
Pounds	13,220,232	14,561,424	(1)
Value	$781,167	$1,393,044	(1)
Paints in paste form:			
Total pounds	256,715,183	242,528,011	401,546,094
Total value	$23,267,858	$26,190,760	$46,665,995
White lead in oil, pure:			
Pounds	169,629,876	139,106,356	232,938,353
Value	$12,937,249	$13,063,287	$24,591,319
Combination or graded whites:			
Pounds	25,488,274	41,617,117	61,762,830
Value	$2,357,265	$3,641,661	$5,660,990
Red lead in oil:			
Pounds	3,428,497	4,222,648	6,980,118
Value	$306,023	$461,797	$905,146
Zinc oxide in oil:			
Pounds	1,246,833	2,582,567	4,450,208
Value	$143,819	$301,192	$486,317
Colors in oil:			
Pounds	19,931,818	23,836,847	33,194,913
Value	$3,707,026	$4,674,255	$6,900,814
Colors in japan:			
Pounds	1,294,393	1,520,889	2,635,976
Value	$374,332	$483,681	$1,012,843
Other paste paints:			
Pounds	35,695,492	29,641,587	59,583,696
Value	$3,442,144	$3,564,887	$7,108,566
Ready-mixed and semipaste paints:			
Total gallons	90,644,675	81,286,734	109,699,359
Total value	$129,167,748	$125,112,458	$182,783,230
Paints in oil, ready-mixed			
Gallons	39,638,154	37,709,502	53,054,219
Value	$63,479,674	$63,523,576	$96,732,014

For footnotes, see end of table.

TABLE 4.—PAINTS AND VARNISHES AND RELATED PRODUCTS—PRODUCTION, BY KIND, QUANTITY, AND VALUE: 1935, 1931, AND 1929—Continued

[See note at head of table]

	1935	1931	1929
Paints and varnishes and related products—Continued.			
Paints—Continued.			
Ready-mixed and semipaste paints—Continued.			
Undercoatings and primers:			
Gallons	8,669,143	6,764,541	12,059,640
Value	$10,178,960	$9,237,455	$17,315,189
Wall paints and mill whites, flat or gloss:			
Gallons	21,461,070	15,933,339	19,400,773
Value	$30,281,627	$24,361,397	$31,946,834
Stains (not including varnish stains):			
Gallons	3,077,151	3,037,679	3,533,961
Value	$3,308,561	$3,956,778	$4,541,251
Other ready-mixed and semipaste paints:			
Gallons	17,799,157	17,841,673	21,650,766
Value	$21,918,926	$24,033,252	$32,247,942
Varnishes, lacquers (including enamels), and japans, total value	$171,185,727	$127,852,229	$209,262,555
Varnishes, total value	$50,025,338	$43,284,897	$71,888,592
Synthetic-oleoresinous (straight or modified):			
Gallons	14,539,204	27,074,157	38,843,280
Value	$16,796,415	$29,870,415	$47,740,393
Other resinous except synthetic:			
Gallons	15,839,553		
Value	$15,349,608		
Spirit, not turpentine:			
Gallons	7,915,591	5,887,607	7,379,820
Value	$8,671,744	$7,423,559	$13,534,920
Other varnishes:			
Gallons	9,199,412	5,396,483	8,476,266
Value	$9,207,571	$5,990,923	$10,613,279
Varnish stains:			
Gallons	1,763,515	1,726,151	2,159,620
Value	$2,932,682	$2,542,476	$4,381,153
Nitrocellulose (pyroxylin) products, total value	$55,916,159	$47,181,151	$82,336,227
Clear lacquers:			
Gallons	9,330,872	8,096,582	9,938,501
Value	$12,862,302	$12,846,124	$19,178,970
Pigmented lacquers:			
Gallons	11,768,682	8,705,436	15,150,807
Value	$25,390,038	$20,734,704	$38,555,226
Thinners:			
Gallons	18,591,545	12,701,400	17,870,548
Value	$12,864,123	$11,271,917	$19,151,462
Lacquer bases and dopes:			
Gallons	2,587,557	(2)	(2)
Value	$3,149,486	$2,328,406	$5,450,569
Other nitrocellulose products, value	$1,650,210		
Enamels, total value	$55,097,453	$29,798,701	$40,198,979
Oil, ester-gum, and natural-resin, varnish base:			
Gallons	20,422,809	15,478,029	19,987,299
Value	$33,078,330	$29,798,701	$40,198,979
Synthetic-resin (oil, straight or modified):			
Gallons	11,040,123		
Value	$22,019,123		
Drying japans and driers:			
Gallons	1,850,588	2,481,309	5,187,797
Value	$1,705,163	$2,045,325	$4,057,582
Baking japans:			
Gallons	3,522,676	2,388,675	4,039,344
Value	$2,151,304	$1,815,420	$3,480,555
Other products of the varnish group, value	$3,357,628	$1,184,259	$2,919,467
Fillers, total value	$1,158,544	$1,210,903	$2,637,499
Liquid:			
Gallons	292,956	204,311	495,361
Value	$342,588	$235,674	$683,221
Paste:			
Pounds	8,201,690	13,242,997	20,838,050
Value	$617,798	$828,731	$1,801,974
Dry:			
Pounds	8,978,373	6,243,410	9,775,004
Value	$198,158	$146,498	$152,304
Putty:			
Pounds	71,841,116	69,907,186	99,163,239
Value	$2,871,865	$2,992,484	$4,253,334
Bleached shellac:			
Pounds	12,524,732	10,731,259	11,139,556
Value	$2,425,032	$2,619,073	$5,431,349

[1] Not recorded separately.

[2] Data incomplete.

TABLE 5.—DRY COLORS AND PIGMENTS—PRODUCTION, BY KIND, QUANTITY, AND VALUE: 1935, 1933, AND 1929

[Figures represent production for sale unless otherwise stated]

	Pounds	Value
1. Establishments engaged primarily in manufacture of dry colors and pigments—all products, total value:		
1935		$67,210,740
1933		46,834,559
1929		(1)
2. Dry colors and pigments:		
1935		62,352,368
1933		43,374,221
1929		(1)
3. Other products:		
1935		4,858,372
1933		3,460,338
1929		(1)
4. Dry colors and pigments made as secondary products in other industries (except the Paper and Linoleum industries) and by establishments engaged primarily in manufacture of paints and varnishes:		
1935		24,660,005
1933		18,802,306
1929		(1)
Dry colors and pigments, aggregate made for sale (values are sums of 2 and 4):		
1935	1,507,753,635	87,012,373
1933 [2]	1,210,528,120	62,176,527
1929 [2]	1,918,458,961	116,752,604
C. P. chrome yellows and oranges, total production:		
1935 [3]	39,170,554	
Made and consumed in same establishments:		
1935 [3]	4,637,413	
Interplant transfers:		
1935 [3]	3,197,691	434,407
Made for sale:		
1935 [4]	31,335,450	2,961,861
1929	26,353,761	3,842,419
C. P. iron blues (Prussian blue), total production:		
1935 [3]	5,582,836	
Made and consumed in same establishments:		
1935 [3]	688,215	
Made for sale and for interplant transfer:		
1935 [4]	4,894,621	1,742,069
1929	5,359,419	1,612,817
(The statistics for the colors named below are for the year 1935. Figures for 1933 and 1929, for which years no separate data are available, are included in the totals given in footnote 2)		
C. P. chrome greens, total production	7,959,753	
Made and consumed in same establishments	1,215,384	
Interplant transfers	1,460,074	316,068
Made for sale	5,284,295	1,194,984
Reduced chrome greens, total production	7,634,224	
Made and consumed in same establishments	518,791	
Interplant transfers	462,024	38,943
Made for sale	6,653,409	559,747
C. P. para toners, total production	1,180,875	
Made and consumed in same establishments	170,922	
Interplant transfers	60,047	41,592
Made for sale	949,906	679,925
Reduced para reds, total production	877,433	
Made and consumed in same establishments	53,766	
Made for sale and for interplant transfer	823,667	138,968
C. P. lithol toners, total production	2,259,463	
Made and consumed in same establishments	330,872	
Interplant transfers	40,116	23,589
Made for sale	1,888,475	1,115,853
Reduced lithol reds (made for sale and for interplant transfer)	228,521	103,906
C. P. toluidine toners, total production	760,169	
Made and consumed in same establishments	69,050	
Made for sale and for interplant transfer	691,119	925,483

For footnotes, see end of table.

TABLE 5.—DRY COLORS AND PIGMENTS—PRODUCTION, BY KIND, QUANTITY, AND VALUE: 1935, 1933, AND 1929—Continued

[See note at head of table]

	Pounds	Value
Dry colors and pigments—Continued.		
Reduced toluidine reds (made for sale and for interplant transfer)	131,995	$60,925
All other red toners, total production	677,945	
Made and consumed in same establishments	41,222	
Made for sale and for interplant transfer	636,723	906,877
All other reduced reds (made for sale and for interplant transfer)	1,254,782	570,749
All other toners (made for sale and for interplant transfer)	233,976	252,443
Phosphotungstic-acid toners, total		900,040
Blue, total production	122,471	
Made and consumed in same establishments	11,065	
Made for sale and for interplant transfer	111,406	388,204
Green, total production	71,681	
Made and consumed in same establishments	5,593	
Made for sale and for interplant transfer	66,088	166,110
Purple, total production	95,671	
Made and consumed in same establishments	19,660	
Made for sale and for interplant transfer	76,011	124,944
All other (made for sale and for interplant transfer)	108,524	220,782
Phosphotungstic-acid lakes, total	322,719	299,531
Blue (made for sale)	77,865	99,730
Green (made for sale and for interplant transfer)	119,610	73,373
Purple (made for sale)	37,746	30,903
Other (made for sale and for interplant transfer)	87,498	95,525
Coal-tar color lakes, total		1,867,062
Peacock blue, total production	931,143	
Made and consumed in same establishments	101,879	
Made for sale and for interplant transfer	829,264	473,842
Persian orange, total production	530,665	
Made and consumed in same establishments	195,552	
Made for sale [5]	335,113	131,543
Scarlet 2r, total production	380,245	
Made and consumed in same establishments	38,297	
Made for sale and for interplant transfer	341,948	110,657
All other, total production	1,640,637	
Made and consumed in same establishments	110,090	
Interplant transfers	30,877	35,959
Made for sale	1,499,670	1,115,061
Inorganic water-pulp colors (made for sale and for interplant transfer)	2,558,938	252,829
Organic water-pulp colors (made for sale and for interplant transfer)	5,263,960	553,884
Other dry colors (made for sale and for interplant transfer)	1,284,622	400,104
White lead (basic carbonate and sulphate), for sale and for interplant transfer:		
1935	117,570,732	5,871,441
1933	101,679,283	4,921,661
1929	150,364,563	12,306,028
Lead oxides, total:		
1935		11,720,159
1933		8,407,930
1929		21,488,413
Litharge, total production:		
1935 [3]	165,589,828	
Made and consumed in same establishments:		
1935 [3]	14,741,771	
Made for sale and for interplant transfer:		
1935	150,848,057	7,733,737
1933	114,777,852	5,517,314
1929	163,736,000	12,964,987
Red lead, minium, and other lead oxides:		
1935	67,192,095	3,986,422
1933	50,200,092	2,890,616
1929	98,333,233	8,523,426

For footnotes, see end of table.

TABLE 5.—DRY COLORS AND PIGMENTS—PRODUCTION, BY KIND, QUANTITY, AND VALUE: 1935, 1933, AND 1929—Continued

[See note at head of table]

	Pounds	Value
Dry colors and pigments—Continued.		
(Figures for all products named below refer to production for sale and for interplant transfer)		
Zinc oxide (Chinese white and zinc white):		
1935	255, 678, 214	$13, 071, 090
1933	246, 662, 932	12, 141, 970
1929	436, 714, 982	26, 933, 248
Lithopone:		
1935	322, 639, 266	14, 297, 118
1933	273, 306, 487	11, 695, 715
1929	410, 638, 583	19, 260, 958
Iron oxides (natural, synthetic, and other):		
1935 [4]	112, 423, 238	3, 079, 206
1929	105, 627, 130	3, 374, 800
Other mineral colors: [6]		
1935 [7]	275, 200, 997	20, 255, 865
Fine color pigments (including vermilion and ultramarine):		
1935 [4]	7, 461, 339	1, 542, 289
1929	17, 248, 536	6, 693, 642
Whiting:		
1935 [4]	125, 683, 666	833, 366
1929	202, 207, 936	1, 513, 634

[1] No data.
[2] Includes data for colors and pigments for which no separate figures comparable with those given for 1935 are available, as follows:

	Pounds	Value
1933	423, 901, 474	$25, 009, 251
1929	301, 874, 818	19, 726, 645

[3] No data for 1933 or 1929.
[4] Not reported separately for 1933; data included in figures given in footnote 2.
[5] No interplant transfers reported.
[6] Includes zinc sulphide, barytes, and mortar colors.
[7] Not reported separately for 1933 or 1929; data included in figures given in footnote 2.

TABLE 6.—SELECTED PRODUCTS, BY QUANTITY AND VALUE, BY STATES: 1935

[This table gives statistics for each class of products for which the total value was $5,000,000 or more and for which it is possible to publish figures for at least the leading 2 States without disclosing, exactly or approximately, the production reported by individual establishments. In each case statistics are given for as many States as possible, including, in many instances, some which are of less importance than certain of the "Other States" in the production of the specified classes of paints, etc.]

PRODUCT AND STATE	Gallons	Value
PAINTS (READY-MIXED AND SEMIPASTE)		
Paints in oil, total	39, 638, 154	$63, 479, 674
California	2, 413, 482	4, 578, 550
Colorado	152, 073	288, 633
District of Columbia	28, 480	46, 050
Florida	167, 533	215, 931
Georgia	275, 366	409, 149
Illinois	7, 926, 551	11, 452, 783
Indiana	728, 204	1, 233, 927
Iowa	128, 579	194, 159
Kentucky	796, 826	1, 290, 616
Louisiana	502, 568	660, 216
Maryland	516, 862	982, 186
Massachusetts	949, 356	1, 630, 331
Michigan	1, 841, 765	2, 839, 706
Minnesota	991, 520	1, 676, 031
Missouri	2, 660, 047	3, 820, 956
Nebraska	55, 602	106, 288
New Jersey	4, 006, 049	6, 522, 514
New York	4, 469, 078	7, 196, 912
PAINTS—Continued		
Ohio	4, 262, 754	$7, 579, 725
Oregon	276, 087	410, 771
Pennsylvania	3, 380, 784	5, 300, 684
Tennessee	354, 205	686, 494
Texas	563, 807	873, 118
Virginia	95, 275	185, 604
Washington	131, 475	251, 547
West Virginia	66, 802	110, 695
Wisconsin	1, 297, 248	1, 843, 796
Other States	599, 776	1, 092, 302
Undercoatings and primers, total	8, 669, 143	10, 178, 960
California	502, 422	783, 131
Colorado	7, 942	12, 232
Florida	5, 049	7, 639
Illinois	1, 063, 688	1, 428, 270
Indiana	10, 711	16, 225
Kentucky	35, 391	56, 662
Louisiana	10, 063	12, 113
Massachusetts	69, 007	90, 610

TABLE 6.—SELECTED PRODUCTS, BY QUANTITY AND VALUE, BY STATES: 1935—Continued

[See note at head of table]

PRODUCT AND STATE	Gallons	Value
PAINTS—Continued		
Michigan	2,389,357	$2,294,867
Minnesota	55,835	80,070
Missouri	154,109	189,444
New Jersey	578,982	716,005
New York	768,783	1,023,698
Ohio	1,302,111	1,326,132
Oregon	34,647	49,474
Pennsylvania	952,935	1,023,437
Tennessee	20,233	29,196
Texas	29,761	47,888
Washington	39,471	68,039
Wisconsin	442,663	573,945
Other States	195,983	349,883
Wall paints and mill whites (flat or gloss), total	21,461,070	30,281,627
California	1,066,418	1,727,592
Colorado	17,150	27,665
Florida	18,466	25,866
Georgia	48,823	62,837
Illinois	3,470,046	5,145,488
Indiana	245,976	389,280
Kentucky	269,301	380,618
Louisiana	108,302	122,266
Maryland	80,112	127,222
Massachusetts	387,223	555,938
Michigan	1,441,077	2,296,053
Minnesota	375,795	573,785
Missouri	674,937	901,397
Nebraska	33,491	39,265
New Jersey	3,322,515	4,373,522
New York	5,051,970	6,331,652
Ohio	1,971,636	2,982,329
Oregon	59,017	75,313
Pennsylvania	947,132	1,388,828
Tennessee	117,621	143,269
Texas	155,102	220,614
Virginia	25,272	41,608
Washington	42,278	62,433
West Virginia	53,750	75,640
Wisconsin	875,089	1,158,604
Other States	602,571	1,052,543
Other ready-mixed and semipaste paints, total	17,799,157	21,918,926
California	2,128,486	3,226,482
Connecticut	59,538	95,358
Georgia	224,345	152,724
Illinois	2,097,620	2,711,199
Indiana	301,251	383,468
Kentucky	656,709	874,464
Louisiana	232,922	173,494
Maryland	323,558	388,572
Massachusetts	312,565	548,909
Michigan	607,811	896,268
Minnesota	369,345	238,777
Missouri	461,108	546,675
New Jersey	1,842,566	2,588,837
New York	1,483,267	2,017,492
Ohio	2,336,041	2,451,856
Pennsylvania	1,982,620	2,387,722
South Carolina	41,322	69,667
Tennessee	213,372	309,208
Texas	91,852	135,756
Virginia	90,451	49,526
Washington	89,456	126,951
Other States	1,852,952	1,545,521

PRODUCT AND STATE	Gallons	Value
VARNISHES, JAPANS, AND LACQUERS, INCLUDING ENAMELS		
Synthetic oleoresinous varnishes, total	14,539,204	$16,796,415
California	485,531	633,494
Illinois	2,346,872	2,545,265
Kentucky	136,472	212,039
Massachusetts	250,749	307,041
Michigan	783,051	1,112,980
Missouri	987,086	1,060,739
New Jersey	1,802,874	1,667,064
New York	2,554,171	3,812,791
Ohio	1,898,877	1,843,825
Pennsylvania	1,393,414	1,555,234
Texas	119,648	155,782
Washington	16,088	21,517
Wisconsin	799,988	622,956
Other States	964,383	1,245,688
Varnishes, other resinous except synthetic, total	15,839,553	15,349,608
California	1,058,291	1,092,401
Illinois	3,324,746	2,792,345
Kentucky	1,130,636	984,414
Massachusetts	378,099	362,004
Michigan	1,623,444	2,043,834
Minnesota	219,670	266,287
Missouri	804,585	948,038
New Jersey	2,053,639	1,822,827
New York	1,467,392	1,439,968
Ohio	1,223,781	1,365,341
Pennsylvania	1,626,518	1,537,993
Texas	100,548	105,149
Washington	35,205	32,947
Other States	792,999	556,060
Spirit varnishes, not turpentine, total	7,915,591	8,671,744
California	588,207	619,879
Illinois	1,198,017	1,472,761
Indiana	173,564	202,488
Kentucky	73,843	109,564
Louisiana	4,602	6,882
Maryland	103,100	151,292
Massachusetts	1,015,395	1,075,892
Michigan	276,505	424,037
Missouri	107,940	117,742
New Jersey	785,592	780,014
New York	2,214,964	2,118,952
Ohio	257,700	263,369
Pennsylvania	232,029	280,566
Rhode Island	71,014	98,646
Texas	37,443	59,249
Washington	17,109	14,982
Other States	758,567	875,429
Varnishes other than synthetic-oleoresinous, other resinous, and spirit, total	9,199,412	9,207,571
California	1,312,867	1,046,792
Illinois	1,564,184	1,265,315
Kentucky	66,389	70,139
Massachusetts	273,445	214,717
Michigan	259,912	354,088
Missouri	723,982	627,573

TABLE 6.—SELECTED PRODUCTS, BY QUANTITY AND VALUE, BY STATES: 1935—Continued

[See note at head of table]

PRODUCT AND STATE	Gallons	Value
VARNISHES, JAPANS, AND LACQUERS, ETC.—Con.		
New Jersey	1,339,134	$1,845,848
New York	1,368,451	1,356,557
Ohio	699,224	649,131
Pennsylvania	720,610	635,178
Other States	871,214	1,142,233
Nitrocellulose (pyroxylin) products:		
Clear lacquers, total	9,330,872	12,862,302
California	344,646	570,645
Connecticut	256,419	415,422
Illinois	986,514	1,428,555
Indiana	416,111	527,153
Kentucky	462,254	700,303
Massachusetts	236,030	346,140
Missouri	149,852	188,394
New Jersey	2,818,118	4,215,576
New York	1,378,968	1,231,202
Ohio	901,948	1,452,965
Pennsylvania	269,441	331,965
Rhode Island	84,923	116,526
Washington	22,409	24,189
Wisconsin	134,170	210,463
Other States	869,069	1,102,804
Pigmented lacquers, total	11,768,682	25,390,038
California	469,216	1,078,859
Connecticut	128,095	297,367
Illinois	1,024,970	2,248,313
Indiana	210,320	367,884
Massachusetts	216,564	430,899
Michigan	4,428,599	9,774,503
Missouri	175,939	351,474
New Jersey	2,784,065	6,415,328
New York	413,398	783,668
Ohio	1,005,568	1,975,060
Pennsylvania	172,877	326,895
Rhode Island	26,109	54,114
Washington	13,022	24,073
Other States	699,940	1,261,601
VARNISHES, JAPANS, AND LACQUERS, ETC.—Con.		
Thinners (for nitrocellulose compositions), total	18,591,545	$12,864,123
California	1,120,266	776,990
Illinois	1,396,911	1,118,157
Indiana	194,149	164,509
Kentucky	88,846	103,646
Massachusetts	918,795	554,684
Michigan	6,885,750	4,159,616
Missouri	156,884	123,728
New Jersey	4,275,466	3,109,798
New York	1,213,678	924,714
Ohio	927,089	755,058
Pennsylvania	364,311	254,635
Rhode Island	78,236	55,245
Washington	12,586	11,199
Other States	958,578	752,144
Enamels—Oil, ester-gum, and natural-resin varnish base and synthetic-resin (oil, straight or modified),[1] total	31,462,932	55,097,453
California	1,595,914	3,238,120
Illinois	4,030,112	7,133,785
Indiana	665,359	1,252,516
Kentucky	702,901	1,221,841
Maryland	68,579	163,853
Massachusetts	636,819	868,689
Michigan	5,673,868	8,214,250
Missouri	1,017,806	1,861,777
Nebraska	26,439	51,060
New Jersey	2,189,506	3,521,950
New York	3,095,378	6,009,441
Ohio	5,118,600	9,145,326
Pennsylvania	4,475,385	8,720,509
Tennessee	47,070	107,264
Texas	156,455	322,455
Washington	9,345	18,186
Wisconsin	1,180,751	1,833,407
Other States	772,645	1,413,024

[1] Combined to avoid disclosing data for individual establishments in the leading State (Pennsylvania) reporting synthetic resin enamels.

PERFUMES, COSMETICS, AND OTHER TOILET PREPARATIONS

[A preliminary report for this industry was issued Jan. 19, 1937]

Description of the industry.—This industry, as constituted for Manufactures Census purposes, embraces establishments engaged primarily in the production of preparations and compounds used for toilet purposes, such as powders, washes, lotions, hair dyes and tonics, rouges and lipsticks, dentifrices, etc. It does not cover the manufacture of toilet soap nor that of shaving cream containing soap, but shaving cream containing no soap is treated as a product of this industry.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929*	PERCENT OF INCREASE OR DECREASE (—)	
					1933–1935	1931–1933
Number of establishments	558	490	658	815	13.9	−25.5
Proprietors and firm members	154	154	(1)	266	--------	(1)
Salaried personnel, total [2]	3,466	(3)	(1)	6,120	(3)	(1)
Salaried officers of corporations	583	(3)	(1)	862	(3)	(1)
Supervisory, technical, and clerical employees	[4] 2,883	[5] 2,283	(1)	5,258	26.3	(1)
Salaries paid, total [2]	$7,535,581	(3)	(1)	$16,107,298	(3)	(1)
To salaried officers of corporations	$3,248,778	(3)	(1)	6,619,916	(3)	(1)
To supervisory, technical, and clerical employees	[4] $4,286,803	[5] $3,866,280	(1)	9,487,382	10.9	(1)
Wage earners (average for year) [6]	9,662	8,978	10,026	13,109	7.6	−10.5
Wages	$8,585,752	$7,469,884	$9,673,527	$13,762,961	14.9	−22.8
Cost of materials, etc., total	44,532,305	33,174,743	44,184,334	58,298,879	34.2	−24.9
Cost of materials, supplies, and containers	44,084,652	(1)	(1)	57,717,602	(1)	(1)
Cost of fuel	214,560	(1)	(1)	300,530	(1)	(1)
Cost of purchased electric energy	233,093	(1)	(1)	280,747	(1)	(1)
Value of products	119,529,172	97,048,992	153,818,139	193,440,550	23.2	−36.9
Value added by manufacture [7]	74,996,867	63,874,249	109,633,805	135,141,671	17.4	−41.7

* Not strictly comparable with later years because of changes in classification in 1931.

[1] No data.

[2] No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

[3] Data incomplete.

[4] Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 379; salaries, $1,258,171. Technical, 170; salaries, $454,207. Clerical. 2,234; salaries, $2,574,425. See sec. 10, p. 7.

[5] Supervisory, 402; salaries, $1,532,089. Clerical and other, 1,881; salaries, $2,334,191. See sec, 10 p. 7.

[6] See sec. 11, p. 7.

[7] Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, containers, fuel, and purchased energy	Value of products	Value added by manufacture
United States	558	3,466	9,662	$7,535,581	$8,585,752	$44,532,305	$119,529,172	$74,996,867
Alabama	3	8	7	13,105	5,898	29,342	74,877	45,535
California	32	131	376	339,855	427,665	1,636,386	4,193,937	2,557,551
Colorado	3	5	9	6,054	7,249	46,547	79,699	33,152
Georgia	10	25	49	56,362	30,362	178,658	354,154	175,496
Illinois	69	292	859	547,123	721,437	4,384,680	13,188,917	8,804,237
Indiana	13	34	72	47,876	64,972	403,343	788,835	385,492
Iowa	5	120	259	224,038	196,845	1,036,136	2,672,756	1,636,620
Louisiana	3	8	7	10,931	5,058	27,796	89,328	61,532
Maryland	8	16	45	20,457	23,288	286,528	421,713	135,185
Massachusetts	16	56	90	67,598	75,398	246,647	767,946	521,299
Minnesota	17	76	109	161,267	90,619	516,082	1,529,217	1,013,135
Missouri	36	234	375	421,091	293,016	1,484,143	4,321,328	2,837,185
Nebraska	3	9	8	10,660	5,529	19,918	52,750	32,832
New Jersey	30	425	1,199	1,116,890	1,207,101	8,753,756	27,450,217	18,696,461
New York	207	1,451	4,357	3,297,866	3,868,087	17,290,057	44,525,335	27,235,278
Pennsylvania	22	60	143	115,541	115,674	820,532	1,331,883	511,351
Tennessee	8	75	200	190,649	132,014	727,673	1,379,343	651,670
Texas	14	28	81	83,067	55,320	480,751	765,768	285,017
Washington	6	15	16	44,623	12,554	58,825	170,302	111,477
Wisconsin	3	10	39	26,015	29,845	63,661	154,325	90,664
Other States [1]	50	388	1,362	724,513	1,217,821	6,040,844	15,216,542	9,175,698

[1] Connecticut, 5 establishments; District of Columbia, 2; Florida, 2; Kentucky, 3; Maine, 1; Michigan, 5; Mississippi, 2; New Hampshire, 1; Ohio, 22; Oklahoma, 1; Oregon, 1; Utah, 2; Virginia, 3.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year [1]	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States													
1935	9,672	9,561	9,732	9,900	9,672	9,241	9,172	9,112	9,233	9,769	10,502	10,347	9,827
1933	8,978	(*)	(*)	8,315	(*)	(*)	8,585	(*)	(*)	9,783	(*)	(*)	9,751
States, 1935													
Alabama	7	7	7	7	7	7	7	7	7	7	7	7	7
California	376	401	374	371	376	336	338	343	351	399	408	402	414
Colorado	9	8	9	10	8	9	9	10	8	9	10	9	9
Connecticut	304	304	318	326	312	302	291	282	282	301	314	315	302
Georgia	49	47	47	47	47	49	50	49	49	51	51	47	48
Illinois	867	930	970	913	812	847	774	788	833	830	885	947	878
Indiana	72	72	74	72	70	66	70	68	70	77	75	73	75
Iowa	259	235	241	257	263	261	245	250	258	279	280	273	264
Kentucky	12	12	12	13	13	13	13	13	12	13	12	11	12
Louisiana	8	6	8	8	8	8	9	9	9	8	6	6	5
Maryland	45	44	44	44	44	44	43	45	46	47	47	47	47
Massachusetts	90	85	89	91	100	99	89	92	77	87	92	91	92
Michigan	70	79	80	89	80	65	65	65	65	65	64	62	62
Minnesota	109	104	106	111	115	113	111	111	108	107	114	104	104
Missouri	375	299	310	348	357	365	371	369	401	432	443	424	383
Nebraska	8	8	8	8	8	8	8	8	8	8	8	8	8
New Jersey	1,199	1,126	1,164	1,240	1,229	1,188	1,197	1,193	1,180	1,209	1,243	1,222	1,192
New York	4,357	4,357	4,350	4,408	4,300	4,157	4,062	4,006	4,139	4,372	4,862	4,782	4,491
Ohio	842	815	900	916	899	712	801	802	720	819	920	912	888
Pennsylvania	143	143	129	132	142	144	143	146	149	147	160	154	139
Tennessee	202	216	215	219	219	200	210	182	190	212	215	174	173
Texas	81	82	96	84	83	80	82	81	79	84	82	75	59
Virginia	57	52	53	55	57	57	56	59	57	59	59	60	60
Washington	16	15	17	19	19	18	14	14	14	14	14	16	16
Wisconsin	39	43	40	39	30	24	35	35	44	46	50	50	34

* Data incomplete. See last sentence, second paragraph, sec. 11, p. 7.

[1] As the 1935 averages given in this table are derived from the figures for the 12 months in the calendar year, some of them differ from the corresponding averages in table 2, which are derived in part from figures for months in fiscal years differing from the calendar year. See sec. 11, p. 7.

TABLE 4.—PRODUCTS, BY KIND AND VALUE: 1935, 1931, AND 1929

[No comparable figures available for 1933. See sec. 4, p. 3]

	1935	1931	1929
1. "Perfumes, Cosmetics, and Other Toilet Preparations" industry, all products, total value	$119,529,172	$153,818,139	[1] $193,440,550
2. Perfumes, cosmetics, and other toilet preparations	99,643,505	[2] 126,791,355	[1] 165,720,043
3. Other products (not normally belonging to the industry)	19,885,667	[2] 27,026,784	[1] 27,720,507
4. Perfumes, cosmetics, and other toilet preparations made as secondary products in other industries	29,794,147	[1] 39,466,003	[1] 35,969,111
Perfumes, cosmetics, and other toilet preparations, aggregate value (2 and 4)	129,437,652	[1] 166,257,358	[1] 201,689,154
Perfumes	8,132,838	10,350,722	19,197,844
Toilet waters	3,330,441	4,652,993	8,264,132
Creams, other than shaving cream	14,430,014	25,124,553	33,347,464
Rouges:			
Lipstick and lip rouge	4,714,330	5,100,047	12,308,969
Other rouges	2,574,273	5,629,874	
Dentrifices	29,722,047	35,699,132	32,463,698
Depilatories	573,961	1,639,696	1,551,633
Shampoos:			
Containing soap	2,927,933	4,087,052	5,796,526
Containing no soap	1,229,121		
Face powders	11,204,874	18,871,771	24,037,625
Talcum powders	5,095,403	8,417,995	8,343,697
Other toilet powders	3,529,151	2,543,202	2,340,008
Hair dyes	2,025,468	2,999,172	3,327,259
Hair tonics	3,955,855	7,384,152	10,339,232
Face lotions	5,566,415	5,816,761	40,371,067
Hair dressings	5,064,291	5,505,819	
Deodorants, for human use	3,028,564	2,802,169	
Bath salts	758,288	19,632,248	
Manicure preparations	5,665,537		
Shaving cream containing no soap [3]	1,012,535		
Other toilet preparations	14,896,313		

[1] Because of a reclassification of certain products, the figures to which this note is indexed are not strictly comparable with the corresponding ones for subsequent years.
[2] Adjusted for comparison with 1935.
[3] Shaving cream with soap base is classified as a product of the Soap industry. (See "Description of the industry," p. 711.) The total production of shaving cream, including that containing soap, in 1935 was valued at $7,957,009.

RAYON AND ALLIED PRODUCTS

[A preliminary report for this industry was issued June 8, 1936]

Description of the industry.—The principal products of the establishments classified in this industry are rayon yarns and allied products in sheets and other forms. As the processes employed are chemical in character, the industry is assigned to the "Chemicals and Allied Products" group (1 of the 16 major or general groups covered by the Manufactures Census classification).

Establishments engaged primarily in the further manufacture of products from rayon as a material are classified in the Rayon Manufactures "related-industry group," which is included in the "Textiles and Their Products" major group. (See page 375.)

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (−)	
					1933–1935	1929–1935
Number of establishments	32	34	32	29	(*)	(*)
Salaried personnel, total [1]	3,607	(2)	(3)	2,278	(2)	58.3
Salaried officers of corporations	33	(2)	(3)	51	(2)	(*)
Supervisory, technical, and clerical employees	[4] 3,574	[5] 2,395	(3)	2,227	49.2	60.5
Salaries paid, total [1]	$7,923,353	(2)	(3)	$5,768,565	(2)	37.4
To salaried officers of corporations	$461,838	(2)	(3)	$654,905	(2)	−29.5
To supervisory, technical, and clerical employees	[4] $7,461,515	[5] $5,095,259	(3)	$5,113,660	46.4	45.9
Wage earners (average for year) [6]	50,550	44,306	38,735	39,106	14.1	29.3
Wages	$50,693,182	$38,612,632	$38,231,493	$44,697,129	31.3	13.4
Cost of materials, etc., total	64,505,631	44,031,316	36,180,858	33,334,753	46.5	93.5
Cost of materials and supplies	58,229,083	(3)	(3)	29,015,713	(3)	100.7
Cost of fuel	4,380,064	(3)	(3)	2,873,160	(3)	52.4
Cost of purchased electric energy	1,896,484	(3)	(3)	1,445,880	(3)	31.2
Value of products	185,159,534	156,931,519	132,632,416	149,546,107	18.0	23.8
Value added by manufacture [7]	120,653,903	112,900,203	96,451,558	116,211,354	6.9	3.8

*Percent not computed where base is less than 100.

[1] No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

[2] Data incomplete.

[3] No data.

[4] Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 1,109; salaries, $3,676,923. Technical, 495; salaries, $1,212,751. Clerical, 1,970; salaries, $2,571,841. See sec. 10, p. 7.

[5] Supervisory, 880; salaries, $3,168,490. Clerical and other, 1,515; salaries, $1,926,769. See sec. 10, p. 7.

[6] See sec. 11, p. 7.

[7] Value of products less cost of materials, supplies, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 1 and 7, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, etc., fuel, and purchased energy	Value of products	Value added by manufacture
United States	32	3,607	50,550	$7,923,353	$50,693,182	$64,505,631	$185,159,534	$120,653,903
Tennessee	5	817	9,865	1,646,599	9,731,233	15,341,705	41,408,028	26,066,323
Virginia	6	714	10,953	1,428,192	11,129,629	14,675,802	45,086,879	30,411,077
Other States [1]	21	2,076	29,732	4,848,562	29,832,320	34,488,124	98,664,627	64,176,503

[1] Connecticut, 1 establishment; Delaware, 1; Georgia, 1; Illinois, 2; Maryland, 1; Massachusetts, 2; New Jersey, 1; New York, 4; North Carolina, 1; Ohio, 1; Pennsylvania, 3; Rhode Island, 1; West Virginia, 1; Wisconsin, 1.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States													
1935	50,550	49,887	50,947	51,127	49,087	48,448	48,512	48,741	50,306	52,127	52,398	52,427	52,590
1933	44,306	39,688	39,242	37,472	36,761	39,069	41,475	46,101	50,543	50,779	50,672	50,400	49,474
States, 1935													
Tennessee	9,865	10,098	10,365	10,331	9,663	9,693	9,687	9,503	9,659	9,832	9,865	9,776	9,905
Virginia	10,953	10,200	10,557	10,617	10,637	10,570	10,790	10,984	11,263	11,478	11,525	11,436	11,384

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929
Rayon and Allied Products industry, all products, total value	$185,159,534	$156,931,519	$132,632,416	$149,546,107
Rayon yarns and allied products	178,666,593	156,931,519	132,632,416	149,546,107
Other products (not normally belonging to the industry)	6,492,941			
Yarns:				
Total pounds	257,557,347	213,497,850	150,879,496	116,632,378
Total value	$146,067,470	$129,202,305	$112,282,407	$140,846,595
Finer than 125 denier:				
Pounds	58,496,218	61,165,733	32,959,202	12,813,845
Value	$42,776,701	$46,684,931	$30,525,206	$21,176,640
125 to 150 denier:				
Pounds	152,156,504	129,538,587	100,022,948	85,528,539
Value	$80,790,324	$71,587,582	$70,725,448	$101,494,715
Heavier than 150 denier:				
Pounds	46,904,625	22,793,530	17,897,346	18,289,994
Value	$22,500,445	$10,929,792	$11,031,753	$18,175,240
Allied products, value	[1] $32,599,123	[2] $27,729,214	[2] $20,350,009	[2] $3,699,512

[1] In order of value, transparent sheets, sausage casings, staple, waste, and cellulose caps and bands.
[2] Includes value of "Other products (not normally belonging to the industry)."

SALT

Description of the industry.—The Salt industry embraces establishments engaged primarily in the manufacture of commercial salt, whether from rock salt or from natural or artificial brines. The greater part of the product is brine salt, which is obtained mainly by running fresh water into bore-holes in beds of rock salt, pumping the artificial brine to the surface, and evaporating it. In a few places natural brine is pumped to the surface and evaporated, and in some cases salt is extracted from the ocean and from salt lakes. No data are included for the salt content of brine produced and used in the same plants in the manufacture of chemicals.

No detailed statistics on quantities and values of salt produced are compiled by the Census Bureau, as such statistics are published annually by the United States Bureau of Mines.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (—)	
					1933–1935	1929–1935
Number of establishments	48	50	53	58	(*)	(*)
Proprietors and firm members	2	----------	(1)	2	--------	--------
Salaried personnel, total [2]	572	(3)	(1)	756	(3)	−24.3
Salaried officers of corporations	43	(3)	(1)	73	(3)	(*)
Supervisory, technical, and clerical employees	[4] 529	[5] 413	(1)	683	28.1	−22.5
Salaries paid, total [2]	$1,510,273	(3)	(1)	$2,044,673	(3)	−26.1
To salaried officers of corporations	$343,786	(3)	(1)	$600,299	(3)	−42.7
To supervisory, technical, and clerical employees	[4] $1,166,487	[5] $944,572	(1)	$1,444,374	23.5	−19.2
Wage earners (average for year) [6]	4,976	5,036	4,728	5,458	−1.2	−8.8
Wages	$4,883,677	$4,814,150	$5,549,119	$6,735,484	1.4	−27.5
Cost of materials, etc., total	$10,933,009	$9,153,885	$10,863,679	$14,187,797	19.4	−22.9
Cost of materials, supplies, and containers	$8,467,283	(1)	(1)	$11,003,836	(1)	−23.1
Cost of fuel	$2,171,219	(1)	(1)	$2,859,644	(1)	−24.1
Cost of purchased electric energy	$294,507	(1)	(1)	$324,317	(1)	−9.2
Value of products	$29,720,004	$29,011,281	$31,429,873	$37,868,697	2.4	−21.5
Value added by manufacture [7]	$18,786,995	$19,857,396	$20,566,194	$23,680,900	−5.4	−20.7

* Percent not computed where base is less than 100.
[1] No data.
[2] No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.
[3] Data incomplete.
[4] Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 165; salaries, $559,903. Technical, 38; salaries, $86,359. Clerical, 326; salaries, $520,225. See sec. 10, p. 7.
[5] Supervisory, 103; salaries, $474,635. Clerical and other, 310; salaries, $469,937. See sec. 10, p. 7.
[6] See sec. 11, p. 7.
[7] Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, containers, fuel, and purchased energy	Value of products	Value added by manufacture
United States	48	572	4,976	$1,510,273	$4,883,677	$10,933,009	$29,720,004	$18,786,995
California	9	60	417	220,468	463,695	883,166	2,585,199	1,702,033
Kansas	7	62	830	149,314	674,199	1,243,897	3,741,538	2,497,641
Louisiana	4	74	686	142,079	415,810	1,325,144	3,995,509	2,670,365
Michigan	7	133	1,077	278,971	1,279,377	2,955,004	7,264,147	4,309,143
Ohio	5	91	635	259,105	694,113	1,439,380	2,895,994	1,456,614
West Virginia	3	13	89	28,000	76,910	163,845	269,051	105,206
Other States [1]	13	139	1,243	432,336	1,279,573	2,922,573	8,968,566	6,045,993

[1] Minnesota, 1 establishment; New York, 5; Oklahoma, 1; Texas, 4; Utah, 2.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States													
1935	4,976	4,996	4,944	4,975	4,934	4,841	4,730	4,893	4,961	5,048	5,262	5,171	4,961
1933	5,036	4,441	4,464	4,422	4,452	4,569	4,796	5,157	5,465	5,586	6,040	5,719	5,325
States, 1935													
California	417	320	315	317	307	317	303	419	496	511	598	585	521
Kansas	830	838	821	794	826	819	799	831	834	847	846	856	845
Louisiana	686	730	719	737	752	726	654	688	655	640	640	645	640
Michigan	1,077	1,071	1,062	1,062	1,056	1,047	1,054	1,063	1,083	1,115	1,161	1,092	1,060
New York	815	789	815	862	802	790	787	795	824	836	814	835	806
Ohio	635	663	655	623	610	616	609	615	620	639	661	662	648
Texas	276	275	274	270	266	225	237	275	273	283	325	326	284
West Virginia	89	91	86	88	86	82	91	87	89	89	97	93	88

SOAP

[A preliminary report for this industry was issued Jan. 8, 1937]

Description of the industry.—The Soap industry, as constituted for Census purposes, consists in the manufacture, as a primary product, of soap in bars and cakes and in granulated, powdered, and liquid form, and of cleansers, scouring powders, and washing compounds *containing soap made in the same factories.* (Manufacturers of similar preparations containing no soap are classified in the Cleaning and Polishing Preparations industry. Some of these manufacturers also make cleansers, etc., containing soap, as secondary products, using purchased soap as a material.)

Since the publication of the 1933 statistics, several establishments, some of them important, have shifted their major production from soap to cosmetics or other products. As it is necessary to classify each establishment *as a whole* in one or another industry on the basis of its product or products of chief value, this has resulted in the reclassification of these establishments. This reclassification should be borne in mind in comparing the figures for earlier years with those for 1935, as given in table 1. (The comparableness of the figures in table 3 is not affected by the change.)

Omission of State statistics except for wage-earner employment.—As no figures for wages, cost of materials, value of products, and value added by manufacture can be given for the most important State in this industry, namely, New Jersey, without disclosing approximations of data for individual establishments, and as those States for which it would be possible to publish separate figures without disclosing such approximations of data accounted for less than one-half of the total activity of the industry (as measured by number of wage earners employed) in the United States in 1935, the publication of statistics for those States for which separate figures could be given would be misleading, and therefore no such statistics are included in this report. In table 2, however, figures are given for each State represented by three or more establishments, even though one or two of these establishments reported most of the wage earners employed in the industry in the State. (See sec. 23, p. 12.)

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (—)	
					1933–1935	1929–1935
Number of establishments	[1] 238	235	248	282	1.3	—15.6
Proprietors and firm members	62	58	(2)	86	(*)	(*)
Salaried personnel, total [3]	3,142	(4)	(2)	4,688	(4)	—33.0
Salaried officers of corporations	272	(4)	(2)	357	(4)	—23.8
Supervisory, technical, and clerical employees	[5] 2,870	[6] 3,524	(2)	4,331	—18.6	—33.7
Salaries paid, total [3]	$7,051,102	(4)	(2)	$11,503,662	(4)	—38.7
To salaried officers of corporations	$1,725,989	(4)	(2)	$2,784,015	(4)	—38.0
To supervisory, technical, and clerical employees	[5] $5,325,113	[6] $6,310,898	(2)	$8,719,647	—15.6	—38.9
Wage earners (average for year) [7]	13,911	14,304	14,163	14,363	—2.7	—3.1
Wages	$15,339,045	$14,140,241	$17,739,732	$18,994,656	8.5	—19.2
Cost of materials, etc., total	$139,423,048	$93,507,390	$121,829,338	$180,352,984	49.1	—22.7
Cost of materials, supplies, and containers	$136,046,133	(2)	(2)	$176,823,766	(2)	—23.1
Cost of fuel	$2,614,685	(2)	(2)	$2,762,490	(2)	—5.4
Cost of purchased electric energy	$762,230	(2)	(2)	$766,728	(2)	—0.6
Value of products	$239,152,130	$200,127,929	$257,718,699	$310,191,530	19.5	—22.9
Value added by manufacture [8]	$99,729,082	$106,620,539	$135,889,361	$129,838,546	—6.5	—23.2

* Percent not computed where base is less than 100.

[1] Alabama, 1 establishment; California, 31; Colorado, 1; Connecticut, 3; Georgia, 1; Illinois, 20; Indiana, 8; Iowa, 3; Kansas, 3; Louisiana, 2; Maryland, 2; Massachusetts, 21; Michigan, 5; Minnesota, 6; Missouri, 11; Nebraska, 1; Nevada, 1; New Jersey, 19; New York, 39; North Carolina, 1; Ohio, 18; Oregon, 2; Pennsylvania, 21; Rhode Island, 3; Tennessee, 1; Texas, 5; Washington, 4; Wisconsin, 5.

[2] No data.

[3] No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

[4] Data incomplete.

[5] Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 949; salaries, $2,557,745. Technical, 316; salaries, $639,729. Clerical, 1,605; salaries, $2,127,639. See sec. 10, p. 7.

[6] Supervisory, 643; salaries, $2,104,926. Clerical and other, 2,881; salaries, $4,205,972. See sec. 10, p. 7.

[7] See sec. 11, p. 7.

[8] Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States													
1935	[1] 13,883	13,817	14,416	14,506	14,065	13,406	13,666	13,590	13,495	13,996	14,224	14,184	13,227
1933	14,304	(*)	(*)	12,993	(*)	(*)	13,998	(*)	(*)	16,222	(*)	(*)	14,619
States, 1935													
California	900	864	884	934	914	920	900	870	901	906	944	919	844
Connecticut	168	150	152	153	150	166	175	178	184	181	177	186	159
Illinois	1,700	1,736	1,839	1,894	1,785	1,574	1,669	1,668	1,659	1,712	1,669	1,634	1,558
Indiana	1,118	1,058	1,152	1,187	1,201	1,126	1,098	1,055	1,085	1,078	1,116	1,194	1,071
Iowa	233	215	289	283	207	245	233	232	208	227	229	216	213
Kansas	761	778	793	809	813	779	793	748	737	725	733	718	709
Massachusetts	1,272	1,255	1,284	1,256	1,283	1,253	1,257	1,269	1,262	1,280	1,269	1,374	1,221
Michigan	8	8	8	8	8	8	8	8	8	8	8	8	8
Minnesota	40	36	36	35	45	37	38	41	38	39	45	45	44
Missouri	430	532	588	496	419	400	394	337	399	437	453	368	337
New Jersey	2,201	2,220	2,236	2,264	2,215	2,008	2,063	2,127	2,085	2,352	2,433	2,347	2,062
New York	1,637	1,508	1,640	1,671	1,604	1,504	1,598	1,674	1,692	1,694	1,729	1,709	1,617
Ohio	2,189	2,230	2,188	2,179	2,236	2,183	2,189	2,158	2,175	2,173	2,185	2,219	2,149
Pennsylvania	601	561	616	614	554	582	604	591	563	609	633	645	643
Rhode Island	20	19	19	19	21	21	20	20	20	20	20	20	20
Texas	27	28	27	26	26	26	27	29	29	27	27	27	28
Washington	36	39	38	27	37	36	37	37	36	36	36	37	36
Wisconsin	33	34	35	35	35	35	35	33	30	30	30	32	30

*Data incomplete. See last sentence, second paragraph, sec. 11, p. 7.

[1] As the 1935 average given in this table is derived from the figures for the 12 months in the calendar year, it differs somewhat from the corresponding average in table 1, which is derived in part from figures for months in fiscal years differing from the calendar year. See sec. 11, p. 7.

TABLE 3.—PRODUCTS, BY KIND, QUANTITY, AND VALUE: 1935, 1931, and 1929

[No comparable figures for 1933 are available (see sec. 4, p. 3); and owing to extensive revisions in the questionnaire used in the 1935 Census, no comparable figures for certain items can be given for any earlier year]

	1935	1931	1929
1. Soap industry, all products, total value	$239, 152, 130	$257, 718, 699	$310, 191, 530
2. Soap	211, 004, 391	228, 330, 828	274, 839, 304
3. Other products (not normally belonging to the industry)	28, 147, 739	29, 387, 871	35, 352, 226
4. Soap made as a secondary product in other industries, value	$12, 804, 189	$9, 731, 294	$11, 917, 571
Soap, aggregate value (sum of 2 and 4)	$223, 808, 580	$238, 062, 122	$286, 756, 875
Bar soap:			
Toilet soap:			
Pounds	352, 976, 104	305, 638, 280	324, 383, 543
Value	$53, 324, 747	$53, 064, 155	$59, 982, 997
Laundry soap:			
White:			
Pounds	420, 524, 270	787, 731, 756	914, 588, 831
Value	$19, 937, 559	$33, 282, 684	$51, 175, 255
Yellow:			
Pounds	713, 540, 726	643, 372, 418	550, 593, 948
Value	$31, 402, 714	$35, 102, 433	$40, 774, 488
Granulated, powdered, and sprayed soap:			
Pounds	503, 117, 738	421, 803, 780	337, 291, 356
Value	$45, 283, 702	$40, 976, 787	$35, 724, 861
Soap chips and flakes:			
Packaged:			
Pounds	307, 274, 876		
Value	$25, 615, 958	351, 076, 793	387, 925, 004
Bulk: Pounds	151, 659, 892	$30, 353, 303	$41, 763, 903
Value	$10, 713, 357		
Washing powders:			
Packaged:			
Pounds	132, 681, 612		
Value	$5, 535, 464	262, 711, 499	
Bulk: Pounds	86, 366, 692	$12, 058, 920	
Value	$2, 210, 182		
Cleansers and scouring powders containing soap: [1]			505, 529, 239
Packaged:			$23, 387, 172
Pounds	196, 233, 597		
Value	$6, 186, 478	164, 067, 301	
Bulk: Pounds	37, 353, 855	$6, 382, 874	
Value	$1, 501, 227		
Shaving soap, total value	$9, 218, 385	$11, 553, 281	$10, 793, 908
Stick, powder, and cake, total value	$2, 273, 911		
Quantity reported:			
Pounds	6, 152, 233		
Value	$2, 119, 581		
Quantity not reported, value	$154, 330	(2)	(2)
Cream (soap base)[3], total value	$6, 944, 474		
Quantity reported:			
Pounds	6, 716, 026		
Value	$5, 695, 920		
Quantity not reported, value	$1, 248, 554		
Liquid soap, not including packaged shampoos, total value	$1, 972, 821		
Quantity reported:		33, 626, 668	35, 263, 195
Pounds	22, 592, 738	$2, 421, 266	$3, 497, 384
Value	$1, 523, 154		
Quantity not reported, value	$449, 667		
Soap stock or soap base, made for sale as such:			
Pounds	3, 665, 376	8, 977, 784	4, 106, 339
Value	$270, 406	$546, 682	$292, 323
Bar cleansers containing soap:			
Pounds	9, 882, 633		
Value	$471, 884		
Hand pastes or mechanics' pastes:			
Pounds	14, 174, 407		
Value	$792, 004		
Textile soap, including potash and foots soaps for textile manufacture:		$12, 319, 737	$19, 364, 584
Pounds	70, 052, 236		
Value	$5, 350, 238		
Potash soap, other than textile and liquid:			
Pounds	20, 803, 830		
Value	$1, 483, 537		
Soap not reported according to classifications above, value	$2, 537, 917		

[1] For statistics on cleansers and scouring powders containing no soap, see report for "Cleaning and Polishing Preparations." [2] No comparable data.

[3] Shaving cream containing no soap is classified as a product of the "Perfumes, Cosmetics, and Other Toilet Preparations" industry. The total production of shaving cream, with and without soap, in 1935, was valued at $7,957,009.

TANNING MATERIALS, NATURAL DYESTUFFS, MORDANTS AND ASSISTANTS, AND SIZES

[A preliminary report for this industry was issued Apr. 1, 1937]

Description of the industry.—The principal products of the establishments classified in this industry are tanning extracts and solutions, natural dyestuffs, mordants, assistants (substances which aid the dyeing process without combining chemically with the dye or the mordant), and sizes. The natural dyestuffs are made from woods, barks, leaves, berries, and other vegetable materials. (Artificial or synthetic dyes are products of the "Chemicals not Elsewhere Classified" industry.)

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (−)	
					1933–1935	1929–1935
Number of establishments	154	124	116	126	24.2	22.2
Proprietors and firm members	24	20	(1)	34	(*)	(*)
Salaried personnel, total [2]	906	(3)	(1)	709	(3)	27.8
Salaried officers of corporations	174	(3)	(1)	146	(3)	19.2
Supervisory, technical, and clerical employees	[4] 732	[5] 498	(1)	563	47.0	30.0
Salaries paid, total [2]	$3,015,581	(3)	(1)	$2,805,779	(3)	7.5
To salaried officers of corporations	$1,297,929	(3)	(1)	$1,117,461	(3)	16.1
To supervisory, technical, and clerical employees	[4] $1,717,652	[5] $1,121,425	(1)	$1,688,318	53.2	1.7
Wage earners (average for year) [6]	2,651	2,141	1,962	2,419	23.8	9.6
Wages	$2,636,004	$2,212,359	$2,390,118	$3,113,617	19.1	−15.3
Cost of materials, etc., total	19,704,046	13,518,005	15,520,635	25,335,629	45.8	−22.2
Cost of materials, supplies, and containers	18,027,240	(1)	(1)	24,543,459	(1)	−26.5
Cost of fuel	1,378,914	(1)	(1)	652,135	(1)	111.4
Cost of purchased electric energy	297,892	(1)	(1)	140,035	(1)	112.7
Value of products	33,638,800	23,322,328	26,469,119	39,836,035	44.2	−15.6
Value added by manufacture [7]	13,934,754	9,804,323	10,948,484	14,500,406	42.1	−3.9

*Percent not computed where base is less than 100.

[1] No data.

[2] No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

[3] Data incomplete.

[4] Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 179; salaries, $718,276. Technical, 199; salaries, $509,660. Clerical, 354; salaries, $489,716. See sec. 10, p. 7.

[5] Supervisory, 198; salaries, $665,187. Clerical and other, 300; salaries, $456,238. See sec. 10, p. 7.

[6] See sec. 11, p. 7.

[7] Value of products less cost of materials, supplies, containers, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, etc., fuel, and purchased energy	Value of products	Value added by manufacture
United States	154	906	2,651	$3,015,581	$2,636,004	$19,704,046	$33,638,800	$13,934,754
Georgia	6	16	91	65,302	59,046	707,853	1,019,442	311,589
Massachusetts	26	107	187	331,183	227,555	2,197,125	3,393,603	1,196,478
New Jersey	33	344	585	1,205,838	688,983	6,756,555	11,121,436	4,364,881
New York	14	65	168	237,748	204,365	1,556,328	2,700,152	1,143,824
North Carolina	7	55	354	136,347	299,596	1,507,559	2,594,674	1,087,115
Pennsylvania	23	123	255	409,549	304,230	1,770,102	3,243,714	1,473,612
Rhode Island	12	53	59	201,201	73,567	797,550	1,248,202	450,652
South Carolina	3	4	8	9,700	4,800	61,678	99,000	37,322
Tennessee	6	30	259	99,684	215,123	693,826	1,829,017	1,135,191
Virginia	6	17	212	46,765	144,239	562,326	1,202,239	639,913
Other States [1]	18	92	474	272,264	414,500	3,093,144	5,187,321	2,094,177

[1] Alabama, 2 establishments; California, 2; Connecticut, 1; Delaware, 1; Florida, 2; Illinois, 4; Maryland, 1; Michigan, 2; Missouri, 1; Oregon, 1; Wisconsin, 1. See sec. 23, p. 12.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year [1]	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States													
1935	2,661	2,670	2,586	2,661	2,674	2,643	2,593	2,632	2,723	2,597	2,726	2,680	2,751
1933	2,141	(*)	(*)	1,777	(*)	(*)	2,055	(*)	(*)	2,429	(*)	(*)	2,461
States, 1935													
Georgia	91	88	90	90	91	88	89	87	93	99	93	91	95
Illinois	12	10	8	10	12	11	14	11	13	12	12	14	13
Massachusetts	187	187	188	190	192	190	188	184	180	183	184	184	188
New Jersey	595	604	585	598	588	602	592	601	590	586	592	594	605
New York	168	165	167	164	169	172	172	170	171	170	173	167	160
North Carolina	354	374	305	354	368	340	309	343	377	344	398	362	379
Pennsylvania	255	255	254	259	260	261	255	272	253	243	255	236	251
Rhode Island	59	55	59	63	59	51	51	58	61	61	62	64	64
South Carolina	8	7	8	8	8	8	7	7	7	8	8	8	8
Tennessee	259	265	266	261	258	258	253	257	256	250	257	258	264
Virginia	212	194	214	211	210	213	206	220	208	160	239	234	235

* Data incomplete. See last sentence, second paragraph, sec. 11, p. 7.

[1] As the averages for 1935 given in this table are derived from the figures for the 12 months in the calendar year, those for the United States and New Jersey differ from the corresponding averages in table 2, which are derived in part from figures for months in fiscal years differing from the calendar year. See sec. 11, p. 7.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929
1. "Tanning Materials, Natural Dyestuffs, Mordants and Assistants, and Sizes" industry, all products, total value	$33, 638, 800	$23, 322, 328	$26, 469, 119	$39, 836, 035
2. Tanning materials, natural dyestuffs, mordants and assistants, and sizes	$26, 530, 270	$18, 806, 308	$22, 334, 694	$31, 135, 085
3. Other products (not normally belonging to the industry)	$7, 108, 530	$3, 574, 938	$4, 134, 425	$8, 700, 950
4. Tanning materials, etc., and other products not reported separately (on abridged questionnaire) [1]	----------	$941, 082	----------	----------
5. Tanning materials, etc., made as secondary products in other industries, value	$3, 922, 936	$2, 251, 641	$1, 756, 121	$2, 479, 806
Tanning materials, natural dyestuffs, mordants and assistants, and sizes, aggregate value (sum of 2 and 5)	$30, 453, 206	$21, 057, 949	$24, 090, 815	$33, 614, 891
TANNING MATERIALS				
Total value	$9, 919, 193	$7, 016, 804	$8, 251, 633	$9, 957, 869
Extracts:				
Chestnut (solid and liquid):				
Number of establishments	13	15	17	17
Pounds [2]	302, 842, 353	236, 065, 390	229, 276, 138	270, 162, 089
Value	$4, 588, 388	$3, 516, 974	$3, 643, 611	$4, 001, 327
Quebracho (solid and liquid):				
Number of establishments	8	5	6	7
Pounds [2]	81, 226, 404	33, 708, 859	76, 469, 460	100, 066, 938
Value	$1, 404, 418	$763, 366	$1, 857, 198	$3, 229, 073
Sumac (liquid): [3]				
Number of establishments	7	7	6	6
Pounds [2]	3, 551, 769	6, 452, 367	5, 809, 278	5, 279, 069
Value	$203, 923	$301, 255	$369, 716	$343, 680
Myrobalans (solid and liquid):				
Number of establishments	5	4	5	(4)
Pounds	3, 473, 508	788, 069	2, 265, 579	
Value	$81, 278	$25, 416	$66, 316	
Oak (solid and liquid):				
Number of establishments	7	(4)	8	6
Pounds [2]	11, 075, 522		5, 123, 001	7, 826, 963
Value	$269, 733		$167, 359	$295, 084
Gambier (solid and liquid):				
Number of establishments	6	(4)	(4)	(4)
Pounds [2]	660, 694			
Value	$40, 997			
Other extracts (solid and liquid), value	$356, 087	[5] $627, 254	$2, 147, 433	[5] $2, 088, 705
Other tanning materials, value	$2, 974, 369	$1, 782, 539		
NATURAL DYESTUFFS				
Total value	$941, 524	$1, 133, 453	$1, 615, 990	$2, 425, 984
Logwood (solid and liquid):				
Number of establishments	7	6	7	5
Pounds	8, 706, 466	10, 826, 678	17, 031, 756	19, 337, 708
Value	$744, 419	$870, 393	$1, 250, 594	$1, 843, 448
Fustic (solid and liquid):				
Number of establishments	3	$263, 060	$365, 396	$582, 536
Pounds	1, 359, 698			
Value	$100, 287			
Other natural dyestuffs—extracts (solid and liquid) and ground, chipped, and dry, value	$96, 818			
MORDANTS				
Total value	$537, 947	$458, 611	$449, 276	$1, 173, 427
Tannic acid:				
Number of establishments	6	5	4	4
Pounds [6]	724, 552	682, 462	667, 212	1, 449, 375
Value	$304, 728	$236, 125	$250, 874	$503, 567
Other, value	$233, 219	$222, 486	$198, 402	$669, 860

For footnotes, see end of table.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1929 TO 1935—Continued

	1935	1933	1931	1929
ASSISTANTS				
Total value	$11,440,495	$6,216,182	$5,722,206	$6,893,561
Sulphonated oils and fats:				
Castor:				
Number of establishments	57			
Pounds	18,389,647			
Value	$1,790,300			
Olive:				
Number of establishments	40			
Pounds	8,108,119			
Value	$1,096,523			
Cod:				
Number of establishments	13			
Pounds	7,613,207			
Value	$490,789			
Tallow:				
Number of establishments	30	(7)	(7)	(7)
Pounds	8,725,241			
Value	$554,402			
Other, value	$1,424,229			
Softeners, soluble oils, and greases:				
Number of establishments	67			
Total value	$4,603,083			
Quantity reported:				
Pounds	43,993,223			
Value	$3,896,402			
Quantity not reported, value	$706,681			
Other assistants [8], value	$1,481,169			
SIZES				
Total value	$7,614,047	$6,232,899	$8,051,710	$13,164,050
Dextrin:				
Pounds	29,492,665	24,173,571	25,164,265	33,506,764
Value	$1,591,041	$1,448,015	$1,513,128	$2,042,926
Gum:				
Total value	$582,867	(9)	$1,210,505	$1,400,566
Quantity reported:				
Pounds	3,266,643	(9)	22,330,203	20,138,178
Value	$416,442		$1,210,505	$1,400,566
Quantity not reported, value	$166,425		----------	----------
Other:				
Total value	$5,440,139	[10] $4,784,884	$5,328,077	$9,720,558
Quantity reported:				
Pounds	172,049,171	[10] 162,776,187	173,483,621	243,650,307
Value	$5,062,223	[10] $4,600,382	$5,328,077	$9,720,558
Quantity not reported, value	$377,916	[10] $184,502	----------	----------

[1] An abridged questionnaire, which did not call for detailed production data, was used in canvassing the smaller establishments at the census for 1933.
[2] For 1935, basis 25 percent tannin; for earlier years, not reported according to strength.
[3] No solid sumac extract reported.
[4] No data for quantity. Value included in figure for "Other extracts."
[5] Includes values covered by footnote 4.
[6] For 1935, basis 100 percent; for earlier years, not reported according to strength.
[7] No data.
[8] Includes synthetic textile assistants.
[9] Included in figures for "Other" sizes.
[10] Includes data for gum.

WOOD DISTILLATION AND CHARCOAL MANUFACTURE

[A preliminary report for this industry was issued Feb. 26, 1937]

Description of the industry.—This industry embraces three classes of establishments: (1) Those engaged in hardwood distillation; (2) those engaged in softwood distillation; (3) those engaged in charcoal manufacture by the use of kilns or of pits. The principal products of hardwood distillation are methanol, acetate of lime and its derivatives, charcoal, and tar. The principal products of softwood distillation are turpentine, rosin, pine oil, tar, tar oils, and charcoal. Two distinct processes are employed in wood distillation, namely, destructive distillation and the steam process.

In the manufacture of charcoal by the carbonizing of wood in kilns or by the pit method the volatile substances are driven off and lost, leaving charcoal and wood tar as the only products.

TABLE 1.—GENERAL STATISTICS FOR THE INDUSTRY AND FOR ITS BRANCHES, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (−)	
					1933–1935	1929–1935
THE INDUSTRY AS A WHOLE						
Number of establishments	60	54	63	91	(*)	(*)
Proprietors and firm members	7	8	(1)	9	(*)	(*)
Salaried personnel, total [2]	506	(3)	(1)	566	(3)	−10.6
Salaried officers of corporations	50	(3)	(1)	91	(3)	(*)
Supervisory, technical, and clerical employees	[4] 456	[5] 291	(1)	475	56.7	−4.0
Salaries paid, total [2]	$941,538	(3)	(1)	$1,479,926	(3)	−36.4
To salaried officers of corporations	$153,614	(3)	(1)	$373,619	(3)	−58.9
To supervisory, technical, and clerical employees	[4] $787,924	[5] $482,840	(1)	$1,106,307	63.2	−28.8
Wage earners (average for year) [6]	3,808	2,731	2,654	4,648	39.4	−18.1
Wages	$2,816,417	$1,781,944	$2,744,963	$5,293,240	58.1	−46.8
Cost of materials, etc., total	$7,923,459	$5,072,824	$6,474,049	$14,791,111	56.2	−46.4
Cost of materials, supplies, and containers	$6,668,460	(1)	(1)	$12,988,550	(1)	−48.7
Cost of fuel	$1,069,055	(1)	(1)	$1,584,733	(1)	−32.5
Cost of purchased electric energy	$185,944	(1)	(1)	$217,828	(1)	−14.6
Value of products	$15,970,917	$11,035,722	$11,440,157	$29,593,672	44.7	−46.0
Value added by manufacture [7]	$8,047,458	$5,962,898	$4,966,108	$14,802,561	35.0	−45.6
HARDWOOD DISTILLATION						
Number of establishments	34	33	43	55	(*)	(*)
Proprietors and firm members	1	4	(1)	(1)	(*)	(1)
Salaried personnel, total [2]	302	(3)	(1)	291	(3)	3.8
Salaried officers of corporations	30	(3)	(1)	(1)	(3)	(1)
Supervisory, technical, and clerical employees	[8] 272	[9] 135	(1)	(1)	101.5	(1)
Salaries paid, total [2]	$518,235	(3)	(1)	$813,803	(3)	−36.3
To salaried officers of corporations	$76,302	(3)	(1)	(1)	(3)	(1)
To supervisory, technical, and clerical employees	[8] $441,933	[9] $200,540	(1)	(1)	120.4	(1)
Wage earners (average for year) [6]	1,888	1,348	1,578	2,838	40.1	−33.5
Wages	$1,429,686	$806,620	$1,733,319	$3,441,701	77.2	−58.5
Cost of materials, etc., total	$4,312,993	$2,612,728	$4,042,344	$10,946,043	65.1	−60.6
Cost of materials, supplies, and containers	$3,324,256	(1)	(1)	$9,414,222	(1)	−64.7
Cost of fuel	$889,021	(1)	(1)	} $1,531,821	(1)	−35.5
Cost of purchased electric energy	$99,716	(1)	(1)			
Value of products	$7,301,506	$4,819,550	$6,803,460	$19,477,874	51.5	−62.5
Value added by manufacture [7]	$2,988,513	$2,206,822	$2,761,116	$8,531,831	35.4	−65.0

For footnotes, see end of table.

TABLE 1.—GENERAL STATISTICS FOR THE INDUSTRY AND FOR ITS BRANCHES, FOR THE UNITED STATES: 1929 TO 1935—Continued

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (—) 1933–1935	1929–1935
SOFTWOOD DISTILLATION						
Number of establishments	18	16	14	25	(*)	(*)
Proprietors and firm members	1	----------	(1)	(1)	-------	(1)
Salaried personnel, total [2]	199	(3)	(1)	265	(3)	—24.9
Salaried officers of corporations	20	(3)	(1)	(1)	(3)	(1)
Supervisory, technical, and clerical employees	[10] 179	[11] 151	(1)	(1)	18.5	(1)
Salaries paid, total [2]	$416,403	(3)	(1)	$610,093	(3)	—31.7
To salaried officers of corporations	$77,312	(3)	(1)	(1)	(3)	(1)
To supervisory, technical, and clerical employees	[10] $339,091	[11] $275,842	(1)	(1)	22.9	(1)
Wage earners (average for year) [6]	1,890	1,365	1,039	1,752	38.5	7.9
Wages	$1,364,167	$956,363	$981,663	$1,788,758	42.6	—23.7
Cost of materials, etc., total	$3,571,482	$2,435,093	$2,396,808	$3,764,048	46.7	—5.1
Cost of materials, supplies, and containers	$3,308,793	(1)	(1)	$3,501,517	(1)	—5.5
Cost of fuel	$177,979	(1)	(1)	$262,531	(1)	.1
Cost of purchased electric energy	$84,710	(1)	(1)			
Value of products	$8,560,791	$6,151,378	$4,547,606	$9,841,867	39.2	—13.0
Value added by manufacture [7]	$4,989,309	$3,716,285	$2,150,798	$6,077,819	34.3	—17.9
CHARCOAL MANUFACTURE						
Number of establishments	8	5	6	11	(*)	(*)
Proprietors and firm members	5	4	(1)	(1)	(*)	(1)
Salaried personnel, total [2]	5	(3)	(1)	10	(3)	(*)
Salaried officers of corporations	----------	(3)	(1)	(1)	(3)	-------
Supervisory, technical, and clerical employees	[12] 5	[13] 5	(1)	(1)	(*)	(1)
Salaries paid, total [2]	$6,900	(3)	(1)	$56,030	(3)	—87.7
To salaried officers of corporations	----------	(3)	(1)	(1)	(3)	-------
To supervisory, technical, and clerical employees	[12] $6,900	[13] $6,458	(1)	(1)	6.8	(1)
Wage earners (average for year) [6]	30	18	37	58	(*)	(*)
Wages	$22,564	$18,961	$29,981	$62,781	19.0	—64.1
Cost of materials, etc., total	$38,984	$25,003	$34,897	$81,020	55.9	—51.9
Cost of materials, supplies, and containers	$35,411	(1)	(1)	$72,811	(1)	—51.4
Cost of fuel	$2,055	(1)	(1)	$8,209	(1)	—56.5
Cost of purchased electric energy	$1,518	(1)	(1)			
Value of products	$108,620	$64,794	$89,091	$273,931	67.6	—60.3
Value added by manufacture [7]	$69,636	$39,791	$54,194	$192,911	75.0	—63.9

*Percent not computed where base is less than 100.

[1] No data.

[2] No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

[3] Data incomplete.

[4] Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 190; salaries, $408,121. Technical, 71; salaries, $138,755. Clerical, 195; salaries, $241,048. See sec. 10, p. 7.

[5] Supervisory, 167; salaries, $346,321. Clerical and other, 124; salaries, $136,519. See sec. 10, p. 7.

[6] See sec. 11, p. 7.

[7] Value of products less cost of materials, supplies, containers, fuel, and purchased electric energy. See sec. 18, p. 11.

[8] Supervisory, 113; salaries, $232,498. Technical, 45; salaries, $81,461. Clerical, 114; salaries, $127,974. See sec. 10, p. 7.

[9] Supervisory, 84; salaries, $150,293. Clerical and other, 51; salaries, $50,247. See sec. 10, p. 7.

[10] Supervisory, 72; salaries, $168,723. Technical, 21; salaries, $57,294. Clerical, 86; salaries, $113,074. See sec. 10, p. 7.

[11] Supervisory, 80; salaries, $191,076. Clerical and other, 71; salaries, $84,766. See sec. 10, p. 7.

[12] All reported as supervisory employees.

[13] Supervisory, 3; clerical and other, 2. See sec. 10, p. 7.

TABLE 2.—SUMMARY FOR THE INDUSTRY AND FOR ITS BRANCHES, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, etc., fuel, and purchased energy	Value of products	Value added by manufacture
United States								
The Industry as a Whole	60	506	3,808	$941,538	$2,816,417	$7,923,459	$15,970,917	$8,047,458
Hardwood Distillation	34	302	1,888	518,235	1,429,686	4,312,993	7,301,506	2,988,513
Softwood Distillation	18	199	1,890	416,403	1,364,167	3,571,482	8,560,791	4,989,309
Charcoal Manufacture	8	5	30	6,900	22,564	38,984	108,620	69,636
States								
Hardwood Distillation:								
Michigan	5	69	587	131,460	562,456	1,767,801	2,690,614	922,813
New York	5	21	113	30,290	70,531	303,467	547,729	244,262
Pennsylvania	17	65	450	105,601	287,629	1,057,381	1,688,912	631,531
Tennessee	3	131	605	226,674	431,280	966,464	1,960,082	993,618
Other States [1]	4	16	133	24,210	77,790	217,880	414,169	196,289
Softwood Distillation:								
Louisiana	4	34	281	77,223	184,024	436,522	1,091,303	654,781
Mississippi	4	54	597	124,036	395,327	1,015,658	2,317,426	1,301,768
Other States [2]	10	111	1,012	215,144	784,816	2,119,302	5,152,062	3,032,760
Charcoal Manufacture [3]	8	5	30	6,900	22,564	38,984	108,620	69,636

[1] Arkansas, 1 establishment; Missouri, 1; Wisconsin, 2. See sec. 23, p. 12.
[2] Alabama, 1 establishment; Florida, 5; Georgia, 2; North Carolina, 2. See sec. 23, p. 12.
[3] Arkansas, 1 establishment; California, 2; Illinois, 1; Massachusetts, 1; Missouri, 1; Oklahoma, 1; Washington, 1. See sec. 23, p. 12.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE INDUSTRY AND FOR ITS BRANCHES, FOR THE UNITED STATES, 1935 AND 1933, AND FOR HARDWOOD DISTILLATION AND SOFTWOOD DISTILLATION, BY STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year [1]	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
THE INDUSTRY AS A WHOLE													
United States													
1935	3,788	3,543	3,536	3,705	3,855	3,937	3,751	3,798	3,846	3,762	3,847	3,940	3,940
1933	2,731	2,360	2,334	2,236	2,000	2,252	2,421	2,597	2,842	3,263	3,440	3,529	3,503
Hardwood Distillation:													
1935	1,886	1,792	1,767	1,876	1,901	1,969	1,780	1,815	1,862	1,814	1,981	2,034	2,039
1933	1,348	1,311	1,316	1,206	984	1,085	1,143	1,287	1,361	1,497	1,637	1,700	1,649
Softwood Distillation:													
1935	1,873	1,727	1,740	1,800	1,924	1,936	1,939	1,950	1,950	1,918	1,836	1,879	1,872
1933	1,365	1,038	1,002	1,013	1,002	1,146	1,260	1,290	1,465	1,751	1,778	1,808	1,830
Charcoal Manufacture:													
1935	30	24	29	29	30	32	32	33	34	30	30	27	29
1933	18	11	16	17	14	21	18	20	16	15	25	21	24
States, 1935													
Hardwood Distillation:													
Michigan	585	490	492	514	522	592	582	614	644	621	650	640	660
New York	113	140	123	123	114	144	127	81	80	83	92	113	136
Pennsylvania	450	428	425	499	523	511	351	388	394	414	486	490	491
Tennessee	605	590	600	607	606	592	600	617	619	589	612	617	610
Softwood Distillation:													
Florida	408	395	407	396	402	406	422	427	417	404	406	403	415
Louisiana	281	252	264	258	291	291	283	290	306	302	281	285	269
Mississippi	580	540	535	544	631	634	634	620	599	576	516	561	566

[1] As the averages for 1935 given in this table are derived from the figures for the 12 months in the calendar year; some of them differ from the corresponding averages in table 2, which are derived in part from figures for months in fiscal years differing from the calendar year. See sec. 11, p. 7.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1935, 1931, AND 1929

[No detailed production data were collected for 1933]

	1935	1931	1929
1. Wood Distillation and Charcoal Manufacture industry, all products, total value	$15,970,917	$11,440,157	$29,593,672
2. Wood-distillation products and charcoal	15,750,936	11,355,531	29,569,864
3. Other products (not normally belonging to the industry)	219,981	84,626	23,808
4. Wood-distillation products and charcoal made as secondary products in other industries, value	6,995	132,128	718,718
Wood-distillation products and charcoal, total value (sum of 2 and 4)	$15,757,931	$11,487,659	$30,288,582
Methanol (wood alcohol):			
Crude, total production, gallons	[1] 5,048,720	4,283,652	8,355,189
Made and consumed in same establishments, gallons	[1] 3,100,114	2,181,273	3,254,112
Made for sale:			
Gallons	[1] 1,948,606	2,102,379	5,101,077
Value	$315,753	$288,456	$1,794,392
Refined:			
Gallons	[2] 3,648,180	2,737,046	6,676,321
Value	$1,148,548	$884,531	$3,907,111
Acetate of lime (gray):			
Tons	[3] 25,851	25,796	58,163
Value	$825,522	$869,771	$4,695,449
Miscellaneous chemicals (acetic acid, ethyl acetate, methyl acetate, etc.),[4] value	$1,969,068	$1,719,259	$4,415,311
Tar, total production, gallons	9,813,934	6,051,122	10,518,016
Made and consumed in same establishments, gallons	6,443,153	4,192,636	3,613,653
Made for sale:			
Gallons	3,370,781	1,858,486	6,904,363
Value	$598,560	$224,635	$878,668
Tar oils:			
Gallons	1,087,492	858,542	996,582
Value	$194,261	$119,339	$200,507
Turpentine, wood: [5]			
Gallons	4,611,641	3,150,490	4,619,253
Value	$1,853,925	$1,031,188	$1,714,139
Pine oil:			
Gallons	3,443,315	2,149,565	2,722,172
Value	$1,525,938	$1,014,259	$1,271,641
Rosin, wood: [5]			
Barrels (500 pounds)	529,001	333,512	478,555
Value	$4,171,862	$1,904,730	$5,443,214
Charcoal, total production, bushels	[6] 32,801,435	(7)	(7)
Made and consumed in same establishments, bushels	7,041,366	(7)	(7)
Made for sale:			
Total bushels	[6] 25,760,069	22,912,468	45,355,001
Total value	[6] $3,051,804	$3,146,500	$5,472,606
Hardwood and softwood distillation:			
Bushels	[6] 25,152,538	22,396,395	44,484,995
Value	[6] $2,953,065	$3,065,947	$5,309,334
Kiln and pit:			
Bushels	607,531	516,073	870,006
Value	$98,739	$80,553	$163,272
Other wood products, value	$102,690	$284,991	$495,544

[1] Strength, 82 percent. (Not reported for earlier years.) In addition, 13,359,247 gallons of synthetic methanol, valued at $3,611,382, was produced for sale in the "Chemicals Not Elsewhere Classified" industry.
[2] Strength, 100 percent. (Not reported for earlier years.)
[3] Strength, 80 percent. (Not reported for earlier years.)
[4] For total production of acetic acid and other chemicals, see report for "Chemicals Not Elsewhere Classified" industry.
[5] For production of gum turpentine and gum rosin, see report for Turpentine and Rosin industry.
[6] Includes data for charcoal screenings; production for sale amounted to 182,000 bushels, valued at $10,074.
[7] No data.

Group 7.—PRODUCTS OF PETROLEUM AND COAL

THE INDUSTRIES AS A GROUP

[See p. 42]

This group comprises the five industries for which figures are given in the table below. The title of the "Lubricating greases, not made in petroleum refineries" industry has been changed from "Lubricating oils and greases, not made in petroleum refineries," as given in former census reports, but no change has been made in the class of establishments covered by this industry.

SUMMARY FOR GROUP 7.—PRODUCTS OF PETROLEUM AND COAL: 1929 TO 1935

[See "Changes in industry groups, classifications, and titles," p. 13]

INDUSTRY	Census year	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 [1]
Total for the group	1935	1,208	116,111	$161,517,125	$1,780,798,581	$2,464,274,367	$683,475,786
	1933	1,211	110,453	144,648,744	1,285,560,676	1,871,493,835	585,933,159
	1931	1,317	120,146	182,367,608	1,551,733,861	2,264,817,027	713,083,166
	1929	1,497	147,216	229,050,010	2,546,840,193	3,647,747,957	1,100,907,764
Coke-oven products	1935	88	16,694	21,575,184	180,557,083	238,703,683	58,146,600
	1933	97	13,066	15,526,645	123,275,080	165,731,226	42,456,146
	1931	112	14,383	22,134,487	162,793,117	226,509,038	63,715,921
	1929	153	20,552	33,389,425	281,592,430	416,348,458	134,756,028
Fuel briquettes	1935	25	341	386,131	3,393,544	4,912,578	1,519,034
	1933	24	296	261,590	1,885,567	2,943,799	1,058,232
	1931	23	301	356,633	3,034,691	4,567,853	1,533,162
	1929	23	426	584,029	5,918,799	9,497,657	3,578,858
Gas, manufactured, illuminating and heating.	1935	520	19,741	27,663,273	97,864,353	345,967,324	248,102,971
	1933	543	26,250	36,980,100	[2] 95,894,765	[2] 368,428,163	[2] 272,533,398
	[3] 1931	638	34,523	49,442,399	152,579,762	467,751,449	315,171,687
	[3] 1929	754	43,065	[2] 61,322,007	188,416,183	512,652,595	324,236,412
Lubricating greases, not made in petroleum refineries.	1935	180	1,933	2,281,763	20,758,748	36,068,869	15,310,121
	1933	158	1,794	2,086,928	16,773,979	28,701,505	11,927,526
	1931	168	2,115	2,959,972	22,808,976	41,703,690	18,894,714
	1929	177	2,577	3,738,637	39,571,373	69,584,246	30,012,873
Petroleum refining	1935	395	77,402	109,610,774	1,478,224,853	1,838,621,913	360,397,060
	1933	389	69,047	89,793,481	1,064,437,370	1,378,636,948	314,199,578
	1931	376	68,824	107,474,117	1,210,517,315	1,524,284,997	313,767,682
	1929	390	80,596	131,176,993	2,031,341,408	2,639,665,001	608,323,593

[1] Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 18, p. 11.
[2] Revised; revision not carried into group total.
[3] Figures for 1931 and 1929 include data for establishments engaged principally in the purchase and resale of gas within the industry and therefore are not strictly comparable with those for 1935 and 1933, which d not include such data.

COKE-OVEN PRODUCTS

[A preliminary report for this industry was issued Jan. 7, 1937]

Description of the industry.—This industry designation covers establishments engaged primarily in the manufacture of coke by the distillation of coal either in (A) "beehive" ovens or in (B) "by-product" ovens. The volatile constituents of the coal escape from the former class of ovens and are wasted, but are retained by the latter. Establishments which, although they operate coke ovens, are engaged primarily in the production and distribution of gas for illuminating and heating are classified under "Gas, Manufactured, Illuminating and Heating."

No detailed statistics on quantities and values of the several classes of coke-oven products are compiled by the Census Bureau, as such statistics are published annually by the United States Bureau of Mines.

Assignment of establishments to industries.—Although the Coke-Oven Products industry, as defined for census purposes, consists primarily in the manufacture of coke and by-products as an independent operation, it also includes the operation of coke plants in conjunction with blast furnaces and other affiliated establishments, where such plants are reported as separate industrial units. Data for coal-mining operations, which are sometimes included in reports made by establishments operating their own mines, have been eliminated, so far as possible, and the cost of materials includes in all cases the total cost of the coal laid down at the ovens.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (—) 1933-1935	1929-1935
Number of establishments	88	97	112	153	(*)	—42.5
Proprietors and firm members	1	5	(1)	5	(*)	(*)
Salaried personnel, total [2]	1,743	(3)	(1)	2,951	(3)	—40.9
Salaried officers of corporations	44	(3)	(1)	73	(3)	(*)
Supervisory, technical, and clerical employees	[4] 1,699	[5] 1,422	(1)	2,878	19.5	—41.0
Salaries paid, total [2]	$4,137,718	(3)	(1)	$7,451,438	(3)	—44.5
To salaried officers of corporations	$256,341	(3)	(1)	$524,805	(3)	—51.2
To supervisory, technical, and clerical employees	[4] $3,881,377	[5] $3,150,078	(1)	$6.926,633	23.2	—44.0
Wage earners (average for year) [6]	16,694	13,066	14,383	20,552	27.8	—18.8
Wages	$21,575,184	$15,526,645	$22,134,487	$33,389,425	39.0	—35.4
Cost of materials, etc., total	180,557,083	123,275,680	162,793,117	281,592,430	46.5	—35.9
Cost of materials and supplies	[7] 177,146,609	(1)	(1)	280,115,564	(1)	—36.0
Cost of fuel	2,022,425	(1)	(1)			
Cost of purchased electric energy	1,388,049	(1)	(1)	1,476,866	(1)	—6.0
Value of products	238,703,683	165,731,226	226,509,038	416,348,458	44.0	—42.7
Value added by manufacture [8]	58,146,600	42,456,146	63,715,921	134,756,028	37.0	—56.9

* Percent not computed where base is less than 100.
[1] No data.
[2] No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.
[3] Data incomplete.
[4] Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 696; salaries, $2.141,372. Technical, 224; salaries, $469,461. Clerical, 779; salaries, $1,270,544. See sec. 10, p. 7.
[5] Supervisory, 662; salaries, $2,019,162. Clerical and other, 760; salaries, $1,130,916. See sec. 10, p. 7.
[6] See sec. 11, p. 7.
[7] Includes $162,921,590, cost of coal used as a material.
[8] Value of products less cost of materials, supplies, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 8, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, etc., fuel, and purchased energy	Value of products	Value added by manufacture
United States	88	1,743	16,694	$4,137,718	$21,575,184	$180,557,083	$238,703,683	$58,146,600
Alabama	5	120	1,035	285,368	989,481	7,967,534	10,383,478	2,415,944
Illinois	6	177	1,061	371,552	1,320,499	9,349,537	13,966,316	4,616,779
Indiana	4	107	1,016	255,208	1,737,438	22,715,063	27,708,302	4,993,239
New York	4	126	1,225	297,349	1,661,528	16,813,024	21,344,664	4,531,640
Ohio	13	192	2,431	467,371	3,080,194	27,628,726	35,710,226	8,081,500
Pennsylvania	26	476	4,232	1,134,565	4,953,597	41,398,065	54,599,268	13,201,203
West Virginia	9	60	1,034	133,952	1,177,537	5,971,091	7,918,550	1,947,459
Other States [1]	21	485	4,659	1,192,353	6,654,910	48,714,043	67,072,879	18,358,836

[1] Colorado, 2 establishments; Connecticut, 1; Kentucky; 1, Maryland, 1; Massachusetts, 1; Michigan, 3; Minnesota, 2; New Jersey, 1; Tennessee, 2; Utah, 2; Virginia, 4; Wisconsin, 1.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States													
1935	16,694	16,671	17,177	16,925	16,614	16,508	16,344	16,081	16,409	16,544	16,778	17,051	17,221
1933	13,066	(*)	(*)	11,510	(*)	(*)	11,817	(*)	(*)	15,169	(*)	(*)	14,489
States, 1935													
Alabama	1,035	989	1,006	1,086	1,077	1,084	1,041	1,004	1,006	1,013	968	1,021	1,125
Illinois	1,061	1,023	1,083	1,094	1,100	1,104	1,080	994	1,065	1,054	1,095	1,066	978
Indiana	1,016	1,004	1,062	967	1,011	1,057	970	937	1,003	1,017	1,038	1,053	1,076
Michigan	1,290	1,294	1,281	1,301	1,323	1,316	1,312	1,312	1,298	1,269	1,264	1,265	1,249
New York	1,225	1,219	1,270	1,234	1,194	1,191	1,194	1,181	1,199	1,206	1,253	1,273	1,284
Ohio	2,431	2,401	2,525	2,494	2,456	2,414	2,386	2,389	2,474	2,474	2,381	2,386	2,391
Pennsylvania	4,232	4,311	4,376	4,285	4,064	4,011	4,031	3,942	4,071	4,123	4,377	4,570	4,625
Virginia	209	177	237	240	212	198	205	202	204	201	207	207	215
West Virginia	1,034	981	1,013	1,036	1,029	1,001	1,005	995	1,007	1,080	1,076	1,090	1,091

*Data incomplete. See last sentence, second paragraph, sec. 11, p. 7.

FUEL BRIQUETTES

Description of the industry.—This industry consists in the manufacture of briquettes from anthracite culm, bituminous slack, charcoal, etc., mixed with tar or pitch as a binder.

No detailed statistics as to the quantities and values of briquettes are compiled by the Census Bureau, as such statistics are published annually by the United States Bureau of Mines. See note 7, table 1.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (—)	
					1933–1935	1929–1935
Number of establishments	25	24	23	23	(*)	(*)
Proprietors and firm members	1	----------	(1)	----------	------	------
Salaried personnel, total [2]	74	(3)	(1)	89	(3)	(*)
Salaried officers of corporations	6	(3)	(1)	18	(3)	(*)
Supervisory, technical, and clerical employees	[4] 68	[5] 62	(1)	71	(*)	(*)
Salaries paid, total [2]	$146,912	(3)	(1)	$265,252	(3)	—44.6
To salaried officers of corporations	$36,700	(3)	(1)	$110,081	(3)	—66.7
To supervisory, technical, and clerical employees	[4] $110,212	[5] $106,137	(1)	$155,171	3.8	—29.0
Wage earners (average for year) [6]	341	296	301	426	15.2	—20.0
Wages	$386,131	$261,590	$356,633	$584,029	47.6	—33.9
Cost of materials, etc., total	3,393,544	1,885,567	3,034,691	5,918,799	80.0	—42.7
Cost of materials and supplies	3,175,887	(1)	(1)	3,352,669	(1)	—5.3
Cost of fuel	72,381	(1)	(1)	2,366,221	(1)	—96.9
Cost of purchased electric energy	145,276	(1)	(1)	199,909	(1)	—27.3
Value of products [7]	4,912,578	2,943,799	4,567,853	9,497,657	66.9	—48.3
Value added by manufacture [8]	1,519,034	1,058,232	1,533,162	3,578,858	43.5	—57.6

*Percent not computed where base is less than 100.

[1] No data.

[2] No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

[3] Data incomplete.

[4] Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 31; salaries, $66,416. Technical, 3; salaries, $4,165. Clerical, 34; salaries, $39,631. See sec. 10, p. 7.

[5] Supervisory, 32; salaries, $69,500. Clerical and other, 30; salaries, $36,637. See sec. 10, p. 7.

[6] See sec. 11, p. 7.

[7] The total production of briquettes (including those made as secondary products in other industries) was as follows: 1935, 861,000 tons, valued at $5,376,000; 1933, 530,000 tons, valued at $3,498,000; 1931, 611,000 tons, valued at $4,568,000; 1929, 1,212,000 tons, valued at $9,515,000. (From reports of the U. S. Bureau of Mines.)

[8] Value of products less cost of materials, supplies, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 8, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, etc., fuel, and purchased energy	Value of products	Value added by manufacture
United States	25	74	341	$146,912	$386,131	$3,393,544	$4,912,578	$1,519,034
Wisconsin	6	27	95	47,563	135,874	2,292,916	2,973,022	680,106
Other States [1]	19	47	246	99,349	250,257	1,100,628	1,939,556	838,928

[1] Arkansas, 2 establishments; California, 1; Colorado, 1; Iowa, 1; Massachusetts, 2; Minnesota, 1; Missouri, 2; Nebraska, 1; North Dakota, 1; Oklahoma, 1; Oregon, 1; Pennsylvania, 1; Washington, 1; West Virginia, 2; Wyoming, 1.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR WISCONSIN, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year [1]	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States													
1935	343	433	399	347	271	259	287	255	249	324	425	425	443
1933	296	340	314	269	247	250	227	247	265	331	332	364	367
Wisconsin, 1935	97	139	109	94	66	66	74	76	80	100	108	113	140

[1] As the averages for 1935 given in this table are derived from the figures for the 12 months in the calendar year, they differ slightly from the corresponding averages in table 2, which are derived in part from figures for months in fiscal years differing from the calendar year. See sec. 11, page 7.

GAS, MANUFACTURED, ILLUMINATING AND HEATING

[A preliminary report for this industry was issued Feb. 17, 1937]

Description of the industry.—This industry designation is applied to establishments, both commercial and municipal, engaged primarily in the manufacture of gas to be delivered through mains, for illuminating, household, and industrial purposes. It does not cover establishments that merely distribute gas not of their own manufacture. Blast-furnace gas and, with a few exceptions, gas resulting from by-product coke-oven operation are not treated as products of this industry. Considerable amounts of natural gas and of by-product coke-oven gas are, however, purchased by gas plants and used as ingredients of manufactured gas. The products of the gas industry comprise not only gas but also the by-products resulting from its manufacture, such as coke, gas tars, ammonia, and light oil and its derivatives.

Purchased gas.—The 1933 figures for cost of materials and value of products, given in table 1, have been revised to include data for gas purchased and used for mixing with gas produced in the plant, in order to make them comparable with the corresponding figures for 1935. (No data for purchased gas were included in the cost of materials and value of products for 1933 as originally published.)

Employees, salaries, and wages.—The questionnaire used in the 1935 Census called for data on salaried personnel and wage earners engaged wholly or in part on work in connection with the *manufacture* of gas, and directed the respondents not to report employees engaged exclusively in the *distribution* of gas. In the Census for 1933, data for salaried personnel engaged exclusively on work in connection with the distribution of gas were included for all establishments, and data for wage earners engaged exclusively in distribution of gas were included for all establishments except those (21 in number) whose principal business was the distribution of purchased gas. In the Census for 1931, data for all wage earners, including those employed exclusively in distribution work, were reported. (No data for salaried employees were collected for that year.) In the censuses for earlier years, data on all salaried personnel and wage earners employed, including those engaged solely on work in connection with the distribution of gas, were reported. The figures for salaried personnel and salaries and for wage earners and wages as given for 1933 and prior years in table 1 are not, therefore, comparable with those for 1935; and the same is true of the wage-earner figures for 1933 as presented

in table 3. The 1933 figures for wage earners are, however, more nearly comparable with those for 1935 than are any of the other employment and compensation figures for 1933 and prior years.

Rent and sale of lamps and appliances.—As the renting and selling of gas appliances and equipment have become functions quite independent of the normal manufacturing operations of many gas plants, no data on receipts from rents and sales of lamps and appliances were called for on the 1935 questionnaire used in canvassing the Manufactured Gas industry. (The manufacture of gas appliances and equipment is, of course, reported in the appropriate industries.)

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (—)	
					1933–1935	1929–1935
Number of establishments	520	543	638	754	—4.2	—31.0
Proprietors and firm members	1	----------	(1)	----------	------	------
Salaried personnel, total [2]	7,609	(3)	(1)	[4] 22,559	(3)	(4)
Salaried officers of corporations	225	(3)	(1)	[4] 523	(3)	(4)
Supervisory, technical, and clerical employees	[5] 7,384	[4, 6] 19,256	(1)	[4] 22,036	(4)	(4)
Salaries paid, total [2]	$14,335,747	(3)	(1)	[4] $40,774,202	(3)	(4)
To salaried officers of corporations	$1,213,734	(3)	(1)	[4] $2,991,612	(3)	(4)
To supervisory, technical, and clerical employees	[5] $13,122,013	[4, 6] $31,149,000	(1)	[4] $37,782,590	(4)	(4)
Wage earners (average for year) [7]	19,741	26,250	34,523	[4] 43,065	(4)	(4)
Wages	$27,663,273	$36,980,100	[4] $49,442,399	[4] $61,322,007	(4)	(4)
Cost of materials, etc., total	97,864,353	[8] 95,894,765	[9] 152,579,762	[9] 188,416,183	2.1	(9)
Cost of materials, supplies, and containers	[10] 92,345,021	(1)	(1)	} 184,911,804	(1)	(9)
Cost of fuel	3,934,821	(1)	(1)			
Cost of purchased electric energy	1,584,511	(1)	(1)	3,504,379	(1)	54.8
Value of products and receipts from rents and sales of lamps and appliances, total	(3)	[8] 368,428,163	[9] 467,751,449	[9] 512,652,595	------	------
Value of products	345,967,324	353,341,953	[9] 438,048,561	[9] 480,729,757	—2.1	(9)
Receipts from rents and sales of lamps and appliances	(11)	15,086,210	29,702,888	31,922,838	------	------
Value added by manufacture [12]	248,102,971	[8] 272,533,398	315,171,687	324,236,412	—9.0	—23.5

[1] No data.
[2] No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.
[3] Data incomplete.
[4] Not comparable with figure for 1935. See "Employees, salaries, and wages," p. 738.
[5] Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 1,257; salaries, $3,540,867. Technical, 546; salaries, $1,374,437. Clerical, 5,581; salaries, $8,206,709. See sec. 10, p. 7.
[6] Supervisory, 2,219; salaries, $7,379,320. Clerical and other, 17,037; salaries, $23,769,680. See sec. 10, p. 7.
[7] See sec. 11, p. 7.
[8] Revised. See "Purchased gas," second paragraph, p. 738.
[9] Figures for 1931 and 1929 not comparable with those for 1935 and 1933. See "Purchased gas," p. 738.
[10] Includes $86,844,294, cost of coal, oil, and coke used as materials for gas-making.
[11] Not reported for 1935. See "Rent and sale of lamps and appliances," above.
[12] Value of products less cost of materials, supplies, containers, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 12, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, etc., fuel, and purchased energy	Value of products	Value added by manufacture
United States	520	7,609	19,741	$14,335,747	$27,663,273	$97,864,353	$345,967,324	$248,102,97
Alabama	4	7	22	16,639	17,842	32,557	104,464	71,907
Arizona	5	15	34	12,647	17,549	47,695	138,062	90,367
Colorado	4	6	24	5,929	25,108	31,071	95,741	64,670
Connecticut	14	154	386	323,829	610,580	1,478,286	5,400,692	3,922,406
Florida	19	160	363	291,000	357,345	884,302	3,805,682	2,921,380
Georgia	10	59	164	111,659	144,626	258,439	961,079	702,640
Idaho	3	12	31	16,565	31,343	63,992	167,612	103,620
Indiana	18	184	1,028	313,274	1,109,425	4,221,672	10,287,687	6,066,015
Iowa	38	148	274	205,070	313,165	1,351,121	4,672,535	3,321,414
Maine	7	87	160	161,725	222,163	476,244	1,541,418	1,065,174
Massachusetts	30	784	2,005	1,254,113	2,898,213	8,131,759	26,076,184	17,944,425
Michigan	40	343	1,283	728,035	1,588,503	8,794,570	27,275,968	18,481,398
New Hampshire	9	40	129	79,528	193,199	537,075	1,565,390	1,028,315
New York	33	2,959	5,406	5,850,433	8,888,796	23,418,770	97,219,351	73,800,581
North Carolina	26	72	234	109,353	236,012	734,647	2,351,244	1,616,597
Ohio	8	64	121	78,784	159,472	1,274,461	2,453,067	1,178,606
South Carolina	9	46	143	68,492	133,339	301,669	1,229,634	927,965
Vermont	9	38	61	57,628	83,849	154,055	622,705	468,650
Virginia	13	106	377	188,798	428,193	1,113,718	4,372,385	3,258,667
Washington	12	100	338	176,586	404,225	826,192	3,010,082	2,183,890
Wisconsin	28	211	1,065	364,727	1,499,450	4,011,192	12,852,730	8,841,538
Other States [1]	181	2,014	6,094	3,920,933	8,300,876	39,720,866	139,763,612	100,042,746

[1] Arkansas, 1 establishment; California, 9; Delaware, 2; District of Columbia, 1; Illinois, 26; Kentucky, 4; Maryland, 9; Minnesota, 15; Missouri, 10; Montana, 1; Nebraska, 4; Nevada, 1; New Jersey, 18; North Dakota, 5; Oregon, 7; Pennsylvania, 50; Rhode Island, 4; South Dakota, 6; Tennessee, 5; West Virginia, 3.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States													
1935	19,741	20,094	20,029	19,809	19,629	19,480	19,571	19,503	19,613	19,725	19,836	19,777	19,825
1933	26,250	(*)	(*)	25,499	(*)	(*)	25,521	(*)	(*)	26,924	(*)	(*)	27,945
States, 1935													
Alabama	22	23	22	21	22	21	21	26	19	23	22	22	21
Arizona	34	38	32	33	33	31	32	34	32	33	34	35	38
California	63	65	62	60	62	60	71	57	61	62	64	64	69
Colorado	24	25	22	23	24	24	24	26	24	24	24	25	25
Connecticut	386	387	392	391	385	402	398	381	379	378	381	379	374
Florida	363	392	367	367	348	333	321	324	329	369	370	401	431
Georgia	164	169	169	157	153	152	164	151	158	166	170	172	181
Idaho	31	31	31	31	32	31	31	32	33	30	30	31	31
Illinois	974	1,012	1,000	980	973	970	968	976	968	956	961	950	974
Indiana	1,028	1,005	1,021	1,010	1,015	1,018	1,027	1,050	1,054	1,037	1,015	1,038	1,046
Iowa	274	284	275	268	275	260	279	270	289	268	266	271	278
Maine	160	162	161	154	152	153	156	169	166	158	161	158	170
Maryland	340	350	364	354	333	330	336	332	331	327	335	346	346
Massachusetts	2,005	2,065	2,088	2,017	2,013	1,959	1,969	1,952	1,958	1,974	1,973	2,050	2,044
Michigan	1,283	1,304	1,294	1,257	1,287	1,267	1,284	1,260	1,265	1,320	1,379	1,280	1,204
Minnesota	250	285	265	252	251	250	240	240	230	251	246	240	244
Missouri	315	354	345	343	255	254	253	328	326	335	327	332	328
Nebraska	93	86	92	92	94	89	88	88	88	111	105	89	89
New Hampshire	129	173	146	129	127	126	130	128	129	130	108	112	114
New Jersey	1,074	1,055	1,063	1,061	1,044	1,028	1,047	1,051	1,062	1,072	1,140	1,131	1,128
New York	5,406	5,538	5,559	5,536	5,434	5,393	5,369	5,352	5,329	5,328	5,326	5,336	5,377
North Carolina	234	241	240	240	236	228	219	226	229	228	234	239	245
North Dakota	43	44	43	44	43	44	41	40	40	45	46	43	45
Ohio	121	137	134	135	142	139	139	132	91	98	104	92	112
Oregon	397	364	362	351	373	373	400	416	426	430	423	425	420
Pennsylvania	1,439	1,466	1,462	1,432	1,417	1,431	1,476	1,423	1,490	1,454	1,434	1,398	1,389
Rhode Island	399	371	368	375	390	377	434	441	422	405	409	392	406
South Carolina	143	144	138	134	140	131	137	143	142	152	155	151	151
South Dakota	21	22	22	20	19	20	20	19	21	19	20	24	24
Tennessee	183	199	197	177	175	175	169	172	181	184	194	188	186
Vermont	61	66	69	66	60	60	60	58	58	57	59	57	58
Virginia	377	358	349	360	385	382	384	394	379	367	384	393	385
Washington	338	345	343	338	333	345	348	339	333	330	337	327	343
Wisconsin	1,065	1,102	1,078	1,109	1,102	1,112	1,021	968	1,065	1,059	1,053	1,055	1,057

*Data incomplete. See last sentence, second paragraph, sec. 11, p. 7.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1929 TO 1935

PRODUCTS	1935	1933	1931	1929
1. Manufactured-Gas industry, all products, aggregate value	$345, 967, 324	[1] $368, 428, 163	[2] $467, 751, 449	[2] $512, 652,
2. Gas sold, value	314, 371, 303	[1] 321, 616, 615	[2] 399, 680, 704	[2] 438, 242,
3. By-products of gas manufacture, value	30, 956, 240	[1] 28, 707, 577	37, 572, 497	40, 823,
4. Other products (not normally belonging to the industry), value	639, 781	[1] 623, 418	795, 360	1, 663,
5. Receipts from rent and sales of lamps and appliances [3]	----------	15, 086, 210	29, 702, 888	31, 922,
6. Gas and by-products and products not normally belonging to the industry, value, and receipts from rents and sales of lamps and appliances, not reported separately (on abridged schedule) [4]	----------	2, 394, 343	----------	----------
7. Gas and by-products of gas manufacture, total value (sum of 2 and 3)	$345, 327, 543	[1] $350, 324, 192	[2] $437, 253, 201	[2] $479, 065,
GAS				
Total output, M cubic feet	342, 032, 403	333, 136, 410	397, 696, 693	450, 717,
Sold:				
M cubic feet	312, 224, 152	305, 503, 456	[5] 374, 067, 588	[5] 408, 401,
Value	$314, 371, 303	$321, 616, 615	[2] $399, 680, 704	[2] $438, 242,
Consumed in plant and unaccounted for, M cubic feet	29, 808, 251	27, 632, 954	23, 629, 105	42, 316,
BY-PRODUCTS				
Produced for sale, total value	$30, 956, 240	$28, 707, 577	$37, 572, 497	$40, 823,
Coke, total production, short tons	4, 648, 804	4, 452, 976	5, 548, 343	5, 614, 1
For sale:				
Short tons	3, 329, 440	3, 181, 815	3, 598, 527	3, 443, 7
Value	$23, 283, 543	$20, 671, 433	$26, 672, 584	$26, 868, 1
Consumed in plant, short tons	1, 319, 364	1, 271, 161	1, 949, 816	2, 170, 3
Screenings and breeze, total production, short tons	485, 345	668, 718	648, 941	553, 5
For sale:				
Short tons	63, 722	168, 189	66, 058	72, 0
Value	$168, 852	$407, 513	$179, 538	$232, 2
Consumed in plant, short tons	421, 623	500, 529	582, 883	481, 5
Gas tars, total production, gallons	163, 968, 259	174, 502, 676	190, 451, 802	209, 408, 4
For sale:				
Total gallons	117, 594, 219	113, 581, 449	149, 891, 320	163, 694, 8
Total value	$4, 721, 817	$4, 521, 177	$6, 631, 144	$8, 169, 8
Water-gas tar:				
Gallons	38, 591, 546	(6)	59, 747, 486	74, 466, 9
Value	$1, 468, 996	(6)	$2, 305, 970	$3, 266, 3
Coal-gas tar:				
Gallons	77, 759, 836	(6)	89, 201, 614	88, 149, 2
Value	$3, 163, 921	(6)	$4, 253, 640	$4, 816, 0
Oil-gas tar:				
Gallons	1, 242, 837	(6)	942, 220	1, 078, 6
Value	$88, 900	(6)	$71, 534	$87, 4
Plant consumption, gallons	46, 374, 040	60, 921, 227	40, 560, 482	45, 713, 5
Crude light oil, total production, gallons	7, 289, 888	6, 479, 688	6, 884, 489	5, 272, 0
For sale:				
Gallons	5, 652, 142	3, 546, 607	3, 924, 621	505, 9
Value	$536, 933	$265, 937	$289, 072	$40, 2
Consumed in plant, gallons	1, 637, 746	2, 933, 081	2, 959, 868	4, 766, 0
Light-oil derivatives, produced for sale:				
Gallons	931, 766	2, 672, 695	3, 142, 022	4, 414, 3
Value	$125, 188	$410, 337	$488, 219	$944, 6
Drip and holder oil, produced for sale:				
Gallons	2, 260, 139	2, 659, 330	3, 499, 218	4, 746, 9
Value	$172, 998	$171, 393	$242, 836	$375, 8
Ammonia products (NH_3 equivalent), produced for sale: [7]				
Pounds	26, 735, 937	39, 016, 457	37, 852, 903	36, 216, 1
Value	$996, 153	$851, 715	$1, 720, 916	$2, 173, 4
Other by-products of gas manufacture, value	$950, 756	$1, 408, 072	$1, 348, 188	$2, 018, 5

[1] Revised. See "Purchased gas," second paragragh, p. 738.
[2] Includes value of gas referred to in footnote 5.
[3] See "Rent and sale of lamps and appliances," p. 739.
[4] An abridged questionnaire, which did not provide for reporting production in detail, was used in the census for 1933 for canvassing the smaller gas plants.
[5] Includes the following quantities of gas purchased from establishments in the Manufactured Gas industry: For 1931, 6,184,801 M cu. ft; for 1929, 5,281,902 M cu. ft. No similar duplication is included in the corresponding figures for 1935 and 1933.
[6] Not reported separately.
[7] For statistics on the production of anhydrous ammonia, aqua and liquor ammonia, and ammonium sulphate, see table 4, report for "Chemicals Not Elsewhere Classified" industry.

TABLE 5.—GAS PRODUCED AND GAS PURCHASED FOR MIXING, CARBURETING, AND ENRICHING PURPOSES, AND PRODUCTION OF MIXED GASES, BY KIND AND QUANTITY, FOR THE UNITED STATES: 1935.

	M cubic feet
Gas produced and purchased, total	342, 032, 403
Made in plant, total	241, 497, 698
Water gas	156, 254, 110
Coal gas, including coke-oven gas, total	81, 051, 597
Coal gas	35, 261, 867
Coke-oven gas	45, 789, 730
Oil gas	3, 894, 084
Other gas	297, 907
Purchased (for mixing, carbureting, and enriching purposes), total	100, 534, 705
Coke-oven gas	42, 930, 718
Natural gas	50, 035, 564
Other gas	7, 568, 423
Mixed gases produced, total	267, 643, 186
Constituent gases made in plant	167, 108, 481
Constituent gases purchased	100, 534, 705
Mixed water gas and coal gas, including coke-oven gas made in plant and purchased, total	158, 526, 397
Water gas	67, 921, 272
Coal gas, including coke-oven gas	90, 605, 125
Mixed water gas and natural gas, total	37, 669, 484
Water gas	16, 582, 811
Natural gas	21, 086, 673
Other mixtures	71, 447, 305

TABLE 6.—GAS SOLD—NUMBER OF CUSTOMERS AND QUANTITY AND VALUE OF GAS SOLD, BY CLASS OF SERVICE, BY STATES: 1935

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]

STATE	Total	Domestic and house-heating	Industrial	Commer-cial	Municipal service, and sales to other gas companies [1]
United States					
Number of customers	8, 849, 553	8, 451, 190	50, 611	342, 020	5, 732
M cubic feet	312, 224, 152	219, 436, 358	37, 619, 124	32, 404, 211	22, 764, 459
Value	$314, 371, 303	$247, 746, 956	$24, 819, 178	$30, 501, 027	$11, 304, 142
States					
Alabama:					
Number of customers	1, 851	1, 687	----------	164	----------
M cubic feet	63, 691	51, 306	----------	12, 385	----------
Value	$92, 127	$79, 170	----------	$12, 957	----------
Arizona:					
Number of customers	2, 727	2, 367	----------	357	3
M cubic feet	77, 327	54, 798	----------	22, 053	476
Value	$138, 062	$104, 088	----------	$33, 402	$572
Colorado:					
Number of customers	3, 142	2, 934	----------	208	----------
M cubic feet	57, 692	48, 906	----------	8, 786	----------
Value	$88, 523	$75, 840	----------	$12, 683	----------
Connecticut:					
Number of customers	140, 177	131, 073	929	8, 044	131
M cubic feet	4, 274, 139	2, 977, 822	505, 414	522, 115	268, 788
Value	$5, 065, 785	$3, 966, 257	$385, 422	$565, 397	$148, 709
Florida:					
Number of customers	85, 330	81, 821	385	2, 933	191
M cubic feet	2, 386, 637	1, 806, 088	216, 899	322, 242	41, 408
Value	$3, 763, 104	$3, 091, 145	$219, 859	$414, 852	$37, 248
Georgia:					
Number of customers	22, 201	20, 590	506	1, 037	68
M cubic feet	689, 669	559, 251	39, 459	88, 653	2, 306
Value	$929, 175	$782, 753	$40, 239	$103, 220	$2, 963

For footnote, see end of table.

TABLE 6.—GAS SOLD—NUMBER OF CUSTOMERS AND QUANTITY AND VALUE OF GAS SOLD, BY CLASS OF SERVICE, BY STATES: 1935—Continued

[See note at head of table]

STATE	Total	Domestic and house-heating	Industrial	Commercial	Municipal service, and sales to other gas companies [1]
States—Continued					
Idaho:					
Number of customers	3,465	3,252	----------	213	----------
M cubic feet	103,404	77,382	----------	26,022	----------
Value	$144,619	$119,113	----------	$25,506	----------
Indiana:					
Number of customers	204,331	195,951	1,077	7,024	279
M cubic feet	7,889,382	5,294,588	1,581,726	795,485	307,583
Value	$7,750,601	$5,950,596	$858,744	$777,583	$163,678
Iowa:					
Number of customers	123,571	116,423	215	6,816	117
M cubic feet	3,814,297	2,949,896	282,585	451,055	130,761
Value	$4,495,505	$3,719,944	$159,900	$487,549	$128,112
Maine:					
Number of customers	36,511	33,315	168	2,753	275
M cubic feet	1,026,420	594,365	130,580	196,992	104,483
Value	$1,314,157	$927,121	$89,177	$233,909	$63,950
Massachusetts:					
Number of customers	721,896	695,253	3,390	22,804	359
M cubic feet	21,710,897	15,529,801	2,047,271	1,596,397	2,537,428
Value	$23,215,936	$18,489,228	$1,578,128	$1,787,195	$1,361,385
Michigan:					
Number of customers	644,846	616,410	8,913	19,519	4
M cubic feet	29,853,772	20,589,357	6,850,367	2,370,194	43,854
Value	$24,897,757	$19,575,861	$3,384,941	$1,917,463	$19,502
New Hampshire:					
Number of customers	32,130	29,909	163	1,993	65
M cubic feet	972,759	724,753	72,301	173,110	2,586
Value	$1,265,621	$1,005,248	$65,261	$191,397	$3,715
New York:					
Number of customers	2,576,603	2,541,457	8,632	25,100	1,414
M cubic feet	80,284,700	61,517,010	10,499,207	5,322,022	2,946,461
Value	$87,145,837	$71,731,287	$8,688,033	$5,206,189	$1,520,328
North Carolina:					
Number of customers	42,355	38,957	596	2,777	25
M cubic feet	1,460,544	1,113,348	52,849	293,082	1,265
Value	$2,136,077	$1,752,531	$55,410	$325,860	$2,276
Ohio:					
Number of customers	174,493	158,412	929	14,763	389
M cubic feet	3,392,835	2,067,133	559,935	558,673	207,094
Value	$2,414,451	$1,689,893	$269,474	$355,333	$99,751
South Carolina:					
Number of customers	23,005	20,769	29	2,202	5
M cubic feet	809,002	612,567	16,036	180,204	195
Value	$1,143,697	$915,325	$14,774	$213,319	$279
Vermont:					
Number of customers	18,470	17,427	64	960	19
M cubic feet	369,449	284,961	18,780	65,240	468
Value	$613,130	$500,512	$21,256	$90,572	$790
Virginia:					
Number of customers	103,469	99,943	137	3,365	24
M cubic feet	3,537,728	3,108,819	51,194	358,323	19,392
Value	$4,211,585	$3,829,586	$47,592	$321,492	$12,915
Washington:					
Number of customers	70,552	62,865	837	6,743	107
M cubic feet	2,577,467	1,575,417	182,967	808,841	10,242
Value	$2,830,465	$1,929,670	$138,269	$754,963	$7,563
Wisconsin:					
Number of customers	317,132	299,866	1,634	15,623	9
M cubic feet	12,624,642	8,716,036	1,610,746	1,461,560	836,300
Value	$11,504,739	$8,959,087	$899,660	$1,237,063	$408,929
Other States:					
Number of customers	3,501,386	3,280,509	22,007	196,622	2,248
M cubic feet	134,247,708	89,272,754	12,900,808	16,770,777	15,303,369
Value	$129,210,340	$98,552,701	$7,903,039	$15,433,123	$7,321,477

[1] Separate figures for these services, for the United States, are as follows:

	Municipal service	Sales to other gas companies
Number of customers	5,627	105
M cubic feet	1,820,387	20,944,072
Value	$1,372,640	$9,931,502

TABLE 7.—CONSUMPTION OF GAS-MAKING MATERIALS AND FUELS, PRODUCED IN PLANT AND PURCHASED, BY KIND AND QUANTITY, FOR THE UNITED STATES: 1929 TO 1935.

[Long ton, 2,240 pounds; short ton, 2,000 pounds; barrel, 42 gallons]

KIND	1935	1933	1931	1929
Coal:				
Anthracite:	*Long tons*	*Long tons*	*Long tons*	*Long tons*
Material	36, 423	40, 182	41, 854	68, 072
Fuel	67, 594	70, 287	74, 330	110, 422
Bituminous:	*Short tons*	*Short tons*	*Short tons*	*Short tons*
Material	7, 502, 600	7, 473, 101	9, 054, 749	8, 917, 607
Fuel:				
Boiler	414, 268	369, 567	544, 578	849, 234
Retort and bench	45, 466	35, 516	56, 540	270, 643
Coke and breeze:				
Produced in plant:				
Material	582, 548	597, 726	992, 637	1, 223, 444
Fuel:				
Boiler	385, 398	407, 451	528, 361	522, 510
Retort and bench	733, 408	750, 850	933, 123	878, 386
Purchased:				
Material	794, 728	717, 178	955, 190	1, 248, 111
Fuel:				
Boiler	97, 092	104, 798	103, 356	74, 590
Retort and bench	31, 884	14, 337	28, 406	139, 224
Oil:				
Material:	*Barrels*	*Barrels*	*Barrels*	*Barrels*
Gas-making	866, 850	935, 109	1, 607, 042	4, 683, 358
Carbureting	11, 115, 608	11, 178, 430	13, 892, 808	16, 024, 302
Fuel	639, 394	571, 680	498, 056	1, 248, 182
Gas tars used as fuel	792, 706	1, 067, 100	676, 528	747, 288

TABLE 8.—STATISTICS FOR MUNICIPAL ESTABLISHMENTS, BY GEOGRAPHIC DIVISIONS: 1935

[All figures in this table are included in the corresponding totals appearing in preceding tables. No municipal establishments were reported from the West South Central Division or from the Mountain Division]

	United States	New England and Middle Atlantic*	East North Central and East South Central*	West North Central and Pacific*	South Atlantic
GENERAL STATISTICS					
Number of establishments	34	[1] 4	[2] 5	[3] 9	[4] 16
Salaried personnel (supervisory, technical, and clerical), number	[5] 185	55	38	34	58
Salaries paid	[5] $214, 036	$49, 421	$22, 434	$48, 520	$93, 661
Wage earners (average for the year) [6]	404	57	59	102	186
Wages paid	$539, 140	$95, 017	$71, 889	$156, 675	$215, 559
Cost of materials, fuel, and purchased electric energy, total	$1, 757, 101	$275, 560	$131, 719	$666, 742	$683, 080
Cost of materials and supplies	[7] $1, 545, 034	$244, 320	$110, 183	$596, 082	$594, 449
Cost of fuel	$159, 843	$22, 436	$18, 927	$57, 366	$61, 114
Cost of purchased electric energy	$52, 224	$8, 804	$2, 609	$13, 294	$27, 517
Value of products	$5, 523, 855	$626, 050	$343, 952	$2, 004, 280	$2, 549, 573
Value added by manufacture [8]	$3, 766, 754	$350, 490	$212, 233	$1, 337, 538	$1, 866, 493
PRODUCTS, BY KIND, QUANTITY, AND VALUE					
Gas, total production, M cubic feet	6, 151, 893	590, 089	269, 266	2, 922, 298	2, 370, 240
Consumed on premises and unaccounted for, M cubic feet	539, 445	66, 465	35, 834	101, 882	335, 264
Sold:					
M cubic feet	5, 612, 448	523, 624	233, 432	2, 820, 416	2, 034, 976
Value	$5, 405, 565	$613, 817	$278, 862	$2, 003, 251	$2, 509, 635

For footnotes, see end of table.

TABLE 8.—STATISTICS FOR MUNICIPAL ESTABLISHMENTS, BY GEOGRAPHIC DIVISIONS: 1935—Continued

[See note at head of table]

	United States	New England and Middle Atlantic*	East North Central and East South Central*	West North Central and Pacific*	South Atlantic
PRODUCTS, BY KIND, QUANTITY, AND VALUE—continued					
Coke, total production, short tons	13,263	2,620	7,434	----------	3,209
Made and consumed in plant, short tons	3,489	1,886	80	----------	1,523
Sold:					
Short tons	9,774	734	7,354	----------	1,686
Value	$65,010	$7,201	$49,792	----------	$8,017
Gas tars, sold:					
Gallons	838,121	160,050	168,081	2,700	507,290
Value	$39,479	$4,675	$10,909	$270	$23,625
Other products, value	$13,801	$357	$4,389	$759	$8,296
PRINCIPAL MATERIALS USED					
Bituminous coal, for gas making, short tons	49,287	6,669	13,544	1,714	27,360
Coke, for gas making, purchased, short tons	30,087	4,952	2,085	14,282	8,768
Oil, for gas making and enriching, gallons	10,020,432	1,469,321	324,658	1,002,677	7,223,776
GAS SOLD					
Number of customers, total	157,324	25,000	8,950	61,284	62,090
Domestic and house heating	153,473	24,404	8,456	59,094	61,519
Industrial	592	72	26	166	328
Commercial	3,192	514	468	1,974	236
Municipal	67	10	----------	50	7
Quantity, M cubic feet, total	5,612,448	523,624	233,432	2,820,416	2,034,976
Domestic and house heating	5,077,539	451,929	205,153	2,425,772	1,994,685
Industrial	307,836	46,041	9,380	227,199	25,216
Commercial	218,037	22,250	18,899	162,079	14,809
Municipal	9,036	3,404	----------	5,366	266
Value, total	$5,405,565	$613,817	$278,862	$2,003,251	$2,509,635
Domestic and house heating	$5,030,729	$548,063	$240,339	$1,776,180	$2,466,147
Industrial	$178,640	$35,072	$10,712	$107,997	$24,859
Commercial	$188,455	$26,826	$27,811	$115,519	$18,299
Municipal	$7,741	$3,856	----------	$3,555	$330

* Figures for two Divisions combined to avoid disclosing data for individual establishments.
[1] Connecticut, 1 establishment; Massachusetts, 2; Pennsylvania, 1.
[2] Ohio, 2 establishments; Michigan, 3.
[3] Minnesota, 2 establishments; Iowa, 3; South Dakota, 1; Nebraska, 2; California, 1.
[4] Maryland, 1 establishment; Virginia, 4; North Carolina, 3; Georgia, 4; Florida, 4.
[5] Supervisory, 51; salaries, $104,038. Technical, 6; salaries, $11,605. Clerical, 128; salaries, $98,393. See sec. 10, p. 7.
[6] See sec. 11, p. 7.
[7] Includes $524,929, cost of coal, coke, and oil used as gas-making materials.
[8] Value of products less cost of materials, fuel, and purchased electric energy. See sec. 18, p. 11.

704

LUBRICATING GREASES, NOT MADE IN PETROLEUM REFINERIES

Description of the industry.—This industry embraces establishments engaged primarily in compounding lubricating greases from oils and fats, the chief material being derived from petroleum. It does not cover the manufacture of greases in the Petroleum Refining industry. The mixing or blending of lubricating oils is not treated as a manufacturing activity, but many manufacturers of lubricating greases outside the Petroleum Refining industry have been unable to report the values of greases made separately from that of oils blended, and consequently the figures for cost of materials and value of products in this report include considerable amounts representing the cost of materials used in the blending of oils and the value of oils blended. It is, therefore, impossible to give separately the value of lubricating greases made in this industry.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (—)	
					1933–1935	1929–1935
Number of establishments	180	158	168	177	13.9	1.7
Proprietors and firm members	26	30	(1)	34	(*)	(*)
Salaried personnel, total [2]	1,228	(3)	(1)	1,482	(3)	−17.1
Salaried officers of corporations	246	(3)	(1)	265	(3)	−7.2
Supervisory, technical, and clerical employees	[4] 982	[5] 620	(1)	1,217	58.4	−19.3
Salaries paid, total [2]	$2,684,158	(3)	(1)	$4,167,049	(3)	−35.6
To salaried officers of corporations	$1,145,608	(3)	(1)	$1,614,673	(3)	−29.1
To supervisory, technical, and clerical employees	[4] $1,538,550	[5] $1,097,243	(1)	$2,552,376	40.2	−39.7
Wage earners (average for year) [6]	1,933	1,794	2,115	2,577	7.7	−25.0
Wages	$2,281,763	$2,086,928	$2,959,972	$3,738,637	9.3	−39.0
Cost of materials, etc., total	20,758,748	16,773,979	22,808,976	39,571,373	23.8	−47.5
Cost of materials, supplies, and containers	20,247,929	(1)	(1)	39,044,762	(1)	−48.1
Cost of fuel	349,110	(1)	(1)	418,360	(1)	−16.6
Cost of purchased electric energy	161,709	(1)	(1)	108,251	(1)	49.4
Value of products [7]	36,068,869	28,701,505	41,703,690	69,584,246	25.7	−48.2
Value added by manufacture [8]	15,310,121	11,927,526	18,894,714	30,012,873	28.4	−49.0

*Percent not computed where base is less than 100.

[1] No data.

[2] No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

[3] Data incomplete.

[4] Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 170; salaries, $480,184. Technical, 89; salaries, $209,809. Clerical, 723; salaries, $848,557. See sec. 10, p. 7.

[5] Supervisory, 213; salaries, $576,761. Clerical and other, 407; salaries, $520,482. See sec. 10, p. 7.

[6] See sec. 11, p. 7.

[7] For value of lubricating greases made in Petroleum Refining industry, see table 4, p. 751.

[8] Value of products less cost of materials, supplies, containers, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 8, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, etc., fuel, and purchased energy	Value of products	Value added by manufacture
United States	180	1, 228	1, 933	$2, 684, 158	$2, 281, 763	$20, 758, 748	$36, 068, 869	$15, 310, 121
California	16	43	65	70, 509	81, 675	496, 104	902, 767	406, 663
Illinois	16	90	120	205, 103	137, 033	1, 749, 292	3, 195, 385	1, 446, 093
Kansas	9	43	68	91, 001	93, 999	567, 463	1, 026, 976	459, 513
Michigan	6	53	55	138, 660	60, 847	601, 716	1, 135, 494	533, 778
Minnesota	6	25	34	59, 913	39, 978	357, 019	536, 637	179, 618
Missouri	8	72	126	189, 110	143, 983	917, 749	1, 556, 806	639, 057
New Jersey	14	91	247	257, 102	291, 127	3, 506, 679	5, 837, 298	2, 330, 619
Ohio	25	136	220	269, 914	268, 107	1, 922, 706	3, 789, 399	1, 866, 693
Oklahoma	4	22	26	57, 537	22, 778	425, 916	612, 277	186, 361
Pennsylvania	35	407	728	820, 653	889, 991	7, 682, 490	12, 006, 831	4, 324, 341
Wisconsin	5	32	26	74, 895	36, 162	408, 692	870, 038	461, 346
Other States [1]	36	214	217	449, 761	216, 083	2, 122, 922	4, 598, 961	2, 476, 039

[1] Colorado, 2 establishments; Connecticut, 1; Georgia, 1; Indiana, 2; Iowa, 1; Louisiana, 1; Maryland, 4; Massachusetts, 4; Nebraska, 2; New York, 11; Rhode Island, 1; South Dakota, 1; Tennessee, 1; Texas, 3; Washington, 1.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States													
1935	1, 933	1, 834	1, 836	1, 892	1, 947	1, 969	1, 958	1, 955	1, 941	1, 960	1, 978	1, 967	1, 960
1933	1, 794	(*)	(*)	1, 682	(*)	(*)	1, 731	(*)	(*)	1, 936	(*)	(*)	1, 917
States, 1935													
California	65	62	62	64	63	62	65	66	67	68	68	70	68
Illinois	120	111	113	117	118	122	123	119	121	125	119	124	126
Kansas	68	62	67	75	71	67	71	73	67	63	66	66	64
Maryland	31	30	31	30	31	32	31	31	30	30	30	30	30
Massachusetts	21	20	20	20	21	21	20	20	21	21	22	22	22
Michigan	55	56	54	55	55	55	55	55	55	53	57	58	57
Minnesota	34	32	33	34	37	37	37	36	35	34	33	32	32
Missouri	126	104	97	129	134	140	138	142	134	135	130	117	109
New Jersey	247	244	245	243	263	253	247	242	242	250	245	245	239
New York	63	65	62	64	60	61	61	61	62	63	64	64	64
Ohio	220	213	213	213	221	226	219	220	218	220	222	229	230
Oklahoma	26	25	24	24	26	27	28	28	27	26	26	26	26
Pennsylvania	728	688	692	699	717	732	727	730	732	740	765	754	765
Texas	30	30	30	30	30	30	30	30	30	30	30	30	30
Wisconsin	26	24	25	26	26	26	26	27	28	28	27	27	25

* Data incomplete. See last sentence, second paragraph, sec. 11, p. 7.

905

PETROLEUM REFINING

[A preliminary report for this industry was issued Feb. 10, 1937]

Description of the industry.—This industry consists in the refining of crude petroleum by distillation. It does not, therefore, include the compounding of refined or partly refined petroleum products nor the production of gasoline from natural gas at the wells. The principal products, named in the order of their importance as measured by value, are gasoline, fuel oils, lubricating oils, and illuminating oils.

Duplication in value of products.—The total value of products for this industry includes a comparatively small amount of duplication due to the fact that the "partially refined oils, sold for rerunning," and to some extent the "tops" (see table 4), reported as products by some establishments become materials for others.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (—)	
					1933–1935	1929–1935
Number of establishments	395	389	376	390	1.5	1.3
Proprietors and firm members	37	28	(1)	12	(*)	(*)
Salaried personnel, total [2]	14,709	(3)	(1)	13,797	(3)	6.6
Salaried officers of corporations	286	(3)	(1)	325	(3)	—12.0
Supervisory, technical, and clerical employees	[4] 14,423	[5] 9,815	(1)	13,472	46.9	7.1
Salaries paid, total [2]	$33,841,381	(3)	(1)	$33,577,874	(3)	.8
To salaried officers of corporations	$1,976,482	(3)	(1)	$2,374,999	(3)	—16.8
To supervisory, technical, and clerical employees	[4] $31,864,899	[5] $21,567,099	(1)	$31,202,875	47.7	2.1
Wage earners (average for year) [6]	77,402	69,047	68,824	80,596	12.1	—4.0
Wages	$109,610,771	$89,793,481	$107,474,117	$131,176,993	22.1	—16.4
Cost of materials, etc., total	1,478,224,853	1,064,437,370	1,210,517,315	2,031,341,408	38.9	—27.2
Cost of materials, supplies, and containers	1,397,064,930	(1)	(1)	2,000,963,517	(1)	—30.2
Cost of fuel	72,802,049	(1)	(1)	23,709,732	(1)	207.1
Cost of purchased electric energy	8,357,874	(1)	(1)	6,668,159	(1)	25.3
Value of products	1,838,621,913	1,378,636,948	1,524,284,997	2,639,665,001	33.4	—30.3
Value added by manufacture [7]	360,397,060	314,199,578	313,767,682	608,323,593	14.7	—40.8

* Percent not computed where base is less than 100.

[1] No data.

[2] No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

[3] Data incomplete.

[4] Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 3,730; salaries, $11,904,394. Technical, 2,290; salaries, $5,242,167. Clerical, 8,403; salaries, $14,718,338. See sec. 10, p. 7.

[5] Supervisory, 2,941; salaries, $9,375,087. Clerical and other, 6,874; salaries, $12,192,012. See sec. 10, p. 7.

[6] See sec. 11, p. 7.

[7] Value of products less cost of materials, supplies, containers, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, etc., fuel, and purchased energy	Value of products	Value added by manufacture
United States	395	14,709	77,402	$33,841,381	$109,610,774	$1,478,224,853	$1,838,621,913	$360,397,060
Arkansas	5	81	436	208,518	533,615	8,507,773	10,476,049	1,968,276
California	56	2,896	7,826	7,043,507	12,251,468	208,356,898	265,385,925	57,029,027
Illinois	12	683	3,927	1,476,731	5,703,181	60,083,140	80,796,748	20,713,608
Indiana	6	898	5,513	2,175,197	8,229,154	109,330,239	149,788,315	40,458,076
Kansas	22	621	3,346	1,322,032	4,458,967	65,824,782	82,009,926	16,185,144
Kentucky	8	159	566	317,937	740,877	11,621,587	15,787,263	4,165,676
Louisiana	12	733	4,118	1,754,997	5,857,866	67,830,233	82,441,397	14,611,159
Michigan	9	148	407	341,701	576,847	14,092,897	16,590,521	2,497,624
Montana	17	99	395	183,335	547,008	5,397,861	7,191,319	1,793,458
Nebraska	3	3	12	4,392	11,677	133,916	173,292	39,376
New Jersey	8	1,351	8,105	3,353,716	12,811,948	124,588,717	157,862,663	33,273,946
New Mexico	8	26	76	64,950	106,540	1,804,492	2,366,329	561,837
Ohio	11	267	2,447	572,398	3,585,605	57,414,079	68,351,092	10,937,013
Oklahoma	33	733	5,077	1,641,926	6,552,503	88,739,602	106,689,449	17,949,847
Pennsylvania	33	1,888	10,483	4,282,696	14,236,471	168,425,240	204,465,575	36,040,335
Texas	98	2,811	17,694	6,065,299	23,512,282	359,213,554	437,790,250	78,576,696
West Virginia	4	95	578	212,970	705,301	9,282,518	10,305,313	1,022,795
Wyoming	22	214	1,074	543,456	1,687,030	18,910,303	24,653,827	5,743,524
Other States [1]	28	1,003	5,323	2,276,523	7,502,434	98,667,017	115,496,660	16,829,643

[1] Alabama, 1 establishment; Colorado, 6; Delaware, 1; Georgia, 2; Maryland, 3; Massachusetts, 2; Missouri, 1; New York, 5; Rhode Island, 2; South Carolina, 1; South Dakota, 1; Utah, 2; Virginia, 1.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States													
1935	77,402	75,883	74,987	76,236	76,718	77,130	77,774	79,100	79,209	78,092	78,623	77,800	77,267
1933	69,047	(*)	(*)	64,222	(*)	(*)	65,756	(*)	(*)	74,517	(*)	(*)	76,366
States, 1935													
Arkansas	436	380	395	493	402	488	420	482	385	405	467	465	445
California	7,826	7,542	7,483	7,473	7,580	7,905	8,095	8,164	8,002	8,003	8,016	7,883	7,766
Colorado	129	122	120	121	138	140	132	137	130	131	126	124	129
Illinois	3,927	3,676	3,501	3,781	3,844	4,023	3,910	4,160	4,163	3,962	4,247	3,938	3,916
Indiana	5,513	5,455	5,328	5,374	5,506	5,590	5,568	5,660	5,722	5,666	5,619	5,421	5,246
Kansas	3,346	3,211	3,194	3,268	3,307	3,403	3,443	3,501	3,514	3,335	3,397	3,291	3,293
Kentucky	566	645	545	568	571	585	559	539	544	534	565	570	566
Louisiana	4,118	4,131	4,024	4,094	4,057	4,023	4,115	4,142	4,099	4,139	4,202	4,203	4,191
Maryland	1,044	1,117	1,135	1,140	1,129	1,071	1,019	979	991	989	998	984	980
Michigan	407	382	387	389	378	391	395	408	424	428	430	440	432
Montana	395	309	327	400	466	423	409	386	433	414	443	374	352
Nebraska	12	12	12	12	12	12	12	12	12	12	12	12	12
New Jersey	8,105	8,065	8,129	8,057	8,124	8,271	8,198	8,123	8,166	8,244	8,051	7,940	7,893
New Mexico	76	71	73	68	83	88	78	80	76	74	78	73	73
New York	2,123	2,167	2,143	2,085	2,053	2,073	2,093	2,113	2,140	2,165	2,189	2,123	2,127
Ohio	2,447	2,414	2,418	2,561	2,425	2,346	2,409	2,459	2,541	2,438	2,447	2,528	2,377
Oklahoma	5,077	4,809	4,797	4,926	5,081	5,092	5,182	5,226	5,262	5,162	5,182	5,174	5,031
Pennsylvania	10,483	10,742	10,593	10,824	10,488	10,479	10,543	10,816	10,646	10,415	10,211	10,045	9,992
Texas	17,694	17,073	16,873	17,111	17,407	17,016	17,392	17,936	18,092	17,771	18,282	18,552	18,819
West Virginia	578	595	545	528	543	604	619	584	570	572	572	595	607
Wyoming	1,074	924	937	997	1,063	1,109	1,145	1,146	1,184	1,148	1,142	1,072	1,021

*Data incomplete. See last sentence, second paragraph, sec. 11, p. 7.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1929 TO 1935

PRODUCTS	1935	1933	1931	1929
Petroleum Refining industry, all products, total value	$1,838,621,913	$1,378,636,948	$1,524,284,997	$2,639,665,001
Refinery products	$1,830,394,443	[1] $1,359,968,401	$1,520,420,376	$2,627,533,212
Other products (not normally belonging to the industry)	$3,584,369	[1] $3,522,652	$2,960,956	$12,131,789
Receipts for contract work	$4,643,101	$1,022,618	$903,665	
Refinery products, other products, and receipts for contract work, not reported separately (on abridged schedule)[2]		[2] 14,123,277		
Refinery products, aggregate value	$1,830,394,443	[1] $1,359,968,401	$1,520,420,376	$2,627,533,212
Light products of distillation:				
Total gallons	18,807,672,302	16,419,990,528	17,609,203,078	18,406,526,510
Total value	$1,040,601,788	$775,302,407	$854,075,911	$1,610,044,440
Gasoline:				
Gallons	18,505,867,347	16,094,530,726	17,100,620,661	17,538,788,709
Value	$1,023,577,578	$759,183,106	$831,385,803	$1,531,242,047
Naphtha:				
Gallons	216,906,289	228,515,546	461,174,457	662,642,001
Value	$13,223,238	$12,251,380	$20,667,599	$64,904,197
Benzine:				
Gallons	43,241,099	31,771,371	33,247,395	49,940,970
Value	$2,577,185	$1,747,479	$1,808,462	$5,276,195
Tops:				
Gallons	41,657,567	65,172,885	14,160,565	155,154,830
Value	$1,223,787	$2,120,442	$214,047	$8,622,001
Illuminating oils:				
Gallons	2,194,731,494	1,949,862,606	1,745,447,137	2,338,928,885
Value	$94,178,808	$78,127,721	$72,743,168	$164,835,912
Fuel oils:				
Total gallons	15,905,205,577	13,295,106,853	14,209,691,768	16,390,954,087
Total value	$359,437,322	$253,236,655	$271,568,034	$384,630,297
Distillates:				
Gallons	1,782,051,447	1,598,816,084	1,055,596,536	1,024,364,025
Value	$60,982,655	$49,647,648	$28,117,151	$39,338,451
Gas oils:				
Gallons	2,709,137,970	1,977,442,889	2,562,147,555	2,882,958,643
Value	$85,549,854	$53,930,839	$68,429,729	$96,094,037
Residual fuel oils:				
Gallons	11,414,016,160	9,718,847,880	10,591,947,677	12,483,631,419
Value	$212,904,813	$149,658,168	$175,021,154	$249,197,809
Partially refined oils, sold for rerunning:				
Total gallons	1,042,275,771	1,130,067,737	1,313,269,850	1,466,861,399
Above fuel oil	737,006,542	760,696,564	891,279,911	869,055,523
Fuel oil	276,557,168	345,215,231	383,803,374	567,533,199
Below fuel oil	28,712,061	24,155,942	38,186,565	30,272,677
Total value	$31,658,293	$23,733,608	$28,457,923	$49,142,865
Lubricating oils:				
Total gallons	1,274,384,495	1,047,211,662	1,147,766,773	1,553,710,762
Total value	$186,533,605	$142,444,081	$197,371,938	$304,672,655
Black, cylinder, red, neutral, pale, and paraffin:				
Gallons	777,071,829	650,475,340	724,012,567	940,870,411
Value	$104,986,275	$74,177,605	$102,593,101	$169,364,721
All other lubricating oils, including compounded and unclassified:				
Gallons	497,312,666	396,736,322	423,754,206	612,840,351
Value	$81,547,330	$68,266,476	$94,778,837	$135,307,934
Liquid asphaltic road oils:				
Gallons	406,967,817	300,243,118	377,747,552	323,001,799
Value	$13,346,322	$8,343,122	$10,424,992	$11,041,285
Residuum or tar:				
Gallons	88,525,836	64,976,822	67,468,366	104,111,494
Value	$1,696,440	$1,270,737	$1,663,465	$3,148,630
Greases:				
Total gallons	49,918,651	41,923,024	45,816,331	52,017,128
Total value	$12,739,929	$9,250,944	$12,375,653	$16,645,858
Petrolatum, mineral jelly, etc.:				
Gallons	18,327,253	14,710,994	16,958,628	13,663,503
Value	$2,607,820	$1,854,740	$2,222,226	$2,547,531
Lubricating greases, including axle grease:[3]				
Gallons	31,591,398	27,212,030	28,857,703	38,353,625
Value	$10,132,109	$7,396,204	$10,153,427	$14,098,327

For footnotes, see end of table.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1929 TO 1935—Continued

PRODUCTS	1935	1933	1931	1929
Paraffin wax:				
Gallons	76,495,085	72,851,936	79,483,315	84,639,316
Value	$14,446,776	$12,210,791	$13,353,136	$22,328,375
Acid oil:				
Gallons	94,257,589	85,627,032	84,559,997	34,766,976
Value	$1,219,084	$1,014,729	$1,119,987	$662,611
Asphalt, other than liquid asphalt:				
Tons (2,000 pounds)	2,153,619	1,789,798	2,462,102	3,115,197
Value	$23,232,564	$17,931,591	$21,750,784	$34,506,067
Petroleum coke:				
Tons (2,000 pounds)	1,443,856	1,751,412	2,028,726	1,264,576
Value	$5,764,674	$5,581,028	$7,182,209	$5,461,210
Liquefied petroleum gases:				
Gallons	355,962,713	178,630,287	255,139,669	(4)
Value	$7,256,124	$2,524,098	$5,778,926	(4)
Other refinery products, value	$38,282,714	$28,995,989	$22,554,250	$20,413,007

[1] Revised.
[2] An abridged questionnaire, which did not call for detailed production data, was used for canvassing the smaller establishments in the census for 1933.
[3] Production in petroleum refineries only. Lubricating greases are also made in the "Lubricating Greases, Not Made in Petroleum Refineries" industry.
[4] No data.

TABLE 5.—PRINCIPAL PRODUCTS, BY STATES: 1935

STATE	Gasoline	Naphtha, benzine, and tops	Illuminating oils	Fuel oils	Lubricating oils
United States:					
Gallons	18,505,867,347	301,804,955	2,194,731,494	15,905,205,577	1,274,384,495
Value	$1,023,577,578	$17,024,210	$94,178,808	$350,437,322	$186,533,605
Arkansas:					
Gallons	104,488,980	5,439,004	7,654,156	76,313,883	17,039,691
Value	$5,218,388	$302,127	$280,318	$1,613,751	$1,110,801
California:					
Gallons	2,731,462,319	63,031,016	205,225,877	5,380,653,347	91,521,935
Value	$133,796,784	$2,554,780	$7,330,910	$93,129,262	$13,231,537
Illinois:					
Gallons	844,912,602	2,683,414	47,031,921	306,931,002	45,385,011
Value	$54,687,408	$170,732	$2,322,006	$8,937,594	$8,557,476
Indiana:					
Gallons	1,464,518,715	26,665,146	83,731,900	569,521,201	59,311,327
Value	$99,182,597	$1,969,329	$4,342,292	$20,069,572	$9,726,957
Kansas:					
Gallons	1,083,980,624	22,468,249	115,834,992	487,243,388	20,351,351
Value	$56,103,255	$1,045,197	$4,443,371	$10,988,054	$4,210,968
Kentucky:					
Gallons	165,361,693	136,211	17,167,261	54,435,152	574,877
Value	$11,400,531	$8,578	$797,598	$1,572,204	$61,211
Louisiana:					
Gallons	855,850,661	14,214,889	226,884,139	816,360,754	26,248,475
Value	$43,619,572	$798,895	$9,069,345	$18,537,489	$3,885,741
Michigan:					
Gallons	133,100,516	22,555,670	19,252,235	160,547,404	30,440
Value	$8,951,458	$1,277,352	$967,208	$5,177,271	$4,431
Montana:					
Gallons	56,335,241	14,305,939	641,750	65,527,191	----------
Value	$4,673,095	$81,578	$49,932	$1,624,764	----------
Nebraska:					
Gallons	1,615,254	----------	19,636	591,146	----------
Value	$124,256	----------	$1,178	$47,858	----------
New Jersey:					
Gallons	1,074,146,468	19,772,503	208,517,610	926,750,771	269,148,592
Value	$59,770,277	$1,882,511	$10,632,377	$27,439,174	$43,144,947
New Mexico:					
Gallons	29,099,644	----------	1,489,837	26,394,054	----------
Value	$1,808,745	----------	$66,803	$466,210	----------
Ohio:					
Gallons	726,725,364	9,149,349	40,023,226	315,981,168	20,225,107
Value	$47,432,623	$775,832	$2,095,993	$8,966,573	$2,881,580
Oklahoma:					
Gallons	1,367,053,052	26,865,427	163,720,969	561,173,125	115,191,522
Value	$68,091,215	$1,625,494	$5,783,574	$10,808,258	$15,805,240

TABLE 5.—PRINCIPAL PRODUCTS, BY STATES: 1935—Continued

STATE	Gasoline	Naphtha, benzine, and tops	Illuminating oils	Fuel oils	Lubricating oils
Pennsylvania:					
Gallons	1,711,128,039	22,065,718	215,477,838	1,311,768,650	228,605,307
Value	$99,440,467	$1,527,294	$10,311,908	$35,769,817	$36,764,852
Texas:					
Gallons	4,837,609,886	36,233,066	734,194,323	3,886,036,275	269,427,087
Value	$250,554,470	$2,062,765	$30,858,700	$87,263,666	$28,375,522
West Virginia:					
Gallons	80,902,232	947,010	17,483,776	12,691,762	18,685,800
Value	$4,879,615	$68,709	$795,797	$396,298	$3,067,164
Wyoming:					
Gallons	262,540,434	6,698,944	14,479,814	86,426,393	9,533,945
Value	$16,337,288	$375,783	$603,815	$2,277,814	$2,279,987
Other States:					
Gallons	975,035,623	8,573,400	75,900,234	859,858,821	83,104,028
Value	$57,505,534	$497,254	$3,425,683	$24,351,693	$13,425,191

TABLE 6.—PRINCIPAL MATERIALS CONSUMED, BY KIND AND QUANTITY, FOR THE UNITED STATES: 1935, 1931, AND 1929

[No data for 1933]

MATERIAL	1935	1931	1929
	BARRELS (42 gallons)		
Crude petroleum	959,270,314	909,419,575	1,039,921,589
Partially refined oils, tops, waxes, etc	55,235,940	36,881,122	51,549,133
Natural gasoline, total	54,596,695	29,920,059	42,381,002
Purchased	38,452,262	26,176,835	37,098,958
Extracted and used	16,144,433	3,743,224	5,282,044
	TONS (2,000 pounds)		
Soda ash	11,212	9,438	18,441
Sulphuric acid:			
Purchased and produced in plant	707,425	900,247	1,007,590
Reclaimed and reused	[1] 220,538	[1] 461,585	476,273
Caustic soda, purchased	80,857	103,845	134,054

[1] Basis 50° Baumé.

TABLE 7.—CRUDE PETROLEUM, NATURAL GASOLINE, AND SULPHURIC ACID CONSUMED, FOR SELECTED STATES: 1935

STATE	Crude petroleum	Natural gasoline (purchased, and extracted and used)	Sulphuric acid (purchased, and made in plant)
	Barrels (42 gallons)	*Barrels (42 gallons)*	*Tons (2,000 pounds)*
Arkansas	7,136,489	380,746	61
California	182,704,556	13,198,198	111,820
Illinois	36,327,288	818,217	17,074
Indiana	60,631,127	1,962,631	70,446
Kansas	44,483,639	18,802,248	10,510
Kentucky	7,218,572	244,373	959
Louisiana	52,201,086	615,611	16,355
Michigan	8,270,481	368,326	61
Montana	3,342,902	195,013	765
New Jersey	60,247,893	1,310,761	90,052
Ohio	30,378,109	258,768	16,000
Oklahoma	57,524,172	5,833,033	74,708
Pennsylvania	91,692,698	654,346	58,719
Texas	248,054,794	8,389,734	208,073
West Virginia	3,390,726	138,367	3,484
Wyoming	10,387,042	775,625	10,820

(1) 803
(2) 801
(3) 802

Group 8.—RUBBER PRODUCTS

THE INDUSTRIES AS A GROUP

[See p. 42]

[Preliminary reports for the Rubber industries were issued on Jan. 4, 1937, and subsequent dates]

Description of the industries.—This group comprises three industries, namely: (1) "Rubber Tires and Inner Tubes," (2) "Boots and Shoes, Rubber," and (3) "Rubber Goods Other Than Tires, Inner Tubes, and Boots and Shoes." The establishments in each of these industries use India rubber or gutta-percha as an important constituent in the manufacture of their products of chief value.

SUMMARY FOR GROUP 8.—RUBBER PRODUCTS: 1929 TO 1935

INDUSTRY	Census year	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[1]
Total for the group	1935	466	114, 681	$133, 715, 235	$368, 581, 861	$677, 659, 111	$309, 077, 250
	1933	408	106, 283	99, 116, 552	211, 396, 716	472, 743, 587	261, 346, 871
	1931	453	99, 259	112, 596, 379	252, 867, 163	614, 265, 307	361, 398, 144
	1929	525	149, 148	207, 305, 857	578, 677, 681	1, 117, 460, 252	538, 782, 571
Rubber tires and inner tubes	1935	42	57, 128	78, 253, 489	265, 515, 401	446, 091, 602	180, 576, 201
	1933	44	52, 976	54, 737, 313	139, 392, 070	299, 313, 263	159, 921, 193
	1931	48	49, 159	63, 088, 584	173, 604, 186	406, 283, 123	232, 678, 937
	1929	91	83, 263	127, 081, 975	429, 606, 071	770, 176, 890	340, 569, 919
Boots and shoes, rubber	1935	12	17, 246	16, 113, 490	20, 729, 996	53, 162, 121	32, 432, 125
	1933	13	18, 102	14, 440, 403	14, 124, 109	42, 018, 877	27, 894, 768
	1931	15	15, 882	13, 769, 928	12, 298, 297	47, 905, 467	35, 607, 170
	1929	22	25, 659	29, 945, 265	34, 396, 466	102, 537, 625	68, 141, 159
Rubber goods other than tires, inner tubes, and boots and shoes.	1935	412	40, 307	39, 348, 256	82, 336, 464	178, 405, 388	96, 068, 924
	1933	351	35, 205	29, 938, 936	57, 880, 537	131, 411, 447	73, 530, 910
	1931	390	34, 218	35, 737, 867	66, 964, 680	160, 076, 717	93, 112, 037
	1929	412	40, 226	50, 278, 617	114, 674, 244	244, 745, 737	130, 071, 493

[1] Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (—) 1933-1935	1929-1935
THE INDUSTRIES AS A GROUP						
Number of establishments	466	408	453	525	14.2	—11.2
Proprietors and firm members	107	79	(1)	110	(*)	—2.7
Salaries personnel, total [2]	16,845	(3)	(1)	22,834	(3)	—26.2
Salaried officers of corporations	779	(3)	(1)	949	(3)	—17.9
Supervisory, technical, and clerical employees	[4] 16,066	[5] 14,874	(1)	21,885	8.0	—26.6
Salaried paid, total [2]	$35,699,580	(3)	(1)	$55,352,581	(3)	—35.5
To salaried officers of corporations	$5,527,489	(3)	(1)	$8,374,761	(3)	—34.0
To supervisory, technical, and clerical employees	[4] $30,171,731	[5] $26,323,098	(1)	$46,977,820	14.6	—35.8
Wage earners (average for year)[6]	114,681	106,283	99,259	149,148	7.9	—23.1
Wages	$133,715,235	$99,116,552	$112,596,379	$207,305,857	34.9	—35.5
Cost of materials, etc., total	$368,581,861	$211,396,716	$252,867,163	$578,677,681	74.4	—36.3
Cost of materials, supplies, and containers	$353,375,428	(1)	(1)	$559,000,306	(1)	—36.8
Cost of fuel	$7,876,440	(1)	(1)	$9,436,800	(1)	—16.5
Cost of purchased electric energy	$7,329,993	(1)	(1)	$10,240,575	(1)	—28.4
Value of products	$677,659,111	$472,743,587	$614,265,307	$1,117,460,252	43.3	—39.4
Value added by manufacture [7]	$309,077,250	$261,346,871	$361,398,144	$538,782,571	18.3	—42.6
RUBBER TIRES AND INNER TUBES						
Number of establishments	42	44	48	91	(*)	(*)
Proprietors and firm members	1	1	(1)	5	------	(*)
Salaries personnel, total [2]	8,587	(3)	(1)	12,981	(3)	—33.8
Salaried officers of corporations	121	(3)	(1)	286	(3)	—57.7
Supervisory, technical, and clerical employees	[8] 8,466	[9] 8,251	(1)	12,695	2.6	—33.3
Salaried paid, total [2]	$18,807,430	(3)	(1)	$31,097,602	(3)	—39.5
To salaried officers of corporations	$1,431,545	(3)	(1)	$3,357,476	(3)	—57.4
To supervisory, technical, and clerical employees	[8] $17,375,885	[9] $15,911,001	(1)	$27,740,126	9.2	—37.4
Wage earners (average for year)[6]	57,128	52,976	49,159	83,263	7.8	—31.4
Wages	$78,253,489	$54,737,313	$63,088,584	$127,081,975	43.0	—38.4
Cost of materials, etc., total	$265,515,401	$139,392,070	$173,604,186	$429,606,971	90.5	—38.2
Cost of materials, supplies, and containers	$257,817,452	(1)	(1)	$419,283,058	(1)	—38.5
Cost of fuel	$4,533,604	(1)	(1)	$5,497,669	(1)	—17.5
Cost of purchased electric energy	$3,164,345	(1)	(1)	$4,826,244	(1)	—34.4
Value of products	$446,091,602	$299,313,263	$406,283,123	$770,176,890	49.0	—42.1
Value added by manufacture [7]	$180,576,201	$159,921,193	$232,678,937	$340,569,919	12.9	—47.0
RUBBER BOOTS AND SHOES						
Number of establishments	12	13	15	22	(*)	(*)
Proprietors and firm members	------	------	(1)	------	------	------
Salaried personnel, total [2]	2,131	(3)	(1)	3,619	(3)	—41.1
Salaried officers of corporations	38	(3)	(1)	46	(3)	(*)
Supervisory, technical, and clerical employees	[10] 2,093	[11] 2,029	(1)	3,573	3.2	—41.4
Salaries paid, total [2]	$3,724,482	(3)	(1)	$7,745,144	(3)	—51.9
To salaried officers of corporations	$323,401	(3)	(1)	$610,872	(3)	—47.1
To supervisory, technical, and clerical employees	[10] $3,401,081	[11] $3,168,495	(1)	$7,134,272	7.3	—52.3

For footnotes, see end of table.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935—Con.

	1935	1933	1931	1929	Percent of increase or decrease (−) 1933-1935	Percent of increase or decrease (−) 1929-1935
RUBBER BOOTS AND SHOES—con.						
Wage earners (average for year) [6]	17,246	18,102	15,882	25,659	−4.7	−32.8
Wages	$16,113,490	$14,440,403	$13,769,928	$29,945,265	11.6	−46.2
Cost of materials, etc., total	$20,729,996	$14,124,109	$12,298,297	$34,396,466	46.8	−39.7
Cost of materials, supplies, and containers	$19,512,524	(1)	(1)	$32,992,573	(1)	−40.7
Cost of fuel	$591,548	(1)	(1)	$637,580	(1)	−7.2
Cost of purchased electric energy	$625,924	(1)	(1)	$856,313	(1)	−26.9
Value of products	$53,162,121	$42,018,877	$47,905,467	$102,537,625	26.5	−48.2
Value added by manufacture [7]	$32,432,125	$27,894,768	$35,607,170	$68,141,159	16.3	−52.4
RUBBER GOODS OTHER THAN TIRES, INNER TUBES, AND BOOTS AND SHOES						
Number of establishments	412	351	390	412	17.4	-------
Proprietors and firm members	106	78	(1)	105	(*)	1.0
Salaried personnel, total [2]	6,127	(3)	(1)	6,234	(3)	−1.7
Salaried officers of corporations	620	(3)	(1)	617	(3)	0.5
Supervisory, technical, and clerical employees	[12] 5,507	[13] 4,594	(1)	5,617	10.9	−2.0
Salaries paid, total [2]	$13,167,668	(3)	(1)	$16,509,835	(3)	−20.2
To salaried officers of corporations	$3,772,903	(3)	(1)	$4,406,413	(3)	−14.4
To supervisory, technical, and clerical employees	[12] $9,394,765	[13] $7,243,602	(1)	$12,103,422	29.7	−22.4
Wage earners (average for year) [6]	40,307	35,205	34,218	40,220	14.5	2.0
Wages	$39,348,256	$29,938,836	$35,737,867	$50,278,617	31.4	−21.7
Cost of materials, etc., total	$82,336,464	$57,880,537	$66,964,680	$114,674,244	42.3	−28.2
Cost of materials, supplies, and containers	$76,045,452	(1)	(1)	$106,814,675	(1)	−28.8
Cost of fuel	$2,751,288	(1)	(1)	$3,301,551	(1)	−16.7
Cost of purchased electric energy	$3,539,724	(1)	(1)	$4,558,018	(1)	−22.3
Value of products	$178,405,388	$131,411,447	$160,076,717	$244,745,737	35.8	−27.1
Value added by manufacture [7]	$96,068,924	$73,530,910	$93,112,037	$130,071,493	30.7	−26.1

* Percent not computed where base is less than 100.

[1] No data.

[2] No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

[3] Data incomplete.

[4] Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 3,358; salaries, $9,231,592. Technical, 1,524; salaries, $4,126,456. Clerical, 11,184; salaries, $16,813,683. (See sec. 10, p. 7.)

[5] Supervisory, 2,677; salaries, $8,828,335. Clerical and other, 12,197; salaries, $17,494,763. See sec. 10, p. 7.

[6] See sec. 11, p. 7.

[7] Value of products less cost of materials, fuel, and purchased electric energy. See sec. 18, p. 11.

[8] Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 1,393; salaries, $4,030,567. Technical, 829; salaries, $2,420,776. Clerical, 6,244; salaries, $10,924,542. (See sec. 10, p. 7.)

[9] Supervisory, 1,019; salaries, $4,152,538. Clerical and other, 7,232; salaries, $11,758,463. (See sec. 10, p. 7.)

[10] Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 638; salaries, $1,551,186. Technical, 223; salaries, $568,629. Clerical, 1,232; salaries, $1,281,266. (See sec. 10, p. 7.)

[11] Supervisory, 529; salaries, $1,695,566. Clerical and other, 1,500; salaries, $1,472,929. (See sec. 10, p. 7.)

[12] Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 1,327; salaries, $3,649,839. Technical, 472; salaries, $1,137,051. Clerical, 3,708; salaries, $4,607,875. (See sec. 10, p. 7.)

[13] Supervisory, 1,129; salaries, $2,980,231. Clerical and other, 3,465; salaries, $4,263,371. (See sec. 10, p. 7.)

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, containers, fuel, and purchased energy	Value of products	Value added by manufacture
THE INDUSTRIES AS A GROUP								
United States	466	16,845	114,681	$356,99,580	$133,715,235	$368,581,861	$677,659,111	$309,077,250
RUBBER TIRES AND INNER TUBES								
United States	42	8,587	57,128	18,807,430	78,253,489	265,515,401	446,091,602	180,576,201
California	5	601	3,589	1,316,298	4,920,443	22,774,871	34,289,480	11,514,609
Ohio	14	5,655	39,063	12,974,884	57,170,172	162,358,806	299,321,191	136,962,385
Other States [1] [2]	23	2,331	14,476	4,516,248	16,162,874	80,381,724	112,480,931	32,099,207
RUBBER BOOTS AND SHOES								
United States	12	2,131	17,246	3,724,482	16,113,490	20,729,996	53,162,121	32,432,125
Massachusetts	5	957	6,321	1,805,361	6,334,995	7,897,068	21,574,887	13,677,819
Other States [3]	7	1,174	10,926	1,919,121	9,778,495	12,832,928	31,587,234	18,754,306
RUBBER GOODS OTHER THAN TIRES, INNER TUBES, AND BOOTS AND SHOES.								
United States	412	6,127	40,307	13,167,668	39,348,256	82,336,464	178,405,388	96,068,924
California	35	223	928	540,518	994,420	2,742,577	6,055,097	3,312,520
Connecticut	16	352	2,417	751,352	2,012,875	4,547,867	9,827,259	5,279,392
Illinois	27	244	2,548	502,221	2,439,003	3,505,423	8,575,060	5,069,637
Indiana	12	131	1,514	377,550	1,180,221	1,559,743	4,354,575	2,794,832
Kentucky	3	7	27	10,562	15,714	34,422	93,970	59,548
Maryland	8	45	387	97,267	279,697	520,505	1,328,382	807,877
Michigan	8	94	898	222,619	1,158,880	2,693,040	5,617,768	2,924,728
Missouri	11	75	653	194,523	557,212	2,121,204	3,843,019	1,721,815
New Jersey	48	1,372	8,322	2,917,800	9,081,423	17,310,581	37,802,670	20,492,089
New York	47	598	4,597	1,289,743	4,781,817	10,522,432	22,019,434	11,497,002
Ohio	74	872	6,396	1,942,803	6,131,008	11,907,569	25,324,912	13,417,343
Pennsylvania	21	346	2,148	756,686	1,982,801	3,589,690	8,461,108	4,871,418
Rhode Island	9	421	2,841	956,494	2,539,552	4,450,992	10,138,749	5,687,757
Texas	5	9	49	28,094	43,622	116,750	248,175	131,425
Washington	3	5	22	5,001	19,227	25,497	87,797	62,300
Wisconsin	8	101	465	181,169	361,196	927,912	2,205,620	1,277,708
Other States [1] [4]	77	1,232	6,096	2,393,266	5,769,588	15,760,260	32,421,793	16,661,533

[1] As the figures for Massachusetts, one of the leading States in the "Rubber Tires and Inner Tubes" industry, cannot be given separately for this industry without disclosing approximations of data for individual establishments, they are present in combination with the Massachusetts figures for the "Rubber Goods Other Than Tires, Inner Tubes, and Boots and Shoes" industry, in the statement below. The Massachusetts figures are included above in the "Other States" entries for the respective industries.

Number of establishments	54	Salaries	$2,628,652	Value of products	$40,054,608
Salaried officers and employees	1,292	Wages	6,881,269	Value added by manufacture	17,747,880
Wage earners (average for the year)	6,882	Cost of materials, containers, fuel, and purchased electric energy	22,306,728		

[2] Ala., 1 establishment; Colo., 1; Conn., 2; Ill., 1; Ind., 1; Md., 2; Mass., 2; Mich., 2; Minn., 1; N. J., 3; N. Y., 1; N. C., 1; Pa., 4; Wis., 1.

[3] Conn., 2 establishments; Ill., 1; Ind., 1;, N. J., 1; R. I., 1; Wis., 1.

[4] Ark., 1 establishment; Colo., 2; Del., 2; Ga., 2; Iowa, 2; Maine, 2; Mass,. 52; Minn., 2; Nebr. 1,; N. C., 2; Oreg., 3; S. C., 2; Tenn., 2; Utah, 1; Va. 1.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See sec. 11, p. 23, and sec. 7, p. 12]

	Average number employed during year [1]	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
THE INDUSTRIES AS A GROUP													
United States													
1935	114,735	115,294	117,950	118,163	118,128	115,470	112,347	109,554	110,721	113,445	115,414	114,877	115,462
1933	106,283	(*)	(*)	84,904	(*)	(*)	103,364	(*)	(*)	127,335	(*)	(*)	118,648
RUBBER TIRES AND INNER TUBES													
United States													
1935	57,137	59,177	59,906	59,596	59,421	58,563	57,763	56,028	55,041	55,258	55,405	54,564	54,921
1933	52,976	43,081	43,156	42,260	41,848	47,553	54,099	60,169	64,133	62,543	60,411	58,702	57,756
States, 1935													
California	3,603	3,643	3,743	3,657	3,632	3,592	3,576	3,430	3,521	3,507	3,506	3,689	3,745
New Jersey	305	385	222	197	373	337	357	264	327	283	315	275	274
Ohio	39,068	40,078	40,652	40,299	40,279	39,734	39,598	38,518	37,992	38,394	38,053	37,328	37,892
Pennsylvania	1,675	1,738	1,774	1,795	1,764	1,764	1,742	1,672	1,575	1,594	1,616	1,571	1,497
RUBBER BOOTS AND SHOES													
United States													
1935	17,246	17,229	17,630	17,466	17,538	16,352	15,564	15,149	17,356	17,897	18,031	18,159	18,586
1933	18,102	15,642	15,230	14,415	13,907	14,289	14,719	15,890	20,588	22,623	22,903	23,833	23,174
State, 1935													
Massachusetts	6,321	5,704	6,144	6,222	6,876	5,863	5,125	6,005	6,448	6,630	6,822	6,946	7,062
RUBBER GOODS OTHER THAN TIRES, INNER TUBES, AND BOOTS AND SHOES													
United States													
1935	40,352	38,888	40,414	41,101	41,169	40,555	39,020	38,377	38,324	40,290	41,978	42,154	41,955
1933	35,205	(*)	(*)	28,229	(*)	(*)	34,546	(*)	(*)	42,163	(*)	(*)	37,718
States, 1935													
California	928	830	851	897	966	982	953	949	928	941	944	960	934
Connecticut	2,417	2,434	2,467	2,510	2,422	2,356	2,314	2,302	2,308	2,378	2,534	2,506	2,473
Illinois	2,549	2,686	2,832	2,787	2,610	2,317	2,241	2,232	1,837	2,459	2,723	2,904	2,955

Indiana	1,514	1,476	1,516	1,501	1,457	1,423	1,373	1,412	1,535	1,559	1,612	1,719	1,579
Kentucky	27	7	14	20	14	26	29	33	30	33	36	41	41
Maryland	387	374	370	366	362	389	395	387	365	408	411	389	400
Michigan	898	873	926	956	935	956	732	704	773	843	950	1,067	1,056
Missouri	653	693	701	703	685	714	633	645	642	615	613	596	596
New Jersey	8,322	7,862	8,003	8,218	8,499	8,539	8,382	8,117	8,253	8,332	8,520	8,582	8,555
New York	4,601	4,404	4,601	4,642	4,778	4,710	4,520	4,490	4,562	4,650	4,705	4,588	4,558
Ohio	6,396	6,072	6,510	6,686	6,761	6,685	6,317	5,785	5,668	6,170	6,617	6,695	6,784
Oregon	46	54	54	48	50	51	51	39	42	42	44	40	41
Pennsylvania	2,148	2,011	2,090	2,118	2,141	2,129	2,137	2,152	2,173	2,193	2,220	2,213	2,202
Rhode Island	2,865	2,860	3,089	3,167	3,009	3,017	2,550	2,559	2,725	2,758	2,805	2,892	2,952
Texas	49	50	51	52	50	49	48	50	49	49	49	47	46
Washington	22	22	23	23	21	22	22	21	22	22	20	23	24
Wisconsin	465	376	401	422	417	413	383	452	446	585	614	589	482
Massachusetts [2]	6,898	6,570	6,723	6,952	7,095	6,872	7,087	7,081	6,830	6,906	7,107	6,810	6,748

*Data incomplete. See sec. 11, p. 7.

[1] As the 1935 averages given in this table are derived from the figures for the 12 months in the calendar year, they differ somewhat from the corresponding averages in table 2, which are derived in part from figures for months in fiscal years differing from the calendar years. See sec. 11, p. 7.

[2] See footnote 1, table 2.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1935, 1933, AND 1929

	1935	1933	1929
1. The Rubber Products group of industries, total value	$677, 659, 111	$472, 743, 587	$1, 117, 460, 252
2. Rubber goods	663, 945, 115	465, 309, 741	1, 109, 863, 874
3. Other products (not normally belonging to the industries)	13, 713, 996	4, 480, 077	7, 596, 378
4. Rubber goods and other products not reported separately (on abridged schedule)[1]	----------	2, 953, 769	----------
5. Rubber goods made as secondary products in industries outside this group	7, 776, 566	3, 305, 223	1, 706, 630
Rubber goods, aggregate (sum of 2 and 5)	$671, 721, 681	$468, 614, 964	$1, 111, 630, 504
(a) Tires and inner tubes, total value	$374, 204, 436	$256, 512, 514	$676, 909, 812
Pneumatic tires and casings:			
Motor-vehicle, except motorcycle and bicycle:			
Total number	48, 764, 713	45, 375, 552	60, 765, 223
Total value	$322, 193, 418	$221, 050, 854	$573, 527, 425
Passenger-car:			
Number	42, 479, 133		
Value	$221, 555, 480		
Truck and bus:			
Number	6, 003, 338		
Value	$99, 852, 136		
Airplane:		(2)	(2)
Number	28, 086		
Value	$451, 684		
All other:			
Number	254, 156		
Value	$334, 118		
Motorcycle and bicycle:			
Single-tube tires:			
Number	2, 338, 767		
Value	$1, 751, 198		
Casings:			
Number	1, 667, 709		
Value	$2, 100, 351		
Inner tubes:			
Passenger-car, truck, and bus:			
Number	47, 760, 679	46, 811, 770	77, 779, 858
Value	$44, 386, 374	$31, 715, 479	$84, 209, 685
Airplane:			
Number	20, 242		
Value	$67, 088		
All other, including motorcycle and bicycle:			
Number	1, 529, 790		
Value	$600, 895		
Solid and cushion tires:			
Truck and bus for highway transportation:			
Number	36, 790		
Value	$1, 533, 681		
Industrial truck, tractor, and trailer:			
Number	116, 852	[3] $3, 746, 181	[3] $19, 172, 702
Value	$853, 913		
All other, including carriage and other tiring:			
Number	6, 993, 794		
Value	$717, 518		
(b) Boots and shoes, total value	$48, 261, 613	$41, 513, 460	$111, 359, 622
Rubber-soled canvas shoes:			
Pairs	23, 955, 089	29, 089, 163	43, 954, 011
Value	$12, 342, 790	$13, 813, 171	$30, 335, 279
Rubber boots:			
Pairs	3, 029, 126	2, 622, 311	5, 453, 865
Value	$5, 534, 346	$4, 658, 534	$16, 140, 851
Lumbermen's pacs:			
Pairs	1, 880, 728	1, 201, 189	1, 817, 078
Value	$3, 362, 006	$1, 661, 145	$4, 171, 728
Arctics and gaiters:			
Buckle and automatic, except style:			
Pairs	4, 776, 853		
Value	$6, 788, 272		
Style, rubber or cloth:		15, 814, 586	19, 244, 673
Pairs	14, 568, 756	$13, 374, 148	$31, 722, 333
Value	$10, 796, 311		
Other shoes, rubbers, and footholds:			
Pairs	16, 583, 175	15, 968, 426	30, 294, 867
Value	$9, 437, 888	$8, 006, 462	$28, 989, 431

For footnotes, see end of table.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1935, 1933, AND 1929—Continued

	1935	1933	1929
Rubber goods—Continued.			
(c) Rubber goods other than tires, inner tubes, and boots and shoes, total value	$249,195,632	$170,588,990	$323,361,070
Rubber heels, made for sale as such:			
Pairs	278,369,016	272,504,312	292,719,416
Value	$11,594,192	$11,119,047	$17,926,991
Rubber soles, including composition or fiber, made for sale as such:			
Pairs	69,655,749	91,994,794	46,188,879
Value	$7,258,594	$8,315,846	$8,959,690
Rubber soling strips and top-lift sheets:			
Square feet	9,943,849	10,752,949	4,313,026
Value	$2,667,089	$1,711,451	$1,717,212
Rubberized fabrics, made for sale as such, total value	$20,059,116	$18,197,918	$29,754,104
Automobile and carriage:			
Square yards	5,227,135	8,620,009	22,407,668
Value	$1,873,614	$3,361,918	$11,864,090
Raincoat:			
Square yards	19,975,411	18,064,141	25,575,960
Value	$4,362,658	$5,455,614	$9,681,803
Hospital sheeting:			
Square yards	2,509,073	2,239,984	3,048,105
Value	$838,641	$740,831	$1,444,348
All other:			
Square yards	43,634,069	42,326,587	41,935,695
Value	$12,984,203	$8,639,555	$6,763,863
Mechanical rubber goods:			
Rubber belting:			
Transmission (flat):			
Pounds	15,549,275	13,745,112	21,574,539
Value	$8,976,384	$6,512,277	$13,146,125
Conveyor and elevator:			
Pounds	16,347,418		
Value	$4,545,938		
Fan belts:			
Pounds	12,533,594	16,882,692	23,449,031
Value	$5,552,461	$6,416,181	$12,630,320
All other:			
Pounds	3,932,509		
Value	$1,422,797		
Rubber hose:			
Garden:			
Pounds	31,902,708	(4)	(4)
Value	$4,113,124	[5] $3,783,080	$9,049,483
Fire hose:			
Pounds	7,269,635	(4)	(4)
Value	$3,599,019	[5] $2,622,418	$5,988,345
Air brake, air line, and other pneumatic:			
Pounds	10,134,479		
Value	$3,370,924		
All other rubber hose:		(4)	(4)
Pounds	44,286,800	[5] $10,356,068	$22,399,751
Value	$13,306,963		
Rubber tubing:			
Pounds	13,607,924	13,280,049	16,235,064
Value	$2,235,798	$1,312,507	$3,494,446
Rubber packing:			
Pounds	11,408,903	9,328,083	17,923,100
Value	$2,736,695	$1,872,387	$5,032,921
Washers, gaskets, valves, pump sleeves, and liner strips:			
Pounds	5,168,301	3,811,441	13,320,192
Value	$2,106,441	$1,473,651	$5,107,348
Rubber and friction tape:			
Pounds	12,380,235	11,439,375	20,426,381
Value	$2,851,788	$2,134,313	$4,950,125
Rubber-covered rolls (all sizes), value	$3,727,742	$2,660,551	$2,528,375
Plumbers' rubber goods, value	$1,127,953	$15,870,856	$1,041,470
Other mechanical rubber goods, value	$31,426,644		$30,479,563
Hard-rubber goods, except druggists' sundries, total value	$14,031,661	$9,927,599	$17,937,397
Battery jars, boxes, and parts, value	$6,782,740	$4,338,731	$5,809,715
Mouthpieces for pipes and cigar and cigarette holders, value	$283,984	$5,588,868	$12,127,682
Other (including combs), value	$6,964,937		

For footnotes, see end of table.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1935, 1933, AND 1929—Continued

	1935	1933	1929
Rubber goods—Continued.			
(c) Rubber goods other than tires, inner tubes, and boots and shoes, total value—Continued			
Druggists' and medical sundries, except rubber gloves:			
Water bottles and fountain syringes:			
Dozens	579, 724	552, 039	692, 638
Value	$2, 496, 349	$2, 191, 156	$4, 959, 599
Nipples and pacifiers:			
Gross	474, 004		
Value	$1, 196, 219	$3, 564, 437	$5, 986, 062
All other, including medical and surgical hard-rubber goods, value	$3, 941, 142		
Rubber erasers, except pencil plugs:			
Pounds	1, 205, 693	(6)	(6)
Value	$632, 512	(7)	(7)
Rubber bands:			
Pounds	3, 877, 863	3, 308, 968	3, 488, 731
Value	$1, 262, 937	$809, 813	$1, 955, 005
Rubber gloves:			
Surgeons':			
Dozen pairs	443, 556	[5] 333, 703	473, 547
Value	$897, 783	[5] $618, 899	$991, 083
Electricians':			
Dozen pairs	23, 143		
Value	$226, 265	675, 825	576, 019
Other rubber gloves:		$1, 057, 297	$1, 936, 739
Dozen pairs	821, 074		
Value	$1, 733, 371		
Rubber cement:			
Gallons	5, 970, 854	[5] 3, 742, 018	6, 050, 395
Value	$3, 142, 605	[5] $2, 099, 595	$4, 697, 407
Rubber flooring (tile or sheet):			
Square feet	5, 905, 877	4, 325, 019	8, 505, 615
Value	$1, 704, 421	$1, 237, 010	$4, 267, 010
Rubber mats and matting, value	$8, 972, 976	$3, 926, 486	$8, 805, 670
Tire sundries and repair materials, including camelback	$14, 035, 000	(7)	(7)
Rubber thread:			
Pounds	5, 415, 381	4, 809, 008	5, 726, 490
Value	$2, 550, 833	$2, 236, 011	$5, 189, 600
Jar rings:			
Gross	7, 571, 331	7, 441, 700	8, 437, 696
Value	$2, 072, 401	$1, 784, 407	$3, 001, 475
Bathing caps:			
Dozens	945, 211	1, 228, 276	1, 090, 054
Value	$1, 167, 456	$1, 338, 278	$1, 842, 401
Sponge-rubber products not elsewhere classified, value	$4, 237, 980	$1, 489, 832	(7)
Other manufactures of rubber, value	[8] $40, 440, 282	[9] $43, 949, 619	[9] $87, 585, 353
Reclaimed rubber produced, including that transferred to other plants of same company:			
Pounds	266, 784, 790	(6)	(6)
Value	$11, 773, 777	(7)	(7)

[1] An abridged schedule, which did not provide for reporting production in detail, was used for canvassing the smaller establishments in the "Rubber Goods Other Than Tires, Inner Tubes, and Boots and Shoes" industry in the 1933 Census.
[2] No data.
[3] Includes data for a small quantity of casings and tubes other than those for motor vehicles, motorcycles, and bicycles.
[4] Data incomplete.
[5] Incomplete. Small establishments canvassed with abridged schedule. (See footnote 1.)
[6] No comparable data.
[7] Included in figure for "Other manufactures of rubber."
[8] Includes value of rubber clothing, $10,174,176; toy balloons, $1,338,128; and play balls and other rubber toys, $2,935,866. The total value of rubber toys is given in the report for "Toys (Not Including Children's Wheel Goods or Sleds), Games, and Playground Equipment."
[9] Includes data for items covered by footnote 7 and therefore is not comparable with figures for 1935.

TABLE 5.—RUBBER CONSUMED IN THE RUBBER INDUSTRIES, BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES: 1935, 1933, AND 1929

[Ton, 2,240 pounds]

	1935	1933	1929
CRUDE AND RECLAIMED RUBBER CONSUMED, BY INDUSTRIES			
Total tons consumed	583,073	(1)	(1)
Purchased:			
Tons	545,669	(1)	(1)
Cost	$126,228,184	(1)	(1)
Reclaimed and consumed by same establishments, tons	37,404	(1)	(1)
Crude rubber consumed:			
Total tons	469,448	[2] 393,871	462,101
Total cost	$118,227,609	[2] $44,749,520	$209,458,746
"Rubber Tires and Inner Tubes" industry:			
Tons	378,453	315,718	400,364
Cost	$94,318,413	$34,913,896	$180,592,960
"Rubber Boots and Shoes" industry:			
Tons	20,074	17,994	18,938
Cost	$5,320,107	$2,237,959	$8,907,713
"Rubber Goods Other Than Tires, Inner Tubes, and Boots and Shoes" industry:			
Tons	70,921	[2] 60,159	42,799
Cost	$18,589,089	[2] $7,597,665	$19,958,073
Reclaimed rubber consumed, total tons	113,625	(1)	(1)
Purchased:			
Tons	76,221	[2] 81,936	206,091
Cost	$8,000,575	[2] $6,421,753	$26,864,425
"Rubber Tires and Inner Tubes" industry:			
Tons	26,317	40,203	115,855
Cost	$2,701,884	$3,143,675	$16,639,046
"Rubber Boots and Shoes" industry:			
Tons	1,484	1,252	10,019
Cost	$160,720	$117,960	$1,350,141
"Rubber Goods Other Than Tires, Inner Tubes, and Boots and Shoes" industry:			
Tons	48,420	[2] 40,481	80,217
Cost	$5,137,971	[2] $3,160,118	$8,875,238
Reclaimed and consumed, total tons	37,404	(1)	(1)
"Rubber Tires and Inner Tubes" industry, tons	30,483	(1)	(1)
"Rubber Boots and Shoes" and "Rubber Goods Other Than Tires, Inner Tubes, and Boots and Shoes" industries, tons	6,921	(1)	(1)
CRUDE RUBBER CONSUMED, BY CLASS OF PRODUCTS MADE			
Rubber tires and inner tubes:			
Pneumatic casings	298,950	292,753	367,774
Inner tubes	45,856		
Solid and cushion	1,985	2,789	10,874
Boots and shoes	17,716	17,823	20,798
Rubber heels and soles, including slab soling	15,449	19,054	9,104
Rubberized fabrics and rubberized clothing (finished)	10,377	9,141	7,665
Mechanical rubber goods; rubber flooring; rubber mats and matting	39,325	27,708	24,063
Hard-rubber goods	4,556	2,197	2,148
Rubber thread, rubber cement, and rubber gloves	4,504	3,479	5,453
Tire sundries and repair materials, including camelback	10,817	18,927	14,222
Other manufactures of rubber, including druggists' and medical sundries, bathing caps, balloons, stationers' rubber bands, erasers, golf and tennis balls, toys, and sponge-rubber products	19,913		

[1] No data.
[2] Incomplete, see item 4 and footnote 1, table 4.

TABLE 6.—RUBBER CONSUMED IN THE RUBBER INDUSTRIES, BY STATES: 1935

[Ton, 2,240 pounds]

	Crude rubber	RECLAIMED RUBBER	
		Purchased and consumed	Reclaimed and consumed
United States	469,448	76,221	37,404
California	35,988	4,353	1,911
Connecticut	12,566	1,081	----------
Illinois	5,239	5,770	(1)
Massachusetts	34,167	6,500	3,148
Missouri	2,252	2,834	----------
New Jersey	14,008	6,724	1,233
New York	7,695	1,093	(1)
Ohio	249,821	23,353	26,988
Pennsylvania	12,471	2,036	----------
Rhode Island	5,099	679	----------
Indiana [2]			
Kentucky [2]	13,454	2,435	----------
Michigan [2]			
Minnesota [2]	60,953	15,481	(1)
Wisconsin			
Other States [2 3]	15,735	3,882	[4] 4,124

[1] Withheld to avoid disclosing, exactly or approximately, consumption reported by individual establishments; included in figure for "Other States."

[2] Figures combined to avoid disclosing, exactly or approximately, consumption reported by individual establishments.

[3] Alabama, Colorado, Delaware, Georgia, Iowa, Maine, Maryland, Nebraska, North Carolina, Oregon, Texas, Virginia, and Washington.

[4] Includes data for States covered by footnote 1.

Group 9.—LEATHER AND ITS MANUFACTURES

THE INDUSTRIES AS A GROUP

[See p. 42]

The leather group is made up of nine industries, namely: (1) Leather: Tanned, Curried, and Finished; (2) Belting and Packing, Leather; (3) Boot and Shoe Cut Stock and Findings; (4) Boots and Shoes, Other than Rubber; (5) Gloves and Mittens, Leather; (6) Pocketbooks, Purses, and Cardcases; (7) Saddlery, Harness, and Whips; (8) Trunks, Suitcases, and Bags; (9) Leather Goods not Elsewhere Classified.

Change in classification.—The manufacture of boot and shoe cut stock and the manufacture of boot and shoe findings, formerly treated as separate industries, have been combined and are now classified as a single industry, because of the considerable amount of overlapping between the two lines of manufacture.

Duplication in group totals for cost of materials and value of products.—The cost-of-materials and value-of-products figures for the Leather Industries group as a whole include considerable amounts of duplication resulting from the use of the products of establishments in certain industries as materials by establishments in other industries. In other words, the total value of products for the group includes not only the factory value of the finished products in the form in which they reach the final purchaser but also the value of the products of the "Leather: Tanned, Curried, and Finished" industry, which are used as materials in the other leather industries, and the value of the products of the Boot and Shoe Cut Stock and Findings industry, which are used as materials in the Boot and Shoe industry. Similarly, the total cost of materials for the group includes not only the cost of the hides and other basic raw materials produced outside the leather group and used as materials by tanneries but also the amounts paid for tannery products and for boot and shoe cut stock and findings by establishments which use these products as materials for further manufacture. Furthermore, reduplication occurs in the case of boot and shoe cut stock not made in boot and shoe factories; for the value of the leather used in making such stock appears three times in the total value of products for the group—once as reported by the tanneries, again as a part of the value of the cut stock, and still again as a part of the value of finished boots and shoes. Within any one of the industries, however, there is little duplication resulting from the use of the products of some establishments as materials by others.

SUMMARY FOR GROUP 9.—LEATHER AND ITS MANUFACTURES: 1929 to 1935

[See "Changes in industry groups, classifications, and titles," p. 13.]

	Census year	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 [1]
Aggregate for the group	1935	3,506	310,755	$279,739,647	$690,431,980	$1,224,431,165	$533,999,185
	1933	3,265	282,000	222,487,448	544,737,292	996,772,988	452,035,696
	1931	3,702	272,757	[2] 262,129,700	666,200,319	1,189,876,183	523,675,864
	1929	4,285	318,472	359,460,686	1,132,022,266	1,906,200,994	774,178,728
Leather: Tanned, curried, and finished	1935	384	50,877	55,683,471	197,969,867	308,344,763	110,374,896
	1933	374	44,191	43,075,957	138,176,928	237,202,248	99,025,320
	1931	418	42,047	49,541,526	172,785,669	271,137,694	98,352,025
	1929	471	49,932	63,413,707	337,597,868	481,340,299	143,742,431
Leather products, total	1935	3,122	259,878	224,056,176	492,462,113	916,086,402	423,624,289
	1933	2,891	237,811	179,411,491	406,560,364	759,570,740	353,010,376
	1931	3,284	230,710	[2] 212,588,274	493,414,650	918,738,489	425,323,839
	1929	3,814	268,540	296,046,979	794,424,398	1,424,860,695	630,436,297
Belting and packing, leather	1935	187	2,362	2,519,735	11,551,295	21,522,114	9,970,819
	1933	152	1,684	1,732,911	7,017,728	14,879,803	7,862,075
	1931	178	1,640	1,967,521	7,302,010	14,521,751	7,219,741
	1929	207	2,602	3,549,721	20,679,778	35,631,682	14,951,904
Boot and shoe cut stock and findings [3]	1935	498	18,275	16,781,267	76,092,014	111,578,648	35,486,634
	1933	487	16,798	13,917,502	61,864,196	93,293,266	31,429,070
	1931	552	17,672	16,411,600	82,273,956	117,100,775	34,826,819
	1929	592	19,875	21,378,248	139,510,178	192,073,359	52,563,181
Boots and shoes, other than rubber	1935	1,024	202,113	172,348,507	333,223,652	643,872,470	310,648,818
	1933	1,132	190,914	142,054,152	286,303,143	553,425,166	267,122,023
	1931	1,156	181,374	163,271,281	337,627,472	653,879,746	316,252,274
	1929	1,341	205,640	222,407,732	515,055,246	965,922,694	450,867,448
Gloves and mittens, leather	1935	224	9,810	8,499,756	13,424,181	28,130,909	14,706,728
	1933	194	8,129	6,433,710	11,376,732	23,470,054	12,093,322
	1931	227	7,884	7,553,974	13,136,380	28,023,634	14,887,254
	1929	257	9,203	9,203,911	20,205,740	39,122,729	18,916,989
Pocketbooks, purses, and cardcases	1935	324	11,406	9,231,505	22,255,649	42,991,688	20,736,939
	1933	218	8,107	5,954,292	15,348,920	28,345,054	12,996,134
	1931	260	8,747	9,792,878	22,600,817	43,147,053	20,546,236
	1929	290	10,430	15,229,422	35,351,605	68,627,515	33,275,910
Saddlery, harness, and whips	1935	157	3,234	2,918,738	7,734,815	13,357,034	5,622,219
	1933	147	2,515	2,053,726	6,145,912	10,364,157	4,218,245
	1931	185	1,974	1,926,404	5,268,042	9,339,203	4,071,161
	1929	268	3,396	3,761,442	13,914,427	23,562,774	9,648,347
Trunks, suitcases, and bags	1935	307	6,654	6,335,937	14,914,399	28,248,187	13,333,788
	1933	270	5,117	3,748,720	9,328,084	17,367,982	8,039,898
	1931	371	6,198	6,343,130	13,232,015	26,714,702	13,482,687
	1929	467	11,359	13,756,761	31,693,935	63,968,929	32,274,994
Leather goods not elsewhere classified	1935	401	6,024	5,420,731	13,266,108	26,385,352	13,119,244
	1933	291	4,547	3,516,478	9,175,649	18,425,258	9,249,609
	1931	355	5,221	5,321,486	11,973,958	26,011,625	14,037,667
	1929	392	6,035	6,759,742	18,013,489	35,951,013	17,937,524

[1] Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 18, p. 11.
[2] Revised; revision not carried into group total.
[3] Formerly two industries, namely, "Boot and shoe cut stock, not made in boot and shoe factories" and "Boot and shoe findings, not made in boot and shoe factories."