

31. MINING AND MINERAL PRODUCTS

[Data in this section cover the following areas unless otherwise indicated: Bureau of Census and American Iron and Steel Institute statistics, continental United States; Bureau of Mines production statistics, continental United States, and, for leading products, outlying areas; foreign trade statistics, United States customs area, which includes Alaska, Hawaii, Puerto Rico, and, beginning Jan. 1, 1935, the Virgin Islands. Index numbers of mineral production are shown in table 829, p. 804]

No. 752. MINERAL PRODUCTS OF THE UNITED STATES-VALUE, FOR METALLIC AND NONMETALLIC: 1881 TO 1939

NOTE-All figures in millions of dollars. See general note above

YEARLY AVERAGE OR YEAR	NONMETALLIC					YEAR	NONMETALLIC				
	Total Metal- lic	Total Fuels	1	Other			Total Metal- lic	Total Fuels	1	Other	
1881-1885.	426	194	232	171	61	1921	4,139	655	3,484	2,703	780
1886-1890.	541	249	292	215	78	1922.	1,647	988	3,659	2,738	921
1891-1895.	592	245	347	248	99	1923.	5,987	1,512	4,475	3,317	1,157
1896-1900-	828	366	462	307	154	1924.	5,306	1,233	4,072	2,899	1,174
1901-1905.	1,392	578	814	546	267	1925.	5,678	1,382	4,295	3,059	1,237
1906-1910.	1,887	769	1,118	746	372	1926.	6,214	1,405	4,808	3,542	1,266
1911-1915.	2,220	821	1,400	967	433	1927.	5,530	1,221	4,309	3,060	1,249
1916-1920.	5,129	1,798	3,331	2,602	729	1928.	5,385	1,288	4,097	2,885	1,212
1921-1925.	5,151	1,154	3,997	2,943	1,054	1929.	5,888	1,480	4,407	3,191	1,217
1926-1936.	5,556	1,276	4,280	3,088	1,192	1930-	4,765	986	3,779	2,765	1,015
1931-1935.	3,032	511	2,521	1,977	544	1931.	3,167	570	2,597	1,892	704
1913.	2,434	879	1,554	1,088	467	1932.	2,462	286	2,176	1,743	432
1914.	2,111	687	1,424	993	431	1933.	2,555	417	2,138	1,683	455
1915.	2,395	993	1,401	973	429	1934.	3,325	549	2,776	2,233	543
1916.	3,508	1,622	1,886	1,333	554	1935.	3,650	733	2,917	2,330	587
1917.	4,992	2,089	2,904	2,238	666	1936.	4,557	1,082	3,475	2,759	716
1918.	5,541	2,157	3,384	2,736	648	1937.	5,413	1,468	3,945	3,201	745
1919.	4,624	1,361	3,263	2,511	752	1938.	4,363	892	3,471	2,820	650
1920.	6,981	1,764	5,218	4,193	1,025	1939 (prel.).	4,874	1,291	3,583	2,819	764

1 Coal, natural gas, natural gasoline, petroleum.

Source: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 753. NONFERROUS METALS YEARLY AVERAGE PRICES, BY KIND: 1896 TO 1939

[Prices are cents per pound, except quicksilver (dollars per flask) and platinum (dollars per ounce)]

YEAR	Copper, electro- lytic (New York)	Lead (New York)	Tin ² (New York)	Zinc (St. Louis)	Alumi- num ³ (New York)	Anti- mony (New York)	Quick- silver (New York)	Plati- num (New York)
1896-1900.	413.41	3.84	19.54	64.55	37.15	8.204	42.17	616.66
1901-1905.	13.877	4.330	28.194	75.284	33.80	7.398	43.17	19.55
1906-1910.	15.642	4.780	34.260	5.432	31.12	11.885	44.12	26.58
1911-1915.	14.973	4.359	41.104	7.265	23.84	12.373	52.77	45.16
1916-	27.202	6.858	43.480	12.634	60.71	25.370	125.49	83.40
1917-	27.180	8.787	61.802	8.730	51.59	20.690	106.30	102.82
1918.	824.628	7.413	(9)	7.890	33.53	12.581	123.47	105.95
1919.	18.691	5.759	63.328	6.988	32.14	8.190	92.15	114.61
1920.	17.456	7.957	49.101	7.671	32.72	8.485	81.12	110.90
1921.	12.502	4.545	29.916	4.655	21.11	4.957	45.46	75.03
1922.	13.382	5.734	32.554	5.716	18.68	5.471	58.95	97.62
1923.	14.421	7.267	42.664	6.607	25.41	7.897	66.50	116.54
1924.	13.024	8.097	50.176	6.344	27.03	10.836	69.76	118.82
1925.	14.042	9.020	57.893	7.622	27.19	17.494	83.13	119.09
1926.	13.795	8.417	65.285	7.337	26.99	15.988	91.90	113.27
1927-	12.920	6.755	64.353	6.242	25.41	12.393	118.16	84.64
1928.	14.570	6.305	50.427	6.027	23.90	10.305	123.51	78.58
1929.	18.107	6.833	45.155	6.512	23.90	8.956	122.15	67.66
1930.	12.982	5.517	31.694	4.556	23.79	7.667	115.01	45.36
1931	8.116	4.243	24.467	3.640	23.30	6.720	87.35	35.67
1932.	5.555	3.180	22017	2.876	23.30	5.592	57.93	36.46
1933.	7.025	3.869	39.110	4.029	23.30	6.528	59.23	30.99
1934.	8.428	3.860	52.191	4.158	21.58	8.901	73.87	36.47
1935.	8.649	4.065	50.420	4.328	20.50	13.616	71.99	34.15
1936.	9.474	4.710	46.441	4.901	20.50	12.240	79.92	42.93
1937.	13.167	6.009	54.337	6.519	20.08	15.355	90.18	51.77
1938	10.000	4.739	42.301	4.610	20.06	12.349	75.47	35.90
1939.	10.965	5.053	50.323	5.110	20.00	12.359	103.94	36.75

Flasks of 75 pounds prior to 1927; 76 thereafter.
99 percent tin, 1896-1919; Straits tin chereafter.
2 Prices 289¢ to 1929 for pure aluminum (No. 1 virgin
98-99 percent); beginning 1930, for 99 percent + vir-
ingot.

gin Prices 1896 to 1898 are for Lake copper.

Sources: Engineering and Mining Journal and The Mineral Industry; American Metal Market, annual report, for aluminum, 1909-39.

are for New York zinc.
Average for 1899 and 1900 only.

Average, 1903-5; average for New York zinc,
1901-5, 5.058 cents.

Average of 11 months.

2 No average computed.

No. 754 MINES AND QUARRIES SUMMARY FOR PRODUCING AND NONPRODUCING ENTERPRISES: 1929

NOTE.—Statistics are not comparable with those for earlier years shown in the 1931 and previous issues of the Statistical Abstract owing to the exclusion of data for the petroleum and natural-gas industries (no data having been collected in 1929) and the inclusion of data for the sand and gravel, glass-sand, and moulding-sand industries (data having been collected for the first time in 1929)

		All enter- prises	Producing enterprises	NONPRODUCING ENTERPRISES	
				Number or amount	Percent of total
Number enterprises (see source note).		10,996	10,135	861	7.8
Number of mines and quarries.		12,506	11,602	904	7.2
Persons engaged, total.		870,480	863,948	6,532	.8
Proprietors and firm members.		4,929	4,897	32	.6
Salaried employees.		53,331	52,633	698	1.3
Wage earners (average for the year).		812,220	806,418	5,802	.7
Power equipment (total horsepower).		7,584,463	7,514,843	69,620	.9
Prime movers.		2,780,116	2,743,025	37,091	1.3
Electric motors driven by purchased energy.		4,804,347	4,771,818	32,529	.7
Principal expenses, total.	1,000 dollars.	1,675,944	1,661,168	14,776	.9
Salaries.	do.	139,023	137,639	1,384	1.0
Wages.	do.	1,099,895	1,091,990	7,905	.7
Contract work.	do.	17,914	17,056	857	4.8
Supplies.	do.	297,554	293,568	3,986	1.3
Fuel.	do.	49,364	49,146	218	.4
Purchased electric energy.	do.	72,135	71,763	426	.6
Value of products.	do.	2,392,531	2,392,831		
Expenditures for development (included above in "Principal expenses").	1,000 dollars.	89,546	76,488	13,158	14.7
Machinery and other equipment purchased during the year (total cost).	1,000 dollars..	86,732	84,508	2,224	2.6

No. 755.— MINES AND QUARRIES, PRODUCING—SUMMARY: 1909 to 1929

	1909	1919	1929		PERCENT INCREASE OR DECREASE (%)	
			All indus- tries	Revised (for com- parative purposes) 1f	1909- 1919	1919- 1929
Number enterprises.	12,089	11,466	10,135	9,063	5.2	21.0
Number of mines and quarries.	18,127	13,731	11,602	10,277	24.3	-25.2
Persons engaged, total	982,329	952,565	863,948	841,652	-3.0	-11.6
Proprietors and firm members.	13,703	7,695	4,897	4,629	43.8	-39.8
Salaried employees.	37,946	56,515	52,633	48,666	48.9	-13.9
Wage earners (average for the year).	930,680	888,355	806,418	788,357	-4.5	-11.3
Power equipment (total horsepower).	3,384,759	4,900,102	7,514,843	6,970,091	44.8	42.2
Prime movers.	3,179,270	3,341,350	2,743,025	2,502,132	5.1	-25.1
Electric motors driven by purchased energy.	205,489	1,558,752	4,771,818	4,467,959	658.6	186.6
Principal expenses (1,000 dollars):						
Salaries.	46,093	115,861	137,639	126,008	151.4	8.8
Wages.	559,546	1,161,415	1,091,990	1,066,606	107.6	-8.2
Contract work.	12,151	10,717	17,056	16,595	-11.8	54.9
Supplies and materials.		331,627	293,568	280,623		-15.4
Fuel.	196,530	74,082	49,146	44,693	120.3	-39.7
Purchased electric energy		27,230	71,769	66,416		143.9
Value of products (1,000 dollars).	1,052,569	2,226,671	2,392,831	2,280,384	111.5	2.4

: The figures for 1909, 1919, and 1929 have been adjusted to make them comparable.

Source of tables 754 and 755: Department of Commerce, Bureau of the Census; Fifteenth Census Reports, Mines and Quarries. (For definition of enterprise, see p. 4 of report.)

No. 756.- MINES AND QUARRIES, PRODUCING SUMMARY, BY STATES: 1919 AND 1929

NOTE.- Figures for 1919 and 1929 have been revised to make them comparable except for 1919 where data for revision were not available, and for certain States for 1929 where revision would result in disclosure of individual operations. Therefore, the totals for the United States are less than the sum of the figures for the States for both years and for geographic divisions for 1919; also the totals for most of the geographic divisions for 1929 are less than the sum of the figures for the States.

Wages and value of products in thousands of dollars]

DIVISION AND STATE	NUMBER OF MINES AND QUARRIES		WAGE EARNERS (AVERAGE FOR THE YEAR)		HORSEPOWER		WAGES		VALUE OF PRODUCTS	
	1919	1929	1919	1923	1913	1929	1919	1929	1919	1929
Continental U. S.	13,731	10,277	888,366	788,357	4,900,102	5,970,091	1,161,415	1,066,606	2,226,671	2,280,384
New England.	334	347	7,213	7,979	62,725	96,422	8,036	11,560	18,723	27,929
Maine.	511	56	979	1,170	6,277	12,076	1,052	1,577	1,823	3,468
New Hampshire.	33	391	682	569	4,336	5,455	826	773	1,568	1,562
Vermont.	109	129	2,936	3,154	28,099	39,906	3,042	4,153	8,555	10,276
Massachusetts.	79	771	1,704	2,207	12,493	26,741	2,089	3,657	4,176	8,571
Rhode Island.	15	14	368	256	3,000	4,237	460	385	952	808
Connecticut.	47	42	543	761	8,520	10,756	647	1,220	1,649	3,810
Middle Atlantic.	3,757	2,402	324,242	282,913	723,084	2,294,908	446,802	413,541	777,718	717,793
New York.	147	206	5,334	5,021	61,143	102,389	6,410	7,480	15,230	24,272
New Jersey.	102	71	4,576	2,906	33,901	50,171	5,393	4,309	9,309	11,100
Pennsylvania.	3,508	2,129	241,327	268,881	625,050	2,145,825	434,999	401,988	753,179	683,531
East North Central.	2,324	1,823	181,733	115,863	953,714	1,411,215	227,541	154,018	401,132	318,842
Ohio.	1,064	744	44,175	25,500	184,271	182,003	51,767	29,117	89,035	51,757
Indiana.	398	375	26,348	15,968	121,994	156,645	29,717	22,349	50,236	44,297
Illinois.	590	486	76,371	52,164	282,801	398,602	90,901	71,828	147,410	124,772
Michigan.	165	117	31,292	19,745	337,882	355,897	50,406	27,229	103,870	87,819
Wisconsin.	107	104	3,547	2,517	26,766	49,158	4,750	3,545	10,581	10,401
West North Central.	1,270	1,166	55,948	40,634	330,264	489,585	74,651	54,231	211,597	220,161
Minnesota.	196	143	17,265	11,370	144,199	198,182	29,383	17,767	130,399	130,359
Iowa.	226	207	11,274	6,766	32,166	38,945	12,466	8,806	18,474	14,648
Missouri.	494	401	14,857	12,793	100,070	147,986	16,777	15,538	33,366	43,479
North and South Dakota.	107	150	2,559	2,507	13,881	35,202	3,526	3,834	7,242	10,527
Nebraska.	9	8	162	137	1,847	1,605	166	182	293	460
Kansas.	238	257	9,831	7,061	38,102	67,665	12,333	8,104	21,823	20,688
South Atlantic.	1,976	1,481	117,406	130,236	510,985	871,549	136,860	155,870	252,555	288,757
Delaware and Dist. of Col.	111	6	128	104	757	901	144	120	259	268
Maryland.	216	119	5,628	3,987	18,660	23,967	6,152	4,125	9,699	7,341
Virginia.	216	196	14,547	15,015	57,880	107,316	16,108	14,554	29,363	28,706
West Virginia.	1,325	870	88,510	101,085	366,028	664,530	107,162	128,418	196,088	222,317
North Carolina.	106	123	1,890	2,436	5,039	20,348	1,489	2,193	2,737	5,631
South Carolina.	20	35	933	1,298	4,656	18,470	680	930	1,351	3,003
Georgia.	82	81	2,397	3,665	12,996	34,386	2,017	2,898	4,082	9,439
Florida.	55	65	3,372	3,061	44,969	106,384	3,108	3,046	8,976	13,525
E. South Central and W. South Central.	1,970	1,491	109,793	120,698	481,636	838,583	122,187	127,551	225,570	263,629
Kentucky.	864	617	41,414	57,569	135,098	310,664	46,905	62,442	75,157	102,602
Tennessee.	263	167	14,470	11,441	56,675	73,772	12,987	10,333	23,292	22,050
Alabama.	348	242	32,579	31,674	145,775	265,666	36,230	30,693	59,866	53,363
Arkansas.	126	121	3,614	4,744	20,748	30,620	4,547	4,565	7,783	9,796
Louisiana and Mississippi.	4	2	387	94	6,886	5900	469	100	8,001	220
Oklahoma.	284	245	12,734	10,047	94,939	98,481	16,060	13,318	34,430	31,560
Texas.	81	104	4,565	5,190	21,514	60,394	-4,989	6,151	17,041	44,334
Mountain.	1,598	1,084	79,234	78,896	700,398	980,410	127,506	132,711	299,454	397,995
Montana.	269	169	16,091	14,575	143,473	201,749	25,666	25,718	49,666	64,774
Idaho.	83	65	2,455	4,226	31,059	67,295	4,202	7,420	11,840	20,746
Wyoming.	87	73	7,532	5,282	49,864	50,855	11,090	9,664	19,969	18,817
Colorado.	523	333	16,710	14,493	114,448	116,592	25,263	22,267	51,063	41,205
New Mexico.	103	89	7,100	6,986	59,8761	90,961	10,494	10,118	18,873	27,142
Arizona.	172	134	15,268	16,533	165,076	201,456	26,193	28,238	88,478	116,135
Utah.	154	131	9,847	12,149	85,816	179,475	17,197	21,225	41,511	82,843
Nevada.	207	104	4,231	4,685	50,786	72,915	7,401	8,104	18,054	26,495
Pacific.	502	473	12,790	11,138	137,386	156,329	17,840	17,122	39,966	45,278
Washington.	93	90	5,050	3,652	37,998	39,321	7,466	5,796	13,320	12,271
Oregon.	52	44	740	635	6,264	7,249	9931	958	1,885	2,410
California.	357	340	7,000	6,850	93,124	110,019	9,381	10,382	24,752	30,639

Source: Department of Commerce, Bureau of the Census, Fifteenth Census Reports, Mines and Quarries.

No. 757.- MINES AND QUARRIES, PRODUCING- SUMMARY, BY INDUSTRIES: 1919 AND 1929

NOTE. — Figures for 1919 and 1929 for the limestone, sandstone, abrasive materials, and silica industries are not strictly comparable, owing to the inclusion or exclusion of data for 1929 not similarly treated for 1919. For the limestone industry, data quarrying operations of lime and cement manufacturers are included in the figures for 1929 but not those for 1919. For the sandstone industry, data for enterprises whose product was ground into glass, molding sand, or used as refractory materials (siliceous mica schist and ganister), etc., are included the figures for 1919 but excluded from those for 1929 and included in the figures for glass-sand, molding-sand, abrasive-materials, or silica industries, according to the nature and purpose of the final product. Data for diatomaceous earth are included in the figures for abrasive materials in 1919 and in those for silica in 1929.

[Wages and value of products in thousands of dollars]

INDUSTRY	NUMBER OF MINES AND QUARRIES		WAGE EARNERS (AVERAGE FOR THE YEAR)		HORSEPOWER		WAGES		VALUE OF PRODUCTS	
	1919	1929	1919	1929	1919	1929	1919	1929	1919	1929
All industries	L 3,731,10	2,786,6	3,667,65	3,674,900	102,6	970,091	11,161,415	1,066,606	2,226,67	2,280,384
Coal:										
Anthracite.	421	303	147,372	242,801	899,783	2,041,465	210,289	229,967	364,084	384,854
Bituminous.	8,282	5,02	6,457,084	405,722	25,062,124	1,187	682,601	574,800	1,145,978	966,694
Metals:										
Copper.	226	180	43,717	44,502	522,426	701,791	66,390	73,200	181,258	283,517
Iron ore.	406	208	45,741	28,516	370,859	498,821	75,713	40,905	218,218	197,335
Lead and zinc.	473	375	21,884	25,907	229,401	357,737	30,708	39,192	75,579	112,428
Gold and silver, lode mines.	799	258	15,436	7,946	149,100	98,772	23,818	12,982	58,832	26,107
Cold-chamber mines—Mercury.	26	401	748	1,029	2,607	5,625	828	1,384	1,803	2,820
Manganese.	37	211	909	354	5,800	2,342	1,086	392	2,188	1,185
Stone:										
Limestone	925	1,256	22,069	32,300	213,717	535,466	23,926	39,188	52,944	117,258
Granite.	381	4345	8,049	10,037	55,614	108,217	8,588	12,640	18,279	30,381
Basalt.	174	1441	3,336	3,053	37,307	63,881	3,991	4,498	9,658	15,544
Slate.	104	130	3,513	4,098	20,613	33,817	3,128	4,884	5,721	10,486
Marble.	62	88	1,732	3,350	15,628	30,198	1,452	3,232	4,398	7,539
Sandstone.	276	172	4,287	2,156	33,869	28,935	4,449	2,626	10,685	6,312
Miscellaneous.	(2)	234	(2)	1,841	(2)	28,527	(2)	2,406	(2)	8,475
Miscellaneous:										
Abrasive materials	34	36	317	462	1,748	3,228	322	491	722	1,411
Asbestos.	11	111	146	195	420	2,114	92	237	250	397
Asphalt and bituminous rock.	12	25	324	1,123	648	13,109	295	1,255	750	5,124
Barite.	98	44	919	844	3,029	6,066	769	648	1,592	1,801
Clay.	350	236	5,453	4,139	21,203	31,877	5,367	3,758	10,086	10,753
Feldspar.	32	58	340	598	1,782	6,543	264	512	584	1,935
Fluorspar.	72	36	1,124	1,053	7,138	6,513	1,196	1,112	3,335	2,858
Fullers and filtering earthen.	9	24	824	991	2,538	8,221	541	853	2,019	4,812
Gypsum.	48	631	2,191	2,0781	15,032	26,498	-2,478	2,628	6,806	5,740
Magnesite.	11	5	448	351	2,540	3,197	652	466	2,170	2,044
Mica.	69	32	448	226	803	1,721	288	195	607	516
Milstones and pulpstones.	11	141	37	164	220	2,517	48	221	65	621
Minor metals	37	305	1,371	1,244	6,051	13,469	1,690	1,507	3,916	6,650
Phosphate rock.	69	33	4,373	3,201	49,639	104,146	3,001	3,304	10,300	13,044
Silicas.	295	73	1,661	1,433	2,032	11,771	166	1,677	372	4,645
Sulphur and pyrites.	22	10	2,301	2,199	22,629	33,932	3,067	3,483	20,345	37,126
Talc and soapstone.	301	28	958	550	7,053	10,530	835	615	2,302	2,688
Miscellaneous minerals	47	19	604	305	8,040	3,978	516	301	1,350	3,503
Sand, glass.	32-			1,030		13,215.		1,314		5,359
Sand, molding.	128.			1,0371		14,792.		1,291		4,776
Sand and gravel.	1,165			15,994		516,745		22,780		102,312

1 For 1919 includes, besides those specified, statistics for enterprises in the chromite industry; the value of products of this industry was less than one-tenth of 1 per cent of the total for all industries. For 1929 does not include data for the glass-sand, molding-sand, and sand and gravel industries, no data having been collected for these industries in 1919.

Distributed among other stones.

2 Emery; garnet and industrial sapphires and diamonds; grinding pebbles and tube-mill lining; grindstones, oilstones, whetstones, scythestones, and rubbing stones; pumice and volcanic ash (pumicite).

Bauxite, molybdenum, titanium, tungsten, vanadium.

3 Diatomaceous earth, ganister, quartz, quartzite, silica rock, silica sand, siliceous mica schist, tripoli, Borates, cyanite, graphite, lithium minerals (amblygonite, lepidolite, and spodumene), mineral pigments, tantalum, vermiculite.

Source: Department of Commerce, Bureau of the Census; Fifteenth Census Reports, Mines and Quarries.

No. 758.- MINERAL INDUSTRIES- SUMMARY FOR SPECIFIED INDUSTRIES: 1935

NOTE.-The following data, based on information furnished by mine, quarry, and other operators, were collected as part of the general Census of Business for the year 1935. Figures cover continental United States, except those for gold, silver, lead, copper, and zinc, which include Alaska

[All money figures in thousands of dollars]

	Num- ber of mines and quarries	Value of prod- ucts 1	EXPENDITURES				SALARIES EMPLOYEES 2		WAGE EARNERS	
			Total	Sup- plies and mat- terials 3	Fuel	Pur- chase elec- tric power	Num- ber	Sal- aries	Num- ber 4	Wages
Metals:										
Bauxite 5	11	1,545	358	213	105	39	77	131	559	330
Gold, silver, lead, copper, and zinc.	12,906	122,408	57,891	43,994	4,615	9,282	5,019	10,453	60,410	64,608
Iron ore 5	199	176,734	10,872	6,647	1,599	2,626	1,367	3,020	14,873	14,624
Mercury	43	990	330	227	82	21	100	87	451	385
Nonmetals:										
Abrasive stones.	16	465	138	113	11	15	13	17	209	168
Asbestos.	7	261	91	70	2	19	14	36	85	78
Asphalt, native, and bitumens.	19	2,149	508	441	46	211	911	238	386	328
Barite.	(6)	1,251	408	316	38	54	42	90	482	326
Basalt 5	270	110,855	3,659	2,676	450	533	570	1,027	3,147	2,841
Clay.	219	17,056	2,018	1,362	273	383	392	737	3,687	2,097
Coal:										
Anthracite, Penn- sylvania.	350	1210,351	38,535	27,140	4,197	7,197	5,302	11,117	792,438	120,102
Bituminous.	6,311	658,475	103,581	73,705	4,796	25,080	16,916	32,531	17,435,426	402,677
Feldspar, crude.	511	18,772	157	124	23	91	511	841	545	413
Feldspar, ground-	277	182,670	499	353	26	120	112	2511	411	320
Fluorspar 5.	1078	11,560	423	315	91	17	82	1641	927	568
Fuller's earth.	19	2,237	478	159	240	80	91	243	783	498
Granite.	404	113,491	3,024	2,085	277	662	567	1,206	5,940	4,972
Gypsum.	581	18,829	4,299	3,199	608	402	368	709	2,928	2,795
Limestone 5-	1,924	155,544	20,474	13,431	3,610	3,433	3,482	6,273	29,681	21,585
Marble 5-	33	2,169	820	569	50	202	239	388	2,088	1,413
Mica.	(6)	279	961	72	61	18	27	32	250	134
Natural gas.	1153,790	29,374	9,950	7,495	2,288	167	2,780	3,901	7,288	7,280
Natural gasoline.	11715	70,940	12,571	9,470	2,620	481	131,052	132,105	7,997	10,567
Petroleum	340,990	961,440	103,040	82,051	14,684	6,305	7,938	14,736	93,450	126,703
Phosphate rock.	(6)	111,423	2,981	1,520	740	721	274	650	2,638	1,807
Potash.	4	4,240	1,587	793	7451	49	231	604	1,2711	1,796
Pumice.	22	3465	30	18	10	1	12	141	77	65
Salt.	63	123,906	6,614	3,787	2,224	603	694	1,746	4,824	5,070
Sand and gravel.	1,798	153,701	11,949	3,207	1,838	1,903	2,086	3,821	8,566	8,340
Sandstone 5-	289	14,365	1,5241	1,192	121	2111	2241	376	2,278	1,595
Silica.	(6)	1,865	3661	179	35	152	46	115	205	217
Slate 5	117	13,526	929	603	91	235	190	301	1,898	1,517
Talc and ground soapstone.	20	1,804	342	233	16	93	67	157	534	387
Tripoli.	9	374	132	104	20	8	16	32	116	93
Other industries 14	4131	19,583	4,942	3,659	629	654	541	1,3461	3,819	4,094

The figures noted include the value of work or services.

2 Includes salaried officers, technical and supervisory employees, and all others on salaries, except employees at central administrative offices not connected with mine or plant.

3 Includes cost of lumber or timber, iron and steel materials, explosives and oil used directly or sold to employees, water for boilers, machinery supplies, and all other supplies and materials necessary to maintain and operate the mine or plant.

4 Persons employed by the mine or plant who are included in the report on pay rolls, the value of the product of the mine or quarry, in such cases, the value of their product is included and not the value of the product of the mine or quarry.

5 Not available.

Average including shut-down periods.

The value of most of the crude feldspar is duplicated the value of the ground product.

Number of grinding mills; some of these are operated in connection with the feldspar mines.

In addition, fluorspar was produced an undetermined number of prospects and reclaimed from mill ponds, waste dumps, and old workings at abandoned mines. Data for these operations are included in the other figures given.

Data for natural gas and petroleum cover number of wells; for natural gasoline, number of plants.

Value at points of consumption; the value at wells amounted to \$110,402,000.

Not including 625 salaried employees at central offices with salaries amounting to \$1,752,000.

6 Boron, bromine and iodine, diatomite, emery, garnet, greensand marl, magnesite, magnesium salts, manganese, molybdenum, natural sodium compounds, miscellaneous stone, and vermiculite.

Source: Dept. of Commerce, Bur. of Census, in cooperation with Dept. of the Interior, Bur. of Mines; mimeographed reports of Census of Business, 1935.

No. 759. MINES AND QUARRIES, PRODUCING ESTABLISSEMENTS CLASSIFIED BY
NUMBER OF WAGE EARNERS, BY PRINCIPAL INDUSTRIES: 1929

INDUSTRY AND WAGE EARNERS PER EN- TERPRISE	WAGE EARN- ERS				INDUSTRY AND WAGE EARNERS PER EN- TERPRISE	WAGE EARN- ERS			
	Num- ber of enter- prises	ber of mines and quar- ries	Aver- age for year	Per- cent		Num- ber of enter- prises	ber of mines and quar- ries	Aver- age for year	Per- cent
All industries 1. Not reported.	10,099 31	11,566 34	806,418	100.0	Copper-Continued. 6 to 20.	40	41	496	1.1
1 to 5-	2,742	2,799	8,194	1.0	21 to 50-	14	17	398	.9
6 to 20-	3,004	3,217	34,079	4.2	51 to 100.	12	13	877	2.0
21 to 50.	1,611	1,795	53,183	6.6	101 to 250-	11	13	1,859	4.2
51 to 100.	1,055	1,201	76,362	9.5	251 500.	10	15	3,393	7.6
101 to 250-	938	1,267	158,623	19.7	501 to 1,000.	7	9	5,096	11.5
251 to 500.	416	607	145,883	18.1	1,001 to 2,500.	11	13		
501 to 1,000.	169	274	110,931	13.8	2,501 and over.	3	24	32,279	72.5
1,001 to 2,500-	60	188	87,279	10.8					
2,501 and over.	23	184	131,884	16.3	Limestone.	1,165	1,254	32,300	100.0
Anthracite.	198	303	142,801	100.0	1 to 5.	283	286	897	2.8
to 5-	31	31	85	.1	6 to 20.	438	465	5,400	16.7
to 20.	20	21	221	.2	21 to 50.	288	312	9,313	28.8
21 to 50.	21	21	710	.5	51 to 100-	107	119	7,436	23.0
51 to 100.	17	18	1,113	.8	101 to 250.	41	58	6,398	19.8
101 to 250.	32	34	5,052	3.5	251 to 500-	6			
251 to 500.	19	19	6,983	4.9	501 to 1,000.	2	8	5,285	8.9
501 to 1,000	34	36	23,291	16.3	Iron ore.	180	208	28,516	100.0
1,001 to 2,500.	11	24	17,255	12.1	1 to 5.	7	7	20	.5
2,501 and over.	13	99	88,091	61.6	6 to 20.	13	13	153	.5
Bituminous coal	4,976	5,620	458,732	100.0	21 to 50-	29	32	949	3.3
to 5-	1,384	1,384	3,979	.9	51 to 100.	45	46	3,452	12.1
to 20.	1,109	1,123	12,316	2.7	101 to 250.	59	76	9,663	33.9
21 to 50.	676	720	23,169	5.1	251 to 500.	16	20	5,262	18.5
51 to 100.	619	692	45,624	9.9	501 to 1,000	10			
101 to 250.	708	830	114,505	25.0	1,001 to 2,500.	1	13	9,017	31.6
251 to 500.	334	472	116,890	25.4	Sand and gravel.	957	1,165	15,994	100.0
501 to 1,000.	105	196	67,093	14.6	1 to 5.	263	292	976	6.1
1,001 to 2,500.	34	142	47,404	10.3	6 to 20.	485	561	5,216	82.6
2,501 and over.	7	61	27,752	6.1	21 to 50-	160	214	4,964	31.0
Copper.	143	180	44,502	100.0	51 to 100.	31	49	2,175	13.6
Not reported	2		104	.2	101 to 250.	17			
1 to 5-	33	33			251 to 500.	1	4	2,663	16.7

1 Exclusive of 36 enterprises operating 36 mines which employed no wage earners.

No. 760.- MINES AND QUARRIES, PRODUCING- HOURS OF LABOR, BY INDUS-
TRIES: 1929

NOTE. This table does not include data for enterprises having products valued at less than \$20,000.
To avoid disclosing data for individual establishments, the figures for certain groups are combined and
printed in italica. An (x) shows where an omission results

INDUSTRY	Wage earners (average for the year)- total	WAGE EARNERS IN MINES WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE-						
		Under 36	36 and over but under 40	40	Over 40 but un- der 48	48	Over 48 but un- der 63	63 and over
All industries.	792,395	51,023	5,764	29,293	26,506	528,394	144,091	7,324
Coal, anthracite.	142,801	912		30	3,186	138,226	447	(x)
Coal, bituminous.	447,125	49,602	5,587	26,842	14,589	320,718	29,427	360
Copper.	44,234	(x)			(x)	24,416	18,818	
Limestone.	31,578	118	(X)	450	307	4,652	25,052	999
Iron ore-	28,516			AR4	974	15,103	12,015	(x)
Sand and gravel.	15,994	70	(X)	273	339	1,273	11,850	2,189
Lead.	13,831	(x)				6,634	6,734	463
Zinc.	11,861		(1)		(x)	5,897	5,862	102
Granite.	9,806	44	97	595	4,239	2,326	2,505	
Gold, lode.	5,079					1,971	3,108	(1)
Gold, placer	534	63				39	495	
Clay.	4,139	78	(1)	98	281	744	2,021	917
Slate.	4,027	191		(x)	925	52	2,959	
Marble.	3,308	(F)	(1)		217	94	2,997	
Basalt.	3,016			127	(X)	406	2,392	CE-91
Silver.	2,451					90	2,361	
Sandstone.	2,058	63		137	344	399	1,178	63
Stone, miscellaneous.	1,569		(1)		74	381	892	222
Other industries.	20,468	123	1	169	933	5,001	13,660	581

1 Number of hours not reported.

Source of tables 759 and 760: Dept. of Commerce, Bur. of Census; 15th Census Reports, Mines and Quarries.

No. 761. MINERAL PRODUCTION, BY STATES AND FOR ALASKA: 1932 TO 1938

NOTE. The sum of the State totals in the table below does not agree with the total for the United States given in tables 760 and 762 chiefly because of the following reasons: (1) Figures for certain of the products included in the United States total are not available by States of origin; (2) the use of iron ore values in State totals and pig iron values in United States total; (3) the use of mine figures for gold, silver, copper, lead, and zinc in the State totals and mint and smelter figures in the United States total; and (4) the inclusion of estimates in the United States total for a few products for which no canvass has been conducted for many years and for which no estimate by States is made

[Values in thousands of dollars]

DIVISION AND STATE	1932	1933	1934	1935	1936	1937	1938 (prel.)
Continental U.S.	2,286,505	2,322,161	3,034,572	3,262,771	3,965,810	4,672,594	3,906,840
New England	21,383	16,698	17,281	17,228	22,637	24,757	21,772
Maine	3,174	2,594	2,352	2,560	3,423	4,129	3,549
New Hampshire	1,352	1,457	1,149	694	1,182	1,220	1,147
Vermont	6,401	5,793	4,853	5,097	6,225	7,043	6,446
Massachusetts	8,039	4,917	6,165	5,650	7,559	7,813	6,666
Rhode Island	506	387	485	571	929	863	912
Connecticut	1,911	1,551	2,276	2,656	3,317	3,690	3,060
Middle Atlantic	497,983	487,367	626,568	667,499	685,526	708,951	570,399
New York	50,176	42,940	54,626	58,409	71,648	77,666	73,217
New Jersey	23,073	22,580	25,010	28,515	24,421	31,468	24,409
Pennsylvania	424,734	421,847	546,933	520,576	599,457	599,817	472,773
East North Central	236,420	261,371	317,719	354,097	406,806	453,757	374,877
Ohio	87,997	91,146	117,505	126,134	122,684	131,025	104,813
Indiana	34,603	34,011	39,417	42,513	52,282	54,887	47,892
Illinois	71,693	74,837	89,214	96,484	117,916	133,438	130,155
Michigan	34,714	54,223	61,831	77,149	100,646	119,168	81,381
Wisconsin	7,414	7,154	9,752	11,818	13,278	15,240	10,637
West North Central	133,564	165,857	206,240	239,712	315,936	417,055	275,721
Minnesota	12,273	42,472	48,328	57,313	94,569	152,107	51,425
Iowa	18,523	15,155	19,326	21,710	28,599	26,941	24,794
Missouri	29,245	30,588	32,955	35,800	41,351	52,446	39,561
North Dakota	2,386	2,961	2,550	2,544	2,902	2,873	2,653
South Dakota	11,118	14,659	19,173	22,210	23,222	23,473	23,583
Nebraska	1,548	2,047	2,791	3,229	3,844	4,838	4,029
Kansas	58,471	57,975	81,118	96,906	121,590	154,376	129,675
South Atlantic	200,938	219,898	306,790	316,939	359,064	405,744	351,451
Delaware	300	135	272	230	444	397	321
Maryland	7,234	7,015	10,128	10,036	11,158	10,635	9,408
District of Columbia	1,819	423	407	479	548	523	569
Virginia	16,927	18,846	28,309	30,923	37,295	46,019	42,370
West Virginia	156,643	172,727	241,474	245,402	271,502	306,591	254,995
North Carolina	2,466	3,365	5,342	6,775	9,956	11,160	14,959
South Carolina	951	1,014	1,323	1,843	3,433	4,022	4,364
Georgia	7,490	7,529	7,986	9,804	11,757	12,584	11,598
Florida	7,108	8,844	11,548	11,447	12,973	13,812	12,867
East South Central	95,527	108,379	144,915	159,094	193,156	220,658	190,589
Kentucky	59,076	65,535	89,042	98,486	113,435	127,424	106,656
Tennessee	14,562	16,785	23,526	25,743	31,122	34,894	32,429
Alabama	19,170	23,291	29,827	31,772	44,753	53,519	46,296
Mississippi	2,719	2,766	2,521	3,093	3,846	4,822	5,210
WestSouth Central	651,900	605,728	848,022	904,923	1,118,490	1,388,432	1,214,709
Arkansas	15,540	12,710	16,082	17,609	21,297	25,578	29,395
Louisiana	61,097	54,886	85,211	107,545	153,358	182,119	172,307
Oklahoma	185,121	172,561	237,209	251,701	305,132	367,444	272,860
Texas	390,141	365,571	509,521	528,069	638,643	813,291	740,147
Mountain	146,301	150,936	218,624	283,815	386,626	543,091	388,668
Montana	19,023	21,662	31,430	52,097	65,569	82,087	48,603
Idaho	9,478	12,429	16,708	21,364	29,966	40,633	31,739
Wyoming	27,343	22,025	27,640	30,670	34,498	41,088	37,364
Colorado	25,800	27,259	39,473	44,413	56,215	67,339	60,369
New Mexico	20,264	23,355	30,079	33,502	45,942	72,856	63,569
Arizona	15,204	12,571	26,063	38,848	60,533	94,564	60,756
Utah	22,620	24,180	32,527	41,933	61,209	105,652	59,236
Nevada	6,568	7,455	14,703	20,988	32,593	38,872	27,031
Pacific	302,489	305,927	348,412	379,463	467,568	510,149	518,652
Washington	12,817	9,388	12,945	13,688	22,921	26,658	21,167
Oregon	2,989	3,505	4,211	5,596	7,081	6,610	7,536
California	286,683	293,035	331,256	360,179	437,566	476,881	489,949
Alaska	11,526	12,681	19,579	18,812	23,738	27,928	27,664

Source: Department of the Interior, Bureau of Mines; Minerals Yearbook.

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No. 763. IRON ORE—PRODUCTION, SHIPMENTS, EXPORTS, AND IMPORTS, 1881 TO 1939, AND PRODUCTION, BY REGION, STATE, AND KIND, 1936 TO 1939

NOTE.—In thousands of long tons (2,240 pounds). Nearly all exports are to Canada. Blank spaces indicate lack of data. Since 1905, ore containing 5 percent or more of manganese has been excluded.

YEARLY AVERAGE OR YEAR	Production	Shipments	Exports	Imports	PRODUCTION	1936	1937	1938	1939
1881-1890.	10,385			766	REGION				
1891-1900.	17,551			587	Lake Superior 2	41,781	61,657	21,308	41,680
1901-1910.	41,339		271	1,180	Birmingham	4,008	5,953	4,156	5,735
1911-1915.	51,595	50,592	953	1,841	All other.	3,000	4,483	2,983	4,307
1916-1920.	69,737	70,224	1,143	967	STATE				
1921-1925.	52,429	52,617	677	1,691					
1926-1930.	64,600	64,952	1,021	2,709	Alabama.	4,180	6,308	4,303	5,961
1931-1935.	22,732	23,538	389	1,166	Michigan.	9,178	12,085	6,004	9,159
1925.	61,908	63,925	631	2,191	Minnesota.	31,634	48,417	14,449	31,548
1926.	67,623	69,293	869	2,555	New Jersey.	160	520	186	399
1927.	61,741	61,232	899	2,621	New York.	778	625	2,121	2,714
1928.	62,197	53,433	1,282	2,453		1,132	2,625	1,168	262
1929.	73,028	75,603	1,304	3,139	Pennsylvania.	154	191	168	262
1930.	58,409	55,201	752	2,775	Utah.	970	1,156	855	973
1931.	31,132	28,516	436	1,466	Wisconsin	507	708	276	588
1932.	9,847	5,331	83	582	Wyoming.	96	84	85	118
1933.	17,553	24,624	155	861	All other.				
1934.	24,588	25,793	609	1,428	KIND				
1935.	30,540	33,426	661	1,492					
1936.	48,789	51,466	645	2,232	Hematite.	344,610	368,073	352,607	354,757
1937.	72,094	72,348	1,264	2,442	Brown ore.	1475	6666	363	536
1938.	28,447	26,431	592	2,122	Magnetite.	32,206	363,354	352,476	353,378
1939.	51,721	54,821	1,057	2,413	Carbonate.	1	1	0	0

: Excludes iron and iron ore in Wisconsin which are in true Lake Superior district.

hematite included with magnetite. Some brown ore included with hematite.

: Some magnetic included with hematite. : Some brown ore included with magnetite. 7Less than 500.

No. 764. PIG IRON AND FERRO-ALLOYS— PRODUCTION, BY STATES, DISPOSITION, KIND, AND FUEL AND MATERIALS USED: 1900 TO 1939

[In thousands of long tons (2,240 pounds) unless otherwise specified]

	1900	1910	1915	1920	1925	1930	1935	1937	1938	1939
Total pig iron and ferro-alloys	13,789	27,304	29,916	36,926	36,701	31,752	21,373	37,127	19,161	31,855
By States:										
New England.	14	17	8	10						
New York, New Jersey.	463	2,203	2,105	2,601	2,188	2,211	1,611	3,103	1,494	2,335
Pennsylvania.	6,366	11,272	12,791	13,983	12,523	10,305	5,700	11,809	5,001	9,035
Illinois.	1,363	2,676	2,447	3,281	3,604	3,345	2,003	3,426	1,657	2,651
(ndiana, Michigan.	164	1,250	1,987	2,940	4,120	3,934	2,898	4,722	2,347	4,274
Maryland and Virginia	781	711	503	953	830	1,088				
Alabama.	1,184	1,939	2,049	2,393	2,836	2,395				
Ohio.	2,471	5,752	6,913	8,533	8,863	6,805				
Wisconsin, Minnesota.	185	307	373	711	4681		9,160	14,068	8,662	13,561
Iowa, Colorado, Utah.					5055	805				
All other.	798	1,117	741	1,520	762	865J				
By disposition:										
For sale.				8,583;	10,724	8,991	7,083	4,022	7,185	3,390
For maker's use.	8	8		21,333	26,202	27,710	24,670	17,351	29,943	15,770
By kinds:										
Basic.	1,072	9,085	13,093	16,738	19,667	18,393	13,618	24,781	12,885	22,712
Bessemer and low-phos-	7,979	11,246	10,523	12,062	9,419	7,315	4,239	6,315	3,054	5,331
phorus.	3,376	5,260	4,844	5,958	5,410	3,960	1,908	3,239	1,853	2,030
Foundry (incl. ferro-silicon).	173	843	830	1,311	1,554	1,572	1,206	2,115	1,002	1,238
Malleable.	793	564	316	3181	241	51	5	22	1	3
Forge.										
Ferromanganese, spiegel-	395	306	310;	539;	409	461	396	655	363	540
eisen, and all other.										
By fuels:										
Coke 2-	11,728	26,258	29,535	36,300	36,504	31,656	21,298	37,046	19,122	31,811
Anthracite.	1,677	649	85	303						
Charcoal	384	397	296	323	1965	97	755	82	39	44
Materials used:										
Iron ore, briquettes, etc.	24,131	51,739;	55,137	66,450	65,450	53,662	935,183	862,087	332,100	953,188
Cinder, scale, scrap, etc.	1,600	2,800	4,483	4,986	5,017	36,296	34,257	36,449	33,321	35,765
Coke (1,000 tons of 2,000 pounds) L.	0	(1)	33,329	42,046	39,296	131,168	320,272	336,540	318,424	30,632
Limestone	7,422	14,528	14,790	17,825	15,154	911,099	37,523	13,043	36,435	11,033
Total number furnaces Dec. 31-	406	473	445	452	395	3005	258	241	236	232
Furnaces in blast Dec. 31.	232	206	310	216	2381	975	124	951	116	195

Not available.

: Materials consumed in manufacture of pig iron only.

*Coke and bituminous coal 1900 to 1925.

Sources: Table 763, Department of the Interior, Bureau of Mines; Minerals Yearbook. Table 764, American Iron and Steel Institute, annual report.

**No. 765. - PIG IRON AND FERRO-ALLOYS AND STEEL INGOTS AND CASTINGS-
PRODUCTION, EXPORTS, AND IMPORTS: 1871 TO 1939**

NOTE. -In longtons (2,240 pounds). Prior to 1901 exports and imports are for years ended June 30 following year specified; calendar years thereafter. Imports are imports for consumption beginning with 1933. All production figures are for calendar years. For individual years 1871 to 1913 and data for earlier years, see Statistical Abstract 1931, tables 750 and 751

YEARLY AVERAGE OR YEAR	PIG IRON AND FERRO-ALLOYS			Steel ingots and castings, produc- tion	YEAR	PIG IRON AND FERRO-ALLOYS			Steel ingots and castings, produc- tion
	Produc- tion	Exports of do- mestic	Imports			Produc- tion	Exports of do- mestic	Imports	
1871-1875-	2,248,293	7,412	137,591	389,799	1923.	40,361,146	37,559	474,723	44,943,606
1876-1880.	2,562,763	3,407	276,600	803,479	1924.	51,406,790	45,818	276,966	37,931,939
1881-1885-	4,301,096	5,311	325,290	1,652,268	1925-	36,700,566	39,907	516,948	45,393,524
1886-1890.	7,079,312	12,407	229,970	3,292,763	1926-	39,372,729	28,606	614,288	18,293,763
1891-1895-	8,133,014	22,983	54,778	4,675,736	1927.	36,565,645	55,899	175,529	44,935,185
1896-1900-	11,491,937	224,268	34,308	8,439,938	1928.	38,155,714	96,743	194,636	51,544,180
1901-1905-	18,239,665	45,465	314,765	15,367,931	1929.	12,613,983	53,749	223,680	56,433,473
1906-1910-	24,024,722	78,618	275,036	22,166,783	1930-	61,752,169	25,344	182,446	10,699,483
1911-1915-	27,518,219	202,011	132,751	28,378,470	1931.	18,426,354	15,429	103,540	25,945,501
1915.	29,916,213	224,509	89,836	32,161,036	1932.	8,781,453	6,938	145,664	13,681,162
1916-	39,434,797	507,236	135,349	42,773,680	1933.	13,345,602	11,272	196,284	23,232,347
1917.	38,621,216	556,220	76,786	45,060,607	1934.	16,138,573	13,474	157,387	226,055,289
1918.	39,054,644	269,575	34,711	14,462,432	1935.	21,372,699	17,714	198,197	34,092,594
1919.	31,015,364	321,261	101,665	34,671,232	1936.	31,029,187	23,606	254,006	247,767,856
1920.	36,925,987	216,828	185,944	42,132,934	1937.	37,127,277	818,000	161,272	250,568,701
1921	16,688,126	28,405	44,842	19,783,797	1938.	19,160,861	460,361	71,436	228,349,991
1922-	27,219,904	33,332	198,059	35,502,925	1939 ³	31,854,551	213,566	115,622	247,141,709

1 1875 only. - Includes only steel castings produced in foundries producing steel ingots. 2 Preliminary.

**No. 766. -- ROLLED AND MISCELLANEOUS STEEL PRODUCTS- PRODUCTION, BY
KIND: 1910 TO 1939**

NOTE. In thousands of long tons (2,240 pounds). Blank spaces indicate figures available. The miscellaneous products, except cast-iron pipe, are mostly further elaborations of products above

	1910	1915	1920	1925	1930	1935	1938	1939
Hot-rolled products, total.	21,621	24,393	32,348	33,387	29,513	23,965	20,986	34,825
Rails.	3,636	2,204	2,604	2,785	1,873	712	623	1,172
Bessemer and electric.	1,884	327	143	10	2	1	(1)	(1)
Open hearth.	1,751	1,775	2,334	2,692	1,835	692	608	1,150
Rerolled.		102	127	84	36	19	15	22
Sheets and plates.	4,955	6,078	9,338	9,808	9,067	8,691	7,166	12,389
Universal		955	1,250	1,196	1,041	439	342	616
Sheared.		1,923	3,505	2,557	2,622	1,016	1,373	2,153
Black sheets.		1,837	2,886	4,007	3,512	5,176	4,745	8,909
Black plates for tinning-		1,093	1,449	1,632	1,692	1,795	627	599
Other black-plate specialties.		270	247	325	201	266	79	111
Wire rods.	2,242	3,096	3,137	2,845	2,349	2,441	2,109	3,286
Structural shapes.	32,267	2,437	3,307	3,604	3,512	1,750	1,860	2,999
Merchant bars.	3,786	4,131	6,130	5,659	4,132	43,699	4	44,350
Skelp.	1,828	2,299	3,220	3,230	2,682	1,352	1,253	2,080
Hoops.	262	282	333	205	80	90	67	65
Bands and cotton ties.	425	438	389	356	46	25	34	31
Splice and se-plate bars.		536	576	823	606	268	199	463
Rolling forging blooms, billets, etc.	460	651	447	345	304	340	266	536
Bars for reinforced concrete work.	241	353	572	820	850	557	784	1,131
Strip and sheets for cold reduced black plate and tin plate.							1,621	2,377
Strips and flats for cold rolling-					1,942	2,648	1,030	1,631
Blanks or pierced billets.	1,519	1,888	2,294	2,908	1,248	953	1,320	1,802
All other rolled products.					821	4439	4327	4511
Miscellaneous products:								
Tin plate.	648	983	1,375	1,544	1,660	1,695	1,430	2,237
Terne plate and longterne sheets.	75	73	71	114	103	191	187	273
Galvanized sheets.		706	835	1,134	1,045	1,028	1,051	1,442
Galvanized tinned products.		50	64	80	65	60	53	67
Wire nails.	567	651	734	690	427	396	430	602
Cut nails and cut spikes.	45	35.	38	33	21	18	18	22
Wrought pipe tubes.		1,920	3,003	3,031	2,247	964	923	1,394
Boilertubes or		97	119	63	31	16	10	15
Seamless pipes or tubes.		140	292	568	1,194	877	1,140	1,549
Cast-iron pipe and fittings.		1,085	792	1,719	1,282	615	736	999
Forgings made by rolling mills.	320	524	540	388	476	6315	6253	6399

Less than 500 tons. 2 Rolled on sheet or jobbing mills. 3 Small structural forms not included.

5 Merchant bars include certain miscellaneous bars included in "All other rolled products" prior to 1935. 5 Excluding electric welding. 6 Including forged axes.

Sources: Table 765, production, American Iron and Steel Institute, annual report. Exports and imports, Dept. of Commerce, Bur. of Foreign and Domestic Commerce, annual report, Foreign Commerce and Navigation of the U.S. Table 766, American Iron and Steel Institute, annual report.

No. 767. -IRON AND STEEL, FINISHED ROLLED- PRODUCTION, EXPORTS, AND IMPORTS: 1876 TO 1939

NOTE. In long tons (2,240 pounds). Imports are imports for consumption beginning with 1933; general imports in earlier years. Blank spaces indicate that figures are not available

YEARLY AVERAGE OR YEAR (CALENDAR YEAR)	Total production, finished	RAILS			PLATES AND SHEETS			Mer- chant bar product
	rolled prod- ucts	Production	Exports	Imports	Production	Exports	Imports	
1876-1880.		911,095	4,441	59,851				
1881-1885.		1,273,688	3,986	116,972				
1886-1890.	5,278,214	1,710,278	7,275	49,775	2,684,914	1,510	8,013	
1891-1895.	5,472,849	1,264,677	13,650	1,047	755,818	30,995	23,894	
1896-1900.	8,162,560	1,881,905	232,518	2,399	1,463,879	30,995	4,771	
1901-1905.	13,670,907	2,895,138	225,746	43,207	2,694,625	39,505	6,167	33,593,601
1906-1910.	18,509,490	3,238,486	303,234	3,963	4,054,102	158,591	4,096	3,479,910
1911-1915.	22,250,075	2,760,557	378,792	23,740	5,382,221	416,404	2,875	3,770,316
1916-1920.	30,810,650	2,629,506	550,821	21,392	8,245,245	907,496	1,576	6,294,708
1919.	25,101,544	2,203,843	652,443	17,008	7,372,814	1,042,697	1,095	4,810,645
1920.	32,347,863	2,604,116	594,628	45,684	9,337,680	1,273,558	1,792	6,702,685
1921.	14,774,006	2,178,818	321,822	22,048	4,260,574	607,370	1,976	1,792,982
1922.	26,452,004	2,171,776	277,090	26,629	7,968,397	439,417	41,947	4,554,474
1923.	33,277,076	2,904,616	267,409	29,706	9,497,717	386,405	44,572	5,233,663
1924.	28,086,435	2,433,332	208,496	43,358	8,087,883	360,540	46,066	4,937,043
1925.	33,386,950	2,785,257	151,690	36,872	9,807,559	386,912	44,480	6,478,902
1926.	35,495,892	3,217,649	187,557	55,212	10,529,056	517,611	415,616	6,289,665
1927.	32,879,031	4,806,486	177,593	15,455	9,627,734	468,511	419,760	5,686,260
1928.	37,662,916	2,647,493	190,925	14,019	11,006,050	522,657	30,800	7,229,723
1929.	41,069,416	2,722,138	146,060	6,236	12,436,312	540,896	428,461	7,423,496
1930.	23,513,007	1,873,233	95,179	8,307	9,067,365	346,853	428,486	4,982,124
1931	19,176,894	1,157,751	33,108	5,007	5,039,581	192,830	416,907	3,083,996
1932.	10,451,088	402,566	11,320	5,662	3,443,308	79,031	422,252	1,699,501
1933.	16,735,086	416,296	41,481	6,403	5,216,550	108,841	9,503	2,655,049
1934.	18,959,506	1,010,224	69,159	3,073	6,375,815	202,265	44,646	3,289,431
1935.	23,964,552	711,537	51,672	5,658	8,691,136	226,552	411,733	4,256,417
1936.	33,801,379	1,219,846	73,455	7,768	12,152,317	309,601	423,032	5,091,511
1937.	56,766,389	1,445,739	148,182	8,298	14,036,840	790,356	9,013	6,031,261
1938.	20,985,563	622,895	82,721	3,624	7,166,263	512,337	46,399	3,111,538
1939 (prel.).	34,824,504	1,172,006	59,092	7,784	12,389,487	651,220	41,434	5,480,670

YEARLY AVERAGE OR YEAR (CALENDAR YEAR)	Skelp pro- duction	WIRE RODS			STRUCTURAL SHAPES			All other finished rolled pro- duction
		Production	Exports	Imports	Production	Exports	Imports	
1891-1895.		633,248		34,804	342,972			2,475,209
1896-1900.		909,819	016,182	18,087	689,419	648,877		3,217,538
1901-1905.	31,435,995	1,590,280	16,345	18,390	1,203,791	55,651	712,886	1,263,396
1906-1910.	1,668,674	2,056,732	13,403	15,400	1,936,951	121,086	11,107	2,074,634
1911-1915.	2,242,270	2,519,287	75,225	11,784	2,446,391	265,891	6,352	3,029,034
1916-1920.	2,788,397	2,978,731	144,707	3,739	2,982,143	336,379	2,806	4,890,919
1919.	2,555,778	2,538,476	118,010	342	2,614,036	360,787	1,154	3,005,952
1920.	3,220,289	3,136,907	116,775	5,488	3,306,748	493,633	1,685	4,039,438
1921.	1,930,575	1,564,330	18,953	917	1,272,624	297,022	777	1,774,103
1922.	2,872,215	2,554,741	40,424	1,735	2,718,768	167,585	7,823	3,511,633
1923.	3,734,336	3,075,892	40,868	3,948	3,405,197	199,021	10,674	4,255,755
1924.	3,170,543	2,522,545	18,762	6,851	3,283,708	167,910	43,245	3,651,381
1925.	3,229,768	2,844,655	21,207	7,988	3,504,130	169,252	77,291	4,636,588
1926.	3,764,550	2,722,032	19,646	10,075	3,911,663	233,059	121,100	5,061,277
1927.	3,418,852	2,770,271	16,127	17,988	3,742,445	215,226	161,849	4,826,983
1928.	3,368,973	3,080,816	38,623	19,298	4,096,143	296,885	163,762	6,233,718
1929.	3,517,238	3,134,409	42,250	15,653	4,778,020	399,837	148,223	7,057,803
1930.	2,682,046	2,348,600	39,779	8,843	3,512,473	243,840	120,333	5,047,165
1931.	1,499,280	1,844,620	32,125	7,114	2,062,858	121,725	72,329	3,487,808
1932.	607,599	1,186,181	14,818	7,934	937,228	32,561	36,547	2,174,705
1933.	994,515	2,024,096	16,877	13,339	1,109,457	32,033	29,296	3,319,024
1934.	1,120,217	1,723,765	23,732	10,657	1,425,004	53,574	25,023	4,025,014
1935.	1,352,079	2,440,794	26,092	16,780	1,749,740	57,313	41,601	4,762,849
1936.	2,156,602	2,997,880	34,872	18,911	2,897,631	87,628	61,584	5,285,592
1937.	2,279,862	3,009,290	60,008	15,819	3,276,846	185,779	78,273	5,585,551
1938.	1,253,161	2,108,598	22,283	5,280	1,859,540	127,520	39,624	4,863,568
1939 (prei.).	2,080,471	3,285,979	31,450	10,692	2,999,094	163,153	39,533	7,416,897

1 Merchant bars include concrete reinforcing bars and, beginning 1934, certain miscellaneous bars previously included in "All other products."

Average for years 1887-90.

Average for years 1902-05.

Includes skelp.

2 Average for years 1892-95.

Average for period July 1, 1897. Dec 31, 1900.

Average for period July 1, 1903, to Dec 31, 1905.

3 Small structural forms not included in 1911.

Source: Production, American Iron and Steel Institute, annual report. Exports and imports, Dept. of Commerce, Bur. of Foreign and Domestic Commerce; annual report, Foreign Commerce and Navigation of the U. S. Also published currently in Monthly Summary of Foreign Commerce of the U. S.

No. 768.- STEEL, WIRE AND WIRE PRODUCTS, TIN PLATE AND TERNEPLATE, AND CAST-IRON PIPE AND FITTINGS- PRODUCTION: 1933, 1935, AND 1937

NOTE.-The overlapping of the industries shown in this table results in considerable duplication in tonnage shown. The products chiefly used further manufacture are wire rods, plates and sheets, black plates for tinning, and skelp. The figures under "Wire," "Tin and terneplate," and "Cast-iron pipe and fittings" include data for products of these departments of steel works and rolling mills and of all other industries producing these commodities.

INDUSTRY AND PRODUCT	Unit	QUANTITY IN THOUSANDS OF UNIT SPECIFIED			VALUE IN THOUSANDS OF DOLLARS		
		1933	1935	1937	1933	1935	1937
STEEL WORKS AND ROLLING MILLS							
All products, total Value.					1,143,889	1,931,318	3,330,491
Unrolled steel, total.	Ton	1	23,163	34,405	51,599		
Ingots.-	do.						
For sale and interplant transfer.	do.		133	237	643	3,932	9,473
Produced and consumed in works.	do.		22,751	33,654	49,790		21,132
Direct steel castings.-							
For sale and interplant transfer	do.		222	405	1,038	32,296	67,442
Produced and consumed in works.	do.		56	109	128		184,958
Semifinished rolled products, for sale and interplant transfer, total.	do.		5,470	7,420	10,314	137,957	209,831
Blooms, billets, and slabs, except for forging.	do.		3,025	4,327	7,317	79,499	125,454
Rolled blooms and billets for forging.	do.		64	201	334	2,008	7,704
Sheet and tin-plate bars.	do.		2,369	2,874	2,642	56,026	75,799
Muck and scrap bar.	do.		12	18	22	423	874
Finished hot-rolled products and forgings, total.	do.		16,161	324,318	337,320		
Produced and consumed in works.	do.		4,994	38,149	312,163		
For sale and interplant transfer.	do.		11,166	316,169	325,157	495,544	3,322,216
Rails.	do.		393	692	1,408	15,157	25,541
Rail joints, lastenings, tie plates, etc.	do.		198	270	460	9,316	12,885
Structural shapes (not fabricated)	do.		992	1,618	3,115	35,216	67,303
Concrete reinforcing bars.	do.		357	523	814	12,309	22,244
Merchant bars, mill shafting, etc.-	do.		2,275	3,322	4,389	107,840	191,101
Steel.	do.		45	51	711	3,348	3,623
Iron.	do.		34	40	375	1,361	1,798
Bolt and nut rods, spike and chain rods, etc.	do.		736	920	1,040	26,179	35,980
Wire rods.	do.		1,404	1,745	3,344	52,460	78,781
Plates No. 12 and thicker.	do.		42,688	43,886	45,601	413,797	1218,523
Sheets No. 13 and thinner.	do.		468	702	1,144	15,206	25,216
Skelp.	do.		455	934	1,359	18,041	45,405
Hot-rolled strips for cold rolling.	do.		742	859	991	29,917	46,220
Other strips, etc., and cotton ties.	do.		555	43	127	2,788	3,042
Axles.	do.			211	20	2,080	8,846
Armor plate and ordnance.	do.		68	83	172	6,486	7,909
Car and locomotive wheels.	do.		249	3,459	31,067	19,872	337,793
All other rolled and forged products.	do.						383,418
Scrap iron and steel, for sale and interplant transfer.	do.		1,031	1,537	2,942	10,255	17,315
Cinder and scale.	do.		709	1,261	2,674	1,269	2,961
All other (including value added to rolled products by further manufacture).	do.					462,636	792,079
WIRE AND WIRE PRODUCTS (ALL METALS)							
All industries, total value.					302,829	476,070	764,241
Iron and steel wire:							
Plain wire, total	Ton	6	1,962	2,349	2,913		
For sale and interplant transfer.	do.		667	842	1,638	48,586	60,263
Produced and consumed in works.	do.		1,295	1,507	1,875		
Galvanized wire: For sale and interplant transfer.	do.		168	195	229	9,936	14,335
Other coated wire: For sale and interplant transfer.	do.		34	37	46	4,184	4,646
Cold-rolled from drawn wire: For sale and interplant transfer.	do.		15	19	24	2,882	3,339
Copper wire:							
For sale and interplant transfer.	Lb.		99,135	143,581	258,102	10,305	19,506
Produced and consumed in works.	do.		169,714	272,268	473,901		
Drawn on contract or custom basis from rods or bars furnished by others.	do.		9,673	12,863	20,949		
							1

For footnotes, see next page.

No. 768. -STEEL, WIRE AND WIRE PRODUCTS, TIN PLATE AND TERNEPLATE, AND CAST-IRON PIPE AND FITTINGS PRODUCTION: 1933, 1935, AND 1937-Con.

INDUSTRY AND PRODUCT	Unit	QUANTITY IN THOUSANDS OF UNITS SPECIFIED			VALUE IN THOUSANDS OF DOLLARS		
		1933	1935	1937	1933	1935	1937
WIRE AND WIRE PRODUCTS (ALL METALS)-continued							
Brass and bronze wire:	Lb.	55,015	63,644	77,925	7,527	10,874	16,421
For sale and interplant transfer.	do.	7,492	11,171	18,218			
Produced and consumed in works.	do-	(7)	(7)	10,585	(7)	(7)	7,393
Electrical-resistance wire, for sale.							
Other metal wire:	do.	14,902	19,395	45,529	56,760	89,789	814,487
For sale and interplant transfer.	do--	47	801	1,084			
Produced and consumed in works.							
Fabricated wire products for sale:							
Iron and steel-	Keg 10	9,101	9,580	11,081	24,312	30,621	
Nails, brads, and spikes ⁹	Lb.	(11)	4,563	2,903	374	388	35,009
Tacks ⁹	do-	(11)	50,211	44,158	1,757	1,653	1,577
Staples.	Ton 6-	182	196	188	8,608	10,772	11,178
Barbed wire.	do-	49	77	106	13,615	26,593	36,403
Rope or cable, except insulated.	do-	20	24	33	2,098	3,125	4,403
Strand, galvanized.	do.	29	34	50	3,725	3,869	6,092
	do.	203	233	284	13,907	17,634	23,330
Nonferrous wire, except poultry netting.	do-						
Fly screening.	Lb.	42,986	46,872	58,299	5,862	6,335	
Other wire cloth.	do-	26,392	39,494	47,996	3,136	4,928	5,450
Concrete reinforcement wire.	Ton 6-	(11)	(11)	(11)	3,665	4,935	7,685
Other woven wire.	do-	28	26	23	4,837	4,798	5,504
Motor-vehicle skid chains.	do.	(11)	(11)	(11)	3,336	7,258	7,198
Bale ties.	Lb.	124,090	151,769	160,770	3,680	5,542	5,900
Wire springs.					24,104	45,135	73,371
Welding wire, not incl. electrodes.	Lb.	23,328	28,385	69,135	1,581	2,148	4,132
Other fabricated iron and steel wire products.					19,524	38,220	46,328
Nonferrous wire products-							
Fly screening-	Lb.	9,697	10,979	13,567	2,324	2,998	4,309
Copper and bronze.	do.	91	162	304	64	97	239
Other metals.					3,189	4,113	4,961
Fourdrinier and cylinder wire cloth	do.	1,985	2,670	3,183			
Other wire cloth-	do.			(11)	1,227	1,111	1,588
Copper and bronze.	do-			(11)		750	1,336
Copper wire, except insulated.	do.	24,771	42,541	131,783	2,480	5,986	22,096
Other fabricated nonferrous wire products, except insulated wire.					2,350	2,084	3,273
Fabricated wire products not distributed above.					2,255		
Insulated wire and cable.					65,637	122,226	245,342
TIN PLATE AND TERNEPLATE							
All products, total value.					151,601	195,845	285,775
Tin plate.	Lb.	3704,042	3232,191	6463,000	142,434	175,730	254,280
Terneplate.	do.	198,254	426,843	616,343	6,336	16,593	25,349
All other products.					2,830	3,522	6,137
CAST-IRON PIPE AND FITTINGS							
All industries, total value.					22,633	40,392	66,212
Quantity reported.	Ton 6	520	743	1,098	20,065	35,315	58,363
Quantity not reported.					2,569	5,077	7,849

⁹ 21,240,894 lbs. castings were produced for sale and interplant transfer by establishments classified in other industries as follows: For 1933, 14,495 tons valued at \$2,508,532; 1935, 58,289 tons valued at \$8,254,925; 49,187 tons valued at \$9,566,662.

1097 includes the production of piercing billets, rounds, and blanks which were not called for separately prior to 1935. The amounts reported for 1935 are as follows: Produced and consumed in same works, 888,594 tons; made for sale and interplant transfer, 73,639 tons, valued at \$3,920,021. For 1937, produced and consumed in same works, 1,684,518 tons; made for sale and interplant transfer, 534,292 tons valued at \$24,807,581. For years prior to 1935 data for the tonnage produced and consumed in plant and an indeterminate amount of that made for sale and interplant transfer were reported under Blooms, billets, and slabs.

⁴ Includes 10,377 tons, valued at \$6,011,666 for 1933, 13,615 tons, valued at \$9,147,892 for 1935, and 32,853 tons, valued at \$21,618,180 for 1937, of stainless-steel plates and sheets not reported separately.

All iron and steel wire, including that subsequently galvanized, otherwise coated, and cold rolled.

Of 2,000 pounds.

Not called for separately.

Includes \$313,000 in 1933, \$673,000 in 1935, and \$214,000 in 1937 for which no quantity was reported.

Not including valve or flange and tacks made from nail and tack plate.

100 pounds.

No comparable data; quantity not reported in all cases.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

No. 769.- STEEL INGOTS AND CASTINGS- PRODUCTION, BY GRADE: 1890 TO 1939

NOTE.-In longtons (2,240 pounds). Blank spaces indicate that figures are not available

YEAR	Total	Bessemer	OPEN HEARTH			Coke	Electric	Miscellaneous
			Total	Basic	Acid			
1890.	4,277,071	3,688,871	513,232			71,175		3,793
1900.	10,188,329	6,684,770	3,398,135	2,545,091	853,044	100,562		4,862
1910.	26,094,919	9,412,772	16,504,509	15,292,329	1,212,180	122,303	52,141	3,194
1915.	32,151,036	8,287,213	23,679,102	22,308,725	1,370,377	113,782	69,412	1,527
1920.	42,132,934	3,883,087	32,671,895	31,375,723	1,296,172	72,265	505,687	
1925.	45,303,524	6,723,962	38,034,488	37,087,342	947,146	19,552	615,512	
1930.	10,699,483	5,035,459	35,049,172	34,268,316	780,856	2,253	612,599	
1935.	34,092,594	2,835,031	30,715,429	30,361,237	354,192	642	541,492	
1937 1	50,568,701	3,449,927	46,272,303	15,772,510	499,793	934	845,537	
1938 -	28,349,991	1,880,661	25,964,300	25,691,963	272,337	6	505,024	
1938 1-	47,141,709	2,399,032	43,223,036	+2,704,197	518,839	831	\$18,810	

1 Figures include only that part of steel for castings which was made in foundries producing steel ingots.

No. 770. BLAST FURNACES AND STEEL MILLS- SUMMARY: 1889 TO 1937

NOTE.-The scope of the industry "Steel works and rolling mills" is indicated by table 768

YEAR	Number of establishments	Wage earners (average number)	WAGES	VALUE OF PRODUCTS	VALUE ADDED BY MANUFACTURE	PRIMARY HORSE-POWER
Thousands of dollars						
1889.	719	171,181	89,273	478,688	151,415	784,358
1899.	668	222,490	120,820	803,968	281,569	1,597,816
1909.	654	278,505	187,807	1,377,152	399,013	3,274,285
1919.	695	416,748	711,407	3,623,369	1,321,507	5,399,574
1923.	658	424,913	696,761	4,161,938	1,289,910	5,999,941
1925.	595	399,914	660,297	3,711,354	1,281,976	6,143,927
1927.	602	389,270	545,534	3,488,744	1,219,534	5,781,058
1929.	591	419,534	730,974	+1,137,214	1,622,837	7,532,530
1931.	526	278,206	357,645	1,714,214	623,199	(3)
1933.	466	288,945	270,367	1,357,574	481,529	
1935.	468	374,808	458,584	2,305,970	893,681	3
1937.	497	502,417	317,778	4,003,017	1,624,391	(3)
Blast furnaces:						
1935	72	15,178	18,916	374,651	73,993	
1937 2	87	23,075	38,001	672,525	127,644	8
Steel works and rolling mills:						
1935.	396	359,630	439,669	1,931,318	819,688	
1937.	410	479,342	779,776	3,330,491	1,495,747	8

Includes much duplication.

: Value products less cost of materials, fuel, and purchased electric energy. Beginning 1935, deductions include, in addition, cost of contract work.

Nodata.

: Includes data for 3 establishments in 1935 and 5 in 1937 engaged in production of sintered ore and flue dust and operated independently of blast furnaces.

No. 771.— IRON AND STEEL AGGREGATE EXPORTS: 1890 TO 1939

NOTE.-Prior to 1922, the small items for which quantity not available are excluded, while in later years all items are included. Ferromanganese is included for steel years. The small item "steam and hot water heating boilers and radiators," formerly classified as heavy iron and steel, is excluded beginning 1922

EQuantities in thousands of longtons (2,240 pounds); values in thousands of dollars]

YEAR	Quantity	Value	YEAR	Quantity	Value	YEAR	Quantity	Value
1890.	52		1916.	6,101	353,971	1928.	2,865	179,881
1895.	89		1917.	6,439	567,041	1929.	3,038	200,203
1900.	1,154	42,518	1918.	5,375	558,279	1930.	1,983	139,039
1905.	1,010	33,813	1919.	4,400	410,164	1931.	969	63,226
1908.	964	43,397	1920.	4,935	458,376	1932.	595	28,857
1909.	1,244	50,777	1921.	2,213	214,830	1933.	1,341	45,534
1910.	1,538	63,436	1922.	1,995	136,334	1934.	2,813	88,691
1911.	2,188	86,599	1923.	2,010	167,247	1935.	3,064	88,414
1912.	2,948	112,535	1924.	1,806	150,494	1936.	3,157	112,692
1913.	2,746	108,875	1925.	1,763	144,262	1937.	7,579	302,360
1914.	1,550	63,409	1926.	2,167	174,145	1938.	5,148	185,432
1915-	3,533	140,993	1927.	2,183	160,609	1939.	6,084	236,945

Sources: Table 769, American Iron and Steel Institute, annual report. Table 770, Dept. of Commerce, Bur. of Census, reports of Biennial Census of Manufactures. Table 771, Dept. Commerce, Bur. Foreign and Domestic Commerce, annual report, Foreign Commerce and Navigation of the U. S. Also published currently in Monthly Summary of Foreign Commerce of the U. S.

No. 772. IRON AND STEEL EXPORTS, EY KIND: 1936 TO 1939

NOTE.—This and tables 771 and 773 exclude the highly elaborated manufactures of iron and steel.

ARTICLE	QUANTITY IN LONG TONS (2,240 POUNDS)				VALUE IN THOUSANDS OF DOLLARS			
	1936	1937	1938	1939	1936	1937	1938	1939
Total.	3,167,407	776,677	1,478,266	6,063,676	112,683	202,560	180,432	236,945
Pig iron, not including ferro-alloys..	5,316	782,436	132,851	177,024	119	19,403	7,135	3,436
Ferromanganese and spiegeleisen.	466	1,725	247	2,923	27	731	191	248
Other ferro-alloys.	2,482	2,786	1,197	4,042	807	2,202	1,172	1,025
Scrap—	2,120	1,692	295	584	24,684	79,387	45,830	55,911
Ingots, blooms, sheet bars, skelp, etc.	91,602	415,200	227,328	297,440	2,886	16,898	8,370	11,484
Iron and steel bars.								
Alloy steel bars.	56,665	159,258	150,831	208,567	3,458	11,353	10,341	15,254
Wire rods.	34,872	60,008	22,283	31,450	1,328	3,263	1,112	1,330
Crvanized sheets.	63,205	81,019	76,037	110,968	4,689	7,470	7,020	9,595
Plates, iron and steel.	95,854	386,819	221,108	254,078	4,461	21,507	11,344	12,015
Black steel sheets.	140,158	286,510	205,278	269,026	10,003	24,014	16,442	19,699
Black iron sheets.	6,964	10,788	7,566	10,448	455	935	615	812
Hoop, band, and strip steel	61,910	111,234	62,555	88,952	3,997	7,979	5,184	6,553
Tin plate, terneplate, etc.	238,880	360,683	161,571	311,016	23,753	39,940	19,078	33,033
Structural shapes, plain material.	62,077	135,706	83,691	115,465	2,584	6,984	4,507	5,549
Structural materials, fabricated.	28,034	73,543	45,313	52,734	2,203	6,168	4,405	4,308
Tanks, complete and knocked down—	21,574	44,578	37,730	28,735	1,733	3,551	3,284	2,647
Metal lath.	936	1,751	863	1,656	161	287	160	303
Steel rails.	73,455	148,182	82,721	59,092	2,085	5,167	3,112	2,375
Rail astenings, switches, frogs, etc—	12,903	21,321	12,830	16,287	946	1,834	1,104	1,460
Boiler tubes.	7,387	17,458	8,124	15,170	1,338	2,785	1,541	1,960
Casing and oil-line pipe.	28,410	83,481	63,703	87,905	2,760	8,302	6,917	3,717
Seamless black pipe, except casing and oil-line.	3,924	12,482	7,459	10,219	586	1,507	1,287	1,356
Black and galvanized welded pipe.	25,235	46,431	31,183	57,355	2,181	4,539	3,170	5,525
Riveted pipe and fittings.	1,122	980	945	7,574	150	137	189	2,116
Cast-iron pipe and fittings.	19,952	31,176	31,892	46,147	1,614	2,344	2,475	2,946
Malleable-iron screwed pipe fittings—	3,657	5,385	3,102	4,608	1,029	1,597	1,080	1,441
Barbed-wire and woven-wire fencing.	36,642	36,995	36,157	56,693	2,177	2,983	2,707	4,105
Plain and galvanized wire.	47,355	56,092	49,872	60,494	2,906	4,812	3,777	4,515
Woven-wire screen cloth.	1,132	1,588	1,327	1,924	392	534	433	704
Wire rope and wire strand.	3,256	7,824	4,372	6,058	832	1,841	1,181	1,515
Electric welding rods.			1,182	6,603			270	378
Wire, other and manufacturest. nered.	5,361	9,082	6,262	10,295	1,231	2,061	1,505	2,114
Wire nafs.	7,799	17,408	20,720	25,796	473	1,313	1,370	1,697
Nails other than wire, tacks, staples—	3,291	4,483	5,236	6,458	477	660	656	819
Horseshoes.	120	179	103	224	16	21	13	30
Bolts, nuts, rivets, and washers—	6,764	11,166	8,057	8,856	1,610	2,750	2,083	2,350
Car wheels and axles.	8,300	27,775	20,938	27,879	576	2,343	1,899	2,516
Iron castings.	7,073	9,579	5,152	4,679	744	1,089	826	851
Steel castings.	3,281	3,896	2,452	2,693	678	1,049	688	675
Forgings.	3,859	10,118	9,092	16,603	532	1,279	1,124	2,962

I Preliminary.

2 Except track.

No. 773. IRON AND STEEL EXPORTS, BY DESTINATION: 1937, 1938, 1939

NOTE.—All figures in long tons (2,240 pounds). Products covered are those listed in table 772

COUNTRY	1937	1938	1939	COUNTRY	1937	1938	1939
Belgium	66,338	24,744	14,829	Argentina.	48,777	28,120	66,696
France	30,959	24,271	8,978	Brazil—	109,079	76,451	149,553
Germany	110,012	241,518	16,658	Chile.	45,705	50,583	56,910
Italy.	402,498	443,802	445,489	Colombia.	58,890	57,508	77,603
Netherlands.	194,532	291,847	176,427	Peru.	27,969	22,197	35,910
Norway—	29,730	17,359	46,933	Uruguay	24,754	5,585	9,041
Poland and Danzig.	278,329	152,990	147,887	Venezuela.	72,717	72,293	93,232
Rumania.	1,254	6,819	6,211	India and Ceylon.	35,910	20,956	23,617
U. S. S. R., Europe and Asia—	94,154	68,652	28,301	British Malaya.	13,158	14,508	23,123
Sweden.	130,765	31,419	211,709	China.	157,955	35,507	12,202
United Kingdom.	1,224,144	522,931	671,958	Netherlands Indies.	40,718	18,512	53,599
Canada—	642,165	368,542	565,788	Hong Kong—	43,632	44,300	16,539
Central America.	48,893	44,979	74,371	Japan.	2,784,420	1,806,797	2,220,885
Mexico—	213,411	66,620	124,352	Kwantung.	106,358	95,100	65,633
British West Indies and Bermudas.	14,758	9,100	10,436	Palestine and Syria.	3,866	3,387	9,263
Cuba—	61,451	51,755	77,566	Philippine Islands.	96,922	106,004	147,688
Dominican Republic—	5,074	3,710	5,462	Turkey.	35,830	18,778	6,304
Netherlands West Indies.	26,391	25,190	17,369	Australia.	30,517	30,599	10,502
				British South Africa	64,643	43,027	55,970
				Mozambique.	35,526	16,508	17,562
				All other.	166,463	124,962	197,033

I Preliminary.

Source of tables 772 and 773: Dept. of Commerce, report, Foreign Commerce and Navigation of the currently in Monthly Summary of Foreign Commerce

of Foreign and Domestic Commerce; annual Figures, except by destination, are published the U. S.

No. 774. IRON AND STEEL AVERAGE ANNUAL PRICES, BY CLASS OR KIND: 1891 TO 1939

(Prices of pig iron, rails, and billets, and wire rods in dollars per long ton (2,240 pounds) and other prices in dollars per 100 poundal)

YEAR	PIG IRON			Open hearth raflsat millsin Penn- syl- vaniaz	Open hearth steel billets, Pitts- burgh3	Wire rods, Pitts- burgh	Soft- steel bars, Pitts- burgh	Iron bars (best refined), Pitts- burgh*	Tank plates, Pitts- burgh	Struc- tural shapes, Pitts- burghs	Com- posited steel5
	Basic, The Val- leys	South- ern, No.2, Cincin- nati	Local, No.2, Chi- cagol								
1891-1895.		11.74	12.80	27.27	20.89			1.46			
1896-1900.		12.56	14.30	24.96	21.08		71.46	1.50	1.61	71.63	
1901-1905		15.80	17.50	27.87	25.76		1.47	1.77	1.60	1.63	
1906-1916-	16.87	17.66	19.42	28.00	26.60		1.47	1.75	1.57	1.58	1.77
1911.	13.07	13.67	14.83	28.00	21.46		1.26	1.41	1.31	1.32	1.54
1912.	13.92	14.93	15.32	28.00	22.38		1.29	1.44	1.33	1.32	1.53
1913.	14.71	14.90	15.85	28.00	25.79		1.55	1.69	1.50	1.50	1.66
1914.	12.87	13.41	13.60	28.00	20.09		1.15	1.32	1.14	1.15	1.43
1915.	13.74	13.57	14.01	28.00	22.44		1.31	1.48	1.31	1.30	1.53
1916.	19.76	18.67	20.26	32.00	43.95		2.67	2.13	3.53	2.55	2.67
1917.	38.90	38.95	41.31	38.00	70.96		3.64	3.83	5.88	3.67	4.19
1918.	32.50	36.56	33.25	55.00	47.33		2.89	4.31	3.24	2.99	3.54
1919.	27.67	32.17	29.11	47.29	40.54	53.98	2.50	4.10	2.72	2.52	3.12
1920-	42.25	44.52	42.52	52.42	56.14	69.55	3.22	4.75	3.28	2.95	3.74
1921.	21.73	26.68	22.93	44.05	34.46	45.94	1.87	4.47	1.93	1.94	2.44
1922.	24.20	23.93	24.85	40.75	33.90	40.49	1.72	3.35	1.72	1.71	2.12
1923.	25.81	27.87	28.16	43.00	41.75	50.39	2.36	3.50	2.43	2.43	2.70
1924.	20.24	23.91	22.10	43.00	37.99	48.31	2.20	4.00	2.12	2.19	2.51
1925.	19.59	23.74	22.09	43.00	35.62	46.05	2.02	4.52	1.91	1.99	2.33
1926.	18.55	24.71	21.64	43.00	35.00	45.00	2.00	4.62	1.88	1.95	2.32
1927.	17.70	21.16	19.68	43.00	33.27	42.44	1.84	4.68	1.82	1.83	2.20
1928.	16.66	18.70	18.54	43.00	32.67	42.55	1.87	4.64	1.87	1.87	2.17
1929.	18.19	18.51	20.00	43.00	34.66	41.50	1.92	4.13	1.93	1.92	2.21
1930.	17.98	16.16	18.47	43.00	31.84	36.91	1.71	4.11	1.69	1.69	2.05
1931	15.85	14.52	17.35	43.00	29.36	35.03	1.63	3.69	1.62	1.62	1.96
1932.	13.98	13.84	15.87	42.44	26.51	37.00	1.57	3.35	1.57	1.57	1.90
1933.	15.24	16.31	16.47	39.26	26.00	35.15	1.64	3.35	1.61	1.68	1.88
1934.	17.69	18.80	18.19	36.37	27.10	37.37	1.81	3.50	1.78	1.78	2.03
1935.	18.17	19.34	18.68	36.37	27.25	38.21	1.81	3.50	1.80	1.80	2.06
1936.	19.10	19.99	19.60	36.59	29.68	39.12	1.93	3.70	1.85	1.85	2.08
1937	22.99	23.20	23.49	41.86	36.45	46.27	2.40	4.50	2.21	2.21	2.46
1938.	21.70	22.18	22.20	41.77	35.45	44.93	2.35	4.50	2.17	2.17	2.39
1939.	21.09	21.64	21.59	40.00	34.00	43.00	2.19	4.40	2.30	2.10	2.26

1 At furnace after 1907.

Bessemer billets prior to 1927.

Beams prior to Mar. 19, 1929.

: Prior to 1920, No. 24 gage hot-rolled annealed sheets; thereafter, No. 10. Includes hot-rolled strip beginning 1920.

7 Average for 1898-1900.

No. 775. ALUMINUM AND BAUXITE PRODUCTION, EXPORTS, AND IMPORTS: 1913 TO 1939

	1913	1920	1925	1930	1935	1938	1939
BAUXITE							
Quantities, long tons (2,240 pounds):							
Production	210,241	521,308	316,540	330,612	233,912	1311,354	2375,301
Georgia, Alabama, and Tennessee2	40,370	40,029	20,220	15,339	14,121	118,074	14,045
Arkansas.	169,571	481,279	296,320	315,273	219,791	1293,280	2361,255
Imports for consumption	21,456	42,895	353,696	409,678	199,959	455,693	520,179
Exports, including concentrates.	(4)	22,257	78,633	104,504	82,491	57,726	51,635
Value of production5 (1,000 dollars).	998	3,247	1,988	1,928	1,557	1,813	2,166
ALUMINUM							
Value, 1,000 dollars:							
Production-							
Primary metal.	9,450	41,375	36,430	50,961	22,070	56,659	64,600
Secondary metal.	2,199	9,489	24,816	17,177	19,018	15,326	(4)
Imports for consumption, total	4,784	13,077	10,107	5,286	4,279	3,379	4,766
Crude and semicrude.	4,388	12,184	9,806	4,690	3,694	2,491	3,385
Manufactures.	396	893	301	596	585	888	1,381
Exports, total.	966	5,631	6,057	7,122	2,067	5,484	23,631
Crude and semicrude.		3,068	3,366	3,916	694	3,912	20,872
Manufactures		2,563	2,691	3,206	1,373	1,572	2,759
Quantities, 1,000 pounds:							
Imports crude and semicrude)	25,095	39,299	41,997	25,461	21,291	17,740	28,673
Exports (crude and semicrude)	(9)	9,408	12,642	17,330	3,970	12,618	74,170

small quantity of activated bauxite.

Includes sintered.

: Unavailable.

3 F.O. b: mines.

1 Includes production in Tennessee since 1928.
Sources: Table 774, Iron and Steel Institute, published Jan. 4, 1940, and American Iron and Steel Institute, annual report; table 775, Department of the Interior, Bureau of Mines, Minerals Yearbook.

No. 776. COPPER PRODUCTION, EXPORTS, IMPORTS, AND CONSUMPTION:
1910 TO 1939

NOTE.—All quantities except ore produced in millions and tenths of millions of pounds. Production figures include continental United States and Alaska. Owing to the varying stages of production, the stocks in different classes of hands, the redistribution of copper previously purchased, the recovery and use of old copper, etc., calculations of consumption are somewhat uncertain. The American Bureau of Metal Statistics presents consumption estimates rather widely different from those given below. Consumption as shown represents the quantity of copper withdrawn on domestic account, but not actual domestic consumption, as no account is taken of consumers' stocks.

ITEM	1910	1920	1925	1930	1935	1937	1938	1939
UNREFINED COPPER								
Ore produced (million short tons)	28.5	36.8	53.1	47.4	19.1	261.5	237.8	
Average copper yield, percent.	1.88	1.63	1.54	1.43	1.89	1.29	1.34	8
Smelter output from domestic ore	1,080.2	1,209.1	1,674.9	1,394.4	762.6	1,669.3	1,124.7	1,425.3
Mine production.	1,088.2	1,224.6	1,678.1	1,410.1	761.0	1,684.0	1,115.5	1,456.6
Imports, unrefined:								
Ore (copper content).	64.2	52.0	107.6	101.3	15.3	32.3	15.0	412.3
Concentrates (copper content).	21.0	46.8	54.9	56.9	60.4	103.7	124.5	412.3
Matte and anreguliscopperper content.					5.3	10.4	5.0	3.7
Unrefined, in bars, pigs, etc.	3259.2	244.7	379.3	560.5	395.9	391.8	353.6	490.3
REFINED COPPER PRODUCTION								
Total new and old copper.	1,611.0	2,151.0	3,045.0	3,091.0	2,075.4	3,197.8	2,304.5	3,018.4
New copper (primary).	1,422.0	1,526.2	2,204.6	2,157.1	1,177.6	2,133.6	1,584.8	2,019.0
Domestic.	1,071.9	1,182.4	1,682.9	1,391.2	676.6	1,644.5	1,105.1	1,409.7
Foreign.	350.1	343.7	521.7	765.8	501.0	+89.1	479.7	609.3
Electrolytic.	1,128.3	1,351.7	2,050.6	1,993.6	1,103.7	52,035.1	01,512.6	61,934.1
Lake.	221.5	153.5	138.0	143.0	673.6	684.0	672.0	684.9
Casting and best select.	72.3	7.21	15.9	20.5	.3	14.5	.2	
Secondary copper (from new and old scrap)	189.0	624.9	840.4	934.4	897.8	1,064.2	719.7	999.4
REFINED COPPER CONSUMPTION								
New copper produced (refinery).	1,422.0	1,526.2	2,204.6	2,157.1	1,177.6	2,133.6	1,584.8	2,019.0
Refined copper imported.	(5)	108.7	99.8	86.2	36.1	15.0	3.6	32.5
Refined copper exported.	3708.3	8553.1	1,022.3	669.3	550.0	620.8	770.4	792.8
Stocks, Dec. 31 (refined).	122.8	659.0	124.0	615.0	350.0	358.0	362.0	191.0
Withdrawn on domestic account:								
New refined copper.	732.4	1,053.8	1,401.0	1,265.0	882.7	1,389.8	814.0	1,429.7
New and old copper.	921.0	1,679.0	2,241.0	2,199.0	1,780.0	2,454.0	1,534.0	(3)
Tons of 2,000 pounds. Old caillings are included beginning 1930.								
Exclusive of Alaska, figures for which the Bureau of Mines is not at liberty to publish.								
Not available.								
Ore from the Philippine Islands included under concentrates.								
Imports of refined copper in ingots, bars, or other forms included in imports of unrefined.								
Some copper from Michigan was electrolytically refined and is included with electrolytic.								
Includes pig.								
Includes small exports of unrefined black blister and converter copper (bars, pigs, etc.).								

No. 777.—COPPER-SMELTER PRODUCTION, BY STATE OF ORIGIN OF ORE:
1910 TO 1939

[Quantities in thousands of pounds]

STATE OF ORIGIN	1910	1920	1925	1930	1935	1937	1938	1939
Total.	1,080,160	1,209,061	1,674,870	1,394,389	762,587	1,669,322	1,124,657	1,425,348
Alaska	4,311	66,094	72,204	36,380	14,602	42,215	33,493	304
Arizona	297,251	552,989	722,653	570,897	278,519	580,493	420,351	469,713
California.	45,760	11,822	46,944	26,262	1,630	10,615	1,681	8,491
Colorado.	9,307	4,283	3,163	12,944	14,341	21,826	30,564	25,549
Idaho.	6,878	1,922	3,144	2,714	2,125	4,804	5,611	4,632
Michigan	221,463	153,484	138,030	142,986	73,812	84,751	75,281	89,402
Missouri.		533	12	2	85	696	626	1,020
Montana.	283,079	177,744	270,605	198,796	157,760	280,662	156,250	203,512
Nevada.	64,495	55,580	77,138	87,475	72,819	149,964	93,656	184,543
New Mexico.	3,785	52,160	76,467	74,188	4,560	63,574	43,913	74,084
Oregon.	22	2,529	126	230	372	870	89	96
Pennsylvania	741	618	562	3,061	8	8	8	8
Tennessee.	16,692	16,728	19,789	()	8	8	8	8
Utah.	125,185	110,358	242,731	205,770	120,973	404,169	229,877	326,117
Washington.	65	2,126	1,185	1,405	81	124	12,494	16,756
Undistributed.	1,127	92	117	231,280	220,909	224,558	220,771	221,131

1 Included in "Undistributed."

2 See note 1.

Source of tables 776 and 777: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 778. COPPER SMELTER AND REFINERY OUTPUT: 1850 TO 1939

NOTE. Smelter output as here given represents the production of unrefined copper from domestic (including Alaskan) ores. Some copper ore imported and smelted in this country, but this appears only in the figures of refined copper from taparted material in table 776

Quantities in millions of pounds; values in thousands of dollars)

PERIOD	SMELTER OUTPUT FROM DOMESTIC ORE		FEAR	SMELTER OUTPUT FROM DOMESTIC ORE		REFINERY OUTPUT (QUANTITIF)			
	Quantity	Value		Quantity	Value	New copper		Secondary copper	
						Total Domestic	Foreign		
1856.	172	320	1916-	1,928	474,288	2,259	1,928	331	700
1860.	16	3,709	1917.	1,886	514,911	2,428	1,886	542	767
1870.	28	5,997	1928.	1,909	471,408	2,282	1,883	649	705
			1919.	1,286	239,274	1,805	1,433	372	574
1871-1875.	34	8,895	1920-	1,209	222,467	1,526	1,182	344	625
1876-1880.	50	9,679	1921.	506	65,221	951	609	341	435
1881-1885.	118	17,236	1922.	950	128,289	1,256	905	351	672
1886-1890.	226	30,345	1923.	1,435	210,945	1,980	1,464	516	822
1891-1895.	339	37,266	1924.	1,634	214,087	2,260	1,674	586	777
			1925.	1,675	237,832	2,205	1,683	522	840
1896-1900.	531	74,424	1926-	1,740	243,547	2,322	1,731	501	960
1901-1905.	732	103,859	1927.	1,684	220,609	2,326	1,719	607	980
1906-1910.	980	150,924	1928.	1,826	262,930	2,488	1,792	696	1,073
1911-1915.	1,221	185,592	1929.	2,003	352,504	2,740	1,983	757	1,253
1916-1920.	1,644	395,270	1930.	1,394	181,271	2,157	1,391	766	934
1921-1925.	1,240	171,275							
1926-1930.	1,729	252,172	1931.	1,043	94,887	1,501	1,675	427	694
1931-1935.	658	52,066	1932.	544	34,273	681	445	236	496
1909.	1,093	142,084	1933.	450	28,800	742	481	260	676
1910.	1,080	137,180	1934.	489	39,076	891	466	425	755
1911.	1,097	137,154	1935.	763	63,295	1,178	677	501	898
1912.	1,243	205,139	1936.	1,223	112,499	1,645	1,291	354	969
1913.	1,224	189,795	1937.	1,669	201,988	2,134	1,645	489	1,064
1914.	1,150	152,968	1938.	1,125	110,216	1,585	1,105	480	720
1915.	1,288	242,902	1939-	1,425	148,236	2,019	1,410	609	999

1 Figures for 1919 and prior years include data for refined copper imported.

Source: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 779. COPPER - EXPORTS AND IMPORTS: 1891 TO 1939

NOTE. Exports are those classed as "domestic" in the foreign trade statistics but include coppers melted or refined in the United States from imported ore or unrefined metal. Values include all forms of copper. Quantities represent all copper except the small item, "other manufactures." Copper content of exports of ore for years 1891-1915 and of imports for years 1894-1903 was estimated

[Quantities in short tons (2,000 pounds); values in thousands of dollars]

YEARLY AVERAGE FOR YEAR	EXPORTS		IMPORTS		YEAR	EXPORTS		IMPORTS	
	Quantity	Value	Quantity	Value		Quantity	Value	Quantity	Value
1891-1895	65,586	14,392	5,477	896	1929.	499,237	183,405	487,156	153,710
1896-1900.	137,684	36,745	24,634	5,866	1930.	376,647	105,342	408,577	104,616
1901-1905	190,451	54,942	83,237	22,611	1931	278,937	54,748	292,946	48,745
1906-1910	289,445	92,334	130,111	38,026	1932.	164,111	21,236	195,996	23,735
1911-1915	416,840	123,655	176,635	46,129	1933.	174,627	24,917	212,639	314,834
1916-1920.	376,877	208,909	244,948	103,805	1934.	312,743	49,765	131,993	327,786
1921-1925.	438,337	129,761	298,975	77,811	1935.	302,873	48,933	324,052	333,213
1926-1930.	491,290	149,999	407,636	168,244	1936-	262,417	56,663	313,788	229,884
1931-1935.	246,658	39,920	211,138	29,662	1937.	350,317	93,626	322,749	352,562
1927.	538,365	150,214	359,261	84,963	1938.	422,014	86,809	2205,718	337,872
1928	562,510	169,831	393,537	98,187	1939-	427,579	97,185	2230,669	344,230

Fiscal years ended June 30.

Average for period 1911-1915 to 1939.

Source: Department of Commerce, Bureau of Foreign and Domestic Commerce; annual report, Foreign Commerce and Navigation of the U.S. Also published currently in Monthly Summary of Foreign Commerce of the U.S.

No. 780. —LEAD, RECOVERABLE- MINE PRODUCTION, BY STATES AND FOR ALASKA: 1920 TO 1939

[In shorttons (2,000 pounds)]

STATE	1920	1925	1930	1935	1936	1932	1938	1939 ¹
Total	496,814	684,439	558,313	331,103	372,919	464,892	369,726	413,979
Western States and Alaska	248,131	364,387	312,413	193,439	218,387	254,468	202,953	209,214
Alaska	875	789	1,365	676	941	823	994	937
Arizona	6,935	11,938	4,246	7,783	10,688	12,354	10,571	10,771
Colorado	23,515	31,483	22,130	5,673	7,267	9,786	9,455	8,222
Idaho	118,565	126,521	134,058	79,020	91,339	103,711	92,177	90,981
Montana	14,846	18,765	10,653	15,589	19,059	17,957	9,327	16,555
Nevada	10,100	12,238	11,529	12,676	10,712	9,347	4,679	4,236
New Mexico	1,435	3,210	10,378	7,289	6,626	6,512	4,949	5,392
Utah	66,898	153,335	115,495	63,510	69,886	89,458	65,657	67,634
Washington	2,749	2,814	576	103	840	2,830	4,284	3,718
Other	2,413	3,294	1,983	1,126	1,029	1,690	860	768
Central States	246,780	317,375	237,533	132,682	148,536	204,885	158,873	198,481
Kansas	16,452	22,775	12,910	10,892	11,409	16,008	15,239	13,697
Missouri	161,812	211,566	199,632	97,493	110,428	157,631	122,027	156,281
Oklahoma	64,085	79,946	23,052	23,405	25,427	29,840	21,004	27,720
Other	4,430	3,088	1,938	892	1,272	1,406	603	783
Eastern States	21,903	2,677	8,367	4,982	5,996	5,539	7,900	6,284
New York								
Tennessee	1,880	448	8,367	4,982	5,996	5,539	7,896	6,284
Virginia		2,229						
North Carolina								4

¹ Preliminary. ³ Includes small quantities produced in Massachusetts, Pennsylvania, and Georgia.

No. 781. LEAD- PRODUCTION OF REFINED PRIMARY AND SECONDARY LEAD, 1830 TO 1939, AND BY CLASS AND SOURCE: 1880 TO 1939

NOTE: Production in shorttons (2,000 pounds); values, except price per pound, in thousands of dollars. Figures, except those for antimonial and secondary lead, relate to new (primary) lead only; totals include lead derived from both domestic (including Alaska) and foreign ore. General production figures and production of desilverized lead exclude lead content of antimonial lead, shown in next to last column

YEAR	Production	Value	YEAR	Production	Value	YEAR	Production	Value
1830.	8,000	608	1906.	404,746	46,141	1923.	618,322	86,565
1840.	17,000	1,666	1907.	413,389	43,819	1924.	690,493	110,479
1850.	22,000	2,112	1908.	396,564	33,311	1925.	766,969	133,453
1860.	15,600	1,778	1909.	446,909	38,434	1926.	798,941	127,831
1870.	17,830	2,247	1910.	470,272	41,384	1927.	796,530	100,363
1880.	95,725	9,573	1911.	486,979	43,828	1928.	781,071	90,604
1885.	126,192	10,095	1912.	480,894	43,280	1929.	774,633	97,604
1890-	157,844	14,206	1913.	462,460	40,696	1930-	643,033	64,303
1895.	235,822	15,093	1914.	542,122	42,286	1931.	442,764	32,765
1898.	302,148	22,963	1915.	550,055	51,705	1932-	281,941	16,916
1899.	298,047	26,824	1916.	571,134	78,817	1933.	263,676	19,512
1900.	367,773	32,364	1917.	610,769	105,052	1934:	311,236	23,031
1901.	371,032	30,909	1918.	640,195	90,908	1935.	324,560	25,965
1902.	367,892	30,167	1919.	482,220	51,115	1936.	399,156	36,722
1903.	368,939	30,991	1920.	529,657	84,745	1937.	467,317	55,143
1904.	393,452	33,837	1921.	448,589	40,373	1938.	383,669	35,298
1905.	388,307	36,501	1922.	532,662	58,593	1939.	484,035	45,499

YEAR	CLASS			SOURCE			Average value per pound	Antimonial lead, at primary series	Secondary lead recovered, total
	Desilverized ²	Soft undersilverized ²	Domestic ores and bullion ³	Foreign ores	Foreign bullion	Domestic			
1880.	63,035	27,690	95,725				\$0.050		
1890.	126,493	31,351	139,720		18,124		.045		
1890.	319,752	48,021	260,918		106,855		.044		
1910.	328,954	141,318	375,402	18,065	76,805		.044		55,422
1920.	339,803	189,854	476,349	8,414	44,394		.080		124,650
1925.	506,409	260,560	654,921	47,024	65,024		.087		226,880
1930.	441,672	201,361	573,740	34,348	34,945		.050	24,797	255,800
1935.	227,777	96,783	310,505	13,659	396		.640	16,384	270,400
1936.	287,406	111,750	387,698	11,401	57		.046	23,230	262,900
1937.	327,368	139,949	443,142	23,393	782		.059	27,524	275,100
1938.	275,877	107,792	331,964	32,862	18,843		.046	24,123	224,900
1939.	345,705	138,330	420,967	24,652	38,416		.047	21,995	241,500

Desilverized soft lead is included.

² Soft lead, both desilverized and undersilverized, includes lead derived from Missouri ores and other non-argentiferous ores. ³ Excludes lead content of antimonial lead. ⁴ Not available.

Source of tables 780 and 781: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 782. - LEAD SUPPLY AND DISTRIBUTION OF REFINED PRIMARY PIG:
1910 TO 1939

NOTE.-All date in short tons (2,000 pounds). Apparent deliveries are only approximate, as no account (except for bonded Warehouses prior to 1933) is taken of changes in stocks

	1910	1920	1925	1930	1935	1937	1938	1939
Supply, total.	473,836	565,610	779,035	644,570	325,882	469,555	385,574	489,423
Stock in bonded warehouses.								
Jan. 1.	79	234	5,045	1,328	(1)	0	(1)	0
Imports of pigs, bars, and bld.	3,485	35,719	7,021	209	21,322	2,238	1,905	5,388
Production from domestic and foreign ore.	470,272	529,657	766,969	643,033	324,560	467,317	383,669	484,035
Deductions, total.	69,861	21,415	111,681	49,635	6,982	20,091	345,866	74,392
Exports of pigs, bars, etc. t	69,786	20,093	103,519	48,307	6,982	20,091	345,866	74,392
Stock in bonded warehouses Dec. 31.	75	1,322	8,162	0	(1)	(1)	(1)	0
Apparant deliveries to domestic consumers.	403,975	544,195	667,354	594,935	818,900	449,464	339,708	415,031

1 Stocks of pigs, bars, etc., in bonded warehouse not separately reported after April 1930; included with base bullion. For purpose of calculating apparent deliveries in 1930 and subsequent years, stocks in warehouse are estimated to have remained unchanged from beginning of the year.

Includes small quantities of old, re-clated, and scrap lead.

Includes a small quantity, not separable, of "sheets."

: Including small quantities of foreign lead reexported through 1935.

Source: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 783.— NONFERROUS METALS AND ALLOYS, AND FINISHED PRODUCTS TEERE-
OF PRODUCTION, BY KIND: 1933, 1935, AND 1937

NOTE.—Table shows products made for sale and interplant transfer, excluding those made for consumption in same works. Data represent production of commodities specified, whether made as primary or as secondary products by industries reporting them. The census designations of industries in which these commodities are made as primary products are as FOLLOWS: Nonferrous-metal alloys; nonferrous-metal products, except aluminum, not elsewhere classified; and "Smelting and refining, nonferrous metals other than gold, silver, and platinum, not from the ore." No data are included for establishments engaged in smelting and refining concentrates containing copper, lead, zinc, and other nonferrous metals

KIND	TONS (2,000 POUNDS)			VALUE (THOUSANDS OF DOLLARS)		
	1933	1935	1937	1933	1935	1937
Ingot and pigs:						
Copper (secondary).	29,277	29,281	39,890	4,180	4,935	9,499
Lead (secondary)	119,095	129,512	125,520	9,913	11,429	15,437
Zinc (secondary)	23,337	31,058	47,918	2,037	3,044	6,221
Brass and bronze.	58,641	74,388	138,762	8,018	114,381	34,348
Antifriction bearing metal.	12,814	19,638	40,970	4,324	16,520	11,674
Solders, of all kinds.	26,740	38,950	58,546	11,241	116,720	28,622
Type metal	22,428	28,381	34,756	2,762	14,234	6,258
Plates and sheets:						
Brass and bronze	117,559	153,364	195,822	28,754	44,606	78,798
Copper.	59,287	93,014	104,366	17,237	26,143	36,350
Lead.	12,284	17,332	22,503	1,537	2,309	3,776
Nickel alloys.	16,641	14,881	17,899	5,710	7,713	10,795
Zinc.	24,957	49,931	63,744	4,306	8,131	12,342
Rods:						
Brass and bronze.	68,821	94,261	139,743	14,279	23,894	43,240
Copper.	80,470	111,334	199,374	12,588	22,387	44,080
Nickel and other metals and alloys.				4,229	6,400	8,760
Extruded shapes.				1,438	5,966	6,077
Tubing (seamless) and pipe:						
Brass and bronze.	38,730	47,834	78,865	10,760	16,626	34,870
Copper.	29,575	33,992	57,999	9,055	12,039	26,282
Lead.	13,485	16,829	22,965	1,953	2,455	3,928
Nickel alloys	792	1,304	1,918	600	1,522	2,165
Other tubing-				520	1,399	2,183
Castings, rough:						
Brass and bronze:						
Quantity reported.	36,543	51,598	126,231	11,917	19,156	49,354
Quantity not reported.				4,658	14,303	
Copper.	1,367	1,820	3,901	664	1,771	2,214
Nickel alloys	3,313	2,256	4,233	2,838	22,480	4,490
Finished products:						
Castings, finished.				3,530	4,356	3,475
Bearings and bushings (including anti-friction linings).				9,533	21,209	43,255
Die castings.				7,962	20,267	28,073
Forgings and hot-pressed parts.				1,781	2,723	6,837
Bells.				161	351	407

1 Not including the value of ingots and pigs for which no quantity was reported as follows: Brass and bronze, \$197,000; antifriction bearing metal, \$1,186,000; solders, \$2,010,000; type metal, \$214,000.

2 Not including the value of castings for which no quantity was reported as follows: Copper, \$644,000; nickel alloys, \$419,000.

3 Includes nonferrous heat-corrosion-resistant alloy castings.

Source: Dept. of Commerce, Bur. of the Census; reports of Biennial Census of Manufactures.

No. 784. ZINC- PRODUCTION OF ORE, BY STATES, SMELTER PRODUCTION, AND
PRIMARY SLAB ZINC AVAILABLE FOR CONSUMPTION: 1910 TO 1939

NOTE.-The excess of mine production over smelter production is due chiefly to export of ore
[All quantity figures in short tons (2,000 pounds) and values in thousands of dollars]

	1916	1920	1925	1930	1935	1937	1938	1939
Mine production (recoverable zinc content of bre).	327,618	587,524	710,847	595,425	517,903	626,362	516,703	583,807
Arizona.	2,742	729	3,666	815	3,337	5,026	5,814	6,711
Colorado.	38,545	24,395	30,811	36,259	1,202	4,247	4,553	1,830
Idaho.	2,802	13,966	15,619	37,649	31,053	54,199	44,030	47,549
Kansas.	13,229	61,073	118,778	74,304	54,110	80,300	73,024	68,971
Missouri.	128,589	24,509	14,794	10,811	7,263	20,600	10,226	15,096
Montana.	15,819	92,169	57,658	26,421	54,781	39,168	8,844	34,799
Nevada.	1,354	5,349	7,411	14,584	15,536	14,236	8,944	6,228
New Jersey.	68,584	78,511	89,261	97,626	85,708	101,408	85,839	38,716
Now Mexico.	9,044	5,007	9,246	32,765	22,126	23,927	28,236	20,356
New York.		5,654	5,158	22,471	23,720	32,690	29,896	36,014
Oklahoma.	6,394	219,727	283,371	136,153	129,763	135,696	112,924	140,379
Tennessee.	966	19,217	16,256	248,147	242,832	255,255	256,766	256,225
Utah.	8,184	4,079	26,306	44,495	31,107	48,001	33,658	34,526
Washington.		213	609	352	1	4,116	11,402	10,131
Wisconsin.	25,927	27,285	20,230	12,558	8,923	6,938	2,073	5,904
Other States.	5,439	5,641	11,673	15	441	555	474	1,372
Smelter production.	310,407	506,227	634,376	547,345	(3)	621,444	488,611	560,499
Primary zinc.	269,184	463,377	572,946	498,045	420,634	556,904	446,341	507,236
From domestic ore.	252,479	450,045	555,631	489,361	412,184	551,165	436,007	491,058
From foreign ore.	16,705	13,332	17,315	8,684	48,450	5,739	410,334	416,178
Secondary zinc.	41,223	42,850	61,430	49,300	(2)	64,540	42,270	53,263
Redistilled.	12,784	21,371	39,181	534,849	28,650	51,554	31,613	50,428
Remelted.	28,439	21,479	22,249	14,451	(3)	12,986	10,657	2,835
Value of primary product from domestic ore (\$1,000)-	27,268	72,907	84,456	46,979	36,272	71,651	41,857	51,070
Primary slab zinc:								
Supply, total.	281,379	500,170	593,700	584,230	549,861	549,612	532,715	695,707
Stock at smelters, Jan. 1.	11,206	36,793	20,754	85,904	124,783	55,500	79,144	157,511
Production.	269,184	463,377	572,946	498,045	420,634	556,904	446,341	507,236
Imports for consumption.	989	(6)	(9)	281	4,444	37,208	7,230.	30,960
Deductions:								
Exports.	73,990	102,178	76,351	4,633	1,617	249	8,200	4,515
Stock at smelters, Dec. 31.	23,232	71,037	13,080	167,293	90,539	79,144	157,511	83,728
Apparent deliveries to domestic consumers.	254,157	326,955	504,269	412,304	457,705	570,219	375,004	607,464
Preliminary.		2	Includes Virginia.		3	Figures are being revised.		
: Derived from Mexican ores in 1935; mostly from Peru, 1937-38; and from Mexico, Peru, and Argentina in 1939.								
Includes small quantity of secondary electrolytic zinc.								
: Includes plates and sheets; not separately reported.								
Source: Department of the Interior, Bureau of Mines; Minerals Yearbook.								

No. 785. ZINC, PRIMARY- SMELTER PRODUCTION FROM DOMESTIC ORE: 1875
TO 1939

[Quantities in short tons (2,000 pounds) and values in thousands of dollars]

YEARLY AVERAGE OR YEAR	Quantity	Value	YEARLY AVERAGE OR YEAR	Quantity	Value	YEAR	Quantity	Value
1875.	15,833	22,217	1921-1925.	426,261	56,149	1930-	489,361	46,970
1880-3.	23,239	2,277	1926-1930-	576,395	73,119	1931.	291,996	22,192
1885.	40,688	3,540	1931-1935.	314,541	25,432	1932-	207,148	12,429
1886-1890-	54,285	5,219	1923.	508,335	69,134	1933.	306,010	25,705
1891-1896.	82,396	6,787	1924.	515,831	67,058	1934.	355,366	30,561
1896-1900.	109,963	10,180	1925.	555,631	84,456	1935.	412,184	36,272
1901-1905.	169,504	17,067	1926.	611,991	91,799	1936.	491,803	49,180
1906-1910.	219,378	24,165	1927.	576,960	73,851	1937.	551,165	71,651
1911-1915.	346,867	52,416	1928.	591,525	72,166	1938.	436,007	41,857
1916-1920.	508,731	39,812	1929.	612,136	80,802	1939.	491,058	51,070

1 Values at New York prices, up to and including 1907; at St. Louis prices, 1908 to 1914; at average price of all grades, 1915 and later years.

: Computed at yearly average of high and low monthly prices at New York.

Census year ended May 31.

Source: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 786. GOLD AND SILVER PRODUCTION IN CONTINENTAL UNITED STATES, ALASKA, PUERTO RICO, AND PHILIPPINE ISLANDS: 1792 TO 1939

NOTE. The value of gold, in terms of money, being at a fixed rate is not shown in the table. Gold is valued at \$20.67-per fine troy ounce from 1837 through 1933. In 1933, however, varying higher prices prevailed subsequent to the Executive order of Aug. 29. The value of gold production for 1933, as computed by the Bureau of Mines, was \$65,338,000, including \$52,842,000 calculated at legal coinage value (\$20.67-per ounce) plus \$12,485,000 premium calculated at average weighted price (\$25.56 per ounce). On Jan. 31, 1934, the legal value of gold was fixed at \$35 per fine ounce. The value of silver given is commercial value, except for 1921 to June 1923 and beginning 1934 (see footnotes 1 and 2), which has differed materially from coinage value.

[Figures are totals for period or for year]

CALENDAR YEAR OR PERIOD	Gold, 1,000 fine ounces	Silver, 1,000 fine ounces	Silver, 1,000 dollars	CALENDAR YEAR	Gold, 1,000 fine ounces	Silver, 1,000 fine ounces	Silver, value, 1,000 dollars				
1792-1847.	1,187	310	405	1908.	4,574	52,441	28,051				
1848-1850.	4,838	116	152	1909.	4,822	54,722	28,455				
1851-1855.	14,271	194	259	1910.	4,657	67,138	30,855				
1856-1860.	12,384	309	418								
1861-1865.	10,716	28,811	38,674	1911.	4,687	60,399	32,616				
				1912.	4,521	63,767	39,198				
1866-1870.	12,226	49,113	65,261	1913.	4,300	66,802	46,348				
1871-1875.	8,826	121,083	156,270	1914.	4,573	72,455	40,068				
1876-1880.	10,301	157,681	182,506	1915-	4,888	74,961	37,397				
1881-1885.	7,730	182,841	202,807								
1886-1890.	8,678	231,819	227,495	1916-1917.	4,479	74,415	48,953				
					4,051	71,740	59,078				
1891-1895.	9,107	287,057	227,960	1918.	3,321	67,810	66,485				
1896-1900.	15,729	279,544	172,689	1919.	2,919	56,682	63,534				
1901-1905.	19,394	278,798	159,543	1920-	2,476	55,362	60,802				
1906-1910.	22,993	277,333	162,916								
1911-1915.	22,968	338,384	188,626	1921.	2,422	53,052	153,052				
				1922.	2,363	56,240	156,240				
1916-1920.	17,246	326,009	298,852	1923.	2,503	73,335	160,135				
1921-1925.	12,229	314,190	259,162	1924.	2,529	65,407	43,823				
1926-1930.	11,259	293,692	159,829	1925.	2,412	66,155	45,912				
1931-1935.	14,102	156,555	77,948								
				1926.	2,335	62,719	39,136				
1896.	2,568	58,835	39,655	1927.	2,197	60,434	34,266				
1887.	2,775	53,860	32,316	1928.	2,233	58,463	34,201				
1898.	3,118	54,438	32,118	1929.	2,208	61,328	32,688				
1899.	3,437	54,765	32,859	1930.	2,286	50,748	19,538				
1900.	3,830	57,647	35,741								
				1931	2,396	30,932	8,970				
1901.	3,806	55,214	33,128	1932.	2,449	23,981	6,763				
1902.	3,870	55,500	29,415	1933.	2,556	23,003	8,051				
1903.	3,560	54,300	29,322	1934.	3,091	32,725	221,156				
1904.	3,892	57,683	33,456	1935.	3,609	45,924	233,008				
1905.	4,266	55,102	34,222	1936.	4,357	63,812	249,423				
				1937.	4,805	71,942	255,647				
1906.	4,565	56,518	38,256	1938.	5,090	62,665	240,511				
1907.	4,375	56,515	37,300	1939.	5,611	65,120	244,202				
STATE OR TERRITORY	GOLD, 1,000 FINE OUNCES					SILVER, 1,600 FINE OUNCES					Silver, value, 1933 (1,000 dollars)
	1910	1920	1930	1938	1939	1910	1920	1930	1938	1939	dollars
Total.	4,657	2,476	2,286	5,090	5,611	57,138	55,362	50,748	62,665	65,120	44,202
Alaska.	787	413	407	660	671	154	822	392	564	298	202
Arizona.	165	240	149	308	315	2,656	5,432	4,910	7,483	7,436	5,048
California.	989	716	450	1,318	1,425	1,792	1,655	1,434	2,694	2,604	1,768
Colorado.	993	363	218	375	371	8,523	5,167	4,852	7,806	8,206	5,570
Idaho.	50	23	21	98	115	7,027	7,365	9,710	18,397	17,239	11,702
Michigan.						262	512	11	106	102	69
Montana.	180	92	47	188	256	12,283	13,263	8,597	6,762	8,927	6,060
Nevada.	923	175	140	280	351	12,366	7,482	4,179	4,715	4,517	3,066
New Mexico.	23	22	32	42	36	779	700	1,160	1,262	1,262	857
Oregon.	33	50	14	80	91	44	102	10	92	111	75
South Dakota.	260	210	406	592	618	121	88	105	158	171	116
Texas.	(3)	(3)	(3)	(3)	(3)	364	523	469	1,381	1,380	937
Utah.	209	103	209	215	267	10,446	11,755	14,451	10,289	16,844	7,360
Washington.	39	7	4	68	86	205	178	30	311	428	290
Philippine Islands.	7	62	185	845	991	2	22	121	976	1,248	847
Other.	8	(3)	3	21	18	115	296	317	269	347	235

For 1921, 1922, and first half of 1923 prices taken at the figure of \$1 per ounce fixed by the Pittman Act. Valued beginning 1934 at Government's average buying price for domestic product: 1934, 0.64 per fine ounce; 1935, \$0.71875; 1936, \$0.7745; 1937, \$0.7735; 1938, \$0.6464-; and 1939, \$0.6787-; the amount per ounce returned to depositors of newly mined domestic silver.

And less than 500 ounces.

Source: Treasury Department, Bureau of the Mint, Annual Report of the Director.

No. 787.— GOLD AND SILVER FOR USE IN MANUFACTURES AND THE ARTS

YEARLY AVERAGE OR YEAR	GOLD IN THOUSANDS OF DOLLARS!					SILVER IN THOUSANDS OFFINE OUNCES				
	New material				Grand total	New material				Grand total
	United States coin	Bullion and foreign coin	Total	Old mate- rial		United States coin	Bullion and foreign coin	Total	Old mate- rial	
1880.	3,300	5,511	8,811	1,294	10,105	464	2,126	2,590	204	2,794
1881-1885.	3,715	6,991	10,706	1,863	12,568	155	3,685	3,840	315	4,155
1886-1890.	3,500	8,512	12,012	4,029	16,041	155	4,831	4,986	676	5,662
1891-1895.	3,500	7,948	11,448	5,060	16,508	108	6,938	7,046	951	7,997
1896-1900.	3,500	9,399	12,899	4,067	16,965	77	8,937	9,014	1,200	10,214
1901-1905.	3,500	18,218	21,718	6,778	28,496	77	16,447	16,524	3,002	19,526
1906-1910.	3,500	26,941	30,441	7,708	38,149	77	20,807	20,884	3,669	24,553
1911-1915.	2,500	28,121	30,621	9,967	40,588	77	23,438	23,516	6,928	30,444
1916-1920.	1,000	38,831	39,831	22,033	61,864	77	22,011	22,089	9,126	31,214
1921-1925.	1,000	29,321	30,321	29,275	59,596	77	28,538	28,616	8,189	36,805
1926-1930.	1,000	23,747	24,747	30,450	55,197	77	28,059	28,137	10,325	38,461
1931-1935.	420	220,521	220,101	41,389	21,288	77	13,200	13,278	20,353	33,631
1931.	1,000	4,931	5,931	23,227	29,158	77	24,258	24,336	9,346	33,682
1932.	1,000	27,490	26,480	26,595	20,105	77	14,384	14,461	9,797	24,258
1933.	100	25,893	25,793	22,806	17,013	77	10,733	10,811	18,533	29,343
1934.		261,694	261,694	75,927	14,233	77	11,415	11,492	28,186	39,679
1935.		232,461	232,461	58,391	25,929	77	5,212	5,289	35,903	41,192
1936.		22,908	22,908	35,876	32,968	77	19,062	19,139	16,703	35,843
1937.		3,214	3,214	36,408	39,622	77	27,650	27,727	23,565	51,292
1938.		2,324	2,324	30,481	30,157	77	20,104	20,181	18,439	38,620
1939.		7,461	7,461	31,328	38,789	77	44,536	44,613	24,972	69,585

1 Value prior to calculated on basis of \$20.67+ per fine ounce; in 1934 and thereafter, \$35.00 per fine ounce.
1991 Excess of return from industry over new material issued to industry.

No. 788.—SILVER—PRICES, LONDON AND NEW YORK, AND VALUE IN THE DOLLAR: 1835 TO 1939

NOTE. The London price is converted to the basis of the ounce 1,000 fine and converted to American money at par of exchange through 1930; thereafter, at the current rate of exchange. London quotations are in depreciated currency after Sept. 21, 1931, also in some prior year periods, including 1918 to 1924. New York quotations are in depreciated currency after early March 1933. The commercial ratio is computed on the basis of London quotations through 1914; thereafter, on the basis of the New York average price. Beginning with 1934 the monetary value gold \$35.00 per ounce as compared with \$20.67 in previous years. The value of fine silver (371.25 grains) the dollar is computed on the basis of London quotations through 1917; thereafter, on the basis of the New York average price.

[All figures, except commercial ratio to gold, "expressed in dollars]

CALENDAR YEAR	Lon- don, per fine ounce	NEW YORK, PER FINE OUNCE				Com- mer- cial ratio to gold	Value of silver in dol- lar	CALENDAR YEAR	Lon- don, per fine ounce	NEW YORK, PER FINE OUNCE				Com- mer- cial ratio to gold	Value of silver in dol- lar
		Aver- age	High	Low						Aver- age	High	Low			
1835.	1.308				15.80			1913.	0.605	0.612	0.651	0.580	34.19		0.468
1840.	1.323				15.62	1.023		1914.	.553	.563	.609	.490	37.37		.428
1845.	1.298				15.92	1.004		1915.	.519	.511	.580	.478	40.48		.401
1850.	1.316				15.70	1.018		1916.	.686	.672	.791	.573	30.78		.531
1855.	1.344				15.38	1.039		1917.	.895	.840	1.165	.731	24.61		.692
1860.	1.352				15.29	1.045		1918.	1.042	.984	1.019	.889	21.00		.761
1865.	1.333				15.44	1.035		1919.	1.250	1.121	1.383	1.014	18.44		.867
1870.	1.328				15.57	1.027		1920.	1.346	1.019	1.379	.604	20.28		.788
1875.	1.242	1.239	1.261	1.210	16.64	.961		1921.	805	.631	.738	.532	32.76		.488
1880.	1.145	1.139	1.150	1.113	18.05	.886		1922.	.754	.679	.742	.629	30.43		.525
1885.	1.065	1.054	1.095	1.028	19.41	.824		1923.	.700	.652	.690	.629	31.69		.505
1890.	1.046	1.053	1.205	.958	19.75	.809		1924	.745	.671	.724	.630	30.80		.519
1895.	.654	.663	.690	.600	31.60	.506		1925.	.703	.694	.782	.668	29.78		.537
1898.	.590	.591	.623	.551	35.03	.456		1926.	.629	.624	.689	.518	33.11		.483
1899.	.602	.605	.648	.586	34.36	.465		1927	.571	.567	.603	.542	36.47		.438
1900.	.620	.621	.658	.598	33.33	.480		1928	.586	.585	.639	.568	35.34		.452
1901	.596	.597	.645	.548	34.68	.461		1929.	.536	.533	.578	.468	38.78		.412
1902.	.528	.528	.569	.474	39.15	.408		1930.	.387	.385	.472	.311	53.74		.298
1903.	.543	.542	.624	.475	38.10	.420		1931	.292	.290	.376	.261	71.25		.224
1904.	.579	.578	.625	.534	35.70	.448		1932.	.281	.282	.313	.246	73.29		.218
1905.	.610	.610	.665	.556	33.87	.472		1933.	.346	.350	.453	.248	59.06		.271
1906.	.677	.674	.724	.631	30.54	.524		1934.	.481	.483	.561	.421	72.49		.373
1907.	.662	.660	.710	.528	31.24	.512		1935.	.639	.646	.813	.501	54.19		.500
1908.	.535	.535	.589	.483	38.64	.414		1936.	.449	.454	.501	.451	77.09		.351
1909.	.520	.522	.545	.508	39.74	.402		1937.	.447	.452	.471	.451	77.44		.350
1910.	.541	.542	.576	.508	38.22	.418		1938.	.430	.435	.451	.431	80.39		.337
1911.	.539	.540	.575	.521	38.33	.417		1939.	.408	.394	.431	.351	88.84		.305
1912.	.615	.620	.656	.553	33.62	.475	IF		1						

Source of tables 787 and 788: Treasury Dept., Bureau of the Mint, Annual Report of the Director.

No. 789. COKE - PRODUCTION, EXPORTS, AND IMPORTS: 1896 TO 1939

YEARLY AVERAGE OR YEAR	PRODUCTION IN THOUSANDS OF SHORT TONS (2,000 POUNDS)			By-product ovens, percent of total	Production (value) in thousands of dollars	EXPORTS Thousand tons (2,000 pounds)	IMPORTS! of short tons (2,000 pounds)
	Total	Beehive ovens	By-product ovens				
1806-1900.	16,265	15,741	524	3.2	30,293	265	54
1901-1905.	25,673	23,566	2,107	8.2	58,581	519	150
1906-1910.	36,848	31,296	5,552	15.1	91,068	904	159
1911-1916.	40,394	29,000	11,394	28.2	103,739	897	98
1916-1920.	52,429	27,733	24,696	47.1	620,799	1,182	34
1921-1925.	42,985	11,026	31,959	74.4	251,967	734	99
1926-1930.	53,724	6,687	47,037	87.6	252,212	1,027	171
1931-1935.	29,965	927	29,038	96.9	145,035	716	171
1923.	56,978	18,380	37,598	66.0	373,497	1,237	85
1924.	44,270	10,286	33,984	76.8	244,042	660	83
1925.	51,267	11,355	39,912	77.9	262,559	954	202
1926.	56,866	12,489	44,377	78.6	307,773	987	285
1927.	51,092	7,207	43,885	85.9	262,321	807	169
1928.	52,806	4,493	48,313	91.5	252,834	1,098	148
1929.	59,884	6,472	53,412	89.2	278,995	1,238	120
1930.	47,972	2,776	45,196	94.2	209,137	1,004	133
1931.	33,484	1,128	32,356	96.6	161,609	754	100
1932.	21,789	652	21,137	97.0	104,337	630	117
1933.	27,589	911	26,678	96.7	122,951	638	161
1934.	31,822	1,029	30,793	96.8	159,426	943	161
1935.	35,141	917	34,224	97.4	176,853	614	317
1936.	46,275	1,706	44,569	96.3	232,374	670	330
1937.	52,375	3,165	49,211	94.0	251,004	527	286
1938.	32,496	837	31,658	97.4	167,182	487	135
1939.	44,327	1,444	42,882	96.7	212,884	590	142

1 Before 1934, figures represent general imports; thereafter, imports entered for consumption.

No. 790. COKE BY-PRODUCT AND BEEHIVE PRODUCTION, BY STATE: 1915 TO 1939

[Figures in thousands of short tons (2,000 pounds)]

	1915	1920	1925	1930	1935	1936	1937	1938	1939
BY-PRODUCT									
Total.	14,073	30,834	39,912	45,196	34,224	44,569	48,211	31,658	42,882
Alabama.	2,070	3,124	4,582	3,987	1,994	3,090	4,260	3,378	3,855
Colorado.		517	490	379	207	337	487	187	398
Illinois.	1,687	2,137	3,012	3,576	1,669	2,083	2,999	1,735	1,884
Indiana.	2,768	4,554	5,142	4,984	3,768	5,450	5,467	2,905	4,878
Maryland.	313	682	1,019	1,169	930	1,217	1,514	1,105	1,579
Massachusetts.	504	488	535	863	1,006	1,108	1,131	1,019	1,057
Michigan.	0	1,393	1,751	2,604	2,482	2,294	2,284	1,743	2,431
Minnesota.	128	675	518	641	430	522	705	540	497
New Jersey.	269	726	904	919	917	1,008	1,015	1,007	1,003
New York.	684	1,040	2,220	3,850	4,099	4,836	4,947	3,945	4,468
Ohio.	666	5,615	7,105	6,163	5,101	6,242	6,738	3,700	6,136
Pennsylvania.	3,092	7,730	9,853	12,529	8,078	12,571	13,701	7,119	10,994
West Virginia.	141	447	1,056	1,479	1,604	1,703	1,818	1,347	1,598
All other States.	1,749	1,706	1,725	2,051	1,939	2,110	2,147	1,928	2,104
BEEHIVE									
Total.	27,508	20,511	11,355	2,776	917	1,706	3,165	837	1,444
Pennsylvania.	22,581	15,908	9,574	2,011	564	1,213	2,559	482	1,126
Ohio.	19	87	156						
West Virginia.	1,250	1,381	490	422	155	231	279	154	88
Alabama.	1,001	896	88						
Kentucky.	285	273	(¹)						
Tennessee.	234	163	128	25	3	4	15	6	
Virginia.	630	1,028	422	220	138	191	240	134	165
Colorado.	671	273	155	79	40	61	64	55	57
Utah.	0	0	146	7	6	6	7	8	8
All other States.	887	509	196	12	2	(2)			

1 Included under "all other States." 2 Less than 500 tons.

Source of tables 789 and 790: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 791. COAL PRODUCTION, 1821 TO 1939, AND BY STATES, 1911 TO 1939

NOTE.—Quantities in thousands of short tons (2,000 pounds); values in thousands of dollars. Includes coal consumed at mines. Figures for anthracite relate to Pennsylvania output only; those for bituminous relate to continental United States and Alaska. Bituminous coal includes brown coal and small amounts of anthracite outside Pennsylvania. Comparatively little coal is held in stock at the mines

YEAR OR YEARLY AVERAGE	QUANTITY			YEAR	QUANTITY			VALUE	
	Total	Anthracite	Bituminous		Total	Anthracite	Bituminous	Anthracite	Bituminous
1821-1830.	140	66	75	1917.	651,402	99,612	551,791	283,651	1,249,273
1831-1840.	1,032	722	310	1918.	578,212	98,826	579,386	336,480	1,491,810
1841-1850.	4,535	2,697	1,837	1919.	553,952	88,092	165,860	364,927	1,160,616
1851-1860.	12,513	7,645	4,868	1920.	658,265	89,598	568,667	434,252	2,120,933
1861-1865.	20,538	11,142	9,396	1921-1.	506,395	90,473	415,922	452,305	1,199,984
1866-1870.	31,706	16,281	15,425	1922.	476,951	54,683	422,268	273,700	1,274,820
1871-1875.	52,179	23,407	28,773	1923.	357,904	93,339	564,565	506,787	1,514,621
1876-1880.	62,261	25,800	36,461	1924-1.	571,613	37,927	483,687	477,231	1,062,626
1881-1885.	107,291	36,198	71,093	1925.	581,870	61,817	520,053	327,665	1,060,402
1886-1890.	138,398	43,952	94,446	1926.	657,804	84,437	573,367	474,164	1,183,417
1891-1895.	178,822	53,405	125,416	1927.	597,859	80,096	517,763	420,942	1,020,652
1896-1900.	227,123	55,625	171,498	1928-1.	576,093	75,348	500,745	303,638	933,774
1901-1905.	339,357	36,854	272,503	1929.	608,817	73,828	534,989	385,643	952,781
1906-1910.	454,555	31,142	373,413	1930-1.	536,911	69,385	467,526	354,574	795,483
1911-1915.	529,189	89,233	439,956	1931-1.	441,735	59,646	382,089	296,355	588,895
1916-1920.	626,386	92,741	533,645	1932.	359,565	49,855	309,710	222,375	406,677
1921-1925.	558,947	77,648	481,299	1933.	383,172	49,541	333,631	206,718	445,788
1926-10301-	595,497	76,619	518,878	1934-1.	416,536	57,168	359,368	244,152	628,383
1931-1935.	403,108	53,674	351,434	1935-1.	124,532	52,159	372,373	210,131	658,063
1913.	569,960	91,525	478,435	1936.	493,668	54,580	439,088	227,004	770,955
1914.	513,525	90,822	422,704	1937-1.	197,387	51,856	445,531	197,599	2864,042
1915.	531,619	88,995	442,624	1938.	394,644	46,099	348,545	180,600	2678,653
1916.	590,098	87,578	502,520	1939.	444,552	51,487	393,065	187,175	2732,534
STATE	1911-1915	1916-1920	1921-1925	1926-1930	1931-1935	1936	1937	1938	1939
Total quantity.	529,189	626,386	558,947	595,497	405,108	493,668	497,387	394,644	444,552
Anthracite (Pa.).	89,233	92,741	77,648	76,619	53,674	54,580	51,856	46,099	51,487
Bituminous.	439,956	533,645	481,299	518,878	351,434	439,088	445,531	348,545	393,065
Alabama.	15,864	17,834	18,097	18,380	9,252	12,229	12,440	11,062	11,995
Arkansas.	1,986	1,980	1,261	1,579	1,012	1,623	1,511	1,197	42,300
Colorado.	9,433	11,595	10,049	9,665	5,711	6,812	7,187	5,663	5,890
Illinois.	58,320	78,255	68,523	57,310	40,198	50,927	51,602	41,912	46,450
Indiana.	16,060	25,515	21,677	18,467	14,386	17,822	17,765	14,759	16,650
Lowa.	7,442	7,571	4,952	3,879	3,492	3,961	3,637	3,103	3,056
Kansas.	6,811	6,556	3,927	3,215	2,270	2,944	2,893	2,654	56,195
Kentucky.	18,380	30,108	43,743	61,116	38,130	47,522	47,086	38,545	42,805
Maryland.	4,549	4,158	2,033	2,700	1,654	1,704	1,549	1,281	1,468
Michigan.	1,271	1,301	976	705	492	626	562	494	434
Missouri.	4,048	5,086	3,011	3,538	3,624	3,985	4,091	3,436	()
Montana.	2,972	4,008	2,881	3,139	2,396	2,988	2,965	2,732	2,810
New Mexico.	3,618	3,728	2,772	2,612	1,338	1,507	1,715	1,239	1,206
North Dakota.	506	787	1,221	1,622	1,750	2,215	2,251	2,050	2,089
Ohio.	28,553	40,609	31,590	21,111	19,151	24,110	25,178	18,591	19,632
Oklahoma.	3,720	4,292	2,741	3,346	1,368	1,540	1,600	1,245	(7).
Pennsylvania	157,229	168,532	133,721	137,038	86,592	109,887	111,002	77,705	92,190
Tennessee.	5,288	6,208	5,078	5,544	4,062	5,108	5,213	4,472	5,280
Texas.	2,201	1,980	1,084	1,107	738	843	910	879	810
Utah.	2,999	4,693	4,593	4,683	2,846	3,247	3,810	2,947	3,340
Virginia.	7,924	10,158	10,648	12,521	8,923	11,662	13,795	12,283	13,230
Washington.	3,261	3,576	2,626	2,513	1,555	1,812	2,002	1,567	1,600
West Virginia.	69,353	86,369	97,044	136,315	95,748	117,926	118,646	93,288	107,938
Wyoming.	6,907	8,555	5,812	6,526	4,545	5,781	5,918	5,204	5,383
Other States and Alaska.	259	190	239	246	201	217	203	237	230

Exclusive of product of wagon mines. 2 Estimated from various sources; includes selling
: Includes with Kansas. - Includes Oklahoma. 5 Includes Missouri, expenses.
7 Included with Arkansas.

Source: Department of the Interior, Bureau of Mines and Bituminous Coal Division; Minerals Yearbook and Bituminous Coal Tables, 1938-1939.

No. 792.—COAL—EXPORTS, IMPORTS, AND BUNKER COAL LADEN ON VESSELS IN FOREIGN TRADE: 1891 TO 1939

[Quantities in thousands of long tons (2,240 pounds); values in thousands of dollars]

YEARLY AVERAGE OR YEAR	TOTAL EXPORTS ¹		ANTHRACITE EXPORTS		BITUMINOUS EXPORTS		TOTAL IMPORTS		BUNKER COAL	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
1891-18953-1896-19003	3,028	10,012	1,128	4,029	1,900	5,081	1,237	3,984		
1901-19053-1906-1916 +	4,710	13,300	1,459	6,268	3,241	7,032	1,403	3,831		
1911-1915.	7,750	24,254	1,846	8,782	5,903	15,472	2,287	6,376		
1916-1920.	12,018	36,805	2,646	13,034	9,372	23,770	1,727	4,530	55,638	518,291
1921	19,132	68,362	3,753	19,624	15,379	38,738	1,437	4,069	7,289	23,890
1922.	27,160	151,356	4,647	32,960	22,513	118,396	1,258	5,788	7,389	43,-975
1923.	24,829	168,222	4,176	45,625	20,653	122,597	1,131	7,457	7,548	52,278
1924.	13,449	91,242	2,366	25,351	11,083	55,892	4,727	28,250	4,120	27,913
1925.	23,700	154,124	4,545	49,577	19,155	104,547	1,949	12,249	4,547	31,470
1926.	18,855	111,039	3,587	40,068	15,268	70,971	478	3,019	3,983	22,883
1927.	18,429	100,163	2,838	31,761	15,591	68,403	879	5,846	4,344	23,398
1928.	35,091	196,905	3,598	41,086	31,493	155,819	1,202	9,301	6,907	38,025
1929.	19,051	104,257	2,969	32,928	16,082	71,329	597	3,284	4,076	22,077
1930.	17,411	92,121	2,979	32,657	14,433	59,464	831	4,989	3,834	20,258
1931.	18,603	98,310	3,041	32,569	15,562	65,742	877	5,486	3,827	19,575
1932.	16,455	83,694	2,278	24,509	14,176	59,186	818	5,525	3,122	15,697
1933.	12,416	60,467	1,588	17,062	10,827	43,395	755	5,160	1,960	9,639
1934.	9,033	41,752	1,164	12,064	7,870	29,688	709	4,420	1,204	5,534
1935.	8,992	37,611	924	9,040	8,069	28,572	6584	63,432	1,175	5,241
1936.	10,863	51,464	1,159	11,082	9,704	40,382	8593	84,190	1,179	5,798
1937.	10,135	48,424	1,436	13,186	8,699	35,238	6690	64,276	1,407	7,338
1938.	11,012	52,381	1,498	13,775	9,513	38,606	6791	64,570	1,448	7,463
1939.	13,445	63,617	1,709	14,796	11,736	48,821	6584	62,946	1,635	8,840
1939.	11,071	52,739	1,704	14,635	6,366	38,105	539	63,267	1,208	6,557
1939.	12,661	62,598	2,313	19,920	10,349	42,778	583	63,376	1,318	7,131

¹ Does not include fuel or bunker coal laden on vessels engaged in the foreign trade.

² Including lignite, slack, and culm. ³ Fiscal years ended June 30.

Average for period July 1, 1905, to Dec. 31, 1910.

Figures do not include coal laden on vessels on the Great Lakes in 1906, 1907, and 1908. for consumption; general imports prior to 1933.

No. 793. COAL SHIPMENTS, VALUE, AND EMPLOYMENT IN MINES: 1890 TO 1939

CALENDAR YEAR	THOUSAND TONS (2,000 POUNDS)				Average value per ton at mines (C)	Average number of men employed	Average number of days worked	AVERAGE TON-NAGE PER MAN-		Per cent mined by machine	Capacity of mines' (million tons)
	Loaded for ship-ment	Sold locally	Used by mines	Made into coke at mines				Per day	Per year		
ANTHRACITE											
1890.	41,011	2,001	3,457		\$1.43	126,000	200	1.85	369		71
1895.	52,093	1,315	4,591		1.41	142,917	196	2.07	406		90
1900.	50,710	1,208	5,550		1.49	144,206	166	2.40	398		105
1905.	69,053	1,571	7,036		1.83	165,406	215	2.18	470		110
1910.	73,623	2,021	8,841		1.90	169,497	229	2.17	498		112
1915.	76,906	2,092	9,997		2.07	176,552	230	2.19	504	1.5	118
1920.	76,844	2,897	9,858		4.85	145,074	271	2.28	618	1.1	101
1925.	53,768	2,885	5,164		5.30	160,312	182	2.12	386	1.6	103
1930.	61,202	3,144	5,038		5.11	150,804	208	2.21	460	2.0	90
1935.	46,538	2,875	2,746		4.03	103,269	189	2.68	505	3.5	84
1937.	46,203	2,981	2,672		3.81	99,085	189	2.77	523	3.8	83
1933.	41,064	2,722	2,313		3.92	96,417	171	2.79	478	3.4	82
1939.	45,992	3,081	2,414		3.64	593,000	(4)	(4)	(9)	3.7	(4)
BITUMINOUS											
1890-	87,373	7,008	1,607	15,332	.99	192,204	226	2.56	579	65.3	151
1895.	106,287	8,340	2,086	18,404	.86	239,962	194	2.96	563	711.9	216
1900.	173,072	7,868	3,740	27,635	1.04	304,375	234	2.98	697	24.9	281
1905.	255,201	10,639	7,007	42,412	1.06	460,620	211	3.24	684	32.8	455
1910-	342,969	12,287	9,668	52,187	1.12	555,533	217	3.46	751	41.7	592
1915.	379,877	12,354	9,799	40,595	1.13	557,456	203	3.91	794	55.0	671
1920-	504,873	21,289	11,896	30,608	3.75	639,547	220	4.00	881	59.8	798
1925.	477,173	21,351	5,776	15,753	2.04	588,493	195	4.52	884	70.6	823
1930.	437,399	22,121	3,993	4,014	1.70	493,202	187	5.06	948	77.5	770
1935.	338,069	29,734	3,103	1,468	1.77	462,403	179	4.50	805	78.8	640
1937.	399,238	37,763	3,052	4,884	1.94	491,864	193	4.69	906	C.	710
1938.	312,239	32,453	2,493	1,360	1.95	441,333	162	4.89	790	87.5	603

¹ Figures for bituminous coal represent average value per ton less selling expense (Bur. of Mines series) prior to 1937; thereafter, average gross realization including selling expense (Bit. Coal Div. series).

Calculated at 303.5 working days in the anthracite field and 308 working days in the bituminous field. : Of 2,000 pounds. ² Not available. ³ Estimate by Pa. Dept. Mines. ⁴ 1891. ⁵ 1896.

Sources: Table 792, Dept. Commerce, Bur. of Foreign and Domestic Commerce; annual report, Foreign Commerce and Navigation, U. S. Dept. of Commerce. Also published currently in Monthly Summary of Foreign Commerce of the U. S., Table 35, U. S. Dept. of the Interior, Bur. of Mines, and Bituminous Coal Division; Minerals Yearbook, and Bituminous Coal Tables, 1938-39.

No. 7794. BITUMINOUS COAL CONSUMPTION, BY CLASS OF CONSUMER: 1889 TO 1939

	1889	1899	1909	1919	1929	1936	1937	1938	1939 1
Consumption (million tons of 2,000 lbs.), total.	95.8	190.3	370.3	481.7	619.6	422.8	428.5	3447	378.0
Colliery fuel.	1.4	3.1	9.5	11.1	4.7	3.2	3.1	2.5	2.8
Locomotive fuel, all steam roads.	26.5	53.4	106.0	119.7	118.9	281.1	282.7	268.8	273.8
Bunkers, vessels in foreign trade.	1.9	3.8	6.8	8.2	4.3	1.6	1.8	1.4	1.5
Coke ovens, beehive by-product	16.0	30.2	59.4	65.6	86.8	65.9	74.5	46.6	63.5
Electric public utilities and	4.0	7.6	18.7	35.1	44.9	42.0	44.8	40.2	46.2
All other uses 5-	50.0	92.2	169.9	242.0	265.0	228.9	221.7	185.2	190.1
Percent of total consumption.	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Colliery fuel.	1.5	1.6	2.6	2.3	.9	.8	.7	.7	.7
Locomotive fuel, all steam roads.	27.7	28.1	28.6	224.9	221.9	219.2	219.3	220.0	219.5
Bunkers, vessels in foreign trade.	2.0	2.0	1.9	1.7	.8	.4	.4	.4	.4
Coke ovens, beehive and by-product	16.7	15.9	16.0	13.6	16.7	15.6	17.4	13.5	16.8
Electric public utilities.	4.0	4.0	5.0	7.3	8.6	9.9	10.4	11.7	12.2
All other uses.	52.1	48.4	45.9	50.2	51.0	54.1	51.7	53.7	50.3

2 Class I roads.
: Preliminary.
includes electric central stations and street railways through 1919. Figures include a small amount of anthracite consumed. 4 Not available.
5 Obtained by subtracting known items from total consumption. Includes general manufacturing, domestic, and miscellaneous uses.

Source: Department of the Interior, Bureau of Mines and Bituminous Coal Division; Minerals Yearbook and Bituminous Coal Tables, 1938-39 (data were assembled from various original sources).

No. 795. STRIKES IN ANTHRACITE AND BITUMINOUS COAL MINING INDUSTRIES, BY MAJOR ISSUES INVOLVED: 1928 TO 1939

NOTE. Strikes involving fewer than 6 workers or lasting less than 1 day are included. Figures are for strikes beginning in years shown. For combined statistics covering strikes at all industries, see table 391

		NUMEER OF STRIKES				NUMBER OF WORKERS INVOLVED				NUMBER OF MAN-DAYS IDLE			
		Major issues				Major issues				Major issues			
COAL-MINING INDUSTRY													
AND YEAR	Total	Wages and hours	Union or-gani-zation	Mis-cel-laneous	Total	Wages and hours	Union or-gani-zation	Mis-cel-laneous	Total	Wages and hours	Union or-gani-zation	Mis-cel-laneous	
Anthracite:													
1928.	41		10	27	78,424	4,059	12,581	61,784	573,404	18,426	93,039	461,939	
1929.	32		8	22	57,276	1,022	8,757	47,497	239,206	3,685	14,685	220,836	
1930.	18	E	8	9	20,036	1,580	6,848	11,608	117,338	3,160	29,505	84,673	
1931.	14			6	61,416	21,675	2,151	37,590	655,203	250,633	17,610	386,960	
1932.	18	6		10	19,592	16,105	333	3,154	167,036	125,175	9,570	32,291	
1933.	27	9	a	16	96,297	8,559	3,300	84,438	1,012,787	103,026	42,100	867,661	
1934.	38	10		27	105,296	11,130	313	93,853	948,767	135,009	93,981	819	
1935.	33	7		25	50,191	9,517	1,100	39,574	788,724	75,604	41,800	671,320	
1936.	26			15	23,073	3,596	13,005	6,472	264,545	43,043	153,083	68,419	
1937	32	13		18	59,600	24,902	480	34,218	606,656	144,548	15,360	446,748	
1938	17			10	26,416	2,316	5,325	18,775	357,854	35,191	181,577	141,086	
1939.	25	5		17	22,664	2,813	1,057	18,794	77,909	3,773	15,271	58,865	
Bituminous:													
1928.	30	10	2	18	63,279	51,154	459	7,950	40,025	802,745	997	77,250	
1929.	58	34	11	13	18,093	12,594	2,253	3,246	181,611	138,010	21,296		
1930.	52	32	7	13	26,841	14,786	7,189	4,866	882,599	414,044	385,826	22,325	
1931.	57	27	18	12	52,392	7,944	37,105	7,343	1,542,506	08,549	1,250,061	183,399	
1932.	43	25		11	63,619	52,123	8,792	27,045	1,386,507	375	873,252		
1933.	102	38	30	34	142,242	17,488	111,413	13,341	2,211,375	472,521	1,644,661	94,299	
1934.	78	21	23	34	109,827	46,309	43,741	19,771	1,562,358	981,282	473,735	107,341	
1935.	42	10	12	20	420,574	403,790	3,174	361	1,029,714	402,80	35	24,178	
1936.	38	51	9	24	19,648	1,378	2,934	15,336	533,314	356,058	43,431	83,925	
1937.	54	11	21	22	99,253	15,913	27,878	35,402	1,242,511	1,065,62	00,753	475,650	
1938.	27	6	10	11	9,505	2,196	2,324	4,985	132,855	8,422	24,151	1100,282	
1939.	25	2	11	12	355,383	1,102	346,524	7,757	7,302,556	22,243	7,191,984	88,329	

Source: Department of Labor, Bureau of Labor Statistics; Bulletin No. 651, Strikes in the United States, 1880-1936, annual report, Analysis of Strikes; and official records. Figures are published currently in part in Monthly Labor Review.

No. 796.-COAL FOR HOUSEHOLD USE-- RETAIL PRICES, BY CITIES: 1929 TO 1939

NOTE.—Prices (in dollars) of coal per ton of 2,000 pounds unless otherwise specified. Bituminous prices represent Eastern, except those in italics, which are Western

CITY	PENNSYLVANIA ANTHRACITE, CHEST-NUT					BITUMINOUS, HIGH VOLATILE, EGG			
	1929	1932	1937	1938	1939				
	December 15					June 15	Dec. 15	June 15	Dec. 15
New England:									
Boston, Mass.	15.50	13.50	12.72	13.35	13.00	29.19	29.16	29.20	29.51
Bridgeport, Conn.	15.50	12.88	12.10	12.10	11.60				
Fall River, Mass.	16.25	14.25	13.75	13.50	13.50	28.80	29.00	29.00	29.40
Manchester, N. H.	17.00	14.83	14.19	14.50	13.88	210.50	210.50	210.50	210.50
New Haven, Conn.	15.25	14.00	13.00	13.00	13.00				
Portland, Maine.	16.80	15.60	13.25	12.50	13.00	26.70	26.70	26.67	28.21
Providence, R. I.	16.00	14.50	13.38	13.78	13.22	27.85	27.92	27.76	28.10
Middle Atlantic:									
Buffalo, N.	13.32	12.21	11.95	11.85	11.20	26.13	26.50	26.50	26.50
Newark, N. J.	13.46	12.00	11.25	11.25	10.20				
New York, N. Y.	14.08	12.29	11.01	11.25	10.46	27.47	27.45	27.32	27.33
Philadelphia, Pa.	4 14.50	11.50	10.11	10.55	9.95				
Pittsburgh, Pa.	15.00	13.00	12.69	12.75	12.56	4.04	4.38	4.41	4.59
Rochester, N. Y.	14.25	13.13	11.93	11.92	11.44				
Scranton, Pa.	9.92	9.00	7.88	7.81	7.40				
East North Central:									
Chicago, Ill.	16.40	15.50	15.05	15.25	14.49	9.10	9.47	8.42	9.55
Cincinnati, Ohio						5.57	6.11	5.40	6.07
Cleveland, Ohio	14.80	13.44	13.69	13.61	13.39	7.18	7.25	7.13	7.30
Columbus, Ohio						5.94	6.05	6.06	6.30
Detroit, Mich.	15.50	13.17	12.36	12.28	11.83	6.78	6.84	6.72	6.91
Indianapolis, Ind.						6.67	6.93	6.61	6.71
Milwaukee, Wis.	15.85	14.80	13.95	13.55	13.40	8.17	8.14	8.31	8.51
Peoria, Ill.						4.46	4.12	3.93	4.08
Springfield, Ill.						4.65	4.65	4.69	4.62
West North Central:									
Kansas City, Mo.	712.55	710.63	710.83	710.07	79.93	86.25	86.15	86.07	86.28
Minneapolis, Minn.	17.85	17.10	15.50	15.75	15.25	9.55	9.77	3.91	9.90
Omaha, Nebr.			7112.58	7112.00	711.85	8.54	8.68	8.50	8.88
St. Louis, Mo.	16.45	15.22	14.66	14.28	14.14	5.31	5.77	5.23	5.90
St. Paul, Minn.	17.85	17.10	15.47	15.75	15.25	8.55	9.77	3.58	9.90
South Atlantic:									
Atlanta, Ga.						6.17	7.50	6.25	7.50
Baltimore, Md.	13.75	12.75	10.20	16.83	9.95	7.00	7.06	7.23	7.24
Charleston, S. C.						9.50	9.50	9.50	9.50
Jacksonville, Fla.						811.00	812.00	811.00	812.00
Norfolk, Va.	14.00	13.00	13.00	13.00	13.00	7.50	7.50	7.50	7.50
Richmond, Va.	15.00	13.50	12.67	12.92	12.70	7.53	8.13	7.68	8.21
Savannah, Ga.						9.00	9.10	9.05	9.04
Washington, D. C.	15.23	14.15	12.79	13.09	12.35	8.25	8.40	8.25	8.62
East South Central:									
Birmingham, Ala.						5.99	6.90	5.50	5.82
Louisville, Ky.						5.59	5.69	5.59	5.74
Memphis, Tenn.						7.88	7.88	7.88	7.88
Mobile, Ala.						8.52	9.52	8.21	9.07
West South Central:									
Dallas, Tex.	715.50	14.00	712.83	712.83	12.83	810.63	810.50	810.38	810.50
Houston, Tex.			715.00	714.50	14.50	810.68	811.50	811.25	811.75
Little Rock, Ark.	713.50	710.25	79.69	8.67	78.42	98.80	98.55	98.51	98.71
New Orleans, La.			715.60	715.10	714.28	9.88	10.71	9.69	10.71
Mountain:									
Butte, Mont.						10.88	11.13	11.25	11.25
Denver, Colo.	1014.75	1014.50	115.81	115.81	115.81	8.10	7.86	7.60	7.56
Salt Lake City, Utah						37.62	37.52	37.62	37.37
Pacific:									
Los Angeles, Calif.						516.66	816.91	816.57	816.57
Portland, Oreg.						813.80	13.18	813.19	813.10
San Francisco, Calif.	1226.00	1225.00	1223.95	1223.69	1223.86	817.51	817.51	817.51	817.51
Seattle, Wash.						11.01	11.36	11.26	11.22

Preliminary. 2 Run of mine, volatile. 3 Prices include sales tax beginning 1937.
 Price is per ton of 2,240 pounds. low Price includes sales tax.
 Beginning 1937, prices are on basis 1 ton deliveries; for earlier years, averages of 1 or more.
 Arkansas, egg or turnace. Lump. Lump, low volatile.
 Colorado, furnace, 1 and 2 mixed. 2 Colorado, egg. — New Mexico, egg.

Source: Dept. of Labor, Bur. of Labor Statistics; published in Retail Prices for February 1940 and special releases.

No. 797.— COAL AVERAGE RETAIL PRICES AND INDEXES FOR LARGE CITIES
COMBINED: 1931 TO 1940

YEAR AND MONTH	AVERAGE PRICE PER TON OF 2,000 POUNDS			INDEX OCTOBER 1922-SEPTEMBER 1925=100		
	Bituminous (un-weighted average, 38 cities)	Pennsylvania anthracite weight- ed average, 25 cities		Bituminous (un-weighted average, 38 cities)	Pennsylvania anthracite (weight- ed. average, 25 cities)	
		Stove	Chestnut		Stove	Chestnut
1931.	\$8.33	\$13.68	\$13.65	86.2	97.1	97.3
1932.	7.71	12.55	12.45	79.7	89.2	88.7
1933.	7.65	12.12	11.93	79.1	86.2	85.0
1934.	8.26	12.18	11.92	85.4	86.6	85.0
1935.	8.29	11.38	11.14	85.7	80.9	79.4
1936.	8.42	11.74	11.60	87.1	83.5	82.7
1937.	8.58	11.05	11.19	88.4	78.5	79.6
1938.	8.61	10.96	11.11	88.7	77.9	79.1
1939-1938	8.52	10.79	10.84	87.7	76.7	77.2
June.	8.38	10.52	10.63	86.4	74.8	75.7
December.	8.68	11.37	11.49	89.3	80.8	81.8
1939						
June.	8.28	10.47	10.55	85.2	74.4	75.1
December	8.68	10.84	10.83	89.2	77.0	77.1
1940						
March.	8.65	11.31	11.37	89.0	80.4	81.0
June 1	8.15	11.02	11.04	83.4	78.3	78.6

1 Preliminary.

No. 798. — NATURAL GAS AND NATURAL GASOLINE PRODUCTION, 1906 TO 1939,
AND BY STATES, 1925 TO 1939

NOTE. — Quantities of gas in millions of cubic feet, of gasoline in thousands of gallons; values in thousands of dollars. Production figures for gas refer only to that marketed, in addition to which considerable quantities are used by producers, and large quantities are wasted or lost. Values given are at the point of consumption. Consumption figures by States differ greatly from production figures by reason of interstate transportation

YEARLY AVERAGE	NATURAL GAS PRODUCED AND MARKETING		NATURAL GASOLINE		YEAR	NATURAL GAS PRODUCED AND MARKETING		NATURAL GASOLINE	
	Quantity	Value	Gas treated	Production		Quantity	Value	Gas treated	Production
OR YEAR	Quantity	Value	Gas treated	Production	OR YEAR	Quantity	Value	Gas treated	Production
1906-1910-	437,057	57,940			1931.	1,686,436	392,816	1,790,110	831,918
1911-1915-	575,708	88,492	11,602	30,317	1932.	1,555,990	384,032	1,400,750	523,500
1916-1920-	762,681	154,590	412,787	268,038	1933.	1,555,474	368,540	1,551,464	420,000
1921-1925.	947,419	229,002	820,445	762,151	1934.	5770,721	305,378	1,776,172	536,300
1926-1030-	1,637,540	362,238	1,613,811	1,852,490	1935.	1,916,595	5425,374	1,822,000	1,651,986
1931-1935-	1,697,043	394,148	1,687,902	1,592,613	1936.	2,167,802	147,618	338,815	000/1,796,340
1928.	1,568,139	303,726	1,473,431	814,034	1937.	2,407,620	523,364	1,088,002	065,434
1929.	1,017,693	#52LXX425X6X230			1938.	2,255,922	022,092	95,921	56,574
1930.	1,943,421	GCRZRSKTRZPDWILSRN			1939	2,435,000	15130,DFX05	12902,092	6571 94,300
STATE	NATURAL GAS PRODUCED AND MARKETING					NATURAL GAS CON-SUMED	NATURAL GASOLINE PRODUCED		
	1925	1930	1935	1937	1938		1938	1937	1938
Total 2	1,188,571	1,943,421	1,916,595	2,407,620	2,295,562	2,94,097	2,065,434	2,166,574	2,005,632
Arkansas.	41,878	18,585	6,167	9,690	11,301	34,833	11,285	25,648	24,631
California.	187,789	334,789	284,109	329,769	315,168	315,168	623,894	660,899	606,631
Illinois.	4,165	2,890	1,448	1,040	1,169	66,500	2,567	2,436	3,817
Kansas.	26,917	37,630	57,125	83,890	75,203	86,105	57,025	55,988	59,567
Kentucky.	10,770	28,023	39,738	55,719	46,163	15,350	7,344	7,040	8,464
Louisiana.	152,620	278,341	249,450	315,301	283,899	162,260	106,415	95,634	92,066
Montana.	1,496	10,060	19,870	24,765	21,216	318,225	2,296	1,768	2,161
New Mexico.	(4)	9,497	27,931	546,337	550,706	33,890	38,253	49,596	54,555
New York.	6,210	69,624	48,288	621,325	69,402	47,950	33	27	34
Ohio.	43,235	63,394	49,592	42,733	35,257	108,013	7,704	7,382	7,444
Oklahoma.	249,285	348,116	274,313	296,260	263,164	244,443	492,290	468,499	434,797
Pennsylvania.	101,632	88,706	794,464	711,528	776,547	96,285	13,940	10,734	12,178
Texas.	8134,872	517,880	864,236	8854,561	8882,473	729,603	615,281	685,920	704,707
W. Virginia	180,345	144,180	115,772	149,084	134,342	57,478	50,379	50,398	50,612
Wyoming.	45,539	43,219	26,643	31,023	26,678	18,654	233,915	930,647	630,675

"Preliminary.

2 Includes States not shown separately.

3 Includes 372,000,000 cubic feet piped from Canada, 4 Separate data not available.

Includes 867,000,000 cubic feet piped Mexico in 1937 and 832,000,000 in 1938.

Includes 68,000,000 cubic feet piped to Canada in 1925, 107,000,000 in 1930, 29,000,000 in 1935, 29,000,000 in 1937, and 34,000,000 in 1938.

Includes 44,000,000 cubic feet piped Canada 1935, 49,000,000 in 1937, and 60,000,000 1938.

Includes 64,000,000 cubic feet piped to Mexico 1925, 1,691,000,000 in 1930, 6,727,000,000 in 1935, 3,923,000,000 in 1937, and 911,000,000 in 1938.

Includes Utah.

Sources: Table 797, Dept. of Labor, Bur. of Labor Statistics; published quarterly in Retail Prices. Table 798, Dept. of the Interior, Bur. of Mines; Minerals Yearbook.

No. 799. MANUFACTURED-GAS INDUSTRY- FUEL CONSUMED, BY KIND AND BY USE: 1932 TO 1939

NOTE. Coal and coke in thousands of tons or 2,000 pounds; oil in thousands of gallons. Companies formerly distributing manufactured gas but which were distributing natural gas at the beginning of 1939 have been excluded from the figures for all years. The figures do not include fuel used in production of coke oven gas which is purchased by gas companies from coke and steel companies for public distribution.

	1932	1933	1934	1935	1936	1937	1938	1939
By kind:								
Anthracite 1	115	132	185	125	144	178	181	199
Bituminous coal	7,517	7,344	7,909	7,508	7,578	7,352	6,715	6,653
Coke purchased.	789	670	781	746	720	662	729	674
Coke made in plant 2-	1,450	1,321	1,282	1,338	1,338	1,347	1,255	1,413
Coke breeze.	500	487	490	502	466	399	368	342
Oil 3.	548,914	497,272	492,410	475,930	515,016	525,817	585,762	362,915
Coal and coke, by use:								
Generator fuels 2.	1,934	1,631	1,709	1,655	1,723	1,718	1,707	1,799
Boiler fuels 1.	903	857	912	832	899	907	813	772
Bituminous coal carbonized.	6,782	6,711	7,214	6,876	6,895	6,603	6,060	6,035
Bench and producer fuels.	752	755	812	796	729	710	668	675

Includes screenings.

2 Includes fuel used in production of reformed oil refinery gas.

Oil used. For 1939, for carburetting water gas, 533,910,000 gallons; for making oil gas, 55,879,000 gallons; boiler fuel, 39,362,000 gallons.

No. 800. MANUFACTURED-GAS AND NATURAL-GAS INDUSTRIES SUMMARY: 1932 TO 1939

NOTE. Population served and number of customers in thousands, gas produced, purchased, and sold in millions of cubic feet; revenue in thousands of dollars. Companies formerly distributing manufactured gas but which were distributing natural gas at the beginning of 1939 have been excluded from the figures for manufactured gas and included with those for natural gas for all years shown in this table. Companies selling mixed manufactured and natural gas are included with data for manufactured gas. Figures for natural gas do not include natural gas used in field operations or in the manufacture of carbon black, or gas used by distributing companies in the conduct of their gas operations.

	1932	1933	1934	1935	1936	1937	1938	1939
MANUFACTURED-GAS INDUSTRY								
Population served, Dec. 31.	46,520	47,009	47,261	47,263	47,396	47,847	48,086	48,259
Miles of main, Dec. 31.	87,300	88,500	88,700	89,800	96,100	90,800	90,900	92,000
Employees, Dec. 31-	62,800	66,300	68,400	67,900	69,600	69,400	67,600	67,400
Total gas produced and purchased.	356,556	342,558	360,214	364,185	374,375	377,445/372,014	386,365	386,365
Gas produced	247,362	230,970	237,207	234,438	238,549	236,442/232,384	242,863	242,863
Gas purchased.	109,194	111,588	123,007	120,747	135,826	141,003/139,630	143,502	143,502
Total number of customers, Dec. 31	9,205	9,160	9,336	9,466	9,648	9,889	9,872	10,045
Domestic.	8,730	8,664	8,792	8,916	9,012	9,220	9,184	9,325
House heating.	59	79	115	131	171	202	225	264
Industrial and commercial.	407	408	414	416	456	458	454	447
Total gas sales to consumers 2	327,901	311,431	323,022	328,828	340,150	348,655/348,644	362,409	362,409
Domestic.	239,459	222,176	215,608	205,710	197,240	194,350/197,052	193,455	193,455
House heating.	18,955	20,013	28,155	34,997	41,146	45,525	47,918	55,883
Industrial and commercial.	67,248	67,252	77,207	85,994	99,572	106,656/101,430	111,078	111,078
Total revenue from consumers 1	381,711	352,711	354,623	351,191	355,083	357,530/357,827	365,150	365,150
Domestic.	301,785	277,726	272,645	263,811	257,287	255,075/256,418	255,131	255,131
House heating.	14,587	14,089	18,811	22,601	26,144	28,472	30,809	35,930
Industrial and commercial.	63,743	59,386	61,701	63,286	70,141	72,507	69,061	72,774

NATURAL-GAS INDUSTRY

Population served, Dec. 31.						33,127	33,726	34,298
Miles of main, Dec. 31.						283,400/186,500	190,300	190,300
Employees, Dec. 31.						66,300	53,800	65,300
Total number of customers, Dec. 31-	6,128	6,177	6,391	6,605	6,817	7,066	7,216	7,454
Domestic 2-	5,671	5,716	5,911	6,104	6,292	6,521	6,650	6,870
Commercial.	430	433	447	468	488	505	524	541
Industrial 3.	27	28	33	33	37	401	42	43
Total gas sales to consumers.	834,010	862,388	976,141/1,053,806	1,215,930	1,314,907/1,210,356	1,328,243	1,328,243	1,328,243
Domestic	320,641	300,286	303,321	320,733	339,893	359,890/352,238	372,971	372,971
Commercial.	77,100	73,781	79,153	88,115	96,759	103,220/100,743	109,314	109,314
Industrial 3	436,269	488,321	593,667	644,958	779,278	851,797/757,875	845,958	845,958
Total revenue from consumers.	342,651	323,889	347,067	376,388	412,444	443,408/415,766	448,850	448,850
Domestic 2.	228,063	213,496	213,619	225,445	237,210	243,175/242,178	255,805	255,805
Commercial.	38,995	37,165	38,376	42,314	46,463	48,642	47,147	50,362
Industrial 3	75,593	79,228	95,072	108,629	128,771	146,591/226,431	142,692	142,692

Including data for the miscellaneous group not separately shown.

2 Including house heating.

: Including data for electric generation.

Source of tables 799 and 800: American Gas Association, Annual Statistics of the Manufactured-Gas and Natural-Gas Industries, Statistical Bulletins Nos. 40 and 41.

No. 801. - GAS PRICES MONTHLY PRICES OF SPECIFIED QUANTITIES, BY CITIDS

Based on rates of Dec. 15, 1939]

EQUIPMENT AND AVERAGE MONTHLY CONSUMPTION FOR 5-ROOM HOUSE

CITY	Kind of gas	Heating value		Range, 10.6 therms		Range and manual water heater, 19.6 therms?		Range and automatic 3 water heater, 30.6 therms?		Range, auto-matic 3 water heater, and refrigerator, 40.6 therms?	
		per cubic foot	British thermal units	Monthly bill	Price per therm	Monthly bill	Price per therm	Monthly bill	Price per therm	Monthly bill	Price per therm
			Dollars	Cents		Dollars	Cents	Dollars	Cents	Dollars	Cents
Atlanta.	N	980	1.78	16.8	2.70	13.8	3.77	12.3	4.38	10.8	
Baltimore.	M	500	1.80	17.0	3.33	17.0	4.78	15.6	6.08	15.0	
Birmingham	M	520	1.63	15.4	3.02	15.4	4.70	15.4	6.25	15.4	
Boston.	M	535	2.78	26.2	4.13	21.1	5.78	18.9	7.27	17.9	
Buffalo.	M	535	2.28	21.5	4.21	21.5	5.63	18.4	7.12	17.5	
Butte.	X	900	.77	7.2	1.42	7.2	2.21	7.2	2.93	7.2	
Butte.	N	850	1.11	10.5	1.59	8.1	2.17	7.1	2.70	6.7	
Charleston, S. C.: Immediate.	M	550	2.70	25.5	4.98	25.5	7.19	23.5	9.01	22.2	
Objective 4	M	550	(6)	(6)	4.42	22.6	5.92	19.3	7.28	17.9	
Chicago.	X	800	2.26	21.3	3.65	18.6	5.01	16.4	5.71	14.1	
Cincinnati	X	930	.85	8.0	1.52	7.8	2.29	7.5	2.97	7.3	
Cleveland.	N	1,100	1.11	10.5	1.56	8.0	2.11	6.9	2.61	6.4	
Columbus	N	1,050	6.75	7.1	1.03	5.2	1.60	5.2	2.13	5.2	
	N	1,050	6.75	7.1	.90	4.6	1.40	4.6	1.86	4.6	
Dallas.	N	1,050	1.26	11.9	1.84	9.4	2.54	8.3	3.19	7.9	
Denver 7.	N	825	2.18	20.6	3.35	17.1	4.20	13.7	4.84	11.3	
Detroit: Immediate.	N	1,014	1.71	16.1	3.16	16.1	4.93	16.1	6.55	16.1	
Promotional 4	N	1,014	1.55	14.6	2.51	12.8	3.68	12.0	4.75	11.7	
Fall River	M	528	2.53	23.9	4.06	20.7	5.94	19.4	7.64	18.8	
Eouston.	M	1,066	1.14	10.8	1.70	8.7	2.37	7.7	2.98	7.3	
Indianapolis.	M	570	1.58	14.9	2.92	14.9	4.57	14.9	6.05	14.9	
Jacksonville.	M	535	3.97	37.5	5.73	29.3	7.59	24.8	9.27	22.8	
Kansas City 7	N	1,040	1.33	12.6	2.12	10.8	3.05	10.0	3.88	9.6	
Little Rock 7	N	1,000	1.11	10.4	1.61	8.2	2.23	7.3	2.79	6.9	
Los Angeles	N	1,100	1.20	11.3	1.69	8.6	2.25	7.4	2.76	6.8	
Louisville 3	X	900	.98	9.2	1.58	8.0	2.20	7.2	2.78	6.8	
Manchester.	M	525	2.85	26.8	4.82	24.6	5.67	18.5	6.92	17.0	
Memphis.	N	980	1.51	14.3	2.48	12.7	3.60	11.8	4.21	10.4	
Milwaukee.	M	520	1.76	16.6	2.89	14.7	4.26	13.9	5.51	13.6	
Minneapolis.	X	800	1.92	18.1	3.01	15.4	4.34	14.2	5.50	13.5	
Mobile: Present.	N	970	2.24	21.1	3.40	17.3	4.72	15.4	5.40	13.3	
Objective L	N	970	2.04	19.2	2.97	15.2	4.04	13.2	4.66	11.5	
Newark.	M	525	2.69	25.4	4.31	22.0	6.06	19.8	7.29	18.0	
New Haven.	M	528	2.41	22.7	4.11	21.0	6.20	20.3	8.09	19.9	
New Orleans.	N	950	1.26	11.9	2.10	10.7	3.15	10.3	4.09	10.1	
New York: Bronx, Manhat-tan, and queens-Brooklyn.	M	540	2.32	21.9	4.30	21.9	6.72	21.9	8.91	21.9	
	M	540	2.36	22.3	3.83	19.6	5.30	17.3	6.48	15.0	
	M	540	2.46	23.2	4.09	20.9	6.09	19.9	7.90	19.5	
	M	540	2.61	24.6	4.28	21.8	5.96	19.5	7.19	17.7	
Richmond.	M	540	3.14	29.6	5.15	26.3	7.15	23.3	8.95	22.1	
Norfolk.	M	530	2.40	22.6	4.36	22.2	6.62	21.6	8.51	21.0	
Omaha.	M	555	1.46	13.7	2.27	11.6	3.26	10.6	4.16	10.2	
Peoria.	N	1,000	2.12	20.0	3.64	18.6	4.67	15.3	5.57	13.7	
Philadelphia.	M	530	1.80	17.0	3.25	16.6	5.00	16.4	6.61	16.3	
Pittsburgh P	N	1,100	61.00	9.4	1.07	5.4	1.67	5.4	2.21	5.4	
	N	1,115	51.00	9.4	1.06	5.4	1.64	5.4	2.18	5.4	
Portland, Maine.	M	525	3.03	28.5	5.16	26.3	6.51	21.3	8.03	19.8	
Portland, Oregon.	M	570	2.34	22.0	3.98	20.3	5.33	17.4	6.61	16.3	
Providence.	M	510	2.57	24.3	4.16	21.2	6.10	19.9	7.86	19.4	
Richmond.	M	525	2.63	24.8	4.78	24.4	6.05	19.8	7.76	19.1	
Rochester.	M	537	1.97	18.6	3.65	18.6	5.56	18.2	7.05	17.4	
St. Louis?	X	800	2.04	19.3	3.20	16.3	4.38	14.3	5.45	13.4	
St. Paul.	M	550	1.98	18.7	3.16	16.1	4.59	15.0	5.87	14.5	
Salt Lake City 7	N	865	2.12	20.0	3.27	16.7	4.16	13.6	4.86	12.0	
San Francisco.	N	1,150	1.18	11.2	1.65	8.4	2.22	7.2	2.68	6.6	
Savannah.	M	535	2.48	23.3	4.58	23.3	7.15	23.3	9.49	23.3	
Scranton.	M	520	2.89	27.2	4.57	23.3	5.77	18.8	7.60	18.7	
Seattle.	M	500	3.10	29.2	5.36	27.3	5.32	17.4	6.45	15.9	
Springfield, Ill.	N	1,000	1.91	18.0	3.36	17.1	4.47	14.6	5.37	13.2	
Washington	X	604	1.51	14.2	2.69	13.7	3.96	12.9	5.06	12.5	

manufactured; N, natural; X, mixed.

1 therm equals 100,000 British thermal units.

The "Objective" rate is not applicable for customers higher than that computed under the "Immediate" rate.

Minimum charge.

Prices include 2-percent sales tax.

Automatic storage or instantaneous water heater.

Rate designed to encourage greater use of water, using 10.6 therms for the reason that the bill would be higher than that computed under the "Immediate" rate.

Prices include 3-percent sales tax.

Reports from 2 companies with identical rates.

Source: Dept. of Labor, Bur. of Labor Statistics; published in Retail Prices, Dec., 1939.

No. 802. PETROLEUM, CRUDE PRODUCTION: 1861 TO 1939

Quantities in chousands of barrels (42 gallons); Yalzeain chousands of dollara]

YEARLY AVERAGE	Quantity	Value	YEAR	Quantity	Value	YEAR	Quantity	Value
1861-1865.	2,479	9,965	1910.	209,557	127,900	1925.	763,743	1,284,960
1866-1870.	4,013	15,795	1911.	220,449	134,045	1926.	770,874	1,447,760
1871-1875.	8,221	16,430	1912.	222,935	164,213	1927.	901,129	1,172,830
1876-1880.	16,816	22,926	1913.	248,446	237,121	1928.	901,474	1,054,880
1881-1886.	25,508	22,933	1914.	265,763	214,125	1929.	1,007,323	1,280,417
1886-1890.	32,990	23,830	1915.	281,104	179,463	1930	898,011	1,070,200
1891-1895	51,095	35,708	1916.	300,767	330,900	1931	851,081	550,630
1896-1900.	59,498	56,836	1917.	335,316	522,635	1932.	785,159	680,460
1901-1905.	102,083	83,524	1918.	355,928	703,944	1933.	905,656	608,000
1906-1910.	172,769	118,572	1919.	378,367	760,266	1934.	908,065	904,825
1911-1915.	247,739	185,793	1920.	442,929	1,360,745	1935.	996,596	961,440
1916-1920.	362,661	735,698	1921	472,183	814,745	1936.	1,099,687	1,199,820
1921-1925.	647,961	999,186	1922.	557,531	895,111	1937.	1,279,160	1,513,340
1926-1930.	895,762	1,205,217	1923.	732,407	978,430	1938.	1,214,355	1,373,060
1931-1935.	889,311	741,071	1924.	713,940	11,022,683)	1939(prel.)	-11,264,256	11,265,000

1 Estimated.

Source: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 803. PETROLEUM, CRUDE AND REFINED PRODUCTION, IMPORTS, EXPORTS, AND BUNKER OIL LADEN ON VESSELS IN FOREIGN TRADE: 1871 TO 1939

NOTE.—Exports of refined oils include residuum prior to 1913 and exclude it thereafter. Exports exclude reexports of imported oils. General imports through 1933; imports for consumption thereafter

QUANTITY THOUSANDS OF BARRELS OF 42 GALLONS)						VALUE (MILLEONS OF DOLLARS)					
PERIOD	Production, crude oil	Imports		Exports		Bunker oil	Imports		Exports		Bunker oil
		Crude oil	Refined oils	Crude oil	Refined oils		Crude oil	Refined oils	Crude oil	Refined oils	
1871-1886.	12,519			528	6,026	(2)			2.4	37.7	
1881-1890.	29,249			1,719	12,034				5.1	43.7	
1891-1895.	51,095			2,606	16,751				5.0	40.8	
1896-1900.	59,498	8	8	2,907	20,240	8	8	8	5.8	57.1	8 (1)
1901-1905.	102,083	(4)		3,029	22,317		(1).		6.3	68.5	
1906-1910	172,769	29.5	8	3,686	30,521		20.7	8	6.4	90.4	
1911-1915.	247,739	12,080	293	4,134	44,475	8	7.6	1.1	6.1	125.8	8
1915-1920	362,661	19,531	1,396	5,413	58,896	11,681	26.5	5.0	14.1	323.7	24.2
1921-1925.	647,961	94,857	12,545	13,330	76,455	36,501	68.0	22.2	22.5	363.6	55.9
1926-1930.	895,762	67,919	23,779	20,062	119,700	50,198	78.6	51.8	30.2	464.7	62.3
1931-1935.	889,311	38,395	23,902	36,413	370,892	34,868	27.3	22.3	38.2	3164.3	31.3
1923.	732,407	82,015	17,592	17,061	77,893	37,582	53.9	24.3	23.1	327.0	52.2
1924	713,940	77,775	16,760	17,605	93,411	13,328	73.8	26.9	26.5	392.3	58.0
1925.	763,743	61,824	16,324	13,125	93,843	42,827	75.4	31.3	24.3	422.6	68.2
1926.	770,874	60,382	20,902	15,406	108,398	46,662	79.3	44.6	28.5	497.2	71.0
1927.	901,129	58,383	13,281	15,843	115,399	50,051	78.6	33.6	25.9	429.7	73.0
1928.	901,474	79,767	11,701	18,961	126,159	51,225	90.5	40.9	26.8	465.2	59.4
1929.	1,007,323	78,933	29,632	26,394	125,377	52,278	79.9	61.0	37.8	493.4	54.7
1930.	898,011	62,129	43,381	23,704	122,167	50,773	64.9	78.7	32.2	438.2	53.6
1831.	851,081	47,250	38,702	25,535	91,009	43,714	39.2	52.1	20.8	232.3	38.8
1932.	785,159	44,700	30,228	27,391	69,348	38,152	30.4	29.2	27.1	3168.1	29.4
1933.	905,656	31,908	13,257	36,584	361,419	32,272	17.7	7.1	32.0	3151.3	27.1
1934.	908,065	35,772	14,952	41,127	364,750	29,899	25.9	9.6	49.8	3159.5	31.3
1935.	996,596	32,345	22,369	51,430	367,932	30,304	23.4	13.5	61.2	3169.9	29.9
1936.	1,099,687	32,957	25,460	50,313	271,402	33,407	23.2	16.5	66.1	3179.0	34.3
1937.	1,279,160	27,310	33,038	67,127	293,464	37,688	20.8	22.4	96.4	3253.4	43.5
1938.	1,214,355	26,048	27,891	77,254	3102,124	36,059	18.6	19.7	111.6	3249.6	37.8
1939 (prel.)	1,264,256	34,106	27,350	72,064	3103,527	37,036	23.3	18.7	92.8	3263.1	39.0

Data are not available.

1 Average for years 1908-10 for total mineral oils.

2 Not including natural gasoline (308,000 barrels valued at \$533,000 in 1932, 1,557,000 barrels at \$3,395,000 in 1933, 1,495,000 barrels at \$2,729,000 in 1934, 1,645,000 barrels at \$3,335,000 in 1935, 1,904,000 barrels at \$4,227,000 in 1936, 3,738,000 barrels at \$9,465,000 in 1937, 6,114,000 barrels at \$13,059,000 in 1938, and 4,111,000 barrels at \$7,739,000 in 1939), included with refined oils prior to 1932.

Sources: Production, Dept. of the Interior, Bur. of Mines; Minerals Yearbook. Imports and exports, Dept. of Commerce, Bur. Foreign and Domestic Commerce: annual report, Foreign Commerce and Navigation of the U.S. A1 published currently in Monthly Summary of Foreign Commerce of the U.S.

No. 804. - PETROLEUM, CRUDE - WORLD PRODUCTION; UNITED STATES PRODUCTION BY REGIONS AND STATES: 1911 TO 1939

[In thousands of barrela of 42 galonsj									
SECTION	1911-1915 (aver- age)	1916-1920 (aver- age)	1921-1925 (aver- age)	1926-1930 (aver- age)	1931-1935 (aver- age)	1936	1937	1938	1939 (pre- limi- nary)
World total 1	384,345	541,733	944,777	1,316,390	1,460,372	1,804,925	2,041,715	1,987,723	2,076,772
United States 2	247,739	362,661	647,961	895,762	889,311	1,099,687	1,279,160	1,214,355	1,264,256
Percent of total.	64.5	66.9	68.6	68.0	60.9	60.9	62.7	61.1	60.9
Regions:									
Appalachian.	24,594	27,161	28,504	31,603	30,0795	34,322	36,964	34,731	34,209
Lima-N.E. Ind.-Mich.	5,052	3,468	2,298	3,603	10,050	12,706	17,272	19,352	23,401
Illinois-s.W. Indiana 3	24,955	13,918	9,585	7,495	5,326	5,277	8,325	25,046	95,725
Mid-continent.	87,656	184,616	343,545	527,944	566,251	669,538	774,369	677,521	666,556
Gulf.	12,357	24,273	33,688	54,1401	75,4011	140,562	176,743	182,217	190,909
Rocky Mountain.	2,605	11,830	35,258	28,468	17,984	22,509	26,966	25,739	29,102
California.	90,512	97,384	195,074	241,509	184,221	214,773	238,521	249,749	224,354
States:									
Arkansas.			36,644	35,010	12,144	10,469	11,764	18,180	21,143
Caillornia.	90,512	97,384	195,074	241,509	184,221	214,773	238,521	249,749	224,354
Colorado.	211	139	392	2,477	1,260	1,6501	1,605	1,412	1,391
Illinois.	24,955	13,918	8,815	6,654	4,551	4,475	7,499	24,075	94,302
Indiana.	1,167	865	1,0111	937	8001	822	844	9951	1,443
Kansas.	2,235	32,556;	32,733	41,123	43,033	58,317	70,761	60,064	60,723
Kentucky.	484	5,335	8,044	7,103	5,494	5,633	5,484	5,821	5,581
Louisiana.	12,997	19,117	25,759	22,338	30,396	80,491	90,924	95,208	93,869
Michigan.			1f	1,913	9,004	11,928	16,628	18,745	22,799
Montana.		129	2,729	4,826	3,153	5,868	5,805	4,946	5,961
New Mexico-			5554	3,1711	15,829	27,223	38,854	35,759	37,323
New York.	920	864	1,274	2,765	3,618	4,663	5,478	5,045	5,098
Ohio.	8,586	7,583	7,045	7,022	4,504	3,847	3,559	3,298	3,156
Oklahoma.	68,624	102,209	155,088	235,663	176,293	206,555	228,839	174,994	160,072
Pennsylvania.	8,002;	7,662	7,607	10,613	13,443	17,070	19,189	17,426	17,337
Texas.	16,256	55,008	127,009	245,792	364,341	427,411	510,318	475,850	484,527
West Virginia	10,487	8,311	6,575	5,655	4,032	3,847	3,845	3,684	3,580
Wyoming.	2,394	11,562	31,901	21,145	13,158	14,582	19,166	19,022	21,417

Estimated. 2 Includes for certain years small quantities not distributed by, regions and States.
Southwestern Indiana reported with flinois Beginning 1921; previously with Lima-Indiana region.
: Not shown separately prior to 1924. 6 Average for years 1924 and 1925.

No. 805.-- PETROLEUM AND PETROLEUM PRODUCTS- STOCKS ON DECEMBER 31 : 1920 TO 1939

[In thousands of barrels of 42 gallons]							
	1920	1925	1936	1935	1937	1938	1939
Crude petroleum, total 1	149,448	345,863	2411,882	7 314,855	1306,826	291,425	1 252,240
Gasoline bearing:							
At refineries 3	28,703	429,607	141,136	47,533	51,041	51,551	49,215
Pipeline and tank farm 5	117,159	4308,696	4266,068	256,793	E248,542	2211,938	178,546
Producers' 5-	3,586	7,560	6,608	10,529	11,240	12,10,87f	11,149
Nongasoline bearing Calif. heavy crude) 1	(6)	(6)	(6)	(6)	214,505	16,467	13,330
Natural gasoline.	(6)	7326	I 2,377	3,698	4,758	4,830	4,421
Refined products, total 18	60,397	206,275	2251,680	223,361	E253,413	2259,665	> 256,249
Gasoline.	11,009	38,918	240,098	50,647	69,892	65,949	77,301
Kerosene.	9,359	7,121	6,883	7,915	7,083	7,799	7,576
Gas oil and fuel oil 1	19,938	110,464	140,428	103,984	117,585	5 125,619	114,148
Lubricants.	3,822	7,253	fa 137,790	7,025	E2104,073	7,695	7,142
Grand total stocks alloils.	208,845	552,464	2 665,497	J 541,914	564,997	555,920	> 512,910

California heavy crude and fuel oil included in refined products as residual fuel oil, 1925 through 1937.
i Call comparison with succeeding year. 3 Includes foreign crude held by importers.
Refinery stocks in California included in pipe-line and tank-farm stocks.
Producers' stocks California included in pipe-line and cank-farm stocks prior to 1933.
Not available. TAE plants only. 8 Includes wax, coke, and asphalt.

Source of tables 804 and 805: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 806.-OILS, CRUDE AND REFINED- SUPPLY AND DEMAND: 1933 TO 1939

[In thousands of barrels of 42 gallons]

	1933	1934	1935	1936	1937	1938	1939 (pre.)
Total new supply of all oils.	986,228	996,823	1,030,435	1,202,063	1,388,284	1,321,774	1,375,491
Domestic production, total-	940,834	946,329	1,037,800	1,144,959	1,331,127	1,267,466	1,316,592
Crude petroleum.	905,656	968,065	996,596	1,098,687	1,279,160	1,214,355	1,264,256
Natural gasoline.	33,810	36,556	39,333	42,770	49,177	51,347	49,896
Benzol.	1,368	1,708	1,871	2,502	2,790	1,764	2,440
Imports-							
Crude.	31,893	35,558	32,239	32,327	27,484	26,412	33,095
Refined 1	13,501	14,936	20,396	24,777	29,673	27,896	25,804
Change in stocks 2	Fl1,013	-37,848	22,238	-22,685	+45,768	9,077	-42,276
Total demand.	975,215	1,034,671	1,112,673	1,224,748	1,342,516	1,330,851	1,417,767
Exports 3-							
Crude.	36,584	41,127	51,430	50,313	67,234	77,254	72,073
Refined 1	70,143	73,380	77,557	81,681	105,600	116,474	116,909
Domestic -	868,488	920,164	983,686	1,092,754	1,169,682	1,137,123	1,228,785

1 Includes wax, coke, asphalt, and residuum in barrels. Data from Bur. of Foreign and Domestic Commerce.

Data include crude petroleum, refined products, and natural gasoline.

Includes shipments to noncontiguous territories. Data from Bur. of Foreign and Domestic Commerce.

Includes bunker oil put on vessels engaged in foreign trade.

Source: Department of the Interior, Bureau of Mines, except as noted; Minerals Yearbook.

No. 807. PETROLEUM PRODUCTS PRODUCTION BY KIND: 1933, 1935, AND 1937

PRODUCTS	QUANTITY, THOUSANDS OF GALLONS (UNLESS OTHERWISE SPECIFIED)						VALUE, THOUSANDS OF DOLLARS	
	1933	1935	1937	1933	1935	1937		
Refinery products, total value				1,359,968	1,830,384	2,537,661		
Gasoline.	16,094,531	18,505,867	22,626,325	759,183	1,023,578	1,447,688		
Naphtha.	228,516	216,906	281,391	12,251	13,223	19,381		
Illuminating oils.	1,949,863	2,194,731	2,508,045	78,128	94,179	123,681		
Fuel oils.	13,225,107	15,905,206	19,243,714	253,237	359,437	512,904		
Distillates.	1,598,816	1,782,051	2,997,561	49,648	60,983	122,187		
Gas oils.	1,977,443	2,709,138	3,153,937	53,931	85,550	110,428		
Residual fuel oils.	9,718,848	11,414,016	13,092,216	149,658	212,905	280,289		
Partially refined oils sold for re-								
running.	1,130,068	1,042,276	1,147,454	23,734	31,658	38,726		
Above fuel oil.	760,697	737,007	838,758					
Fuel oil.	345,215	276,557	247,723	(2)	(4)	(")		
Below fuel oil.	24,156	28,712	60,973					
Lubricating oils.	1,047,212	1,274,384	1,517,103	142,444	186,534	245,666		
Black, cylinder, red, neutral,								
pale, and paraffin.	650,475	777,072	970,593	74,178	104,986	133,986		
All other lubricating oils, in-								
cluding compounded (ex-								
cept cylinder) oils.	396,736	497,313	546,510	68,266	81,547	111,681		
Liquid asphaltic road oils.	300,243	406,968	481,135	8,343	13,346	16,418		
Residuum or tar.	64,977	88,526	20,421	1,271	1,696	853		
Greases.	41,923	49,919	61,926	9,251	12,740	17,216		
Petrolatum, mineral jelly, etc-	14,711	18,327	23,083	1,855	2,608	3,932		
Lubricating greases, includ-								
ing axle grease 3-	27,212	31,591	38,843	7,396	10,132	13,284		
Paraffin wax.	72,852	76,495	90,608	12,211	14,447	19,213		
Acid oil.	85,627	94,258	57,633	1,015	1,219	1,016		
Asphalt other than liquid asphalt-	1,790	2,154	2,971	17,932	23,233	31,352		
Petroleum coke 4	1,751	1,444	1,327	5,582	5,765	5,048		
Other refinery products, value.				35,388	49,340	57,898		

Data incomplete; see third paragraph of general note, p. 802.

No data.

Production in petroleum refineries only.

Thousands of tons of 2,000 pounds.

Source: Dept. of Commerce, Bur. of the Census; reports of Biennial Censuses of Manufactures.

No. 808.- PETROLEUM AND NATURAL GASOLINE AMOUNTS RUN TO STILL; REFINERY PRODUCTION, STOCKS, EXPORTS, AND APPARENT CONSUMPTION OF PRODUCTS: 1918 TO 1939

NOTE.—Stocks are those in refiners' hands only. Hence "apparent consumption" represents deliveries by refiners to dealers and consumers. Exports include shipments to noncontiguous territories. Consumption figures for the several products take into account imports not shown separately.

[In thousands of barrels of 42 gallons, except as indicated]

ITEM	1918	1920	1925	1930	1935	1937	1938	1939 (prel.)
Crude oil run to stills.	326,025	433,915	739,920	927,447	965,790	1,183,440	1,165,015	1,237,840
Domestic-	324,618	372,779	698,582	866,615	833,659	1,157,444	1,138,828	1,204,350
Foreign.	1,407	61,136	41,338	60,832	32,131	25,996	26,187	33,490
Natural gasoline run to stills or blended at refineries.	2,451	3,153	119,636	143,170	131,025	139,381	139,961	140,320
Stocks of crude oil, end of year.	15,750	21,261	229,200	241,136	47,533	51,041	51,551	49,215
Motor fuel:								
Production.	86,280	118,022	262,252	440,728	468,021	571,727	569,162	607,941
Exports (gasoline, natural gasoline, and benzol)	13,650	15,678	31,684	65,575	30,613	38,306	50,109	44,559
Stocks, end of year.	7,080	11,009	38,918	40,098	354,345	374,650	370,779	381,722
Apparent consumption	75,672	102,937	226,329	394,800	434,810	519,352	523,003	552,557
Kerosene:								
Production	43,461	55,240	59,689	49,208	55,813	65,308	64,580	68,521
Exports.	11,820	20,878	21,212	16,884	6,651	8,886	7,504	8,243
Stocks, end of year.	9,050	9,359	7,121	6,883	7,915	7,083	7,799	7,576
Apparent consumption	34,442	33,082	39,969	34,736	47,645	54,972	56,360	60,501
Gas oil and fuel oils:								
Production.	174,319	210,987	364,991	372,498	360,061	458,770	446,664	468,566
Exports.	29,637	22,080	36,088	36,450	28,948	45,433	47,561	49,511
Stocks, end of year.	15,691	19,938	224,681	413,790	410,984	417,585	412,619	426,008
Apparent consumption.					366,723	442,355	409,282	464,594
Lubricants:								
Production	20,035	24,938	31,055	34,201	27,853	35,321	30,826	35,036
Exports.	6,165	9,643	9,678	9,935	8,499	10,975	9,417	11,981
Stocks, end of year.	3,306	3,822	7,253	10,971	7,025	7,512	7,695	7,142
Apparent consumption	13,823	14,742	20,581	21,589	19,661	23,323	21,233	23,613
Wax—production, 1,000 lbs.	505,144	541,204	590,577	547,680	450,240	521,640	435,400	464,520
Stocks, end of year—do—	199,658	195,368	116,391	232,592	114,675	144,992	129,340	75,648
Coke—production, 1,000 tons—	560	577	991	1,940	1,458	1,307	1,602	1,666
Stocks, end of year—do—	23	32	238	1,069	389	379	708	666
Asphalt—production								
1,000 tons—do—	607	1,291	2,677	3,308	3,115	4,182	4,341	4,954
Stocks, end of year—do—	77	81	159	308	430	557	490	550
Other finished products.			8,044	13,179	859,102	874,687	875,354	877,206
Losses.	14,557	18,743	22,914	37,003	811,493	66,256	84,242	87,345

Includes natural gasoline run through pipelines in California.

Includes terminal, transit, and natural gasoline stocks.

For comparison with succeeding year.

2 Stocks east of California only

4 Including California heavy crude.

■ New basis; considers transfers of light grades of crude petroleum to the gas-oil fuel-oil account, and changes in bulk-terminal stocks, in refinery districts east of California. an of 2,000 pounds.

5 Other finished products include still gas formerly reported also with losses.

No. 809. - PETROLEUM AND NATURAL GASOLINE- AMOUNTS RUN TO STILL, 1938 AND 1939, AND REFINERY PRODUCTS, 1939, BY REGIONS

[In thousands of barrels of 42 gallons, except wax, which is in thousands of pounds]

REGION	CRUDE OIL RUN TO STILL		NATURAL GASOLINE RUN TO STILL OR BLENDED		OUTPUT OF REFINERIES, 1939 1				
	1938	1939 1	1938	1939 1	Gasoline	Kerosene	Gas oil and fuel oil	Lubricants	Wax
Total.	1,165,015	1,237,840	39,961	40,320	595,925	88,521	468,566	35,036	464,520
East coast.	180,606	192,381	1,198	2,140	78,625	9,120	86,030	9,055	189,840
Appalachian.	39,180	43,767	269	297	21,805	2,847	8,283	6,128	97,160
Indiana, Illinois, Kentucky, etc.	163,140	191,634	4,488	4,516	109,447	8,476	47,925	3,111	38,080
OKlahoma, Kansas, and Missouri.	111,143	112,409	5,772	5,112	65,494	7,073	29,824		
Texas.	374,829	399,233	12,688	12,304	196,631	26,201	150,425	8,600	23,920
Louisiana and Arkansas-Rocky Mountain.	70,992	73,456	1,119	863	29,083	9,368	27,537	2,042	22,400
California.	24,791	26,306	803	711	15,066	782	7,537		
	200,334	198,654	213,624	214,377	79,774	4,654	111,005	2,786	11,200

1 Preliminary. 2 Includes 1,849,000 barrels run through pipelines in 1938 and 1,147,000 barrels in 1939,

Source of tables 808 and 809: Dept. of the Interior, Bur. of Mines; Minerals Yearbook.

No. 810. PETROLEUM PIPE LINES SUMMARY: 1921 TO 1939

[All figures, except miles offline operated, in thousands of dollars]

YEAR	Miles of line operated	Investment in pipe lines	Other investments	Pipe-line operating revenues	Pipe-line operating expenses	Pipe-line operating income	Net income
1921	55,260	365,024	287,114	115,950	62,370	25,530	34,400
1925.	70,009	511,088	93,896	164,645	80,232	70,966	88,495
1930.	88,727	772,711	96,184	237,910	99,363	121,816	123,741
1931	93,090	845,050	90,505	222,944	96,237	116,767	120,738
1932.	92,783	763,942	41,754	211,789	86,003	110,019	112,362
1933.	93,724	766,251	47,947	217,192	85,374	107,811	105,943
1934.	93,070	758,172	57,275	199,166	86,884	84,865	84,143
1935.	92,037	763,009	119,071	197,368	89,364	79,586	78,249
1936.	94,060	773,743	77,239	219,057	92,899	94,491	91,742
1937.	96,611	802,946	87,389	248,198	99,541	109,294	102,720
1938.	95,775	807,657	70,556	228,211	98,756	95,128	80,346
1939.	98,681	829,646	65,124	212,466	97,130	83,401	74,611

Source: Records of Interstate Commerce Commission.

No. 811. PETROLEUM AND PETROLEUM PRODUCTS PRICES, 1921 TO 1939, AND BY MONTHS, 1939

NOTE. Prices of crude and fuel oil in dollars per barrel of 42 gallons; others in cents per gallon. All prices are weighted averages compiled by Joseph E. Pogue

YEAR	Crudel	Gasoline?	Kerosene3	Fuel oil4	Lubricating oil5	MONTE, 1939	Crudet	Gasoline 2	Kerosene3	Fuel oil4	Lubricating oil5
1921.	Dolls.	Cents	Cents	Dolls.	Cents	January.	Dolls.	Cents	Cents	DollZs.	Cents
1925.	1.86		12.9	1.30		February.	1.13	9.3	9.1	0.87	12.8
1930.	1.96	19.9	12.3	1.46	24.3	March.	1.16	9.2	9.1	.88	13.0
1931	1.39	16.4	12.1	.78	19.8	April.	1.18	9.2	9.0	.90	13.2
1932.	.91	12.9	10.3	.57	14.7	May	1.18	9.2	8.9	.92	13.4
1933.	1.02	13.2	9.4	.62	14.5	June.	1.18	9.8	8.9	.92	13.4
1934	.87	12.8	9.2	.67	14.7	July.	1.16	9.6	8.9	.93	13.5
1935.	1.21	13.5	9.5	.84	18.5	August.	1.16	9.6	8.9	.93	13.4
1936.	1.17	13.4	8.9	.89	14.4	September.	1.14	9.6	8.9	.94	13.6
1937.	1.30	13.9	9.0	.92	16.3	October.	1.13	9.7	8.9	.96	16.9
1938.	1.39	10.5	9.5	1.05	17.7	November.	1.18	9.8	9.0	.99	21.6
1939.	1.25	9.9	9.5	.91	12.9	December.	1.22	9.7	9.1	.99	22.4
	1.17	9.5	9.0	.94	15.8		1.24	9.6	9.2	.99	22.7

Average for 5 important grades at wells.

: Average based on sales in 50 cities (exclusive of all taxes). Prior to 1937, service-station prices; thereafter, tank-wagon prices.

1 Prior to 1938, average of 5 refining-location prices; thereafter, 4. : Average of 6 grades at refineries.

No. 812.— OIL WELLS, NUMBER AND PRODUCTION, 1937 AND 1938, AND NUMBER OF OIL AND GAS WELLS DRILLED, 1938 AND 1939, BY STATES

STATE	PRODUCING OIL WELLS				WELLS DRILLED 1					
	Approximate number, Dec. 31		Average production per well per day (barrels)		Oil		Gas		Dry	
	1937	1938	1937	1938	1938	1939	1938	1932	1938	1939
Total.	363,030	369,640	9.8	3.1	18,433	17,485	2,236	2,145	6,043	6,357
Arkansas.	2,670	2,800	12.1	18.2	204	183		6	44	65
California 2	13,460	13,930	50.9	50.0	993	852		15	265	251
Colorado.	200	200	21.4	19.3	7	7		1	10	17
Illinois.	14,110	15,800	1.5	4.4	1,806	2,943	23	18	408	621
Indiana.	1,240	1,260	1.9	2.2	46	176	43	44	69	156
Kansas.	21,850	20,900	9.3	7.7	1,108	977	200	150	402	309
Kentucky	13,700	13,900	1.1	1.2	484	275	91	110	314	312
Louisiana.	4,160	4,900	62.6	57.6	690	871	126	98	331	403
Michigan.	1,780	2,140	29.0	26.2	566	813	28	52	406	527
Montana.	1,600	1,620	10.4	8.4	69	114	21	26	27	37
New Mexico.	1,920	2,400	67.2	45.4	494	525	19	18	67	63
New York.	19,900	20,150	.8	.7	(3)	(1)	(a)	(3)	(3)	(3)
Ohio	28,500	27,000	.3	.3	189	216	433	497	288	319
Oklahoma	55,900	54,400	11.3	8.7	986	1,045	160	151	545	603
Pennsylvania	82,800	81,500	.6	.6	41,690	41,586	4166	2200	495	4148
Texas.	77,360	85,600	19.4	16.0	8,892	6,683	341	314	2,577	2,328
West Virginia	18,400	17,700	.6	.6	114	110	484	419	126	90
Wyoming.	3,350	3,300	15.5	15.7	95	99	19	10	43	41
Other States.	130	140				10	71	16	26	67

Figures, except for California, from Oil and Gas Journal.

: From American Petroleum Institute.

Included in Pennsylvania.

: Includes New York.

Source: Dept. of the Interior, Bur. of Mines; Minerals Yearbook, except as noted.

No. 813.- ASPHALT SUPPLY, DISTRIBUTION, AND VALUE: 1933 TO 1939

	1933	1934	1935	1936	1937	1938	1939
Total supply (1,000 tons of 2,000 pounds).	3,090	3,573	4,028	5,098	5,361	5,575	5,678
Native asphalt and related bitumens:							
Produced.	313	441	347	581	485	478	460
Imported (chiefly lake asphalt).	22	16	54	22	29	24	27
Petroleum asphalt (excluding road oil):							
Produced at refineries from-							
Domestic petroleum.	1,237	1,445	1,802	2,327	2,804	3,069	4,954
Foreign petroleum.	1,219	1,396	1,485	1,738	1,556	1,438	7 490
Imported.					63	10	47
Stocks, Jan. 1-	299	276	339	430	364	557	490
Total distribution (1,000 tons of 2,000 pounds).	3,080	3,573	4,028	5,098	5,301	5,575	5,979
Native asphalt and related bitumens:							
Indicated domestic demand.	299	426	328	567	467	464	446
Exports (unmanufactured)	14	15	19	14	19	14	14
Petroleum asphalt (excluding road oil):							
Indicated domestic demand (incl. lake asphalt)-	2,296	2,569	3,028	3,962	4,049	4,405	4,769
Exports.	204	224	223	191	209	202	200
Stocks, Dec. 31.	276	339	430	364	557	490	550

VALUE (1,000 DOLLARS)

Native asphalt and related bitumens:							
Sales.	1,705	2,366	2,149	3,261	3,019	2,875	3,067
Imports chiefly lake asphalt).	278	222	545	316	395	378	363
Exports unmanufactured)	554	581	710	528	720	544	577
Petroleum asphalt excluding road oil):							
Sales.	23,543	29,895	31,355	41,145	42,994	41,381	40,892
Imports.					260	39	189
Exports.	2,861	3,383	3,371	2,835	3,111	3,030	3,098

No. 814. GYPSUM-SUPPLY, SALES, IMPORTS, AND EXPORTS: 1935 TO 1939

[Quantities in thousands of short tons (2,000 pounds); values in thousands of dollars]

	1935	1936	1937	1938	1939
Crude gypsum:					
Mined.	1,904	2,713	3,058	2,684	3,227
Imported.	450	677	897	789	1,308
Apparent supply.	2,354	3,390	13,956	13,474	14,535
Calcined gypsum produced:					
Short tons.	1,383		32,411	32,253	32,881
Value.	(2)	8	311,076	310,990	3 14,621
Gypsum products sold:					
Uncalcined:					
Short tons.	595	831	3861	3757	3868
Value.	1,329	1,866	31,921	31,681	31,927
Calcined:					
Short tons.	1,553	2,210	32,643	32,556	23,224
Value.	22,358	31,089	336,880	334,575	344,001
Gypsum and gypsum products:					
imported for consumption, value.	720	892	1,168	1,002	1,365
Exported, value.	186	256	271	283	309

To avoid revealing confidential data, by-product gypsum is excluded.
not collected.

Includes by-product gypsum.

■ Gypsum products from domestic and imported crude.

Source of tables 813 and 814: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 815. - PORTLAND CEMENT- PRODUCTION, BY STATES; SHIPMENTS, IMPORTS, AND STOCKS: 1910 TO 1939

NOTE.—Imports are "Imports for consumption" and include all kinds of hydraulic cement, most of which is Portland. "Shipments" include exports made directly by manufacturers and shipments made by them to noncontiguous territories. (See table 816)

STATE	1910	1920	1925	1936	1935	1937	1938	1939
Thousands of barrels of 376 pounds								
Production, total.	76,550	100,023	161,658	161,187	76,742	118,175	205,357	122,259
Alabama.	11,481	1,132	6,288	4,821	2,493	4,415	4,628	5,038
California.	26,386	7,098	13,098	10,124	7,974	11,954	10,513	10,990
Illinois.	4,459	5,539	7,101	7,935	3,368	5,246	3,960	4,649
Iowa.	32,010	4,849	4,648	7,088	3,520	4,706	4,727	4,718
Kansas.	5,656	4,341	6,511	6,012	2,337	3,697	3,264	3,739
Michigan.	3,688	4,891	10,936	21,511	4,579	8,181	7,159	8,219
Missouri.	4,456	6,018	8,332	7,809	3,392	4,756	4,491	4,786
New York.	3,296	5,885	8,770	10,373	4,285	5,913	5,808	6,868
Ohio.	1,528	1,780	5,715	8,632	3,876	5,700	5,188	5,800
Pennsylvania.	26,676	28,269	42,347	37,844	15,502	23,064	20,868	25,106
Tennessee.	(9)	(9)	(9)	3,875	2,703	3,081	3,319	3,537
Texas.	62,287	2,562	4,858	6,782	3,787	6,906	6,949	7,337
Other States.	14,627	27,659	43,055	38,393	18,925	28,555	24,482	631,473
Shipments.	(9)	96,312	157,295	159,059	75,233	113,805	106,324	122,651
Imports.	307	525	3,667	985	619	1,804	1,727	1,914
Stocks at mills (Dec. 31)-i	(7)	8,833	18,336	25,899	23,065	24,913	23,993	23,601

i Includes Georgia and Tennessee.
 California includes Washington.
 Includes Kentucky and West Virginia.
 j Included in other States.

Includes Oklahoma.
 Includes production of Puerto Rico.
 k Not available.

No. 816. - PORTLAND CEMENT SHIPMENTS, BY STATES, AND EXPORTS: 1936 TO 1939

[In thousands of barrels of 376 pounds]

STATE	1936	1937	1938	1939	STATE	1936	1937	1938	1939
Shipped from cement plants.	112,850	113,805	106,324	122,561	Shipments to States-Continued.				
Shipments to States.	111,967	112,782	105,043	20,649	South Atlantic-Continued.				
New England.	4,531	4,999	4,618	6,015	West Virginia.	2,061	1,325	1,021	1,305
Maine.	373	393	412	416	North Carolina.	1,209	1,432	1,649	2,096
New Hampshire.	320	345	289	375	South Carolina.	610	7341	7691	934
Vermont.	238	295	222	264	Georgia.	1,518	1,423	1,324	1,485
Massachusetts.	1,900	2,066	1,958	2,607	Florida.	1,203	1,365	1,236	1,506
Rhode Island.	494	422	372	567	East South Central-				
Connecticut.	1,206	1,478	1,365	1,787	Kentucky.	5,850	6,827	7,284	7,072
Middle Atlantic	21,635	22,182	20,315	23,285	Tennessee.	1,625	1,704	1,984	1,909
New York.	11,325	11,112	10,824	12,224	Alabama.	2,055	2,0821	1,970	2,213
New Jersey.	3,760	3,858	3,424	4,008	Mississippi.	1,222	1,224	1,311	1,368
Pennsylvania.	6,550	7,213	6,068	7,052		948	1,816	2,020	1,532
East North Central.	24,307	24,005	22,445	26,110	West South Central.				
Ohio.	5,414	5,420	5,266	6,309	Arkansas.	10,077	10,451	10,859	11,526
Indiana.	3,392	3,279	2,837	3,577	Lotiziana.	646	743	779	841
Illinois.	6,981	6,945	6,432	7,664	Oklahoma	1,544	1,695	1,9081	1,978
Michigan.	5,657	5,360	5,289	5,338	Texas.	2,416	2,099	1,900	2,166
Wisconsin.	2,863	3,001	2,620	3,222		5,471	6,914	6,271	6,541
West North Central.	12,978	12,874	11,830	12,529	Mountain.	5,042	4,749	4,328	4,336
Minnesota.	2,843	2,553	2,394	2,650	Montana	1,488	820	392	470
IOWA.	2,902	3,249	3,227	2,994	Idaho.	364	471	383	411
Missouri.	3,264	3,132	2,788	3,225	Wyoming.	249	395	497	265
North Dakota.	320	275	280	284	Colorado.	1,134	1,056	857	1,171
South Dakota.	399	526	394	462	New Mexico.	534	825	891	674
Nebraska.	1,212	1,191	1,102	1,224	Arizona.	5631	5711	702	640
Kansas.	2,039	1,950	1,646	1,690	Utah.	5095	500	479	552
South Atlantic.	11,046	11,146	11,222	13,283	Nevada.	202	110	1281	153
Delaware.	3521	292	299	357	Pacific.	16,235	15,498	12,123	16,366
Maryland.	1,469	1,842	1,612	1,904	Washington.	3,781	4,107	2,237	5,974
District of Columbia.	1,147	1,066	1,005	1,423	Oregon.	816	762	6691	795
Virginia.	1,477	1,668	2,307	2,163	California.	11,539	10,629	3,216	9,596
					Unspecified.	267	515	19	149
					Exports direct by manufacturers 1	883:	1,022	1,281!	2,002

1 Includes shipments to Alaska, Hawaii, and Puerto Rico.

Source of tables 815 and 816: Dept. of the Interior, Bur. of Mines; Minerals Yearbook.

No. 817.-CEMENT-PRODUCTION, BY KIND: 1890 TO 1939

NOTE.- Portland cement is expressed in barrels of 376 pounds; masonry, natural, and puzzolan cement in 1921 and later years in 376-pound barrels but prior to 1921 in barrels of 240, 265, and 320 pounds, respectively. For 1912 through 1924 the figures for masonry, natural, and puzzolan cement represent shipments.

YEAR	PRODUCTION IN THOUSANDS OF BARRELS				YEAR	PRODUCTION IN THOUSANDS OF BARRELS			
	Total	Port-land	Mason-ry nat-ural and puzzolan	Total value in thou-sands of dollars		Total	Port-land	Mason-ry, nat-ural and puzzolan	Total value in thou-sands of dollars
1890.	7,777	336	7,441	4,527	1924.	150,777	149,358	1,418	272,345
1895.	8,731	990	7,741	5,482	1925.	163,388	161,659	1,729	281,076
1900.	17,231	8,482	8,749	13,284					
1905.	40,102	35,247	4,855	35,932	1926.	166,635	164,530	2,105	1280,786
					1927.	175,330	173,207	2,124	
1910.	77,785	76,550	1,235	68,752	1928.	178,509	176,299	2,210	278,883
1912.	83,351	82,438	913	67,162	1929.	172,856	170,646	2,209	255,105
1913.	92,949	92,097	852	93,001	1930.	162,989	161,197	1,792	231,248
1914.	89,050	88,230	820	82,204					
1915.	86,708	85,915	794	74,285	1931.	126,671	125,429	1,242	1142,580
					1932.	77,198	76,741	457	82,718
1916.	92,363	91,521	842	101,379	1933.	63,984	63,473	511	86,229
1917.	93,454	92,814	639	125,106	1934.	78,419	77,748	672	117,882
1918.	71,515	71,082	433	114,132	1935.	77,748	76,742	1,006	1114,810
1919.	81,307	80,778	529	138,714					
1920.	100,791	100,023	767	203,198	1936.	114,469	112,650	1,819	1172,778
1921	99,381	98,842	539	187,708	1937.	118,075	116,175	1,901	1171,414
1922.	115,679	114,790	889	203,324	1938.	107,178	105,357	1,821	1156,703
1923.	138,732	137,460	1,272	263,122	1939.	124,698	122,259	2,439	1184,255

1 Value of shipments.

Source: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 818.-STONE SALES, BY KIND AND BY USE: 1933 TO 1939

VARIETY AND USE	QUANTITY SOLD, THOUSANDS OF SHORT TONS (2,000 POUNDS)							VALUE, 1,000 DOLLARS	
	1933	1934	1935	1936	1937	1938	1939	1938	1939
Total.	70,222	92,064	83,159	131,416	133,143	124,839	147,447	139,255	158,462
Granite	4,422	6,792	6,014	15,442	9,266	10,433	12,041	20,916	22,496
Basalt and related rocks.	7,394	11,643	9,672	14,014	13,581	13,909	16,091	12,280	14,164
Sandstone.	2,800	3,605	3,010	6,254	5,073	6,314	8,854	3,066	11,746
Marble.	225	177	132	166	208	219	228	5,248	6,689
Limestone.	45,922	57,502	57,493	87,736	94,577	81,680	100,846	82,287	94,817
All other.	9,459	12,345	6,838	7,804	10,438	12,284	9,387	10,458	8,550
Building stone.	870	711	830	1,001	1,159	1,006	1,353	11,895	16,008
Monumental.	166	187	179	236	249	202	211	7,359	7,266
Paving blocks.	60	64	78	75	74	38	326	463	3246
Curbing.	56	79	69	124	98	109	494	1,217	- 1,081
Flagging.	14	23	24	44	50	41	65	418	427
Rubble.	142	293	279	327	251	370	549	427	525
Riprap.	3,255	6,053	4,919	11,319	5,389	6,211	5,812	6,995	5,852
Crushed stone.	45,491	60,568	54,755	87,271	88,433	94,763	103,891	88,767	93,958
Furnace flux (limestone and marble)	7,985	9,231	12,192	17,725	21,332	9,703	17,288	6,943	12,632
Refractory stone.	501	677	866	1,324	1,525	660	1,492	992	2,044
Manufacturing industries (limestone and marble).	5,638	5,373	5,835	6,596					
Agricultural limestone and other.					14,583	11,737	16,666	13,779	18,422
	6,045	8,804	3,131	5,373					

1 Quantities of stones not sold by the short ton are expressed in the approximate equivalent in short tons; quantities of their selling units the quantities are as follows for 1939: Building stone (cut stone, slabs, and mill blocks), 9,300,300 cubic feet; monumental stone, 2,571,840 cubic feet; paving blocks, 2,797,560 (number); curbing, 1,175,260 cubic feet; and lagging, 789,410 cubic feet.

2 Included in paving blocks information, sandstone paving blocks are included under "curbing."

Source: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 819.- GLASS AND GLASSWARE PRODUCTION, BY KIND: 1931, 1935, AND 1937

NOTE.-Comparable figures not available for 1933. See third paragraph of general note, p. 802

	Unit	QUANTITY (THOUSANDS OF UNITS SPECIFIED)			VALUE (THOUSANDS OF DOLLARS)		
		1931	1935	1937	1931	1935	1937
Total value.					211,955	277,627	354,039
Window glass.	Sq. ft.	266,772	428,938	616,566	10,307	18,180	31,389
Obscured glass, including cathedral and skylight glass and opalescent sheet glass.	do.	17,796	14,372	27,698	2,389	1,644	3,966
Wire glass, rough and polished.	do.	15,664	11,961	21,343	1,800	1,369	2,719
Tableware, pressed and blown.					24,263	134,750	141,082
Shades, globes, reflectors, etc.					6,590	5,812	9,160
Lenses, except optical lenses.	Dozen.	(2)	2,045	2,977	1,362	1,876	3,085
Food-product containers	Gross.	13,194	14,686	17,059	50,929	54,147	59,740
Beverage containers.	do.	(2)	9,114	16,459	15,642	33,064	57,474
Medicinal and toilet preparation containers.	do.	12,765	14,579	18,348	30,280	30,345	36,157
Other glass and glass products					68,392	196,439	1109,267

Ovenware, previously included with "Tableware," is included with "Other glass and glass products."

: Including polished plate glass. Not including pressed ware (packers' ware) and jelly glasses (home-pack.)

No. 820.- CLAY PRODUCTS PRODUCTION, BY KIND: 1933, 1935, AND 1937

INDUSTRY AND PRODUCT	Unit	QUANTITY (THOUSANDS OF UNIT SPECIFIED)			VALUE (THOUSANDS OF DOLLARS)		
		1933	1935	1937	1933	1935	1937
CLAY PRODUCTS (OTHER THAN POTTERY)							
Total value.					52,772	90,178	159,009
Brick:							
Common.	Number.	1,019,810	1,811,341	3,252,633	8,816	18,238	34,010
Vitrified 1.	do.	63,111	71,800	84,678	1,224	1,724	2,049
Face.	do.	270,323	472,587	937,599	3,807	7,011	14,357
Drain tile.	Ton 2-	168	264	444	1,127	2,002	3,589
Sewer pipe.	do-	451	670	973	4,911	8,617	13,718
Architectural terra cotta.	do.	26	18	29	1,831	1,528	2,915
Hollow building tile or block.	do-	608	913	1,654	2,836	5,469	10,767
Tile (not drain):							
Roofing.	Squares.	103	135	228	911	1,145	2,054
Floor (incl. plain, vitreous, encaustic, quarry, etc.).	Sq. ft.-.	5,793	7,555	13,246	887	1,084	1,754
Ceramic mosaic (vitreous and semivitreous, unglazed).	do.	4,229	6,416	11,734	699	1,317	2,366
Faience (including art, enameled, and hand-decorated).	do.	8,401	12,625	29,182	2,386	3,862	9,066
Wall (white and bright glazed). ³	do.	9,930	10,705	10,052	1,552	3,091	2,689
Stove lining.	Ton 2-	6	8	12	224	236	310
Fire-clay products (shaped):							
Brick, block, etc.	Number.	382,076	494,899	728,406	13,834	20,567	34,940
Special shapes.	Ton 2--	107	156	184	2,293	3,265	4,751
All other clay products.					5,432	11,021	19,673
POTTERY, INCLUDING PORCELAIN WARE							
Total value-					44,024	68,283	97,365
Red earthenware (flower pots, etc.).					1,207	1,795	1,960
Stoneware (except chemical) and yellow and Rockingham ware.					2,222	1,677	1,889
White ware, cream color, white granite, semiporcelain, and semivitreous porcelain.					15,005	22,164	25,711
Hotel china.					5,008	7,198	10,018
Vitreous china plumbing fixtures.					7,709	12,969	20,148
Porcelain electrical supplies ⁵					7,056	12,504	24,837
Saggers.					326	424	587
All other products.					5,491	9,551	12,215

Excluding sewer liners. Figure for 1933 includes some brick made for purposes other than paving. Of 2,000 pounds. ³ Including trim.

Brick, block, or tile for locomotive and other fire-box lining, etc. (9-inch equiv.); and high alumina brick. Includes value of metal fittings for 1935 and 1937.

Source of tables 819 and 820: Dept. of Commerce, Bur. of the Census; reports of Biennial Census of Manufactures.

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MINING AND MINERAL PRODUCTS

No. 821. CLAY BUILDING MATEHLAL3-PaoDertoN OF BRICK, TILE, AND FTRE-CLAY PRODUCTS: 1915 TO 1938

YEAR	BRICK (MILLIONS)			VALUE THOUSANDS OF DOLLARS)							
	Com-mon	Vitri-fied	Face	Brick		Face	Archi-tec-tural terra cotta	Hol-low build-ing tile	Tile (other than hollow and drain)	Sewer pipe	Fire clay products
				Com-mon	Vitri-fied						
19152-	6,851	953	856	42,145	12,231	9,536	4,796	7,801	5,186	11,259	15,800
19202-	4,852	468	787	82,216	12,679	19,441	10,852	27,112	12,470	25,371	53,416
1923.	7,282	699	1,931	94,473	15,570	38,892	16,486	28,275	23,804	29,103	46,677
1924.	7,159	554	2,030	86,692	12,974	39,931	16,446	24,998	24,842	32,400	40,621
1925.	7,562	539	2,475	88,551	11,876	45,428	19,139	29,264	27,124	30,421	41,164
1926.	7,517	468	2,440	88,227	10,285	44,516	19,667	27,818	34,985	29,303	12,707
1927.	7,061	503	2,413	78,408	10,764	41,521	16,628	26,499	32,766	29,426	38,174
1928.	6,413	378	2,412	69,333	7,800	40,034	13,642	25,792	31,523	23,969	37,392
1929.	5,505	368	2,139	58,733	7,504	36,120	13,921	30,142	32,846	21,330	42,376
1930-	3,631	300	1,482	37,433	6,247	24,615	10,016	22,219	23,934	15,964	36,054
1931.	2,315	207	903	21,652	2,666	13,271	5,492	11,172	19,700	9,448	19,487
1932.	1,013	133	384	8,705	2,642	5,273	2,317	4,259	8,108	3,745	9,924
1933.	1,020	63	270	8,816	1,224	3,807	1,831	2,836	6,435	4,911	16,127
1934.	1,099	114	305	11,419	2,434	4,749	1,128	3,904	6,705	7,913	19,243
1935-	1,811	72	473	18,238	1,724	7,011	1,528	5,469	10,500	8,617	23,831
1936.	2,967	79	849	30,108	1,868	12,727	2,565	8,913	15,954	12,459	35,104
1937.	3,253	85	938	34,010	2,049	14,357	2,915	10,767	17,929	13,718	42,538
1938.	2,730	85	803	28,373	2,035	11,812	2,604	8,833	12,931	11,626	23,373

I Vitrified brick or excluding,sewer finers, for paving and other purposes through 1934; thereafter, for paving only. plateFrom Ceological Survey.
Source: Dept. of Commerce, Bureau ofthe Census; annual report, exceptas noted.

No. 822.- SALT- PRODUCTION, EXPORTS, AND IMPORTS, 1880 TO 1939, AND PRODUCTION, BY STATES AND BY KIND, 1915 TO 1939

NOTE.All quantity figures in short tons (2,000 pounds). Production figures represent sales plus that used by producers; they include Puerto Rico. Imports are imports for consumption

YEAR	Production	Exports	Imports	YEAR	Production	Exports	Imports	
1880.	834,548	1,642	500,703	1929.	8,543,560	109,222	36,450	
1885.	985,411	2,108	440,290	1930.	8,054,440	70,478	54,021	
1890.	1,242,779	2,464	257,323	1931	7,358,070	98,710	33,216	
1895-	1,913,751	3,602	279,575	1932.	6,407,973	63,581	28,018	
1900.	2,921,708	7,511	199,909	1933.	7,604,972	105,178	30,132	
1905.	3,635,257	34,238	161,159	1934.	7,612,074	105,365	53,124	
1910.	4,242,792	49,013	137,103	1935.	7,925,897	112,213	51,245	
1915-	5,352,409	80,474	122,326	1936.	8,828,936	76,974	51,041	
1920.	6,840,020	139,272	137,654	1937.	9,241,564	70,111	45,926	
1925.	7,397,500	155,079	85,788	1938.	8,025,768	67,498	39,513	
1928.	8,074,700	145,396	42,856	1939.	9,277,911	124,273	46,033	
STATE OR KIND		1915	1920	1925	1930	1935	1938	1939
Production, total.		5,352,403	3,840,029	7,397,500	8,054,440	7,926,897	8,026,768	9,277,911
By States:								
Michigan.		1,762,430	2,262,915	2,172,600	2,558,290	4,128,171	2,078,612	2,408,872
New York.		1,570,446	1,903,101	2,053,970	2,009,280	1,927,822	1,717,064	2,041,492
Ohio.		823,234	1,057,802	1,173,590	1,311,440	1,487,315	1,189,270	1,794,753
Kansas.		527,123	783,655	812,540	759,800	608,204	597,909	611,752
Louisiana.		(.)	255,085	500,350	535,250	702,990	958,186	1,072,0
California.		146,784	212,008	292,480	350,370	356,222	349,856	404,689
Texas.		62,297	91,103	(.)	(.)	268,809	324,449	352,008
Utah.		55,279	75,259	88,150	85,240	57,625	61,959	68,100
West Virginia.		32,513	29,802	25,870	28,670	65,968	129,568	143,727
Undistributed		372,303	159,299	277,950	416,100	323,771	318,895	348,943
By kinds:								
Manufactured (evapo-rated)-		2,335,823	2,409,924	2,235,170	2,358,610	2,336,042	2,428,100	2,658,577
In brine.		1,851,199	2,819,916	2,819,690	3,718,460	3,837,613	3,694,807	4,584,177
Rock salt-		1,165,387	1,610,189	2,342,640	1,977,370	1,759,242	1,901,851	2,035,157
Total value 2 (dollars)		11,747,686	29,894,075	26,162,361	25,009,480	21,837,911	23,242,561	24,508,680

Included in "Undistributed."
: F. o. b. mine or refinery; values da not include cost of coopeerage or containers.
Source: Department of the Interior, Bureau of Mines; Minerals Ycarbook.

No. 823.-ACCIDENTS IN MINERAL INDUSTRIES- NUMBER OF MEN EMPLOYED, KILLED, AND INJURED, AND RATE: 1924 TO 1938

YEAR	Average days active	MEN EMPLOYED		Man-days of employment	Number killed	Number injured	NUMBER KILLED OR INJURED PER THOUSAND 300-DAY WORKERS	
		Actual number	Equivalent 300-day workers				In-Killed	Injured
1924.	220	1,073,630	787,065	236,119,757	3,031	57,766	3.9	201.1
1925.	222	1,049,579	777,896	233,368,375	2,826	58,704	3.6	197.2
1926.	242	1,058,843	855,632	256,639,813	3,201	52,752	3.7	178.1
1927.	225	1,044,537	782,635	234,790,290	2,797	45,618	3.6	163.2
1928.	231	951,449	733,728	220,118,341	2,629	38,717	3.6	146.1
1929.	243	928,643	752,809	225,842,583	2,728	38,806	3.6	143.1
1930.	217	888,514	641,749	192,521,971	2,492	130,580	3.9	203.5
1931.	188	784,347	492,009	147,602,799	1,707	96,412	3.5	196.0
1932.	165	671,343	368,852	110,655,616	1,368	68,717	3.7	186.3
1933.	181	677,722	409,292	122,787,658	1,242	72,342	3.0	176.7
1934.	195	739,737	481,807	144,542,133	1,429	81,660	3.0	169.5
1935.	195	783,139	507,847	152,354,170	1,495	82,220	3.0	161.9
1936.	216	824,514	593,068	177,920,334	1,686	92,644	2.8	156.2
1937.	217	859,951	622,634	186,790,283	1,759	96,484	2.8	155.0
1938.	187	774,894	483,523	145,055,875	1,369	71,613	2.8	148.1

Excluding those injured in coal mines for years prior to 1930. Figures for 1930 and subsequent years, excluding data for coal mines, are: Number injured-1930, 26,759; 1931, 16,063; 1932, 9,745; 1933, 11,029; 1934, 13,652; 1935, 16,644; 1936, 23,067; 1937, 28,207; 1938, 20,304. Number injured per thousand 300-day workers-1930, 117.0; 1931, 99.7; 1932, 91.6; 1933, 93.6; 1934, 100.9; 1935, 98.3; 1936, 109.8; 1937, 117.7; 1938, 107.3.

Source: Department of the Interior, Bureau of Mines; see annual bulletins listed in source note, table 824.

No. 824.- ACCIDENTS IN MINERAL INDUSTRIES NUMBER OF MEN EMPLOYED, KILLED, AND INJURED, BY INDUSTRY GROUPS: 1938 AND EARLIER YEARS

YEAR	NUMBER EMPLOYED		INJURED			YEAR	NUMBER EMPLOYED		INJURED		
	Actual number	Equivalent 300-day workers	Killed	Temporary	Permanent		Actual number	Equivalent 300-day workers	Killed	Temporary	Permanent
Metal mines:						Metallurgical plants-Con.					
1915.	152,118	141,997	553	34,686	609	1934.	26,852	24,472	13	1,243	77
1920.	136,583	134,540	425	32,205	357	1935.	36,493	35,438	28	1,843	119
1925.	126,713	123,908	371	34,458	674	1936.	41,167	42,424	32	2,108	132
1930.	103,233	92,900	271	15,091	503	1937.	47,530	49,664	41	3,064	153
1931.	80,940	52,405	158	8,402	307	1938.	30,043	37,943	20	2,136	137
1932.	53,288	36,984	107	4,837	177						
1933.	57,016	38,807	116	5,799	193	Coke ovens:					
1934.	66,645	49,077	116	5,799	193	1916.	31,603	34,119	45	5,154	83
1935.	92,314	67,841	164	9,953	253	1920.	28,139	29,921	49	3,336	79
1936.	100,932	84,033	199	14,355	295	1925.	23,254	24,054	28	1,652	44
1937.	118,429	99,522	219	17,614	441	1930.	19,855	22,936	28	9905	32
1938.	103,027	78,353	156	12,347	375	1931.	15,564	18,163	9	4995	35
Quarries:						1932.	12,002	13,862	14	298	22
1915.	100,740	82,447	148	9,148	523	1933.	13,598	15,609	11	366	22
1920.	86,488	77,089	178	10,880	337	1934.	15,483	18,096	14	490	26
1925.	91,872	83,487	149	13,713	452	1935.	16,125	17,251	10	304	21
1930.	30,633	68,531	105	7,152	265	1936.	17,811	20,725	22	428	33
1931.	69,200	51,755	61	5,222	205	1937.	20,042	22,997		554	33
1932.	56,866	37,047	32	3,464	110	1938.	13,799	15,456	6	262	20
1933.	61,927	37,874	59	3,526	117	Coal mines:					
1934.	64,331	43,694	60	3,807	117	1911.	728,348	532,565	2,656		
1935.	73,005	48,744	51	4,023	129	1915.	734,008	511,598	2,269		
1936.	80,022	62,914	91	5,538	179	1920.	784,621	301,283	2,272		
1937.	84,094	67,547	77	6,171	177	1925.	748,805	480,227	2,234		
1938.	77,497	57,519	82	4,869	158	1929.	654,494	481,545	2,187		
Metallurgical plants:						1930.	644,006	112,979	2,063	101,093	2,728
1916.	80,201	88,596	83	14,863	217	1931.	589,705	330,880	1,463	78,478	1,871
1920.	59,232	65,587	61	8,714	149	1932.	527,623	262,484	1,207	57,445	1,527
1925.	58,935	66,220	44	7,480	231	1933.	523,182	297,419	1,064	59,972	1,341
1930.	40,787	44,403	25	2,570	156	1934.	566,426	346,468	1,226	66,304	1,704
1931.	28,938	28,806	16	1,304	89	1935.	565,202	338,572	1,242	63,701	1,874
1932.	21,564	18,474	8	778	59	1936.	584,582	382,972	1,342	67,652	1,924
1933.	21,999	19,583	13	1,018	61	1937.	589,856	382,904	1,413	66,344	1,933
						1938.	541,523	294,252	1,105	49,706	1,608

32. MANUFACTURES

[Statistics in this section relate to continental United States except as noted. For additional statistics on manufactured food products, mineral products, and forest products, see sections 27, 28, 29, and 311]

GENERAL NOTE.—The Census of Manufactures was taken decennially prior to 1899 and for each fifth year thereafter through 1919, and has since been taken biennially. The censuses for 1904, 1909, 1914, and 1919 covered all factories or plants whose products were valued at \$500 or more, but, beginning with 1921, the minimum limit has been \$5,000. As a rule, the term "establishment" signifies a single plant or factory, but in some cases an establishment operates two or more factories and in a few cases two or more departments of a single plant or factory are treated as separate establishments. At the Census for 1937, however, an establishment operating two or more factories was counted two or more establishments. The total number establishments was increased approximately 2,000 by this change.

"Value of products" represents selling value at the plant or factory. Because of the use of the products of some establishments as materials for others, the total cost of materials and the total value of products for all industries in a given group, and for all groups in the aggregate, include much duplication, estimated at roughly one-third of the gross value of products. Such duplication is not, however, found to any great extent within individual industries.

At the census for 1933 the smaller establishments in many industries were canvassed by means of an abridged schedule which did not call for detailed data on production, and therefore the production figures in the reports of that census for certain industries are somewhat incomplete. In cases in which the degree of incompleteness was sufficient to affect the comparableness of the statistics for different census years, the 1933 figures have been omitted from tables presenting detailed statistics of production in the 1937 and subsequent issues of the Statistical Abstract. Figures for 1933, together with 1931 figures adjusted for comparison with 1933, are, however, included in the 1936 edition.

It is sometimes necessary, for various reasons but chiefly because of changes in census classification, to make adjustments in the figures for earlier census years. Adjustments have been made as a result of the exclusion from the Census of Manufactures for 1937 of the industries "Gas, manufactured, illuminating and heating" and "Railroad repair shops." Adjustments have been made, also, as a result of the exclusion, beginning 1933, of the industries "Coffee and spice, roasting and grinding" and "Peanuts, walnuts, and other nuts, processed and shelled." The "Motion pictures, not including projection in theaters" industry was treated as a manufacturing industry in the censuses for 1921 to 1929, inclusive, but not in subsequent censuses. No adjustments of the figures for 1929 and earlier years have been made on account of this change, but its effect on the comparableness of the figures for different census years is very slight.

Detailed quantity and value figures for products of selected manufacturing industries are presented in certain of the Census tables in this section and in sections 27, 28, 29, and 311. The "total value" figures for the respective industries, as given in those tables, differ from the value of products of the corresponding industries, as given in table 830, because of the inclusion in the product-value totals of those tables, but not in the values of products for the corresponding industries in table 830, of data for those respective classes of commodities made as minor or secondary products by establishments engaged primarily in other lines of manufacture.

No. 825. MANUFACTURES SUMMARY: 1849 TO 1937

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased energy	Value of products ¹	Value added by manufacture ²
1,000 dollars						
Factories and hand and neighborhood industries:						
1849	123,025	957,059	236,755	555,124	1,019,107	463,983
1859	140,433	1,311,246	378,879	1,031,605	1,885,852	854,257
1869	252,148	2,053,996	466,205	1,990,742	43,385,860	411,395,119
1879	253,852	2,732,595	947,954	4,396,824	5,363,579	1,972,756
1889	355,405	4,251,535	1,891,220	5,162,014	9,372,379	4,210,365
1899	512,191	5,306,143	2,320,938	7,343,628	13,000,149	5,656,521
Factories, excluding hand and neighborhood industries:						
1899	205,237	4,509,684	1,895,414	5,441,437	11,103,726	4,662,288
1904	213,935	5,189,895	2,444,221	3,306,460	14,345,545	5,039,086
1909	265,509	6,273,239	3,210,277	11,875,782	2,067,674	8,191,892
1914	269,223	6,613,991	3,787,767	14,020,718	23,443,659	9,422,941
1914	173,656	6,478,713	3,783,259	13,824,278	23,065,565	9,241,287
1919	210,426	8,431,157	3,673,134	36,283,747	60,053,895	23,770,147
1921	192,275	5,484,447	7,467,690	24,445,982	41,748,686	17,302,704
1926	192,293	3,202,779	10,166,713	33,653,376	58,288,281	24,629,905
1926	184,108	7,879,508	9,994,341	35,193,579	50,925,575	25,731,996
1927	187,801	7,857,015	10,118,713	34,045,316	50,471,716	26,426,400
1929	206,311	8,380,536	10,909,815	37,441,140	58,178,340	30,737,200
1931	171,450	6,136,144	6,688,541	21,229,355	39,829,888	18,600,532
1933	139,325	5,787,611	4,940,146	15,549,788	30,557,328	14,007,540
1936	167,916	7,203,794	7,311,329	25,441,145	44,993,699	818,552,553
1937	166,794	8,569,231	10,112,883	735,539,333	60,712,872	825,173,539

See second paragraph of general note.

Value of products less cost of materials, containers, fuel, and purchased electric energy:

For all establishments having products valued at \$500 or more. ⁴ Reduced to gold basis.

¹ Figures for "Gas, manufactured, illuminating and heating" and "Railroad repair shops" have been excluded beginning 1899.

² For all establishments having products valued at \$5,000 or more. ⁷ Includes cost of contract work.

Calculated by subtracting sum of cost of materials, containers, fuel, purchased electric energy, and of contract work from value of products. Not strictly comparable with years prior to 1935.

Source: Dept. of Commerce, Bur. of the Census; reports of Biennial Census of Manufactures.

No. 826.- POPULATION, WAGE EARNERS, AND PRODUCTION INDEXES: 1899 TO 1937

NOTE.-See general note, p. 802

CENSUS YEAR	Popu- lation	Wage earners	Pro- duction (quan- tity)	Produc- tion per wage earner	CENSUS YEAR	Popu- lation	Wage earners	Pro- duction (quan- tity)	Produc- tion per wage earner
1899.	100	100	100	100	1925.	154	178	275	154
1904.	110	115	122	106	1927.	158	178	274	154
1909.	121	139	159	114	1929.	162	190	311	164
1914	131	147	170	116	1931.	166	140	206	147
1919.	140	191	214	112	1933.	168	131	192	147
1921	145	147	169	115	1935.	170	163	233	143
1923.	149	186	263	141	1937.	173	194	303	156

No. 827.- MANUFACTURING ESTABLISHMENTS CLASSIFIED ACCORDING TO NUMBER OF WAGE EARNERS: 1935 AND 1937

NOTE.-See general note, p. 802

NUMBER OF WAGE EARNERS	1935				1937			
	Estab- lish- ments	Average number of wage earners	Percent of total Establish- ments	Wage earners	ECstab- lish- ments	Average number of wage earners	Percent of total Establish- ments	Wage earners
Total.	167,916	7,203,794	100.0	100.0	166,794	8,563,231	100.0	100.0
None.	6,896		4.1		6,885		4.1	
1 to 5.	70,033	190,189	41.7	2.6	62,164	170,174	37.3	2.0
6 to 20.	45,136	509,255	27.5	7.1	46,402	514,487	27.8	6.0
21 to 50.	20,910	674,900	12.5	9.4	23,138	750,922	13.9	8.8
51 to 100.	10,373	741,823	6.2	10.3	11,911	852,373	7.1	9.9
101 to 250.	8,251	1,292,789	4.9	17.9	9,745	1,522,570	5.8	17.8
251 to 500.	3,141	1,085,782	1.9	15.1	3,911	1,363,000	2.3	15.9
501 to 1,000.	1,421	976,462	.8	13.6	1,660	1,133,323	1.0	13.2
1,001 to 2,500.	579	852,550	.3	11.8	737	1,080,534	.4	12.6
2,501 or more.	176	879,044	.1	12.2	241	1,181,748	.1	13.8

No. 828.- MANUFACTURING ESTABLISHMENTS CLASSIFIED BY VALUE OF PRODUCTS: 1937

NOTE.-See general note, p. 802

CLASS OF ESTABLISHMENTS ACCORDING TO VALUE OF PRODUCTS	ESTABLISH- MENTS		WAGE EARNERS		VALUE OF PROD- UCTS		VALUE ADDED BY MANUFACTURE	
	Num- ber	Percent distrib- ution	Average number	Percent distrib- ution	Amount (thousands of dollars)	Percent distrib- ution	Amount (thousands of dollars)	Percent distrib- ution
Total.	166,794	100.0	8,569,231	100.0	60,712,872	100.0	25,173,539	100.0 ^e
\$5,000 to \$19,999.	50,548	30.3	161,896	1.9	576,966	1.0	327,065	1.3
\$20,000 to \$49,999.	37,611	22.5	305,036	3.6	1,214,034	2.0	659,544	2.6
\$50,000 to \$99,999	23,661	14.2	385,439	4.5	1,683,661	2.8	879,270	3.5
\$100,000 to \$249,999.	23,422	14.0	763,574	8.9	3,729,973	6.1	1,799,924	7.2
\$250,000 to \$499,999.	12,763	7.7	857,354	10.0	4,511,524	7.4	2,076,254	8.2
\$500,000 to \$999,999.	8,908	5.3	1,128,224	13.2	6,279,012	10.3	2,834,843	11.3
\$1,000,000 to \$2,499,999.	6,098	3.7	1,517,198	17.7	3,96,818	15.5	4,157,931	16.5
\$2,500,000 to \$4,999,999.	2,132	1.3	1,021,809	11.9	7,337,152	12.1	3,251,715	12.9
\$5,000,000 and over.	1,651	1.0	2,428,701	28.3	25,983,732	42.8	9,186,995	36.5

Source tables 826, 827, and 828: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

No. 829.- INDUSTRIAL PRODUCTION INDEXES, BY GROUPS: 1923 TO 1940

NOTE. -1935-39 average=100. This is a revised series. For discussion of this revision, see Federal Reserve Bulletin for August 1940. The monthly indexes have been adjusted for seasonal variations and for the varying number of working days in the month.

MANUFACTURES												
Durable manufactures												
Nondurable manufactures												
YEAR AND MONTH	Total	Total	Total	Iron and steel	Machine-ry	Transportation equipment	Non-ferrous metals and products	Lumber and products	Stone, clay, and glass products	Total	Textiles and products	Leather and products
1923.	88	86	104	110	86	110	90	143	87	72	83	99
1924.	82	81	95	92	81	94	93	139	91	69	72	86
1925.	91	90	108	110	89	106	104	148	101	76	84	88
1926.	96	95	114	117	102	109	113	148	105	79	84	90
1927.	95	95	107	109	99	89	108	144	106	83	92	94
1928.	99	100	117	124	106	108	118	142	110	85	87	93
1929.	110	110	133	135	130	134	136	116	110	93	94	95
1930.	91	91	99	98	100	91	106	105	96	84	74	84
1931.	75	74	68	62	66	62	83	76	77	79	79	82
1932.	58	57	41	33	43	38	52	51	51	70	71	76
1933.	69	68	54	55	50	48	60	63	54	79	88	88
1934.	75	74	66	62	69	69	62	64	64	81	76	91
1935.	87	87	84	82	83	95	79	85	77	90	93	99
1936.	103	104	108	114	105	111	104	105	103	100	104	103
1937.	113	113	122	123	126	125	124	113	114	106	106	102
1938.	88	87	78	68	82	70	80	90	92	95	85	93
1939.	108	108	108	114	104	99	114	106	114	108	112	104
1939												
July.	104	104	101	103	101	86	102	104	114	106	113	107
August.	104	107	105	111	104	92	112	105	113	108	111	103
September.	113	113	114	128	108	99	128	108	116	111	114	103
October.	121	121	129	161	115	105	144	113	123	115	119	105
November.	124	124	133	161	123	102	153	121	120	117	128	108
December.	126	128	140	167	125	128	159	121	128	118	126	105
1940												
January.	122	122	135	147	127	137	154	115	123	113	118	101
February.	116	116	124	118	123	137	142	114	113	110	109	98
March.	112	112	118	106	123	131	132	111	120	106	99	93
April.	111	110	113	99	123	115	124	110	115	107	100	85
May.	115	114	119	118	124	116	126	112	113	110	103	87
June.	121	121	131	154	128	120	129	111	111	114	106	96
MANUFACTURES continued												
Nondurable manufactures- Continued												
MINERALS												
YEAR AND MONTH	Manu- factured food products	Alco- holic bever- ages	To- bacco products	Paper and products	Print- ing and pub- lish- ing	Petro- leum and coal pro- ducts	Chem- icals	Rub- ber pro- ducts	Total	Fuels	Met- als	
1923.	82		84	58	74	56	57	63	98	94	118	
1924.	81		83	61	79	59	56	66	89	86	107	
1925.	85		85	66	84	69	63	81	92	87	120	
1926.	87		88	72	92	76	70	80	99	95	125	
1927.	88		90	74	93	78	73	83	100	97	116	
1928.	93		92	79	96	87	78	98	99	95	120	
1929.	101		96	85	104	96	89	100	107	103	134	
1930.	100		93	79	97	89	87	78	93	91	101	
1931.	79		87	74	88	80	78	72	80	82	67	
1932.	90		79	65	74	69	68	64	66	72	35	
1933.	83		80	76	75	74	76	77	76	80	50	
1934.	88	74	87	75	80	79	83	86	80	83	58	
1935.	89	89	90	86	89	85	89	93	86	89	73	
1936.	98	109	99	98	99	97	99	107	99	99	102	
1937.	103	108	103	107	109	108	112	104	112	109	127	
1938.	101	96	102	95	96	100	96	83	97	99	86	
1939.	108	98	106	114	106	110	104	113	106	105	113	
1939												
July.	105	97	100	108	100	106	104	107	107	108	102	
August.	111	96	110	112	105	110	100	112	91	89	105	
September.	111	96	107	121	111	112	106	122	114	113	121	
October.	109	106	111	131	118	120	111	128	119	117	128	
November.	110	98	110	134	117	120	111	126	120	118	131	
December.	112	95	109	135	119	119	112	123	114	113	124	
1940												
January.	111	98	103	123	109	117	113	119	118	117	127	
February.	113	96	106	114	108	116	111	119	114	112	130	
March.	112	98	103	110	106	118	109	116	117	114	134	
April.	111	103	111	116	108	115	111	115	119	116	135	
May.	112	100	110	127	115	114	114	117	118	115	135	
June.	115	113	115	132	120	115	116	115	118	116	134	

Source: Board of Governors of the Federal Reserve System. Figures published monthly in Federal Reserve Bulletin.

No. 830. MANUFACTURES SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES:
1931 TO 1937

NOTE. The figures given in this table do not represent exactly the numbers of wage earners, values of products, etc., assignable to the classes of commodities from which the industries derive their names, as it is necessary for census purposes to classify each establishment as a whole in some one industry, according to its product of chief value, although in many cases a single establishment manufactures two or more classes of commodities. See also general note, p. 802.

GROUP OR INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	Wage earners (average for the year)	WAGES	COST OF MATERIALS, ETC., FUEL, PUR- CHASED ENERGY, AND CON- TRACT WORK	VALUE OF PRODUCTS	VALUE ADDED BY MANU- FACTURE
In thousands of dollars							
All industries, total.	1937	166,794	8,569,231	10,112,883	35,538,333	60,712,872	25,173,539
	1935	167,916	7,203,794	7,311,329	25,441,145	44,993,699	18,552,553
	1933	139,325	5,787,611	4,940,146	16,549,788	30,557,328	14,007,540
	1931	171,450	6,163,144	6,688,541	21,229,356	39,829,888	18,600,532
Food and kindred products, total	1937	48,727	888,298	977,776	7,911,368	11,265,610	3,354,242
	1935	48,936	797,442	799,881	6,724,450	9,510,675	2,786,224
	1933	40,285	666,237	620,558	4,210,015	6,604,036	2,394,021
	1931	47,767	635,359	725,669	5,315,248	7,958,362	2,643,113
Animal products, total.	1937	12,604	216,386	252,505	3,562,050	4,323,019	760,970
	1935	11,812	195,754	206,810	2,989,662	3,627,336	637,674
	1933	10,370	178,791	170,076	1,870,028	2,415,559	545,531
	1931	11,922	171,093	208,922	2,671,813	3,353,725	681,912
Butter	1937	3,716	19,437	19,619	510,114	589,767	79,652
	1935	3,458	18,434	17,516	423,163	501,216	78,052
	1933	3,166	16,498	15,062	316,843	385,512	68,669
	1931	3,367	15,667	18,623	393,228	463,472	70,245
Canned and cured Ash, crabs, shrimps, oysters, and clams,	1937	325	18,229	8,705	48,728	78,410	29,682
	1935	274	13,335	6,310	39,193	60,588	21,395
	1933	264	9,993	4,473	26,248	40,560	14,311
	1931	304	8,591	5,222	28,404	42,352	13,948
Cheese.	1937	2,567	4,482	4,359	95,672	112,786	17,114
	1935	2,573	4,344	3,936	84,122	98,950	14,827
	1933	2,157	3,141	2,910	46,791	57,334	10,542
	1931	2,371	2,964	3,564	54,081	68,072	13,991
Condensed and evaporated milk.	1937	601	8,967	9,964	166,606	210,718	44,112
	1935	467	8,458	8,319	130,945	171,489	40,544
	1933	436	6,331	6,100	96,698	131,086	34,388
	1931	485	6,121	7,256	109,397	148,598	39,201
Ice cream.	1937	2,885	18,664	21,269	143,587	282,003	138,416
	1935	2,447	17,321	19,104	101,276	209,685	108,408
	1933	2,118	14,367	16,145	66,315	158,386	92,072
	1931	2,948	17,819	25,416	110,504	268,515	158,011
Meat packing, wholesale.	1937	1,160	127,477	170,386	2,386,090	2,787,358	401,267
	1935	1,223	116,620	136,468	2,030,924	2,362,369	331,445
	1933	1,078	113,193	112,266	1,202,539	1,490,085	287,546
	1931	1,209	106,707	134,530	1,839,260	2,180,823	341,564
Poultry dressing and packing, wholesale.	1937	533	8,913	5,931	87,457	105,841	18,384
	1935	562	8,078	5,068	76,642	92,944	16,302
	1933	437	7,471	4,862	51,853	66,157	14,304
	1931	497	6,982	5,944	77,667	97,560	19,893
Sausage casings, not made in meat-packing establishments."	1937	31	875	899	4,415	6,539	2,124
Sausage, meat puddings, head- cheese, etc., not made in meat- packing establishments."	1937	786	9,342	11,372	119,380	149,598	30,218
Sausage, meat puddings, head- cheese, etc., and sausage cas- ings, not made in meat-pack- ing establishments.	1935	808	9,164	10,089	103,395	130,095	26,700
	1933	714	7,797	8,259	62,741	86,438	23,698
	1931	741	6,242	8,366	59,272	84,333	25,060

Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
: Value added by manufacture calculated for 1935 by subtracting cost of materials, etc., fuel,
purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work
not available except for a few industries.
are shown as separate industry for first time in 1937; no comparable data for prior years.

No. 830.— MANUFACTURES SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES:
1931 TO 1937— Continued

GROUP OR INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	Wage earn- ers (average for the year)	WAGES	COST OF MATE- RIALS, ETC., FUEL, PUR- CHASED ENERGY, AND CON- TRACT WORK 1	VALUE OF PRODUCTS	VALUE ADDED BY MANU- FACTURE 2
En thousands of dollars							
Food, etc.—Continued.							
Vegetable products, except beverages, total.	1937	27,005	561,877	576,216	3,838,341	5,691,874	1,853,532
	1935	28,727	510,339	479,484	3,355,764	4,887,189	1,531,425
	1933	22,895	423,716	376,508	2,161,744	3,510,035	1,348,292
	1931	27,443	414,051	451,559	2,518,798	4,177,353	1,658,555
Bread and other bakery prod- ucts.	1937	17,193	239,388	293,994	727,022	1,426,163	699,141
	1935	19,068	218,423	248,532	670,040	1,235,073	565,032
	1933	14,830	182,382	196,672	427,465	919,778	492,313
	1931	17,718	183,161	239,331	505,477	1,190,048	684,571
Canned and dried fruits and vegetables; canned and bottled juices; preserves, jellies, fruit butters, pickles, and sauces.	1937	2,772	137,064	92,638	498,562	788,927	290,366
	1935	2,744	116,298	70,612	409,241	649,644	240,403
	1933	2,072	84,274	45,239	268,420	439,988	171,568
	1931	2,535	80,184	54,001	322,005	513,001	190,996
Cereal preparations.	1937	112	8,133	10,792	94,906	164,495	69,589
	1935	110	7,890	8,526	82,433	146,681	64,248
	1933	103	7,115	7,270	55,015	111,026	56,011
	1931	111	7,018	9,005	69,427	141,583	72,157
Chewing gum.	1937	25	2,401	2,967	16,888	56,722	39,833
	1935	26	2,315	2,417	14,985	47,766	32,781
	1933	31	2,252	4,232	12,599	41,654	29,055
	1931	35	2,147	2,464	16,824	51,340	34,516
Chocolate and cocoa products, not including confectionery.	1937	40	7,402	8,129	74,131	102,346	28,215
	1935	44	8,291	7,996	66,407	93,047	26,639
	1933	54	6,460	6,115	41,572	67,754	26,182
	1931	55	5,677	6,649	50,045	87,346	37,301
Confectionery	1937	1,226	53,722	43,441	182,781	305,839	123,058
	1935	1,314	52,109	39,252	153,738	259,889	106,151
	1933	1,218	50,609	32,991	114,164	211,833	97,669
	1931	1,566	51,262	42,153	144,748	284,157	139,409
Corn sirup, corn sugar, corn oil, and starch.	1937	27	7,010	10,411	96,462	135,820	39,358
	1935	36	7,337	8,436	70,263	103,632	33,369
	1933	28	7,591	8,575	47,420	93,361	45,941
	1931	43	6,652	7,963	54,034	98,723	44,690
Feeds, prepared, for animals and fowls.	1937	1,126	14,397	15,839	338,505	415,211	76,706
	1935	942	11,606	11,068	230,622	288,662	58,040
	1933	710	8,791	7,866	122,070	161,343	39,273
	1931	796	8,449	9,402	162,734	209,921	47,187
Flavoring extracts, flavoring sir- ups, and related products.	1937	398	4,162	4,274	46,280	117,897	71,617
	1935	407	2,902	2,651	29,185	67,875	38,600
	1933	383	2,287	2,184	20,333	54,169	33,836
	1931	626	5,204	6,877	48,575	119,238	70,663
Flour and other grain-mill prod- ucts.	1937	2,238	26,390	30,186	722,711	856,310	133,600
	1935	2,193	26,495	27,105	716,222	853,219	136,997
	1933	1,932	23,207	22,591	443,671	456,003	113,432
	1931	2,412	22,840	27,298	461,091	598,041	136,950
Food preparations not elsewhere classified.	1937	1,049	16,794	15,367	200,808	278,639	77,831
	1935	1,029	14,138	12,126	158,541	222,606	64,065
	1933	802	10,664	8,992	100,609	152,754	52,144
	1931	782	8,939	9,120	90,171	147,546	57,375
Macaroni, spaghetti, vermicelli, and noodles.	1937	319	6,452	5,719	32,836	50,359	17,522
	1935	336	6,005	5,306	31,811	47,599	15,787
	1933	296	5,492	4,265	20,385	35,892	15,507
	1931	309	4,764	4,474	20,311	36,225	15,914

Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 not, except as noted.
: Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel,
purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are
available except for a few industries.

not Revised: revision not carried into subgroup or group total.

No. 830.- MANUFACTURES- SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES:
1931 TO 1937- Continued

GROUP OR INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	Wage earners (average for the year)	WAGES	COST OF MATERIALS, ETC., FUEL, PUR- CHASED ENERGY, AND CON- TRACT WORK 1	VALUE OF PRODUCTS	VALUE ADDED BY MANUFACTURE 2
In thousands of dollars							
Food, etc. Continued.							
Malt 5	1937	56	1,644	2,923	76,118	94,630	18,512
	1935	54	1,439	2,348	56,412	75,118	18,706
	1933	30	848	1,283	20,662	27,923	7,261
	1931	27	540	866	13,920	19,242	5,322
Oleomargarine (margarine) not made in meat-packing estab- lishments.	1937	16	1,214	1,607	30,987	44,563	13,575
	1935	14	1,176	1,303	23,293	32,402	9,109
	1933	16	841	855	8,312	12,766	4,454
	1931	32	1,043	1,352	15,269	22,818	7,548
Rice cleaning and polishing-	1937	61	2,218	1,356	38,816	46,853	8,037
	1935	68	2,025	1,312	34,214	44,113	9,899
	1933	50	1,636	1,022	22,697	30,683	7,987
	1931	55	1,503	1,276	31,813	40,360	8,547
Shortenings (other than lard), vegetable cooking oils, and salad oils.	1937	48	4,901	5,651	204,383	239,495	35,112
	1935	48	4,845	4,709	177,976	212,689	34,713
	1933	49	3,658	3,217	68,149	85,830	17,681
	1931	50	3,692	4,011	99,841	115,302	15,461
Sugar, beet.	1937	87	9,366	11,733	68,996	107,396	38,399
	1935	77	9,232	9,338	71,142	95,160	24,017
	1933	84	10,706	10,884	76,127	127,133	51,006
	1931	67	6,241	7,548	62,325	85,673	23,348
Sugar, cane, not including prod- ucts of refineries.	1937	72	4,221	2,380	20,722	29,151	8,429
	1935	74	2,944	1,530	18,298	26,281	7,983
	1933	67	2,371	1,228	11,594	18,233	6,639
	1931	68	2,032	1,333	10,008	13,981	3,973
Sugar refining, cane.	1937	23	14,024	15,973	362,653	424,631	61,978
	1935	18	13,832	13,914	336,177	377,214	41,038
	1933	19	11,495	12,237	281,536	337,075	55,539
	1931	19	11,855	15,547	335,933	395,303	59,370
Vinegar and cider.	1937	117	974	836	3,774	6,427	2,653
	1935	125	1,037	1,002	4,761	8,518	3,758
	1933	121	844	724	3,943	6,631	2,687
	1931	137	848	885	4,249	7,506	3,257
Beverages and ice, total.	1937	9,118	110,035	149,055	510,977	1,250,717	739,740
	1935	8,397	91,349	113,588	379,025	996,150	617,125
	1933	7,020	63,732	73,974	178,243	678,442	500,199
	1931	8,402	50,215	65,188	124,637	427,284	302,647
Beverages, nonalcoholic.	1937	3,920	27,979	30,981	112,380	276,779	164,399
	1935	3,175	16,778	17,343	62,094	159,298	97,204
	1933	2,903	15,123	14,197	41,873	111,297	69,424
	1931	4,250	23,905	30,082	76,045	212,567	136,522
Ice, manufactured.	1937	3,847	18,705	21,603	27,517	136,542	109,025
	1935	3,850	19,032	20,635	28,048	128,385	100,337
	1933	3,699	21,332	22,849	26,959	139,263	112,304
	1931	4,111	25,217	33,656	35,078	192,027	156,949
Liquors, distilled 6	1937	151	6,215	7,412	73,200	113,103	39,903
	1935	131	8,152	8,361	76,520	152,875	76,355
	1933	31	1,661	1,471	14,560	34,293	18,754
	1931	51	2,514	2,476	23,916	60,850	36,935
	1931 I	27	997 I	1,331 -	13,132 -	21,741 I	8,608

Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 not, except as noted.
 : Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel,
 purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are
 not available except for a few industries.

Revised; revision not carried into subgroup or group total.

: Figures for 1937 and 1935 not strictly comparable with those for earlier years, because of inclusion of data
 on malt houses, first reported separately by breweries for 1935.

for At the 1935 census ethyl alcohol was assigned to "Chemicals, n.e.c." and "Liquors, rectified, etc." were
 separately classified. The 1933 figures in italics have been adjusted for comparison with 1935 and 1937.

No. 830.- MANUFACTURES-SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES:
1931 TO 1937- Continued

GROUP OR INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	Wage earn- ers (average for the year)	WAGES	COST OF MATE- RIALS, ETC., FUEL, PUR- CHASED ENERGY, AND CON- TRACT WORK	VALUE OF PRODUCTS	VALUE ADDED BY MANUFAC- TURE
In thousands of dollars							
Food, etc.--Continued.							
Liquors, malt.	1937	653	47,037	79,275	201,917	537,105	335,189
	1935	666	39,169	60,615	139,918	420,030	280,112
	1933	525	23,501	33,480	76,194	229,961	153,767
Liquors, rectified and blended.	1937	210	7,094	6,732	72,378	144,455	72,077
	1935	260	5,883	4,527	57,128	99,130	42,002
Liquors, vinous.	1937	337	3,005	3,051	23,586	42,733	19,147
	1935	315	2,335	2,107	15,317	36,432	21,116
	1933	212	1,262	972	9,302	24,084	14,782
	1931	14	96	119	381	949	568
Textiles and their products, total.	1937	20,616	1,814,387	1,549,559	4,089,124	7,061,609	2,972,485
	1935	22,847	1,687,737	1,371,173	3,531,972	6,060,834	2,528,862
	1933	19,295	1,476,794	1,018,687	2,531,298	4,810,960	2,279,662
	1931	23,786	1,422,991	1,240,043	3,021,880	5,855,546	2,833,666
Textile mill products, total.	1937	6,279	1,125,514	957,003	2,252,972	3,986,881	1,733,908
	1935	6,699	1,063,307	837,956	1,918,282	3,347,137	1,428,855
	1933	6,208	967,315	658,660	1,410,791	2,714,070	1,303,279
	1931	6,818	899,607	755,284	1,527,216	3,024,190	1,496,974
Carpets and rugs, total.	1937	114	34,580	36,193	97,190	183,526	86,337
	1935	123	30,487	30,443	62,573	127,588	65,015
	1933	87	22,194	18,836	30,869	73,885	43,016
	1931	118	24,217	25,285	40,200	92,411	52,211
Carpets and rugs, paper-fiber and grass.	1937	9	788	768	1,220	3,152	1,932
	1935	12	692	572	824	2,092	1,268
	1933		221	186	228	609	382
	1931	6	311	258	297	875	578
Carpets and rugs, rag	1937	35	429	280	647	1,336	689
	1935	40	986	943	1,514	4,028	2,514
	1933	26	677	464	609	1,851	1,242
	1931	51	1,003	918	1,026	3,332	2,306
Carpets and rugs, wool (other than rag).	1937	55	30,779	32,171	83,574	162,187	78,613
	1935	55	27,633	27,710	56,234	115,257	59,023
	1933	54	21,296	18,186	30,032	71,425	41,393
	1931	61	22,903	24,109	38,876	88,204	49,328
Carpets yarn, woolen and worsted.	1937	15	2,584	2,973	11,749	16,851	5,103
	1935	16	1,176	1,218	4,002	6,211	2,209
Cordage and twine; jute goods: Ziner goods, total.	1937	162	22,427	18,501	55,033	98,425	43,392
	1935	148	18,609	13,949	34,542	68,858	34,316
	1933	142	16,986	11,091	25,314	55,546	30,233
	1931	151	16,439	12,926	32,736	65,574	32,838
Cordage and twine.	1937	118	14,043	11,683	38,022	66,418	28,396
	1935	112	12,260	9,074	23,743	46,956	23,213
	1933	110	11,145	7,373	18,284	38,714	20,429
	1931	117	11,087	8,627	24,402	47,557	23,155
Jute goods	1937	32	6,522	5,190	13,174	25,565	12,391
	1935	24	4,595	3,521	7,360	16,294	8,934
	1933	20	4,248	2,563	4,813	12,463	7,651
	1931	20	3,785	2,881	5,824	12,791	6,967

Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted. Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work not available except for a few industries.

No comparable figures available for 1931.

NG comparable figures available for earlier years.

Revised by adding figures for "Hats and caps, except felt and straw," formerly included in the "Cutting-

Because of changes in classification the figures below will not add to these totals.

Figures strictly comparable with those for 1933 and 1931.

Because of changes in classification of certain establishments, the figures for earlier years are not strictly comparable with those for 1937.

No. 830. MANUFACTURES SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES:
1931 TO 1937- Continued

GROUP OR INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	Wage earn- ers (average for the year)	WAGES	COST OF MATE- RIALS, ETC., FUEL, PUR- CHASED ENERGY, AND CON- TRACT WORK 1	VALUE OF PRODUCTS	VALUE ADDED BY MANUFAC- TURE 2
In thousands of dollars							
Textiles, etc. Continued							
Linen goods.	1937	12	1,862	1,628	3,836	6,441	2,605
	1935	12	1,754	1,354	3,439	5,607	2,168
	1933	12	1,593	1,156	2,216	4,370	2,153
	1931	14	1,567	1,417	2,510	5,226	2,716
Cotton manufactures, total-	1937	1,237	435,428	324,083	1,370,069	1,274,295	1,359,226
	1935	1,223	383,002	247,844	637,729	1,030,768	393,039
	1933	1,242	393,105	226,758	495,399	901,956	406,557
	1931	1,327	343,360	231,736	1,342,832	850,466	1,342,634
Cotton narrow fabrics.	1937	156	12,616	11,131	22,115	43,486	21,371
	1935	170	13,465	11,107	23,017	44,593	21,576
	1933	172	13,237	10,059	17,558	38,890	21,331
	1931	174	12,826	11,617	19,693	41,991	22,298
Cotton woven goods (over 12 inches in width).	1937	677	336,104	255,655	1,352,947	967,110	1,344,163
	1935	670	295,648	192,769	478,929	768,738	289,809
Cotton yarn and thread.	1937	395	86,206	56,834	1,155,093	260,604	1,310,510
	1935	372	73,414	43,570	134,103	214,835	80,731
Cotton woven goods (over 12 inches in width) and cotton yarn and thread.	1933	1,057	379,445	216,384	476,769	861,170	384,401
	1931	1,140	329,962	219,680	1,340,855	805,792	1,340,937
Fish nets and seines.	1937	9	502	463	1,914	3,095	1,181
	1935	11	474	399	1,680	2,602	923
	1933	13	423	315	1,072	1,895	824
	1931	13	572	438	1,283	2,682	1,399
Dyeing and finishing cotton, rayon, and silk, total.	1937	533	74,982	75,730	135,795	283,262	147,468
	1935	523	71,380	66,225	105,994	223,662	117,668
Dyeing and finishing, cotton fabric.	1937	246	49,635	49,112	106,171	204,052	97,881
	1935	245	43,319	38,348	74,672	144,128	69,456
Dyeing and finishing, rayon and silk fabric.	1937	159	18,003	19,633	22,809	57,599	34,791
	1935	146	20,836	21,505	24,548	59,387	34,839
Dyeing and finishing yarn (cot- ton, rayon, and silk)-for sale on commission.	1937	128	7,344	6,986	6,815	21,611	14,796
	1935	132	7,225	6,372	6,773	20,147	13,374
Felt goods, except woollen felts.	1937	39	3,711	4,529	18,649	29,649	11,000
	1935	40	3,576	3,438	13,505	23,697	10,192
Felts, caps, and hat and cap materials, total.	1937	528	28,892	29,199	66,437	122,815	56,378
	1935	617	26,862	27,718	56,410	107,322	50,912
	1933	547	23,269	19,688	38,573	77,292	38,718
	1931	671	23,844	26,452	53,772	106,817	53,045
Hats and caps, except felt and straw, men's.	1937	258	3,460	2,934	5,928	11,730	5,802
	1935	315	3,796	3,518	7,052	14,257	7,205
	1933	299	4,053	2,968	6,181	12,659	6,478
	1931	379	3,459	3,662	8,173	16,867	8,694
Hats, fur felt.	1937	140	15,926	17,705	34,732	66,775	32,042
	1935	152	14,660	16,454	27,645	55,907	28,262
	1933	117	12,540	11,935	19,138	40,600	21,462
	1931	138	14,084	16,538	29,509	59,616	30,107

Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 not, except as noted.
1. Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel,
purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are
available except for a few industries.

No comparable figures available for earlier years.

Revised by adding figures for "Hats and caps, except felt and straw," formerly included in the "Cut-
industries."

Figures not strictly comparable with those for 1933 and 1931.

Not strictly comparable with 1935 and 1933 because of the inclusion of processing taxes in the cost of
materials, etc., for those years.

No. 830. - MANUFACTURES- SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES:
1931 TO 1937- Continued

GROUP OR INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	Wage earn- ers (average for the year)	WAGES	COST OF MATE- RIALS, ETC., FUEL, PUR- CHASED ENERGY, AND CON- TRACT WORK 1	VALUE OF PRODUCTS	VALUE ADDED BY MANUFACTURE 2
In thousands of dollars							
Textiles, etc.-Continued.							
Hat and cap materials, men's.	1937	69	2,444	2,154	10,091	15,216	5,125
	1935	88	2,483	2,206	8,875	13,604	4,729
	1933	76	1,898	1,465	6,199	9,716	3,517
	1931	95	1,935	2,077	6,554	11,010	4,456
Hats, straw, men's.	1937	47	3,024	2,692	7,138	13,622	6,484
	1935	50	2,918	2,644	7,471	12,369	4,898
	1933	46	3,147	2,056	5,217	9,947	4,730
	1931	50	2,823	2,784	7,253	13,892	6,639
Hat bodies, carded wool felt.	1937	14	4,038	3,714	8,547	15,473	6,926
	1935	12	3,005	2,896	5,367	11,185	5,318
	1933	9	1,631	1,264	1,838	4,369	2,531
	1931	9	1,543	1,390	2,283	5,432	3,149
Knit goods, total.	11 1937	1,821	231,064	199,057	329,489	659,974	330,485
	11 1935	1,852	219,776	184,478	315,573	606,726	291,153
	1933	1,577	189,698	132,030	142,493	498,350	248,993
	1931	1,706	178,011	149,589	142,966	585,677	288,990
Gloves and mittens, knitted.	1937	15	3,182	2,121	2,330	5,795	3,465
Hosiery.	11 1937	745	150,460	136,264	159,917	361,576	201,658
	11 1935	695	138,021	121,377	146,562	315,187	168,625
	1933	614	117,919	82,959	141,203	263,710	143,354
	1931	621	112,374	95,129	141,560	331,209	175,158
Knitted cloth.	1937	213	11,360	10,558	44,298	68,001	23,703
	1935	213	11,370	9,486	43,483	64,030	20,547
	1933	167	8,956	7,246	143,388	49,892	16,505
	1931	157	7,544	7,171	143,628	53,043	16,415
Knitted outerwear-regular fac- tories.	1937	505	23,424	19,504	58,867	102,244	43,378
Knitted outerwear-contract fac- tories.	1937	164	2,715	2,050	658	4,592	3,934
Knitted underwear 13	1935	758	35,455	30,170	71,599	131,455	59,856
	1933	601	26,908	19,574	145,061	92,547	41,866
	1931	710	26,142	24,744	145,070	111,573	52,502
Knitted underwear.	1937	179	39,923	28,560	63,419	117,767	54,348
	1935	186	34,930	23,445	53,929	96,054	42,124
	1933	195	35,915	22,251	44,931	92,200	47,269
	1931	218	31,951	22,545	144,938	89,853	44,916
Lace goods.	1937	57	8,109	9,087	10,534	28,342	17,809
	1935	56	7,858	8,686	10,940	27,528	16,588
	1933	44	5,911	5,582	145,813	16,929	11,116
	1931	42	6,043	6,289	6,123	19,162	13,040
Rayon and silk manufactures, total.	1937	848	116,839	92,440	248,270	404,735	156,465
	11 1935	1,105	125,908	95,479	197,811	354,226	156,415
Rayon broad woven goods (18 inches wide and over).	1937	237	57,949	48,946	149,192	229,773	80,581
	11 1935	274	58,508	46,593	103,306	174,598	71,292
Rayon narrow fabrics.	1937	112	5,568	4,830	8,347	18,535	10,188
	11 1935	92	3,399	2,727	4,199	9,845	5,646
Rayon throwing and spinning- commission only.	1937	25	1,937	1,191	472	2,400	1,927
	11 1935	45	5,270	3,147	1,145	6,014	4,869

1. Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
2. Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.
3. No comparable figures available for earlier years.
Figures not strictly comparable with those for 1933 and 1931.
Revised to include cost of contract work.
Includes data for knitted gloves and mittens for 1935 and prior census years.

No. 830.- MANUFACTURES SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES:
1931 TO 1937-Continued

GROUP OR INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	Wage earners (average for the year)	WAGES	COST OF MATE- RIALS, ETC., FUEL, PUR- CHASED ENERGY, AND CON- TRACT WORK ¹	VALUE OF PRODUCTS	VALUE ADDED BY MANUFAC- TURE ²
In thousands of dollars							
Textiles, etc.-Continued.							
Rayon yarn and thread-pro- cessed for sale.	1937 811935	51 36	5,399 3,141	3,652 2,485	14,800 8,741	21,729 14,048	6,929 5,306
Silk broad woven goods (18 inches wide and over).	1937 811935	194 396	17,597 27,104	14,010 21,249	38,886 52,903	63,098 90,286	24,212 37,382
Silk narrow fabrics.	1937 811935	81 91	4,527 4,515	4,201 4,173	5,525 4,734	13,770 13,254	8,245 8,519
Silk throwing and spinning- commission only.	1937 811935	96 132	13,290 16,480	7,789 9,693	3,633 3,563	15,278 17,469	11,645 13,907
Silk yarn and thread-made for sale.	1937 811935	52 39	10,572 7,491	7,820 5,413	27,415 19,219	40,152 28,712	12,737 9,494
Waste and related products, total, 16	1937 811935	236 313	10,205 9,245	9,155 7,347	50,486 42,446	75,055 66,022	24,569 23,576
Batting, padding, and wadding; upholstery filling, 16	1937 811935	110 110	4,645 3,248	4,353 2,592	23,888 15,853	36,870 25,631	12,982 9,778
Processed waste and recovered wool fiber-for sale.	1937 1935 1933 1931	126 203 168 172	5,560 5,997 4,563 4,222	1,801 4,755 2,920 3,171	26,598 26,593 15,178 13,555	38,185 40,391 25,244 22,295	11,587 13,798 10,067 8,740
Wool and hair manufactures, total.	1937 811935	704 699	159,277 166,604	159,080 152,349	536,021 440,532	825,802 710,740	290,781 270,209
Woolen and worsted dyeing and finishing.	1937 811935	53 66	2,563 3,369	2,807 3,406	4,675 6,852	11,063 16,065	6,387 9,214
Woolen woven goods, including woolen felts.	1937 811935	332 323	61,931 64,986	62,508 60,451	173,054 135,377	288,748 246,928	115,694 111,551
Woolen yarn.	1937 811935	41 43	2,749 2,909	2,777 2,567	8,594 7,356	13,558 11,596	4,965 4,241
Wool scouring.	1937 1935 1933 1931	26 20 20 21	1,252 1,527 1,395 1,377	1,393 1,765 1,418 1,968	1,916 2,115 1,189 1,160	4,550 6,055 4,404 4,640	2,635 3,940 3,215 3,480
Wool combing-commission, and - tops for sale.	1937 811935	11 12	3,252 2,648	3,558 2,616	4,574 3,541	10,299 8,045	5,726 4,504
Worsteds woven goods.	1937 811935	176 167	70,227 72,068	71,101 66,138	276,905 226,531	408,842 338,442	131,937 111,911
Worsted yarn.	1937 811935	71 68	17,303 19,097	14,847 15,405	66,303 58,760	89,741 83,609	23,438 24,849
The cutting-up industries, total.	181937 1935 2933 1931	13,217 14,952 12,127 15,666	661,767 602,513 491,420 503,600	562,691 510,074 343,315 460,964	1,747,222 1,544,852 1,073,988 1,441,047	2,907,211 2,580,706 1,993,527 2,708,665	1,159,989 1,035,853 919,539 1,266,718

Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
² Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.

No comparable figures available earlier years.

¹ Excludes data for wiping rags for 1937 because not considered a manufactured product. Such data included for 1935.

Revised include data for "hair cloth," which has been abandoned as a separate classification.
² Because the fact that some establishments, such as those in all apparel industries, lose their identity during a 2-year period through change of name, ownership, and location, and, therefore, may be missed by a canvass made largely by mail, the 1937 statistics are not complete.

No. 830. MANUFACTURES-SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES:
1931 TO 1937- Continued

GROUP OR INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	Wage earners (average for the year)	WAGES	COST OF MATERIALS, ETC., FUEL, PUR- CHASED ENERGY, AND CON- TRACT WORE 1	VALUE OF PRODUCTS MANUFACTURED 2	VALUE ADDED BY MANUFACTURE 2
In thousands of dollars							
Textiles, etc.-Continued.							
Men's, youths', and boys' clothing, not elsewhere classified, total.	1937	2,217	138,314	142,257	358,403	618,197	259,794
Clothing, men's, youths', and boys', not elsewhere classified-regular factories.	1937	1,282	94,361	101,042	353,884	558,997	205,113
Clothing, men's, youths', and boys', not elsewhere classified-Home-contract factories.	1937	935	43,953	41,216	4,519	59,200	54,681
Men's and boys' cotton, leather, and tied garments, total.	1937	1,573	166,300	100,408	293,950	477,563	183,613
Clothing, leather and sheep-lined.	1937	78	4,075	3,720	14,399	20,973	6,573
Clothing, work (including work shirts), and sport garments, except leather.	1937	675	69,502	41,265	132,868	204,390	71,522
Shirts (except work shirts), collars, and nightwear-regular factories.	1937	409	55,570	34,948	102,835	174,988	72,154
Shirts except work shirts), collars, and nightwear-contract factories.	1937	120	12,024	6,107	1,214	8,240	8,025
Shirts and nightwear and collars)	1935	555	60,777	38,059	94,053	159,769	65,716
Trousers (semidress), washsuits, and washable, service apparel.	1937	232	15,817	9,532	28,779	16,778	17,999
Underwear, men's-regular factories.	1937	50	7,888	4,213	13,707	20,285	6,578
Underwear, men's-contract factories.	1937	9	1,424	623	148	910	762
Underwear, men's.	1935	65	7,655	4,021	11,654	18,963	7,314
Miscellaneous apparel and allied products, total.	1937	502	20,803	15,654	59,425	95,676	36,251
Furnishing goods, men's, not elsewhere classified-regular factories.	1937	333	12,144	9,794	37,080	60,064	22,984
Furnishing goods, men's, not elsewhere classified-contract factories.	1937	31	753	533	81	854	773
Furnishing goods, not elsewhere classified.	1935	427	11,185	9,615	32,294	56,528	24,234
Handkerchiefs-regular factories.	1937	58	4,065	2,548	13,470	18,776	5,306
Handkerchiefs - contract factories.	1937	16	932	586	134	944	810

Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.

1. Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.

2. No comparable figures available for earlier years.

3. Because of the fact that some establishments, such as those in apparel industries, lose their identity 2-year period through change of name, ownership, and location, and, therefore, may be missed by

Summary: made largely by mail, the 1937 statistics are not complete.

No. 830.- MANUFACTURES-SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES:
1931 TO 1937- Continued

GROUP OR INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	Wage earnings (average for the year)	WAGES	COST OF MATE- RIALS, ETC., FUEL, PUR- CHASED ENERGY, AND CON- TRACT WORK ¹	VALUE OF PRODUCTS	VALUE ADDED BY MANUFAC- TURE ²
In thousands of dollars							
Textiles, etc.- Continued.							
Hankerchiefs.	1935	89	4,889	3,216	11,210	18,443	7,233
	1933	74	4,701	2,442	8,060	14,924	6,864
	1931	88	4,761	3,221	10,255	18,798	8,543
Suspenders, garters, and other elastic woven goods, made from purchased webbing.	1937	64	2,903	2,193	8,660	15,038	6,379
	1935	74	2,719	1,956	8,578	14,659	6,080
	1933	62	2,617	1,827	148,150	12,781	4,631
	1931	71	3,257	2,442	9,995	17,165	7,170
Gloves and mittens, cloth or cloth and leather combined, made from purchased materials.	1937	107	12,679	7,847	18,705	32,560	13,855
	1935	115	8,048	4,488	10,333	18,940	8,608
	1933	C1	8,586	3,547	8,743	16,012	7,270
	1931	106	7,101	3,319	8,912	14,539	5,627
Women's, misses', and children's apparel not elsewhere classified, total.	81937	6,337	242,879	225,615	724,549	1,213,202	488,653
Blouses, women's, misses', and children's-regular factories.	81937	128	3,850	3,350	16,774	26,785	10,010
Blouses, women's, misses', and children's-contract factories.	81937	64	2,554	1,661	145	2,435	2,290
Outerwear, children's and infants'-regular factories.	81937	346	15,962	13,295	46,731	77,522	30,791
Outerwear, children's and infants'-contract factories.	81937	106	5,157	3,308	276	4,941	4,665
Coats, suits, and separate skirts, women's, misses', and juniors'-regular factories.	81937	1,005	20,690	29,708	201,551	290,124	88,572
Coats, suits, and separate skirts, women's, misses', and juniors'-contract factories.	81937	762	18,923	22,004	2,163	31,097	28,934
Dresses, except house dresses-regular factories.	81937	1,147	48,217	54,278	258,464	403,074	144,610
Dresses: except house dresses-contract factories.	81937	1,275	43,874	42,655	2,635	58,503	55,868
Dresses: House dresses, uniforms, and aprons-regular factories.	81937	403	28,250	17,165	55,684	93,892	38,208
Dresses: House dresses, uniforms, and aprons-contract factories.	81937	79	4,039	2,203	278	3,242	2,964
Underwear and nightwear of cotton and flannelette woven fabric, women's, children's, and infants'.	81987	122	8,835	5,511	19,600	30,050	10,450
Underwear and nightwear of knitted fabric, women's, children's, and infants'.	81937	113	10,453	6,562	21,418	36,373	14,955

Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 not, except as noted.
¹ Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work not available except for a few industries.

No comparable figures available for earlier years.

Revised to include cost of contract work.
 Because of the fact that some establishments, such as those in all apparel industries, lose their identity a 2-year period through change of name, ownership, and location, and, therefore, may be missed by census made largely by mail, the 1937 statistics are not complete.

No. 830. MANUFACTURES SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES:
1931 TO 1937 **Continued**

GROUP OR INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	Wage earners (average for the year)	WAGES	COST OF MATE- RIALS, ETC., FUEL, PUR- CHASED ENERGY, AND CON- TRACT WORK ¹	VALUE OF PRODUCTS	VALUE ADDED BY MANUFAC- TURE ²
In thousands of dollars							
Textiles, etc.—Continued.							
Clothing, women's, misses', and children's, not elsewhere classified—regular factories.	51937	654	26,897	20,613	98,374	149,958	51,585
Clothing, women's, misses', and children's, not elsewhere classified—contract factories.	81937	133	5,178	3,304	455	5,207	4,752
Millinery, total.	1937	755	21,560	22,921	41,007	88,242	47,235
	1935	1,033	22,770	23,988	40,042	88,989	48,947
	1933	834	22,574	20,313	34,646	77,347	42,701
	1931	1,134	25,612	32,565	71,795	144,575	72,780
Millinery—regular factories.	81937	723	21,321	22,654	40,855	87,544	46,690
Millinery—contract factories.	81937	32	239	268	152	697	545
Corseta and allied garments.	1937	215	16,385	13,255	32,514	70,789	38,274
	1935	241	15,635	12,036	32,532	66,947	34,415
	1933	179	14,017	9,388	29,034	58,092	29,058
	1931	204	13,977	11,496	31,694	71,923	40,229
Fabricated textile products other than wearing apparel, total.	1937	1,511	42,847	34,733	218,669	310,982	92,313
	81935	1,561	32,503	25,399	163,462	236,683	73,222
Awnings, tents, sails, and canvas covers. ¹⁵	1937	367	4,732	4,844	17,506	30,324	12,818
	81935	421	3,987	3,974	12,582	22,809	10,227
Bags, other than paper.	1937	186	12,075	9,749	103,725	130,001	26,276
	1935	198	10,920	8,048	88,001	111,566	23,564
	1933	169	10,543	6,977	69,537	92,115	22,578
	1931	189	11,985	9,111	79,173	104,991	25,818
Curtains, draperies, and bed-spreads—regular factories.	1937	284	8,934	5,908	37,253	52,517	15,264
Curtains, draperies, and bed-spreads—contract factories.	1937	48	711	506	173	1,109	937
Curtains, draperies, and bed-spreads.	81935	352	6,934	5,185	27,536	42,645	15,109
Household furnishings, not elsewhere classified.	1937	404	11,346	9,230	14,710	69,391	24,681
	81935	421	7,737	5,902	28,918	46,433	17,515
Fabricated textile products not elsewhere classified.	1937	101	2,903	2,874	11,567	19,771	8,204
	1935	52	1,187	941	3,274	5,841	2,567
Flags, banners, regalia, vestments, robes, and related products.	1937	121	2,146	1,623	3,736	7,870	4,134
	1935	117	1,738	1,349	3,151	7,389	4,239
	1933	98	1,494	1,046	2,011	4,948	2,936
	1931	129	2,204	2,083	3,458	8,443	4,985
The processing industries, total.	1937	1,120	27,106	29,865	88,930	167,517	78,587
	1935	1,196	21,917	23,143	68,838	132,992	64,154
	1933	960	18,060	16,712	46,519	103,363	56,844
	1931	1,303	19,784	23,800	52,718	122,692	69,974

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¹ Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 not, except as noted.
² Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.

No comparable figures available for earlier years.

¹⁵ Restricted to establishments with products valued at \$20,000 or more.

No. 830.— MANUFACTURES SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES:
1931 TO 1937—Continued

GROUP OR INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	Wage earn- ers (average for the year)	WAGES	COST OF MATE- RIALS, ETC., FUEL, PUR- CHASED ENERGY, AND CON- TRACT WORK ¹	VALUE OF PRODUCTS	VALUE ADDED BY MANUFACTURE ²
In thousands of dollars							
Textiles, etc.— Continued.							
Embroideries; trimmings (not made in textile mills); stamped art goods, total. ¹²	1937	1,071	15,189	13,314	28,234	57,908	29,674
	1935	1,147	11,859	10,839	21,620	46,273	24,653
	1933	912	9,765	7,949	1411 6,608	35,314	18,706
	1931	1,252	11,773	13,183	18,361	50,533	32,171
Embroideries— Schiffli-machine products—regular factories.	1937	98	1,171	999	2,783	5,220	2,437
Embroideries— Schiffli-machine products—contract factories.	1937	173	1,586	1,418	1,668	4,969	3,301
Embroideries— Schiffli-machine products.	1935	308	2,360	2,162	4,263	9,618	5,355
Embroideries—Other than Schiff- li-machine products— regular factories.	1937	47	548	459	676	1,632	956
Embroideries— Other than Schiff- li-machine products—contract factories.	1937	267	3,394	2,859	1,472	6,956	5,485
Embroideries— Other than Schiff- li-machine products.	1935	351	3,351	2,991	2,173	7,792	5,619
Embroideries— Schiffli-machine and other).	1933	047	4,652	3,874	144,261	12,194	7,933
	1931	732	5,561	5,330	146,851	20,224	13,373
Trimmings (not made in textile mills); stamped art goods— regular factories.	1937	203	4,362	3,710	20,241	30,285	10,044
Trimmings (not made in textile mills); stamped art goods— contract factories.	1937	283	4,128	3,870	1,394	8,847	7,452
Trimmings (not made in textile mills); stamped art goods.	1935	488	6,148	5,687	15,184	28,863	13,679
	1933	365	5,113	4,075	1412,347	23,120	10,773
	1931	520	6,212	6,853	13,824	30,308	16,485
Artificial leather of cloth, total.	1937	33	3,810	5,173	27,783	40,425	12,637
	1935	33	3,648	4,199	23,277	34,321	11,045
	1933	30	3,203	3,416	15,011	26,236	11,225
	1931	30	3,170	4,288	17,339	28,181	11,843
Artificial leather.	1937	25	2,541	3,475	18,413	27,607	9,194
	1935	25	2,254	2,577	14,009	21,218	7,209
	1933	22	1,952	1,955	8,148	13,584	5,436
	1931	21	1,941	2,477	9,083	15,195	6,112
Oilcloth.	1937	8	1,269	1,698	9,374	12,817	3,443
	1935	8	1,394	1,623	9,267	13,103	3,836
	1933	8	1,251	1,461	6,864	12,653	5,789
	1931	9	1,229	1,811	8,256	13,986	5,730
Asphalted—oil—Daece floor cover- ing—Zinoleum, total.	1937	16	8,107	11,378	52,908	69,184	36,276
	1935	16	6,410	8,105	23,942	52,398	28,456
	1933	18	5,092	5,347	16,320	41,812	25,492
	1931	21	4,841	6,329	17,017	42,977	25,960

Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 not, except as noted.
¹ Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel,
purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are
not available except for few industries.

¹² Because of changes in classification of certain establishments, the figures for earlier years are not strictly
comparable with those for 1937.

¹⁴ Revised to include cost of contract work.

No. 830.— MANUFACTURES— SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES:
1931 TO 1937— Continued

GROUP OR INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	Wage earners (average for the year)	WAGES	COST OF MATERIALS, ETC., FUEL, PUR- CHASED ENERGY, AND CON- TRACT WORK ¹	VALUE OF PRODUCTS	VALUE ADDED BY MANU- FACTURE ²
In thousands of dollars							
Textiles, etc.—Continued.							
Asphalted-le-t-Dase floor cover- ing.	1937	13	3,280	4,773	17,630	33,548	15,918
	1935	12	2,694	3,480	12,558	28,371	15,814
	1933	13	2,271	2,546	9,564	22,714	13,150
	1931	15	1,946	2,734	9,151	19,993	10,842
Linoleum.	1937	3	4,827	6,604	15,278	35,637	20,358
	1935	4	3,716	1,624	11,384	24,026	12,642
	1933		2,821	2,800	6,756	19,098	12,342
	1931	5	2,805	3,595	7,866	22,984	15,118
Forest products, total.	1937	18,012	694,341	636,724	1,173,931	2,439,530	1,265,600
	1935	16,127	579,012	438,395	793,534	1,662,221	868,686
	1933	12,295	454,171	289,097	509,182	1,127,405	618,223
	1931	16,016	509,665	440,176	763,631	1,646,922	883,291
Basic industries, total.	1937	8,692	326,394	276,113	369,805	880,540	510,735
	1935	6,924	283,309	190,125	230,939	573,291	342,352
	1933	4,676	216,461	119,117	130,595	368,985	238,389
	1931	6,010	225,831	163,833	167,715	463,117	295,402
Excelsior.	1937	52	960	730	1,335	3,033	1,698
	1935	48	831	532	1,031	2,444	1,413
	1933	50	809	432	863	2,094	1,231
	1931	61	927	683	1,412	2,983	1,571
Lumber and timber products not elsewhere classified.	1937	7,647	323,928	275,034	345,800	848,481	502,681
	1935	5,981	255,230	183,074	222,440	551,614	329,174
	1933	3,783	189,367	113,183	123,450	350,464	227,013
	1931	4,996	196,647	155,870	160,511	443,629	283,118
Turpentine and rosin.	1937	993	1,506	350	22,670	29,025	6,356
	1935	895	27,248	6,519	7,468	19,233	11,765
	1933	843	26,285	5,501	5,282	16,427	10,145
	1931	953	28,257	7,280	5,793	16,506	10,713
Ned-remprHmzindufies, total.	1937	3,805	94,178	92,106	216,650	403,001	186,351
	1935	3,694	73,188	61,914	141,228	270,256	129,028
	1933	3,106	53,863	39,175	89,844	177,116	87,272
	1931	4,430	75,574	78,144	157,063	310,678	153,615
Lasts and related products.	1937	48	1,444	1,833	1,624	5,433	3,809
	1935	43	1,496	1,911	1,459	5,521	4,062
	1933	47	1,404	1,687	1,308	5,044	3,737
	1931	51	1,497	2,020	1,683	5,747	4,065
Planing-mill products and other wooden products not elsewhere classified, made in planing mills not connected with sawmills.	1937	2,858	66,814	67,745	174,795	312,552	137,758
	1935	2,753	48,297	42,179	109,108	196,272	87,164
	1933	2,356	35,388	26,117	67,880	124,235	56,355
	1931	3,453	54,493	58,552	125,760	235,681	109,920
Window and door screens and weather strip.	1937	144	2,833	3,034	7,394	14,748	7,353
	1935	141	1,873	1,744	4,123	8,668	4,545
	1933	123	1,571	1,223	2,911	6,314	3,403
	1931	207	2,564	2,971	5,713	13,539	7,826
Wood turned and shaped and other wooden goods, not else- where classified.	1937	755	23,087	19,493	32,837	70,268	37,431
	1935	752	21,522	16,080	26,537	59,794	33,257
	1933	580	15,500	10,147	17,746	41,523	23,777
	1931	719	17,020	14,602	23,907	55,710	31,804
Wooden-container indus- tries, total.	1937	1,294	48,173	36,169	87,624	160,350	72,726
	1935	1,344	45,122	29,600	70,113	130,486	50,373
	1933	1,217	42,007	24,183	59,078	108,952	49,874
	1931	1,490	43,277	33,056	73,825	139,016	65,192

Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
¹ Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel,
purchased energy, work from value of products; for 1933 and 1931 figures for contract work are
not available except for certain industries.

No. 830. MANUFACTURES- SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES:
1931 TO 1937- Continued

GROUP OR INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	Wage carriers (average for the year)	WAGES	COST OF MATE- RIALS, ETC., FUEL, PUR- CHASED ENERGY, AND CON- TRACT WORK 1	VALUE OF PRODUCTS	VALUE ADDED BY MANUFAC- TURE 2
In thousands of dollars							
Forest products-Continued.							
Baskets and rattan and willow ware, not including turnure.	1937	194	9,308	5,126	6,963	16,651	9,687
	1935	204	9,006	4,603	5,750	14,492	8,741
	1933	184	8,371	3,625	4,900	12,435	7,536
	1931	223	8,428	5,257	6,314	16,347	10,033
Boxes, cigar, wooden and part -wooden.	1937	69	3,296	2,322	2,681	7,128	4,447
	1935	72	3,176	2,000	2,227	6,161	3,934
	1933	77	3,426	1,782	2,209	5,904	3,695
	1931	92	3,777	2,564	3,473	8,859	5,386
Boxes, wooden except cigar boxes.	1937	634	25,981	19,544	45,454	86,347	40,893
	1935	561	23,061	15,015	32,165	63,278	31,113
	1933	595	21,753	12,515	29,056	54,995	25,938
	1931	675	22,864	17,572	39,705	74,667	34,962
Cooperage.	1937	397	9,588	9,177	32,527	50,225	17,698
	1935	407	9,879	7,982	29,972	46,556	16,584
	1933	361	8,457	6,261	22,913	35,618	12,705
	1931	500	8,208	7,663	24,333	39,143	14,810
Furniture and related indus- tries, total.	1937	3,283	173,984	176,529	315,376	676,781	361,406
	1935	3,221	133,772	116,741	214,387	447,441	233,054
	1933	2,566	108,298	78,421	145,924	305,960	160,035
	1931	3,340	131,310	130,077	223,071	497,197	274,125
Billiard and pool tables, bowling alleys, and accessories.	1937	23	530	538	1,838	5,547	3,709
	1935	17	314	290	1,059	3,145	2,086
	1933	17	407	228	514	1,123	609
	1931	32	592	613	1,396	3,76	2,366
Furniture, including store and office fixtures.	1937	3,097	170,072	172,558	308,304	658,467	350,163
	1935	3,035	130,781	113,898	209,151	434,444	225,293
	1933	2,411	105,488	76,346	142,587	297,730	155,143
	1931	3,148	127,605	125,972	217,896	182,289	264,393
Mirror and picture frames.	1937	163	3,382	3,433	5,234	12,767	7,534
	1935	169	2,677	2,552	4,177	9,852	5,675
	1933	138	2,403	1,847	2,823	7,107	4,284
	1931	160	3,113	3,492	3,780	11,146	7,367
Other allied industries, total.	1937	933	51,612	55,808	184,476	318,357	134,382
	1935	944	43,621	40,016	136,867	240,747	103,880
	1933	730	33,545	28,202	83,741	166,393	82,652
	1931	746	33,673	35,065	141,957	236,913	94,957
Caskets, coffins, burial cases, and other morticians' goods.	1937	521	13,678	15,120	33,628	71,757	38,128
	1935	548	13,779	13,817	29,479	65,653	36,174
	1933	396	12,155	11,837	25,674	58,740	33,066
	1931	399	11,932	14,225	28,519	69,810	41,291
Cork products.	1937	35	3,599	4,136	13,905	21,783	7,879
	1935	34	3,033	2,776	7,268	13,987	6,719
	1933	30	2,797	2,168	5,277	11,604	6,327
	1931	31	3,018	3,027	6,617	14,877	8,260
Matches.	1937	25	5,261	5,392	20,214	30,902	10,688
	1935	24	5,075	4,693	19,039	30,440	11,401
	1933	18	4,726	4,037	11,679	26,373	14,693
	1931	19	3,369	3,493	10,875	18,473	7,597
Synthetic-resin, cellulose-plastic, vulcanized-Aber, and molded and pressed pulp fabricated ar- ticles, not elsewhere classified.	1937	160	16,673	19,822	32,045	77,716	45,671
	1935	153	12,749	12,090	21,300	50,299	28,999
	1933	101	6,840	5,927	10,023	25,731	15,708
	1931	86	5,654	6,105	10,805	27,239	16,435

Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 not, except as noted.
 1 Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel,
 purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are
 not available except for a few industries.

INDUSTRY GROUPS AND INDUSTRIES:
No. 830. - MANUFACTURES SUMMARY FOR 1931 TO 1937- - Continued

GROUP OR INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	Wage earners (average for the year)	WAGES	COST OF MATERIALS, ETC., FUEL, PUR- CHASED ENERGY, AND CON- TRACT WORK	VALUE OF PRODUCTS	VALUE ADDED BY MANU- FACTURE
In thousands of dollars							
Forest products-Continued.							
Wood preserving.	1937	197	12,401	11,338	84,684	116,700	32,015
	1935	185	8,985	6,639	59,781	80,368	20,587
	1933	185	7,027	4,233	31,087	43,945	12,358
	1931	211	9,700	8,214	85,141	106,514	21,374
Paper and allied products, total.	1937	3,053	264,455	307,270	1,208,154	2,060,849	852,695
	1935	2,945	235,665	235,725	887,346	1,523,186	635,840
	1933	2,697	196,380	172,842	654,647	1,172,743	518,096
	1931	2,883	194,581	214,337	758,010	1,357,582	599,572
Paper and pulp, total.	1937	841	137,803	175,650	721,101	1,205,132	484,031
	1935	779	126,971	133,602	525,499	879,002	353,503
	1933	781	107,298	99,194	393,663	695,654	301,991
	1931	20848	107,902	126,886	495,083	851,530	356,442
Pulp (wood and other fiber).	1937	194	26,994	33,570	153,652	247,192	93,540
	1935	188	23,627	23,401	96,178	167,208	71,030
	1933	181	20,074	18,103	81,896	134,692	52,796
	1931	20198	20,219	22,844	110,668	156,559	55,891
Paper	1937	647	110,809	142,080	567,449	957,940	390,491
	1935	591	103,344	110,200	429,320	711,793	282,473
	1933	600	87,224	81,091	311,767	560,963	249,196
	1931	650	87,683	104,042	384,420	684,971	300,551
Converted paper products, total.	1937	2,212	126,652	131,619	487,053	855,717	368,664
	1935	2,166	108,694	102,123	361,847	644,185	282,338
	1933	1,916	89,082	73,648	260,984	477,089	216,105
	201931	2,069	89,186	89,936	271,005	520,921	249,916
Bags, paper, exclusive of those made in paper mills.	1937	107	10,360	9,850	53,424	82,458	29,034
	1935	107	9,120	8,038	41,766	65,564	23,798
	1933	96	7,665	5,813	29,296	49,379	20,084
	1931	95	6,836	6,423	33,427	54,291	20,864
Boxes, paper, not elsewhere classified.	1937	1,257	65,158	66,025	238,500	409,475	170,974
	1935	1,214	55,276	50,579	168,915	298,648	129,733
	1933	1,104	47,220	37,614	126,326	223,004	96,679
	1931	1,214	46,722	44,085	113,251	217,872	104,621
Cardboard, not made in paper mills.	1937	16	877	814	2,925	5,379	2,454
	1935	16	628	641	1,947	3,694	1,748
	1933	12	492	452	1,406	2,793	1,388
	1931	12	520	599	1,656	3,594	1,938
Card cutting and designing.	1937	77	3,315	4,138	9,369	21,138	11,769
	1935	76	2,951	2,845	7,710	17,216	9,506
	1933	64	1,804	1,535	4,029	10,138	6,108
	1931	72	2,041	2,408	6,674	15,953	9,279
Envelopes.	1937	162	9,511	10,503	25,107	51,290	26,183
	1935	166	9,038	9,087	20,900	43,618	22,718
	1933	163	7,981	6,755	15,918	33,896	17,978
	1931	162	8,924	9,658	22,452	46,943	24,491
Paper goods not elsewhere classi- fied.	1937	551	32,888	34,835	145,809	259,206	113,397
	1935	547	27,416	26,448	110,719	195,786	85,068
	1933	438	20,681	18,364	77,158	142,079	64,921
	201931	464	20,409	22,769	84,395	162,074	77,679
Wallpaper.	1937	42	4,543	5,455	11,920	26,772	14,852
	1935	40	4,265	1,486	9,890	19,658	9,768
	1933	39	3,239	3,116	6,851	15,800	8,948
	1931 F	50	3,734	3,994	9,150	20,194	11,044

Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel,
purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work
are not available except for a few industries.
Revised; revision not carried into group total.

No. 830. MANUFACTURES- SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES:
1931 TO 1937-- Continued

GROUP OR INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	Wage earners (average for the year)	WAGES	COST OF MATE- RIALS, ETC., FUEL, PUR- CHASED ENERGY, AND CON- TRACT WORK 1	VALUE OF PRODUCTS	VALUE ADDED BY MANUFAC- TURE 2
In thousands of dollars							
Printing, publishing, and allied industries, total.	1937	22,751	353,108	532,985	793,092	2,585,699	1,792,607
	1935	22,606	304,842	446,372	613,146	2,164,995	1,551,550
	1933	19,293	262,993	354,320	375,843	1,726,425	1,350,583
	1931	24,789	315,306	535,952	578,080	2,487,825	1,909,744
Printing and publishing, total.	1937	19,831	276,583	416,930	676,592	2,205,826	1,523,234
	1935	19,840	245,376	361,662	536,934	1,891,639	1,354,704
	1933	16,857	213,786	292,472	144,22,372	1,524,990	1,102,618
	201931	21,978	255,480	138,530	14647,871	2,212,267	1,564,397
Printing and publishing, book, music, and job.	1937	10,587	141,368	195,050	283,571	805,795	526,224
	1935	10,961	126,692	168,772	233,980	698,820	464,840
	1933	9,224	104,699	128,932	14175,049	519,990	344,942
	201931	11,767	135,977	212,931	14262,881	804,019	541,138
Printing and publishing, news- paper and periodical.	1937	9,244	135,215	221,881	393,021	1,396,031	1,003,010
	1935	8,879	118,684	192,890	302,954	1,192,819	889,865
	1933	7,633	109,087	163,490	14247,323	1,004,999	757,676
	1931	10,211	119,503	225,699	14384,990	1,408,248	1,023,259
Allied industries, total	1937	2,920	76,525	116,055	116,500 i	379,873	263,373
	1935	2,766	59,466	84,710	76,511	273,356	196,845
	1933	2,436	49,207	61,849	56,221	201,436	145,215
	1931	2,819	50,845	98,538	73,101	280,848	207,747
Bookbinding and blank-book making.	1937	997	25,333	28,665	30,745	94,822	64,077
	1935	1,022	20,454	21,796	22,018	73,315	51,297
	1933	863	16,365	16,091	1416,540	56,011	39,471
	1931	1,056	21,216	25,356	1422,504	79,780	57,276
Engraving (other than steel, copperplate, or wood), chasing, etching, and diesinking.	1937	77	2,152	2,771	2,865	8,881	6,016
	1935	101	2,199	2,449	2,752	7,661	4,909
	1933	77	1,089	1,094	921	3,425	2,505
	1931	133	1,467	2,048	1,440	5,607	4,168
Engraving, steel, copperplate, and wood, and plate printing.	1937	435	7,831	9,883	8,115	29,436	21,321
	1935	388	5,300	6,521	4,818	20,124	15,306
	1933	343	5,033	5,265	3,637	16,223	12,585
	1931	432	6,995	9,503	6,425	27,425	21,001
Lithographing	1937	552	24,079	35,928	54,319	137,731	83,412
	1935	387	17,688	24,158	34,305	92,047	57,742
	1933	346	14,579	18,123	25,996	68,188	42,193
	1931	364	16,215	25,723	136,688	87,433	56,745
Photoengraving, not done in printing establishments.	1937	641	12,364	29,113	15,303	77,962	62,659
	1935	662	9,408	21,342	8,787	53,342	44,555
	1933	600	7,907	14,788	146,518	37,583	31,064
	1931	617	10,095	24,990	148,453	56,020	47,566
Stereotyping and electrotyping, not done in printing establish- ments.	1937	218	4,766	3,694	5,153	31,043	25,890
	1935	206	4,417	8,444	3,831	26,867	23,036
	1933	207	3,734	6,488	2,609	20,006	17,397
	1931	223	4,857	10,917	3,590	24,582	20,991
Chemicals and allied products, total.	1937	7,419	314,520	381,405	1,927,948	3,721,531	1,793,583
	1935	7,419	276,434	285,875	1,448,832	2,837,315	1,388,483
	1933	6,527	237,480	220,771	968,473	2,117,513	1,149,041
	1931	7,444	230,370	263,271	1,255,459	2,650,635	1,395,176
Chemicals and allied products other than animal and vegetable oils, total.	1937	6,831	292,640	366,055	1,598,676	3,315,675	1,716,999
	1935	6,818	258,922	275,280	1,207,808	2,543,885	1,335,986
	1933	5,960	220,507	212,519	838,522	1,947,481	1,108,969
	1931	6,835	215,176	251,063	1,035,312	2,375,978	1,341,667

1. Figures for 1937 and 1935 include contract work; those for 1933 and 1931 do not. For 1937 and 1935, the value of contract work is shown in parentheses. For 1933 and 1931, the value of contract work is shown in parentheses. For 1937 and 1935, the value of contract work is shown in parentheses. For 1933 and 1931, the value of contract work is shown in parentheses.

2. Revised; includes cost of contract work.
— Revised; revision not carried into group total.

No. 830. - MANUFACTURES- SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES:
1931 TO 1937- Continued

GROUP OR INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	Wage earn- ers (average for the year)	WAGES	COST OF MATE- RIALS, ETC.; FUEL, PUR- CHASED ENERGY, AND CON- TRACT WORK	VALUE OF PRODUCTS	VALUE ADDED BY MANUFACTURE
In thousands of dollars							
Chemicals, etc.-Continued.							
Ammunition and related prod- ucts.	1937	15	6,596	7,584	16,462	37,443	20,981
	1935	13	5,599	5,121	10,354	26,308	15,954
	1933	8	5,305	4,429	9,397	24,462	15,605
	1931	9	5,336	4,428	9,427	25,112	15,685
Baking powder, yeast, and other leavening compounds.	1937	40	2,380	3,761	13,330	30,279	16,949
	1935	46	2,666	4,278	14,403	32,341	17,938
	1933	40	2,690	3,654	13,112	31,975	18,863
	1931	45	2,881	4,798	20,746	47,027	26,281
Blacking, stains, and dressings.	1937	147	1,536	1,480	7,988	19,183	11,194
	1935	167	1,498	1,467	8,396	17,932	9,536
	1933	154	1,625	1,504	6,909	19,056	12,146
	1931	156	1,501	1,666	6,941	20,343	13,402
Bluing.	1937	14	67	69	350	1,129	778
	1935	15	58	55	287	912	624
	1933	16	77	86	323	1,033	710
	1931	20	95	94	402	1,179	777
Bone black, carbon black, and lampblack.	1937	62	2,190	2,712	7,236	18,854	11,618
	1935	55	1,828	1,937	5,334	14,811	9,477
	1933	48	1,449	1,206	4,010	8,507	4,497
	1931	62	1,039	1,344	5,022	9,535	4,513
Candles.	1937	22	725	686	2,624	5,352	2,727
	1935	23	713	599	2,400	4,734	2,334
	1933	19	673	561	1,844	4,128	2,284
	1931	23	713	711	2,481	5,396	2,915
Chemicals not elsewhere classi- fied.	1937	601	78,951	117,221	455,062	932,750	477,688
	1935	570	65,838	80,481	330,134	668,697	338,564
	1933	541	53,190	59,229	221,453	476,503	255,049
	1931	558	48,522	66,360	246,068	533,175	287,107
Cleaning and polishing prepara- tions.	1937	363	3,341	3,943	23,644	57,871	34,228
	1935	395	2,824	3,033	17,295	12,407	25,112
	1933	327	2,755	2,722	14,753	41,048	26,296
	1931	388	2,449	2,969	16,979	48,007	31,028
Compressed and liquefied gases.	1937	356	4,655	6,591	14,244	56,418	42,174
	1935	330	3,788	4,408	11,239	42,019	30,780
	1933	326	2,763	3,154	8,586	32,007	23,421
	1931	349	2,844	3,806	10,135	41,806	31,672
Drug grinding-	1937	21	699	849	4,762	7,935	3,173
	1935	21	590	601	3,379	5,916	2,537
	1933	22	630	614	3,448	6,399	2,951
	1931	23	661	711	5,457	9,159	3,702
Drugs and medicines.	1937	1,013	24,095	26,116	98,822	345,918	247,097
	1935	1,056	22,128	21,979	83,704	201,733	208,030
	1933	986	19,683	18,798	70,594	257,013	186,419
	1931	3,197	21,023	23,194	82,356	313,563	231,206
Explosives.	1937	77	5,406	8,620	24,213	58,181	33,969
	1935	74	4,570	5,647	17,013	40,667	23,655
	1933	66	4,168	4,135	12,705	35,106	22,401
	1931	78	4,733	5,572	19,519	46,258	26,739
Fertilizers.	1937	743	20,893	15,364	130,081	195,759	65,678
	1935	670	17,473	10,967	93,382	140,386	47,004
	1933	522	13,063	7,274	59,053	94,939	25,886
	1931	599	14,551	12,146	106,481	154,350	47,869

: Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted. Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.

No. 830. MANUFACTURES SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES:
1931 TO 1937- Continued

GROUP OR INDUSTRY	Cen- sus year	New estab- lish- ments	Wages per employee (average for the year)	WAGES	COST OF MATERIALS, ETC., FUEL, PUR- CHASED ENERGY, AND CON- TRACT WORK 1	VALUE OF PRODUCTS	VALUE ADDED BY MANUFAC- TURE 2
In thousands of dollars							
Chemicals, etc.—Continued.							
Fireworks and allied products.	1937	50	1,760	1,621	3,695	8,128	4,433
	1935	52	1,588	1,309	2,649	6,504	3,855
	1933	46	1,420	1,122	2,046	5,979	3,933
	1931	48	1,837	1,661	2,992	6,976	3,985
Glue and gelatin.	1937	75	3,547	4,565	23,391	40,650	17,259
	1935	74	3,253	3,534	15,076	28,161	13,085
	1933	63	2,013	2,033	8,328	17,163	8,834
	1931	72	2,559	3,325	15,460	27,516	12,055
Grease and tallow, not including lubricating greases.	1937	266	5,200	6,763	32,980	52,269	19,289
	1935	259	4,761	5,390	22,214	39,836	17,622
	1933	201	3,983	4,099	14,141	26,238	12,097
	1931	238	4,067	5,225	17,533	29,241	11,703
Ink, printing.	1937	184	2,793	4,085	25,104	47,347	22,243
	1935	191	2,370	3,234	418,602	34,535	415,933
	1933	160	2,094	2,663	12,604	26,166	13,563
	1931	171	2,247	3,479	14,532	32,188	17,656
Ink, writing.	1937	17	366	370	1,500	3,476	1,976
	1935	22	377	380	1,415	3,382	1,967
	1933	22	355	321	1,226	2,522	1,296
	1931	23	347	363	1,463	3,535	2,073
Insecticides and fungicides, and industrial and household chemical compounds not elsewhere classified.	1937	573	4,322	4,659	34,103	71,168	37,065
	1935	546	3,466	3,401	24,394	53,429	29,036
	1933	380	1,977	1,856	11,211	27,903	16,698
	1931	498	2,650	3,015	20,640	54,756	34,117
Mucilage, paste, and other adhesives, except glue and rubber cement.	1937	61	295	313	2,165	4,210	2,045
	1935	66	267	289	41,767	3,633	41,866
	1933	55	213	237	1,295	2,478	1,184
	1931	69	282	350	1,889	3,621	1,732
Paints, pigments, and varnishes.	1937	1,124	31,664	42,751	312,085	538,461	226,375
	1935	1,082	27,686	32,187	232,164	417,000	184,836
	1933	961	22,880	23,791	153,026	289,442	136,416
	1931	1,039	22,521	29,425	193,737	350,726	156,989
Perfumes, cosmetics, and other toilet preparations.	1937	478	10,158	9,262	53,905	132,336	78,431
	1935	558	9,662	8,586	44,759	119,529	74,770
	1933	490	8,978	7,470	33,175	97,049	63,874
	1931	658	10,026	9,674	44,184	153,318	109,534
Rayon and allied products.	1937	33	55,098	65,291	80,616	254,697	174,081
	1935	32	50,550	50,693	64,513	186,160	120,646
	1933	34	44,306	38,613	44,031	156,932	112,900
	1931	32	38,735	38,231	36,181	132,632	96,452
Salt.	1937	46	4,616	5,279	11,212	32,741	21,528
	1935	48	4,976	4,884	10,934	29,720	18,786
	1933	50	5,036	4,814	9,154	29,011	19,857
	1931	58	4,728	5,549	10,864	31,430	20,566
Soap.	1937	232	14,008	19,075	185,170	301,292	116,122
	1935	238	13,911	15,339	139,493	239,152	99,659
	1933	235	14,304	14,140	93,507	200,128	106,621
	1931	248	14,163	17,740	121,829	257,719	135,889
Tanning materials, natural dye-stuffs, mordants and assistants, and sizes.	1937	158	2,812	3,000	22,603	35,685	13,081
	1935	154	2,651	2,636	19,706	33,639	13,933
	1933	124	2,141	2,212	13,518	23,322	9,804
	1931	116	1,962	2,390	15,521	26,469	10,948

Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
 1 Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are available except for a few industries.

2 Revised; revision carried into subgroup or group total.

No. 830. - MANUFACTURES SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES:
1931 TO 1937 Continued

GROUP OR INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	Wage earn- ers (average for the year)	WAGES	COST OF MATE- RIALS, ETC., FUEL, PUR- CHASED ENERGY, AND CON- TRACT WORK 1	VALUE OF PRODUCTS	VALUE ADDED BY MANUFAC- TURE 2
In thousands of dollars							
Chemicals, etc.-Continued.							
Wood distillation and charcoal manulature.	1937	60	4,467	4,024	11,328	26,145	14,817
	1935	60	3,808	2,816	7,923	15,971	8,047
	1933	54	2,731	1,782	5,073	11,036	5,963
	1931	63	2,654	2,745	6,474	11,440	4,966
Animal and vegetable oils, total.	1937	588	21,880	15,351	329,273	405,857	76,584
	1935	601	17,512	10,595	240,934	293,431	52,497
	1933	567	16,973	8,252	129,951	170,022	40,072
	1931	609	15,194	12,207	220,147	275,657	53,509
Oil, cake, and meal, cottonseed.	1937	447	16,583	8,532	195,747	242,043	46,296
	1935	458	13,226	5,912	160,552	187,887	27,336
	1933	475	14,242	5,376	78,229	104,212	25,982
	1931	504	12,268	8,335	147,165	181,347	34,182
Oil, cake, and meal, linseed.	1937	23	2,628	3,591	74,481	90,357	15,875
	1935	25	2,350	2,650	48,815	60,264	11,449
	1933	22	1,625	1,684	33,853	40,463	6,610
	1931	23	1,837	2,278	50,306	62,883	12,576
Oils, essential.	1937	13	195	266	2,933	3,981	1,048
	1935	12	166	219	2,603	3,542	939
	1933	12	175	222	2,243	3,094	851
	1931	12	128	199	2,707	3,505	798
Oils not elsewhere classified.	1937	105	2,474	2,962	56,111	69,476	13,365
	1935	106	1,770	1,814	430,918	41,737	\$10,819
	1933	58	931	970	15,625	22,254	6,629
	1931	65	961	1,394	19,970	25,922	5,952
Products of petroleum and coal, total. 2	1937	675	106,473	176,904	2,366,802	2,954,465	587,662
	1935	688	96,370	133,854	1,686,859	2,118,307	431,448
	1933	668	84,203	107,669	1,206,372	1,576,013	369,641
	1931	679	85,623	132,925	1,399,154	1,797,066	397,911
Coke-oven products.	1937	94	20,603	33,103	273,068	357,469	84,401
	1935	88	16,694	21,575	180,557	238,704	53,147
	1933	97	13,066	15,527	123,275	165,731	42,456
	1931	112	14,383	22,134	162,793	226,509	63,716
Fuel briquets.	1937	21	457	547	4,041	6,138	2,097
	1935	25	341	386	3,394	4,913	1,519
	1933	24	296	262	1,886	2,944	1,058
	1931	23	301	357	3,035	4,563	1,533
Lubricating oils and greases, not made in petroleum refineries.	1937	195	2,231	2,839	25,387	44,113	18,725
	1935	180	1,933	2,282	20,972	36,069	15,096
	1933	158	1,794	2,087	16,774	28,702	11,928
	1931	168	2,115	2,960	22,809	41,704	18,895
Petroleum refining.	1937	365	83,182	140,415	2,064,307	2,546,746	482,439
	1935	395	77,402	109,611	1,481,936	1,838,622	356,686
	1933	389	69,047	80,793	1,064,437	1,378,637	314,200
	1931	376	68,824	107,474	1,210,517	1,524,285	313,768

Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
: Value added by manufacture calculated for 1987 and 1935 by subtracting cost of materials, etc., fuel,
purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are
not available except for a few industries.

Revised; revision not carried into subgroup or group total.

This group formerly included "Gas, manufactured, illuminating and heating." At the Census for
this was discontinued as a manufactures industry classification; the figures for earlier years have been
revised accordingly.

No. 830. MANUFACTURES- SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES:
1931 TO 1937-- Continued

GROUP OR INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	Wage earn- ers (average for the year)	WAGES	COST OF MATE- RIALS, ETC., FUEL, PUR- CHASED ENERGY, AND CON- TRACT WORK!	VALUE OF PRODUCTS	VALUE ADDED BY MANUFAC- TURE 2
In thousands of dollars							
Rubber products, total.	1937	478	129,818	171,305	514,260	883,033	368,772
	1935	466	114,681	133,715	368,811	677,659	308,848
	1933	408	106,283	99,117	211,397	472,744	261,347
	1931	453	99,250	112,596	252,867	614,265	361,398
Rubber tires and inner tubes.	1937	46	63,290	96,707	566,858	575,866	209,002
	1935	42	57,128	78,253	265,515	446,092	180,576
	1933	44	52,976	54,737	139,392	299,313	159,921
	1931	48	49,159	53,089	173,604	406,283	232,679
Boots and shoes, rubber.	1937	12	18,356	20,422	27,475	64,455	36,981
	1935	12	17,246	16,113	20,821	53,162	32,341
	1933	13	18,102	14,440	14,124	42,019	27,895
	1931	15	15,882	13,770	12,298	47,905	35,607
Rubber goods other than tires, inner tubes, and boots and shoes.	1937	420	48,172	54,176	119,927	242,717	122,790
	1935	412	40,307	39,348	82,475	178,405	95,931
	1933	351	35,205	29,939	57,881	131,411	73,531
	1931	390	34,218	35,738	66,965	160,077	93,112
Leather and its manufactures, total.	1937	3,364	331,955	311,293	899,469	1,491,513	592,043
	1935	3,506	310,755	279,740	694,293	1,224,431	530,139
	1933	3,265	282,000	222,487	544,737	996,773	452,036
	1931	3,702	272,757	252,160	566,200	1,189,876	523,576
Leather: Tanned, curried, and finished. ²	1937	402	50,687	61,288	281,506	395,022	113,516
	1935	384	50,877	55,683	199,411	308,345	108,934
	1933	374	44,191	43,076	138,177	237,202	99,025
	1931	418	42,047	49,542	172,786	271,138	98,352
Leather: Tanned, curried, and unished-regular factories. ²³	1937	331	48,132	68,332	279,220	387,908	108,688
Leather: Tanned, curried, and Unished-contract factories. ²	1937	71	2,555	2,956	2,286	7,114	4,828
Leather products, total.	1937	2,962	281,268	250,004	617,963	1,096,490	478,527
	1935	3,122	259,878	224,056	494,882	916,086	421,205
	1933	2,891	237,811	179,411	406,561	759,571	353,010
	1931	3,284	230,710	212,588	493,415	918,758	125,324
Bolting and packing, leather.	1937	182	2,829	3,355	15,529	27,901	12,372
	1935	187	2,362	2,520	11,574	21,522	9,948
	1933	152	1,684	1,733	7,018	14,880	7,862
	1931	178	1,640	1,968	7,302	14,522	7,220
Boot and shoe cut stock and find- ings.	1937	470	18,755	17,844	95,988	132,660	36,672
	1935	498	18,275	16,781	76,317	111,579	35,261
	1933	487	16,798	13,918	61,864	93,293	31,429
	1931	552	17,672	16,412	82,274	117,101	34,827
Boots and shoes, other than rub- ber.	1937	1,080	215,438	191,305	416,365	768,327	352,022
	1935	1,024	202,113	172,349	333,799	643,872	310,073
	1933	1,132	190,914	142,054	286,303	553,425	267,122
	1931	1,156	181,374	163,271	337,627	553,380	316,252
Gloves and mittens, leather.	1937	221	11,637	9,039	15,720	30,718	14,999
	1935	224	9,810	8,500	13,874	28,131	14,257
	1933	194	8,129	6,434	11,377	23,470	12,093
	1931	227	7,884	7,554	13,136	28,024	14,887

Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
: Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel,
purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are
available except for a few industries.

NOT At the census for 1937 the "Leather: Tanned, curried, and finished" industry was separated into 2
industries, "Leather: Tanned, curried, and Anished-regular factories" and "Leather: Tanned, curried, and
Anished-contract factories." No separation of the statistics was made for years prior to 1937.

No. 830. MANUFACTURES SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES:
1931 TO 1937- Continued

GROUP OR INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	Wage earn- ers (average for the year)	WAGES	COST OF MATE- RIALS, ETC., FUEL, PUR- CHASED ENERGY, AND CON- TRACT WORK	VALUE OF PRODUCTS	VALUE ADDED BY MANU- FACTURE
In thousands of dollars							
Leather, etc.-Continued.							
Handbags and purses, wom- en's. ²³	1937	203	11,306	9,054	24,756	43,446	18,690
Leather goods-small articles ²³	1937	68	2,443	1,850	5,342	10,217	4,875
Leather goods not elsewhere classified. ²	1937	322	7,103	6,399	15,679	31,084	15,405
Pocketbooks, purses, and card cases. ²³	1935	324	11,406	9,232	23,288	42,992	19,704
	1933	218	8,107	5,954	15,349	28,345	12,996
	1931	260	8,747	9,793	22,601	43,147	20,546
Leather goods not elsewhere classified. ²³	1935	401	6,024	5,421	13,358	26,385	13,027
	1933	291	4,547	3,516	9,176	18,425	9,250
	1931	355	5,221	5,321	11,974	26,012	14,038
Saddlery, harness, and whips.	1937	139	3,049	2,699	8,110	13,417	5,306
	1935	157	3,234	2,919	7,739	13,357	5,618
	1933	147	2,515	2,054	6,146	10,364	4,218
	1931	185	1,974	1,926	5,268	9,339	4,071
Trunks, suitcases, brief cases, bags, and other luggage.	1937	277	8,708	8,458	20,534	38,720	18,186
	1935	307	6,654	6,336	14,932	28,248	13,317
	1933	270	5,117	3,749	9,328	17,368	8,040
	1931	371	6,198	6,343	13,232	26,715	13,483
Stone, clay, and glass products, total.	1937	6,071	300,278	348,521	523,112	1,395,858	872,746
	1935	5,722	233,205	226,140	353,709	946,480	592,771
	1933	4,528	173,000	142,142	212,155	608,699	396,545
	1931	6,408	222,856	248,860	316,458	925,318	608,850
Industries using stone as a material, total.	1937	3,578	110,171	130,333	250,317	628,892	378,575
	241935	3,395	81,302	80,231	155,255	408,786	253,531
	241933	2,556	61,620	54,013	96,549	273,195	176,646
	241931	3,762	84,787	107,105	165,666	463,441	297,774
Abrasive wheels, stones, paper, and cloth, and related prod- ucts.	1937	103	9,670	14,250	29,339	77,954	48,615
	1935	94	6,776	8,351	20,734	53,867	33,133
	1933	77	4,890	4,981	11,349	30,159	18,810
	1931	73	4,614	5,540	11,727	31,647	19,919
Asbestos products other than steam packing and pipe and boiler covering.	1937	73	13,023	14,157	29,494	63,794	34,300
	1935	72	9,622	9,293	17,178	38,163	20,985
	1933	58	6,084	5,075	10,789	25,255	14,466
	1931	67	6,009	6,452	13,837	35,174	21,337
Cement.	1937	158	26,426	34,070	69,979	183,201	113,222
	1935	153	20,698	20,904	43,089	120,417	77,328
	1933	148	15,829	13,870	26,932	86,921	59,989
	1931	164	24,317	29,884	56,098	148,845	92,747
Concrete products.	1937	1,382	12,840	13,781	35,453	76,174	40,721
	1935	1,224	8,399	7,834	20,223	44,967	24,745
	1933	766	4,422	3,592	9,289	20,538	11,249
	I 1931	1,432 I	9,253 C	10,728	22,373 I	53,192 I	30,819

Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 not, except as noted.
Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel,
purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are
available except for a few industries.

At the censuses for 1937 "Handbags and purses, women's," "Leather goods-small articles," and
"Leather goods not elsewhere classified" were established as separate industry classifications. The estab-
lishments comprising these industries were formerly in the industries "Pocketbooks, purses, and card
cases" and "Leather goods not elsewhere classified." Comparable figures are not available for classifica-
tions established for 1937.

At the census for 1937 "Nonclay refractories" was established as a separate industry classification;
data were formerly included in the "Clay products" industry. The figures for 1935 and 1933 for the latter
industry have been revised by excluding data for nonclay refractories, but no segregation has been made
for 1931. The subgroup totals have been revised for the years 1935 and 1933.

No. 830. MANUFACTURES SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES:
1931 TO 1937- Continued

GROUP OR INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	Wage earn- ers (average for the year)	WAGES	COST OF MATE- RIALS, ETC., FUEL, PUR- CHASED ENERGY, AND CON- TRACT WORK 1	VALUE OF PRODUCTS	VALUE ADDED BY MANUFAC- TURE 2
In thousands of dollars							
Stone, etc. - Continued.							
Gypsum products 25	1937	79	5,207	6,591	16,681	42,617	25,935
	1935	72	3,382	3,444	8,921	26,288	17,368
Lime.	1937	203	9,751	9,610	13,287	35,022	21,735
	1935	189	7,497	6,052	8,940	23,322	14,382
	1933	167	5,972	4,079	6,543	16,200	9,657
	1931	203	6,706	6,012	8,896	22,200	13,304
Marble, granite, slate, and other stone, cut and shaped.	1937	1,403	20,816	24,381	27,349	79,006	51,657
	1935	1,404	15,224	16,192	18,756	56,478	37,722
	1933	1,129	16,541	16,760	17,777	55,041	37,264
	1931	1,588	27,700	41,651	34,405	119,395	84,990
Nonclay refractories 24.	1937	40	5,641	6,331	12,538	28,457	15,919
	1935	43	4,861	4,023	8,153	20,771	12,618
	1933	40	3,394	2,139	4,813	12,151	7,338
Sand-lime brick.	1937	23	414	460	545	1,618	1,073
	1935	20	227	199	270	654	385
	1933	10	84	61	74	205	131
	1931	31	322	357	461	1,268	806
Wallboard and plaster (except gypsum), building insulation, and floor composition. 25	1937	114	6,883	6,691	15,652	41,049	25,398
	1935	124	4,616	3,938	8,992	23,859	14,867
Wallboard, insulating board, gypsum and other plasters, and floor composition. 25	1933	172	4,694	3,679	9,439	27,610	18,172
	1931	214	6,451	7,111	18,913	54,594	35,681
Industries using clay as & material, total.	1937	1,727	98,404	102,630	91,346	291,247	199,901
	24 1935	1,582	74,078	63,570	59,113	185,030	125,918
	25 1933	1,334	55,062	37,347	33,611	110,679	77,068
	24 1931	1,807	80,969	75,223	59,977	209,286	149,309
China firing and decorating, not done in potteries.	1937	16	306	359	762	1,690	927
	1935	19	278	224	645	1,267	622
	1933	14	152	127	378	762	384
	1931	21	220	236	551	1,128	577
Clay products (other than pot- tery).	1937	1,198	59,585	57,844	50,975	163,262	112,286
	24 1935	1,031	39,722	30,579	29,931	90,427	60,496
	25 1933	888	28,550	16,828	15,181	52,452	37,271
	24 1931	1,264	51,128	44,368	36,969	127,336	90,367
Graphite, ground and refined.	1937	6	56	74	729	1,078	349
	1935	9	256	261	942	2,122	1,180
	1933	10	168	146	763	1,490	727
	1931	9	183	183	976	1,962	986
Minerals and carths, ground or otherwise treated.	1937	157	4,539	4,898	11,613	27,161	15,548
	1935	161	4,258	3,614	8,919	21,545	12,626
	1933	107	1,874	1,565	4,389	9,684	5,295
	L 1931	1	88 1	1,090 1	1,127	3,817	3,478

Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
1: Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel,
purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are
not available except for a few industries.

24 At the census for 1937 "Nonclay refractories" was established as a separate industry classification;
data were formerly included in the "Clay products" industry. The figures for 1935 and 1933 for the latter
industry have been revised by excluding data for nonclay refractories, but no segregation has been made
1931. The subgroup totals have been revised for the years 1935 and 1933.

forz The "Gypsum products" and "Wallboard and plaster (except gypsum), building insulation, and
floor composition" industries were treated as single industry, "Wallboard, insulating board; gypsum
and other plasters, and floor composition" for 1935. The 1933 and 1931 figures for the latter industry
have been revised to include data for mineral wool, formerly assigned to "Steam and other packing," etc.,
but this revision was not carried into totals for subgroup and group.

**No. 830. MANUFACTURES SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES:
1931 TO 1937- Continued**

GROUP OR INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	Wage earners (average for the year)	WAGES	COST OF MATE- RIALS, ETC., FUEL, PUR- CHASED ENERGY, AND CON- TRACT WORK 1	VALUE OF PRODUCTS	VALUE ADDED BY MANUFAC- TURE 2
In thousands of dollars							
Stone, etc.-Continued.							
Pottery, including porcelain ware.	1937	251	33,060	38,329	26,252	94,726	68,474
	1935	257	28,845	28,088	18,003	66,778	48,775
	1933	231	23,632	17,891	12,179	43,718	31,539
	1931	275	27,023	26,981	16,393	65,866	49,473
Statuary and art goods (except concrete), factory production.	1937	99	858	1,126	1,015	3,331	2,316
	1935	105	719	803	4776	2,892	42,116
	1933	84	686	789	721	2,574	1,853
	1931	150	1,325	2,328	1,271	5,700	4,429
Glass and manufactures of glass, total.	1937	766	91,703	115,568	181,449	475,719	294,270
	1935	745	77,825	82,339	139,341	352,664	213,323
	1933	638	56,317	50,781	81,995	224,825	142,830
	1931	839	57,100	66,531	90,824	252,592	161,767
Glass	1937	232	79,051	101,588	140,705	387,710	247,005
	1935	213	67,138	71,443	110,041	283,925	173,884
	1933	213	49,797	45,222	63,410	191,948	128,538
	1931	229	49,917	57,882	73,575	216,265	142,690
Mirrors and other glass products made of purchased glass.	1937	534	12,652	13,981	40,744	88,009	47,265
	1935	532	10,687	10,896	29,300	68,738	39,438
	1933	425	6,520	5,559	18,585	32,877	14,292
	1931	610	7,183	8,650	17,250	36,327	19,077
Iron and steel and their products, not including machinery.	1937	8,345	1,166,287	1,661,045	4,047,687	7,480,360	3,432,674
	26-1935	8,105	879,089	991,207	2,511,698	4,588,958	2,077,260
	26-1933	7,055	655,536	585,521	1,522,536	2,768,962	1,246,426
	26-1931	6,531	626,331	735,787	1,859,989	3,400,102	1,540,113
Crude iron and steel and rolled products, total.	1937	497	502,417	817,778	2,378,626	4,003,017	1,624,391
	1935	468	374,808	458,584	1,412,289	2,305,970	893,681
	1933	466	288,945	270,367	876,046	1,357,574	481,529
	1931	526	278,206	357,645	1,091,015	1,714,214	623,199
Blast-furnace products.	1937	87	23,075	38,001	544,881	672,525	127,644
	1935	72	15,178	18,916	300,658	374,651	73,993
	1933	72	12,098	11,564	183,957	213,685	29,729
	1931	80	13,572	19,259	259,132	311,371	52,240
Hardware and mill products (including all departments, such as bolt and nut, wire, tin plate, etc.).	1937	410	479,342	779,776	1,833,745	3,330,491	1,496,747
	1935	396	359,630	439,669	1,111,631	1,931,318	819,688
	1933	394	276,847	258,803	692,089	1,143,889	451,800
	1931	446	264,634	338,387	831,884	1,402,843	670,959
Other iron and steel products, total.	1937	7,848	663,870	843,267	1,669,061	3,477,344	1,808,283
	26-1935	7,637	504,281	532,623	1,099,409	2,282,988	1,183,580
	26-1933	6,589	366,594	315,154	646,490	1,411,387	764,897
	26-1931	6,005	348,125	378,142	768,973	1,685,888	916,915
Boiler-shop products 27	1937	453	24,485	33,842	82,979	165,280	82,301
	1935	413	13,290	14,770	36,598	73,170	36,572
	1933	292	9,805	9,094	23,481	45,866	22,386

Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
2. Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work not available except for a few industries.

Revised; revision not carried into subgroup or group total.

Figures for 1935 and 1933 revised to include figures for "Boiler-shop products" and "Foundry products (gray-iron and malleable-iron)" transferred from "Machinery, not including transportation equipment" where no revision has been made in the figures for 1931.

ECORPORATION to the census 1937 in "Machinery, not including transportation equipment" group. No separate figures for 1931, as that census included in the abandoned industry "Foundry and machine-shop products."

No. 830. — MANUFACTURES SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES:
1931 TO 1937— Continued

GROUP OR INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	Wages earned (average for the year)	WAGES	COST OF MATE- RIALS, ETC., FUEL, PUR- CHASED ENERGY, AND CON- TRACT WORK ¹	VALUE OF PRODUCTS	VALUE ADDED BY MANUFAC- TURE ²
In thousands of dollars							
Iron and steel, etc.—Con.							
Bolts, nuts, washers, and rivets ²⁸	1937	138	16,840	22,088	44,342	98,079	53,737
	1935	137	12,506	13,375	29,300	57,420	28,120
	1933	103	8,486	7,155	15,350	32,874	17,523
	1931	116	10,518	10,177	16,872	39,483	22,611
Cast-iron pipe and fittings.	1937	75	17,613	18,083	25,441	61,118	35,677
	1935	71	13,543	10,370	14,810	37,870	23,060
	1933	71	9,454	5,847	8,992	20,916	11,924
	1931	78	16,066	14,559	20,977	47,938	26,960
Doors, shutters, and window sash and frames, molding, and trim, metal.	1937	154	8,408	11,879	20,053	49,915	29,862
	1935	134	4,533	5,093	10,284	22,740	12,456
	1933	125	3,572	3,123	5,953	13,377	7,423
	1931	139	6,816	8,898	14,572	35,608	21,036
Firearms.	1937	21	6,847	9,670	4,333	21,555	17,222
	1935	22	4,855	5,499	3,412	13,027	9,615
	1933	22	3,382	3,164	2,169	9,214	7,045
	1931	24	4,264	4,711	2,501	10,611	8,110
Forgings ²⁸	1937	194	18,255	27,659	63,224	122,835	59,611
	1935	185	12,253	15,107	35,108	66,351	31,243
	1933	181	7,953	7,354	16,896	32,523	15,627
	1931	202	9,971	11,444	22,657	47,700	25,043
Foundry products (gray-iron and malleable-iron).—	1937	1,239	120,024	158,588	141,723	397,303	255,580
	1935	1,251	39,894	98,512	90,275	250,460	160,185
	1933	1,078	59,321	49,414	43,543	142,722	99,179
	1931	1,078	59,321	49,414	43,543	142,722	99,179
Galvanizing and other coating ²⁰	1937	64	1,119	1,376	2,527	5,994	3,467
	1935	65	1,201	1,269	2,133	5,194	3,061
	1933	54	761	661	1,164	2,691	1,527
	1931	60	1,011	1,170	1,669	4,060	2,391
Hardware and miscellaneous metal products.	1937	428	53,000	65,274	86,736	219,082	132,346
	1935	405	41,473	42,386	57,747	147,677	89,930
	1933	381	32,550	26,937	30,040	85,077	55,037
	1931	451	36,118	37,269	38,318	115,900	77,582
Heating and cooking apparatus, except electric. ³⁰	1937	830	89,287	111,788	180,105	439,285	259,181
	1935	834	68,820	73,041	115,010	297,364	182,354
	1933	770	52,494	46,510	66,344	186,971	120,626
	1931	827	61,576	64,833	91,537	271,607	180,070
Nails, spikes, etc. ²⁸	1937	42	2,432	2,746	5,636	11,929	6,293
	1935	43	2,178	2,320	4,334	9,656	5,322
	1933	39	1,695	1,590	2,704	6,973	4,269
	1931	46	1,570	1,670	2,982	6,828	3,846
Plumbers' supplies, not includ- ing pipe or vitreous-china sani- tary ware.	1937	241	25,240	30,635	50,116	113,920	63,800
	1935	252	20,136	21,335	37,580	75,636	29,325
	1933	232	15,893	12,922	26,003	70,936	44,933
	1931	238	19,688	20,440	26,003	70,936	44,933

Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
¹ Value added calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.

²⁰ Prior to the census of 1937 in "Machinery" group, including transportation equipment" group. No separate figures for 1931; for that census included in the abandoned Industry "Foundry and machine-products."

Not including similar products manufactured to considerable extent by steel works and rolling mills or plants operated in connection with rolling mills. The figures here given refer only to establishments engaged primarily in the specified classes of products. "Nails, spikes," etc., also exclude products made in wire mills.

²⁸ Largely custom work. Exclusive of products made in steel works and rolling mills or in plants operated in connection with rolling mills.

³⁰ Represents industries classified prior to 1937 as "Steam and hot-water heating apparatus and steam fittings" and "Stoves and ranges, other than electric."

No. 830. - MANUFACTURES SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES:
1931 TO 1937- Continued

GROUP OR INDUSTRY	Census year	Number of estab- lish- ments	Wage earn- ers (average for the year)	WAGES	COST OF MATERIALS, ETC. FUEL, PURCHASED ENERGY, AND CON- TRACT WORK 1	VALUE OF PRODUCTS	VALUE OF MANU- FACTURE:
					In thousands of dollars		
Iron and steel, etc.—Con.							
Safes and vaults.	1937	14	1,132	1,445	1,998	5,149	3,152
	1935	14	809	800	1,266	3,313	2,047
	1933	21	933	643	938	2,918	1,980
	1931	25	2,044	2,176	4,073	11,607	7,534
Screw-machine products and wood screws.	1937	311	21,287	28,030	42,714	102,725	50,011
	1935	302	15,018	16,825	27,228	63,029	35,801
	1933	255	10,236	8,951	13,485	33,449	19,964
	1931	275	12,047	13,478	16,142	43,698	27,556
Springs, steel, except wire 2s	1937	57	3,902	5,804	16,153	27,233	11,080
	1935	49	3,146	3,566	11,049	18,233	7,185
	1933	60	2,112	1,972	5,543	10,413	4,869
	1931	77	2,561	3,101	6,367	18,614	6,248
	31 1931	98	2,938	3,634	7,541	15,158	7,617
Stamped and pressed metal products; enameling, japanning, and lacquering.	1937	743	61,092	73,141	148,148	294,039	145,891
	1935	698	50,014	51,183	102,323	208,672	106,349
	1933	552	32,302	26,634	54,682	117,372	62,690
	1931	566	28,378	30,662	53,618	122,696	69,078
Steel barrels, kegs, and drums.	1937	58	6,231	7,357	30,296	48,175	17,880
	1935	64	5,761	5,839	21,090	34,650	13,560
	1933	58	6,517	6,026	18,035	30,399	12,364
	1931	52	3,253	3,513	12,990	21,644	8,654
Structural and ornamental metal work. 2	1937	1,132	38,814	53,898	169,673	292,756	123,083
	1935	1,111	39,343	28,225	94,088	160,762	66,675
	1933	962	21,377	18,624	63,169	107,612	44,443
	1931	1,302	37,510	47,875	131,649	238,033	106,384
Tin cans and other tinware not elsewhere classified.	1937	224	33,145	37,194	245,110	358,796	113,686
	1935	204	27,484	27,826	206,118	292,388	86,270
	1933	194	23,343	22,693	137,046	207,946	70,900
	1931	199	25,271	27,978	149,121	223,634	74,513
Tools and cutlery: Cutlery (not including silver and plated cutlery) and edge tools.	1937	251	16,830	18,633	18,737	68,194	49,457
	1935	264	13,715	13,532	12,672	51,171	38,499
	1933	200	10,807	8,848	8,647	38,718	30,071
	1931	221	12,485	12,194	8,983	52,337	43,354
Files.	1937	21	3,715	4,815	3,344	13,653	10,309
	1935	22	2,913	3,049	2,237	9,179	6,943
	1933	23	2,634	2,431	1,567	7,391	5,824
	1931	26	3,016	2,719	1,221	7,316	6,095
Saws.	1937	80	4,384	5,576	7,415	19,853	12,438
	1935	82	3,425	3,731	45,223	13,649	48,427
	1933	71	2,528	2,347	3,003	9,926	6,923
	1931	78	3,005	3,084	4,035	11,572	7,537
Tools not including edge tools, machine tools, files, or saws.	1937	369	17,612	21,132	30,959	80,046	49,087
	1935	343	12,636	13,298	19,068	52,544	33,476
	1933	294	9,598	8,158	10,521	34,199	23,678
	1931	355	10,833	11,209 "	13,725 I	42,417 I	28,692

Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 not, except as noted.
: Value added by manufacture calculated for 1935 by subtracting cost of materials, etc., fuel,
purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are
not available except for a few industries.

Revised; revision not carried into subgroup or group total.

3 Not including similar products manufactured to a considerable extent by steel works rolling
mills or by plants operated in connection with rolling mills. The figures here given refer only to establishments
engaged primarily in the specified classes of products. "Nails, spikes," etc., also exclude products
made in wire mills.

Largely custom work. Exclusive of products made in steel works and rolling mills or in plants operated
in connection with rolling mills.

Adjusted for comparison with 1933 and later years.

: Includes data for establishments engaged primarily in repairing and replacing motor-vehicle springs,
not included in later years.

No. 830. MANUFACTURES SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES: 1931 TO 1937- Continued

GROUP OR INDUSTRY	Census year	Number of establishments	Wage carriers (average for the year)	WAGES	COST OF MATERIALS, ETC., FUEL, PURCHASED ENERGY, AND CONTRACT WORK	VALUE OF PRODUCTS	VALUE ADDED BY MANUFACTURE
In thousands of dollars							
Iron and steel, etc.-Con.							
Wire drawn from purchased rods (covers fabricated wire products made in the same establishments).	1937	93	24,580	33,967	100,375	182,149	81,774
	1935	88	21,550	24,452	68,722	127,417	58,695
	1933	78	14,656	14,321	39,615	75,476	35,861
	1931	82	14,476	17,179	45,187	83,370	38,183
Wirework not elsewhere classified.	1937	563	33,471	39,207	78,296	164,510	86,214
	1935	536	25,165	25,426	55,984	117,569	61,585
	1933	429	17,633	14,155	35,220	74,520	39,300
	1931	494	17,225	17,382	40,308	86,694	45,386
Wrought pipe, welded and heavy riveted.	1937	53	14,125	19,436	68,629	113,769	45,140
	1935	48	10,720	11,793	42,285	73,849	31,564
	1933	44	6,552	5,580	20,821	34,957	14,135
	1931	51	8,045	9,890	42,291	75,041	32,749
Nonferrous metals and their products, total.	1937	5,303	270,327	349,276	1,926,526	2,783,285	856,759
	1935	5,411	214,986	232,651	1,092,344	1,668,561	576,217
	1933	4,367	155,969	140,088	586,444	951,381	364,937
	1931	5,744	180,477	209,515	808,569	1,325,565	517,996
Smelting and refining, total	1937	230	35,873	50,788	1,134,077	1,289,707	155,630
	1935	249	27,242	29,815	600,453	695,268	94,815
	1933	214	18,236	17,023	302,328	359,012	56,684
	1931	237	21,906	27,054	401,151	484,682	83,530
Primary, total	1937	62	29,815	43,255	954,818	1,084,607	129,789
	1935	62	22,478	24,887	476,653	554,627	77,974
	1933	59	14,567	13,549	231,885	273,286	41,401
	1931	76	18,477	22,716	335,713	408,588	72,876
Smelting and refining, copper.	1937	23	14,514	20,941	645,294	715,355	70,061
	1935	20	10,449	11,154	310,707	348,257	37,460
	1933	19	5,506	5,387	142,672	158,610	15,938
	1931	27	8,642	10,708	226,520	269,384	42,864
Smelting and refining, lead.	1937	14	4,036	5,547	234,072	253,598	19,526
	1935	16	3,187	3,424	122,019	137,219	15,200
	1933	14	2,105	2,325	60,534	70,453	9,920
	1931	16	2,584	3,569	78,745	90,726	11,982
Smelting and refining, zinc.	1937	25	11,265	16,767	75,452	115,655	40,202
	1935	26	8,842	10,309	43,836	69,151	25,315
	1933	26	5,866	5,838	28,679	44,222	15,543
	1931	33	7,251	8,439	30,449	48,479	18,030
Secondary, total.	1937	168	6,058	7,533	179,260	205,100	25,841
	1935	187	4,764	4,928	123,801	140,641	16,840
	1933	155	3,669	3,474	70,443	85,726	15,283
	1931	161	3,429	4,348	65,438	76,093	10,665
Gold, silver, and platinum, refining and alloying.	1937	65	1,085	1,561	85,208	92,093	6,886
	1935	88	1,002	1,318	71,791	78,018	6,227
	1933	61	745	980	39,036	44,604	5,567
	1931	63	803	1,186	36,893	41,398	4,505
Smelting and refining, nonferrous metals other than gold, silver, and platinum, not from the ore.	1937	103	4,973	5,972	94,052	113,007	18,955
	1935	99	3,762	3,610	52,009	62,623	10,614
	1933	94	2,924	2,494	31,407	41,123	9,716
	1931	98	2,626	3,162	28,546	34,695	6,150

Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 not, except as noted. : Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are available except for a few industries.

not. Largely custom work. Exclusive of products made in steel works and rolling mills or in plants operated in connection with rolling mills,

No. 830.- MANUFACTURES- SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES:
1931 TO 1937- Continued

GROUP OR INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	Wage earners (average for the year)	WAGES	COST OF MATERIALS, ETC., FUEL, PUR- CHASED ENERGY, AND CON- TRACT WORK	VALUE OF PRODUCTS	VALUE ADDED BY MANUFACTURE	I
In thousands of dollars								
Nonferrous metals, etc.-Con.								
Alloys and manufactures of metals, and of alloys, total.	1937	5,073	234,454	298,488	792,448	1,493,578	701,129	
	1935	5,162	187,744	202,836	491,890	973,293	481,403	
	1933	4,153	137,734	123,055	284,117	592,369	308,253	
	1931	5,507	201,583	182,451	407,418	841,883	434,466	
Aluminum products.	1937	153	23,695	31,888	96,104	165,543	69,540	
	1935	170	19,271	20,345	58,609	104,067	45,458	
	1933	109	13,634	11,900	34,027	61,464	27,437	
	1931	138	13,803	16,106	41,605	76,300	34,695	
Clocks, watches, time-recording devices, and materials and parts except watchcases.	1937	75	23,223	27,559	38,444	97,934	59,489	
	1935	76	18,026	18,280	22,674	51,204	38,530	
	1933	53	12,850	10,003	9,468	31,656	22,188	
	1931	75	16,213	15,686	12,880	45,563	32,683	
Collapse tubes.	1937	15	1,983	1,872	5,272	9,185	3,913	
	1935	16	1,961	1,750	4,966	8,505	3,539	
	1933	17	1,750	1,482	3,834	6,924	3,090	
	1931	17	1,737	1,634	4,142	7,534	3,492	
Electroplating.	1937	547	8,256	9,828	6,815	26,686	19,872	
	1935	553	6,238	6,941	4,649	18,328	13,679	
	1933	423	3,956	3,715	2,352	10,032	7,680	
	1931	464	4,107	5,642	2,802	13,084	10,282	
Fire extinguishers, chemical.	1937	25	1,041	1,401	3,582	8,889	5,307	
	1935	25	806	965	2,479	5,343	2,864	
	1933	22	589	604	1,720	3,775	2,055	
	1931	25	571	617	1,706	4,453	2,656	
Gold leaf and foil.	1937	26	625	515	1,231	2,299	1,068	
	1935	27	557	403	961	1,783	822	
	1933	31	608	348	684	1,402	718	
	1931	48	865	631	1,015	2,217	1,202	
Jewelers' findings and materials.	1937	71	2,470	3,002	14,574	21,684	7,109	
	1935	73	2,663	2,728	10,991	17,170	6,179	
	1933	60	1,811	1,604	5,503	9,250	3,747	
	1931	99	1,899	2,343	7,121	11,976	4,855	
Jewelry.	1937	974	20,368	23,273	43,915	06,601	52,686	
	1935	994	17,096	17,841	30,883	70,917	40,034	
	1933	779	13,069	11,323	16,783	42,652	25,869	
	1931	1,052	16,724	20,231	28,684	75,123	46,438	
Lighting equipment.	1937	466	21,743	24,918	55,593	115,096	59,503	
	1935	501	16,677	17,232	40,114	85,700	45,586	
	1933	357	10,538	9,506	19,241	46,173	26,933	
	1931	523	14,790	18,150	30,312	75,050	44,738	
Needles, pins, hooks and eyes, and slide and snap fasteners.	1937	52	9,580	10,154	10,291	36,240	25,949	
	1935	50	10,104	9,494	9,383	32,830	23,447	
	1933	45	6,412	5,768	5,818	22,758	16,940	
	1931	46	5,354	5,667	4,842	20,342	15,500	
Nonferrous-metal alloys; nonferrous-metal products, except aluminum, not elsewhere classified.	1937	1,103	83,016	115,515	392,683	669,374	276,691	
	1935	1,098	62,935	72,001	220,759	393,227	172,468	
	1933	875	47,784	43,729	128,356	239,156	110,800	
	1931	1,056	48,913	55,109	195,338	331,439	136,101	
Sheet-metal work, not specifically classified.	1937	1,392	22,973	29,263	85,935	159,096	73,161	
	1935	1,400	17,369	19,551	58,123	109,333	51,210	
	1933	1,220	13,050	12,658	35,463	68,807	33,344	
	1931	1,762	19,365	25,158	56,342	116,443	69,101	

Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 not, except as noted.
: Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel,
purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are
not available except for a few industries, and are revised; revision not carried into group total.

No. 830. MANUFACTURES SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES: 1931 TO 1937- Continued

GROUP OR INDUSTRY	Census year	Number of establishments	Wage earners (average for the year)	WAGES	COST OF MATERIALS, ETC., FUEL, PURCHASED ENERGY, AND CONTRACT WORK	VALUE OF PRODUCTS	VALUE ADDED BY MANUFACTURE
In thousands of dollars							
Nonferrous metals, etc.- Con.							
Silverware and plated ware-	1937	136	11,361	13,790	22,670	56,733	34,063
	1935	139	10,194	11,078	15,298	43,372	28,074
	1933	126	9,177	8,229	12,425	34,333	21,907
	1931	163	11,077	12,713	11,792	45,815	34,022
Tin and other foils, not including gold foil.	1937	9	1,669	2,354	11,157	17,760	6,603
	1935	11	1,831	1,899	9,226	14,533	5,307
	1933	7	1,337	1,189	7,681	11,331	3,651
	1931	8	201,218	998	7,383	12,226	4,843
Watchcases.	1937	29	2,451	3,156	4,182	10,358	6,983
	1935	29	2,016	2,329	2,776	6,983	4,206
	1933	20	1,169	1,006	760	2,657	1,897
	1931	31	1,669	1,767	1,361	4,219	2,858
Machinery, not including transportation equipment, total.	1937	9,961	955,975	1,375,506	2,424,495	5,891,599	3,467,105
	331935	10,114	687,465	800,020	1,405,792	3,492,701	2,086,909
	331933	8,442	470,580	444,567	724,217	1,887,842	1,163,625
	331931	11,468	695,297	797,510	1,218,187	3,415,078	2,196,892
Agricultural implements (including tractors).	1937	262	77,512	121,861	286,514	554,778	278,265
	1935	241	52,866	64,321	140,249	291,254	151,005
	341933	194	19,264	18,562	29,006	64,951	35,945
	341931	250	29,245	32,265	69,782	168,318	98,536
Cash registers, adding and calculating machines, and other business machines except typewriters.	1937	87	23,630	37,422	21,245	138,071	116,826
	1935	93	18,468	23,696	13,911	94,739	80,828
	351933	73	12,448	14,926	7,849	50,831	42,932
	351931	41	12,176	14,982	5,269	56,474	51,205
Cranes, and dredging, excavating, and road-building machinery.	1937	158	18,800	28,151	64,193	138,848	74,656
	1935	128	10,808	12,572	29,010	62,860	33,850
Electrical machinery, apparatus, and supplies.	1937	1,435	257,660	355,959	642,867	1,622,093	979,232
	1935	1,393	179,641	198,046	372,001	960,430	588,430
	1933	1,209	130,857	115,750	212,514	553,431	340,918
	1931	1,379	180,106	204,488	337,125	995,010	657,886
Engines, turbines, water wheels and windmills.	1937	139	32,855	50,838	36,601	194,695	108,094
	1935	149	22,062	26,845	43,206	99,996	56,790
	341933	153	15,411	14,853	23,436	56,619	33,183
	341931	173	22,414	26,075	44,977	103,933	64,956
Machine-shop products.	1937	2,957	109,245	155,337	262,142	652,751	390,609
	1935	3,026	82,474	97,454	174,184	418,054	243,870
	1933	2,895	70,947	66,392	104,760	274,568	169,808

Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 not, except as noted. Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are available except for few industries.

Revised; revision carried into group total.

The figures for 1935 and 1933 have been revised by excluding figures for the "Boiler-shop products" and "Foundry, products (gray-iron and malleable-iron)" industries which have been transferred to "Iron and steel and their products, except machinery" group. The figures for 1931 have not been revised as there are figures available for these industries for 1931.

Beginning 1935 figures for tractors excluded from "Engines, turbines, water wheels, and windmills" and included with "Agricultural implements (including tractors)." The 1933 and 1931 figures for these industries have been revised accordingly.

Manufacturers of duplicating machines, check-writing machines, and manfolding machines, now classified in this industry, prior to 1935 were assigned to the abandoned industry - Foundry and machine-shop products. Figures for 1933 have been revised accordingly, but no revision has been made for 1931.

Foundry and machine-shop products. No figures available for earlier years.

No figures available for 1931; included with those for the abandoned industry - Foundry and machine-shop products" for 1931.

**No. 880. MANUFACTURES-SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES:
1931 TO 1937- Continued**

GROUP OR INDUSTRY	Cen- sus year	Num- ber estab- lish- ments	Wages (average for the year)	WAGES	COST OF MATERIALS, ETC., FUEL, PUR- CHASED ENERGY, AND CON- TRACT WORK	VALUE OF PRODUCTS	VALUE ADDED BY MANUFACTURE
In thousands of dollars							
Machinery-Continued.							
Machinery not elsewhere classi- fied. ³⁸	1937	2,298	146,712	217,737	375,647	964,151	588,504
	1935	2,532	107,285	128,895	215,006	566,605	351,598
Machine-tool accessories and machinists precision tools.	1937	806	32,893	55,957	46,002	162,002	116,000
	1935	731	23,138	34,414	27,413	96,838	69,424
	1933	587	12,757	14,159	10,882	44,383	33,501
	1931	718	17,533	26,559	15,320	69,033	52,713
Machine tools.	1937	292	47,266	78,284	78,115	260,243	182,128
	1935	259	28,185	37,261	36,689	121,833	85,143
	1933	232	12,714	12,596	10,844	41,434	30,589
	1931	279	21,262	25,150	21,901	81,287	59,386
Printers' machinery and equip- ment. ³⁶	1937	230	13,716	22,378	20,966	78,628	57,662
	1935	238	9,884	13,582	13,131	51,560	38,429
Pumps (hand and power), pump- ing equipment, and air com- pressors.	1937	345	28,320	39,773	85,061	198,721	113,661
	1935	348	17,523	20,170	41,593	102,298	60,704
	1933	277	12,469	11,771	23,798	55,910	32,111
	1931	324	17,010	19,023	38,906	96,562	57,656
Radios, radio tubes, and phono- graphs.	1937	162	48,343	52,002	154,906	277,807	122,902
	1935	196	44,796	42,906	103,686	200,973	97,286
	1933	156	32,879	29,655	58,521	121,802	63,281
	1931	217	36,490	35,146	88,403	193,143	104,740
Refrigerators and refrigerating and ice-making apparatus.	1937	280	50,623	71,371	195,229	363,788	168,559
	1935	275	37,146	40,443	116,925	224,114	107,189
	1933	204	26,398	24,335	69,601	140,762	71,161
	1931	227	26,116	32,350	88,562	199,427	110,865
Scales and balances.	1937	57	3,299	4,115	5,858	17,856	11,998
	1935	56	2,468	2,633	3,816	13,384	9,568
	1933	45	2,187	1,825	2,162	8,333	6,171
	1931	54	2,814	3,233	3,644	14,561	10,917
Sewing-machines and attach- ments.	1937	36	9,019	13,551	9,003	34,836	25,833
	1935	39	7,509	9,053	6,032	22,635	16,604
	1933	30	6,313	6,034	2,862	12,926	10,064
	1931	34	8,090	8,792	6,091	20,148	14,057
Textile machinery and parts.	1937	356	25,340	33,139	35,546	107,429	71,883
	1935	349	19,072	21,246	23,269	68,846	45,577
	1933	314	18,576	18,737	18,378	60,323	41,945
	1931	330	18,808	21,238	18,175	65,798	47,623
Typewriters and parts.	1937	21	21,440	25,956	13,392	45,006	31,614
	1935	20	15,398	16,632	8,630	33,858	25,228
	1933	14	9,591	7,565	3,256	16,465	13,208
	1931	20	10,924	10,328	3,785	22,057	18,271

: Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel,
purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are
available except for a few industries.

³⁶New industry at the census for 1935; formerly a part of the abandoned industry classification
"Foundry and machine-shop products." No figures available for earlier years.

³⁸New industry at the census for 1935; formerly a part of the abandoned industry classification "Foundry
and machine-shop products." The figures for 1935 have been revised to exclude data for air compressors,
a part of "Pumps, pumping equipment, and air compressors." No figures available for earlier years.

Figures revised to include data for air compressors classified "Machinery not elsewhere classified"
at the census for 1935 and in the abandoned industry "Foundry and machine-shop products" in previous
years.

No. 830. - MANUFACTURES SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES:
1931 TO 1937- Continued

GROUP OR INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	Wage earn- ers (average for the year)	WAGES	COST OF MATE- RIALS, ETC., FUEL, PUR- CHASED ENERGY, AND CON- TRACT WORK ¹	VALUE OF PRODUCTS	VALUE ADDED BY MANUFACTURE ²
In thousands of dollars							
Machinery-Continued.							
Washing machines, wringers, driers, and troning machines, for nousehold use.	1937 1935 1933 1931	40 41 41 59	9,302 8,742 6,956 6,202	11,675 9,852 6,363 7,212	41,208 37,041 24,361 24,521	69,889 62,425 44,542 50,929	28,680 25,384 20,181 26,408
Foundry and machine-shop products, not elsewhere classi- fied. ¹⁰	1933 1931	2,018 7,363	80,813 286,108	81,045 330,669	121,987 450,726	340,564 1,272,399	218,577 821,673
Transportation equipment, air, land, and water, total. ⁴¹	1937 1935 1933 1931	1,942 1,813 1,505 1,999	623,845 475,971 303,402 369,600	967,231 651,954 316,488 464,130	4,099,756 2,983,065 1,286,619 1,729,837	5,985,889 4,290,117 2,047,210 2,881,856	1,886,134 1,307,053 760,592 1,152,019
Aircraft and parts.	1937 1935 1933 1931	92 79 64 101	24,003 11,384 7,816 9,870	33,353 14,893 10,308 15,481	38,805 14,361 7,957 13,101	106,568 45,347 26,460 40,278	67,763 30,986 18,503 27,177
Carriages, wagons, sleighs, and sleds.	1937 1935 1933 1931 421931	43 45 53 70 75	1,823 1,592 1,409 1,321 1,431	1,723 1,284 922 1,199 1,389	4,633 3,683 2,350 2,424 2,918	9,138 6,845 4,753 5,160 6,179	4,505 3,162 2,402 2,666 3,261
Cars, electric and steam railroad, not built in railroad repair shops.	1937 1935 1933 1931	154 150 188 152	40,466 21,481 14,266 18,785	59,276 25,756 14,710 25,553	226,505 61,732 27,311 59,754	335,322 100,542 46,148 99,657	108,817 38,810 18,837 39,903
Locomotives, railroad, mining, and industrial, not built in railroad repair shops.	1937 1935 1933 1931	13 14 13 16	9,000 3,790 2,374 5,443	14,845 3,972 1,863 5,590	39,266 9,493 4,266 14,871	72,123 17,383 6,927 22,119	32,857 7,890 2,661 7,248
Motorcycles, bicycles, and parts.	1937 1935 1933 1931	29 23 19 19	6,938 5,093 3,038 3,294	8,207 5,214 2,639 3,563	19,793 12,813 6,162 5,520	36,044 23,086 12,055 13,697	16,251 10,273 5,894 8,177
Motor-vehicle bodies and motor- vehicle parts.	1937 1935 1933 1931	936 825 701 940	284,814 240,757 145,745 150,649	439,940 328,375 148,322 193,770	1,275,073 1,005,059 264,377 516,945	2,080,018 1,550,924 207,564 945,407	804,945 545,866 203,188 428,461
Motor vehicles, not including motorcycles.	1937 1935 1933 1931	131 121 122 178	194,527 147,044 97,869 134,866	316,141 217,039 103,785 156,756	2,394,269 1,814,814 767,768 1,044,406	3,096,219 2,391,090 1,096,946 1,567,526	701,949 576,275 329,178 523,120
Ship and boat building, steel and wooden, including repair work.	1937 1935 1933 1931	544 556 395 518	62,274 44,830 30,885 45,262	93,747 55,422 33,890 62,028	101,411 61,109 31,172 72,322	250,457 154,900 92,696 186,993	149,046 93,790 61,524 114,671

Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
¹ Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel,
 purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are
 available except for a few industries.

Revised; revision not carried into group total.

The 1933 and 1931 figures were not in all cases assigned the census for 1935; divided into 6 industries.
 the industry classifications.

Excludes figures for "Carriages and sleds, children's" See "Miscellaneous industries" group.

Manufacturers of lunch wagons, classified in this industry prior to 1933, are now assigned to "Planing-
 products" industry in "Forest products" group. These figures have been revised for comparison with
 later years.

NO. 830.- MANUFACTURES SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES:
1931 TO 1937-Continued

GROUP OR INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	Wage carriers (average for the year)	WAGES	COST OF MATE- RIALS, ETC., FUEL, PUR- CHASED ENERGY, AND CON- TRACT WORK ¹	VALUE OF PRODUCTS	VALUE ADDED BY MANU- FACTURE ²
In thousands of dollars							
Miscellaneous industries, total.	1937	10,077	355,164	366,083	1,633,610	2,712,042	1,078,432
	431935	11,211	310,140	284,628	1,344,995	2,227,258	882,263
	431933	8,695	262,583	205,842	1,005,854	1,688,521	682,766
	431931	11,781	302,672	305,625	1,285,776	2,322,890	1,037,113
Musical instruments, total.	1937	187	11,971	14,089	17,161	43,265	26,104
	1935	192	8,805	8,738	10,188	26,633	16,446
	1933	170	6,106	5,097	5,424	15,715	10,292
	1931	230	10,003	11,152	10,762	32,207	21,445
Organs.	1937	34	1,086	1,235	1,474	4,637	3,163
	1935	28	614	611	592	1,699	1,107
	1933	29	574	510	387	1,627	1,240
	1931	42	1,460	1,763	1,627	5,710	4,083
Pianos.	1937	38	5,698	7,062	9,767	21,703	11,936
	1935	36	4,110	4,089	5,606	12,688	7,082
	1933	36	2,700	2,382	2,828	7,243	4,415
	1931	50	4,737	5,157	5,892	15,293	9,401
Piano and organ parts and materials.	1937	32	1,778	1,716	2,114	4,978	2,864
	1935	34	1,217	1,029	1,224	3,186	1,962
	1933	33	768	527	584	1,732	1,148
	1931	50	1,213	1,178	1,005	3,090	2,085
Musical instruments and parts and materials, not elsewhere classified.	1937	83	3,409	4,075	3,806	11,948	8,141
	1935	94	2,864	3,010	2,765	9,060	6,295
	1933	72	2,064	1,678	1,624	5,114	3,490
	1931	88	2,593	3,053	2,238	8,114	5,875
Tohacco manufactures, total.	1937	852	92,158	70,291	449,476,28	1,272,688	325,059
	1935	890	90,543	59,448	448,09,025	1,093,400	284,375
	1933	804	87,325	50,933	446,59,095	909,082	249,987
	1931	1,228	99,769	69,411	447,85,502	1,155,851	570,349
Cigarettes.	1937	34	26,149	24,182	#771,522	968,927	197,405
	1935	29	24,447	18,315	4641,313	806,690	165,377
	1933	27	22,544	13,835	44,503,560	637,776	134,216
	1931	40	20,146	14,664	44,555,049	759,389	204,340
Cigars.	1937	693	55,879	37,522	448,7,341	169,237	81,895
	1935	746	56,019	53,503	447,7,814	151,265	73,451
	1933	665	54,558	30,061	472,5,89	139,372	66,783
	1931	1,063	68,182	46,074	441,19,295	227,349	108,054
Tobacco (chewing and smoking) and snuff.	1937	125	10,130	8,587	4488,766	134,524	45,759
	1935	115	10,077	7,629	4489,898	135,445	45,547
	1933	112	10,223	7,037	4482,946	131,935	48,988
	1931	125	11,441	8,673	4411,158	169,113	57,955
Other industries, total.	1937	9,038	251,035	281,703	668,820	1,396,089	727,269
	431935	10,129	210,792	216,442	525,782	1,107,224	581,442
	431933	7,721	169,154	149,812	341,336	763,823	422,487
	431931	10,323	192,900	202,25,278	489,512	1,134,832	545,320
Artificial and preserved flowers and plants.	1937	189	5,657	3,893	6,175	14,378	8,202
	1935	190	3,206	2,609	3,383	8,994	5,611
	1933	131	2,338	1,567	2,481	6,445	3,964
	I 1931	158	2,348	2,140	3,415	9,035	5,620

Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
¹ Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are available except for a few industries.
 Revised; revision not carried into group total.

Revised to include data for "Carriages and sleds, children's" industry. Until the census for 1937 industry included in "Transportation equipment, air, land, and water" group.
 Amount of internal-revenue tax paid by tobacco, cigar, and cigarette manufacturers included to avoid inflating "Value added by manufacture."

No. 830.— MANUFACTURES - SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES:
1931 TO 1937- Continued

GROUP OR INDUSTRY	Cen- sus year	Number of estab- lish- ments	Wages per employee (average for the year)	WAGES	COST OF MATE- RIALS, ETC., FUEL, PUR- CHASED ENERGY, AND CON- TRACT WORK 1	VALUE OF PRODUCTS	VALUE ADDED BY MANUFAC- TURE 2
In thousands of dollars							
Miscellaneous industries-Con.							
Artists' materials.	1937	40	372	403	1,282	2,783	1,501
	1935	47	350	336	1,229	2,431	1,202
	1933	38	265	259	989	2,137	1,148
	1931	45	328	368	1,211	2,644	1,333
Beauty-shop equipment, except furniture.	1937	73	2,548	2,480	5,334	13,571	8,238
	1935	82	2,179	1,968	5,059	12,525	7,466
Brooms.	1937	289	4,067	2,906	6,301	11,628	5,327
	1935	348	4,158	3,072	7,515	14,338	6,824
	1933	260	3,757	2,111	4,601	9,073	4,472
	1931	334	4,086	103,326	6,264	13,135	6,871
Brushes, other than rubber	1937	243	7,915	7,250	24,110	44,537	20,426
	1935	250	6,818	6,007	18,857	42,091	23,234
	1933	221	5,809	4,821	12,200	24,576	12,376
	1931	264	5,891	5,992	14,228	30,827	16,600
Buttons.	1937	291	12,026	9,256	13,578	31,291	17,713
	1935	297	10,288	8,151	11,275	28,031	16,756
	1933	200	9,888	6,706	8,614	22,412	13,798
	1931	212	8,224	6,661	8,303	21,525	13,221
Carbon paper and inked ribbons.	1937	50	1,627	1,991	9,178	17,860	8,681
	1935	56	1,425	1,629	7,502	14,695	7,193
	1933	47	1,171	1,243	5,157	11,225	6,069
	1931	54	1,198	1,463	6,034	13,476	7,442
Carriages and sleds, children's.	1937	54	5,218	5,415	9,960	19,655	9,696
	1935	55	4,918	4,360	7,432	15,511	8,080
	1933	46	3,971	2,877	5,671	10,985	5,314
	1931	59	4,159	4,479	7,091	16,769	9,679
Dentists' equipment and sup- plies.	1937	101	4,574	5,347	12,717	30,879	18,162
	1935	87	3,516	3,631	9,145	22,958	13,823
	1933	79	3,120	2,452	6,945	16,437	9,492
	1931	84	3,874	3,949	9,362	24,005	14,643
Feathers, plumes, and man- ufactures thereof.	1937	61	559	437	1,193	2,320	1,126
	1935	73	573	423	612	1,646	1,034
	1933	40	322	265	227	835	608
	1931	53	527	559	588	1,898	1,310
Foundry supplies.	1937	51	466	592	4,739	8,626	3,886
	1935	46	400	446	3,446	6,519	3,074
	1933	40	334	315	1,326	2,788	1,462
	1931	52	428	492	2,080	3,998	1,918
Fur goods- regular factories 46	1937	1,590	12,798	21,369	106,206	154,971	48,765
Fur goods- contract factories 46	1937	52	154	191	138	634	495
Fur goods 46	1935	2,438	12,510	21,040	90,992	143,784	52,793
	1933	1,463	8,210	11,500	50,061	80,524	30,464
	1931	2,354	12,358	24,793	102,634	164,749	62,115

Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 not, except as noted.
1: Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.

Revised: revision not carried into group total.

New classification at the census for 1935 no comparable figures available for earlier years.

2: At the census for 1937 the industry "Fur goods" separated into two industries, "Fur goods-regular factories" and "Fur goods-contract factories." Because of the fact that some establishments lose their identity during a 5-year period through change of name, ownership, and location, and, therefore, may be missed by a canvass made largely of small, the 1947 figures for this industry are not complete and are not comparable with the figures for the "Fur goods" industry for prior years.

No. 830.—MANUFACTURES SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES:
1931 TO 1937- Continued

GROUP OR INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	Wage earn- ers (average for the year)	WAGES	COST OF MATE- RIALS, ETC., FUEL, PUR- CHASED ENERGY, AND CON- TRACT WORK ¹	VALUE OF PRODUCTS	VALUE ADDED BY MANUFAC- TURE ²
In thousands of dollars							
Miscellaneous industries-Con.							
Furs, dressed and dyed.	1937	121	6,343	8,335	6,449	21,763	15,314
	1935	167	6,434	7,561	7,007	21,340	14,333
	1933	181	5,364	6,246	9,540	24,948	15,408
	1931	243	5,160	7,968	16,221	37,873	21,652
Hairwork.	1937	35	434	374	942	2,449	1,507
	1935	43	502	438	1,064	2,738	1,674
	1933	37	228	188	306	986	679
	1931	52	267	288	311	1,184	874
Hand stamps and stencils and brands.	1937	266	2,375	2,929	3,047	10,386	7,339
	1935	277	2,255	2,532	2,750	9,338	6,588
	1933	256	2,196	2,062	1,855	7,637	5,782
	1931	288	2,496	3,371	2,395	10,045	7,651
Instruments and apparatus, pro- fessional, scientific, commer- cial, and industrial. ⁷	1937	283	17,399	23,543	29,684	96,013	66,329
	1935	283	15,216	17,573	20,714	68,344	47,630
	1933	241	8,894	9,183	9,586	35,915	26,328
	1931	302	13,341	15,912	15,953	59,447	43,495
Jewelry and instrument cases.	1937	91	4,788	3,692	4,860	12,202	7,343
	1935	74	2,629	2,252	2,602	7,156	4,553
	1933	62	1,095	841	1,134	3,096	1,961
	1931	92	1,398	1,415	1,941	4,919	2,978
Lapidary work.	1937	51	217	306	3,343	4,391	1,048
	1935	60	153	201	1,244	2,050	806
	1933	34	107	124	483	823	340
	1931	53	205	340	1,378	2,475	1,097
Mattresses and bed springs not elsewhere classified.	1937	839	19,165	19,811	63,190	113,120	49,929
	1935	824	15,404	14,668	48,949	84,811	35,862
	1933	645	13,280	10,694	32,491	59,724	27,233
	1931	781	13,622	14,702	37,509	77,508	39,999
Miscellaneous articles not else- where classified.	1937	595	15,854	12,905	24,156	54,404	30,248
	1935	666	14,452	12,025	21,492	50,353	28,861
	1933	574	13,435	9,894	16,644	41,811	25,167
	1931	732	14,545	13,690	23,217	57,050	33,833
Models and patterns, not includ- ing paper patterns.	1937	594	5,728	9,762	4,142	22,289	18,147
	1935	582	4,104	6,128	3,244	15,297	12,053
	1933	422	2,795	3,525	1,483	8,627	7,145
	1931	649	4,332	7,378	2,787	16,192	13,405
Optical goods.	1937	96	11,998	14,465	14,432	47,461	33,029
	1935	100	9,667	10,333	11,114	33,600	22,486
	1933	103	7,598	7,300	8,155	26,214	18,059
	1931	102	7,446	8,756	7,524	27,887	20,364
Paving materials: Blocks (except brick and stone) and mixtures.	1937	148	1,946	2,419	14,605	25,289	10,683
	1935	132	2,231	2,514	9,984	17,885	7,901
	1933	93	1,151	1,215	6,287	10,950	4,663
	1931	97	1,081	1,556	8,587	16,003	7,416

Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 except noted.
¹ Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel,
 purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are
 not available except for a few industries.

⁴ Revised; revision not carried into subgroup or group total.
 Manufacturers of gas and water meters, prior to 1935, assigned to "Meters (gas, water,
 generators)" industry in "Machinery, except transportation equipment" group, are now classified in this
 industry. The figures for years prior to 1935 have been revised accordingly, but the revision has not been
 carried into total for the group and subgroup.

⁴⁸ Revised to include figures for "Combs and hairpins not made of metal or of rubber" industry, aban-
 doned as a separate classification.

No. 830.— MANUFACTURES SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES: 1931 TO 1937 - Continued

GROUP OR INDUSTRY	Cons- SLS year	Num- ber of estab- lish- ments	Wage carriers (average for the year)	WAGES	COST OF MATE- RIALS, ETC. FUEL, PUR- CHASED ENERGY, AND CON- TRACT WORK	VALUE OF PRODUCTS	VALUE ADDED BY MANUFACTURE
In thousands of dollars							
Miscellaneous industries-- Con.							
Pencils, lead (including mechan- ical), and crayons.	1937	46	5,776	5,216	9,866	22,430	12,564
	1935	47	5,182	4,236	8,255	19,999	11,744
	1933	43	4,048	3,167	5,134	14,394	9,260
	1931	16	3,969	3,700	6,128	17,237	11,109
Pens fountain and stylographic; pen points, gold, steel, and brass.	1937	42	4,343	4,352	7,385	21,828	14,443
	1935	51	3,780	3,428	5,796	17,888	12,091
	1933	54	3,099	2,341	4,124	11,598	7,473
	1931	68	3,945	4,364	7,219	23,799	16,579
Photographic apparatus and ma- terials and projection apparat- us.	1937	109	18,450	28,876	36,653	115,888	79,235
	1935	118	12,000	15,807	26,150	73,956	47,817
	1933	84	8,975	10,155	11,985	53,860	41,875
	1931	110	10,609	13,082	20,868	79,507	58,639
Pipes (tobacco).	1937	25	2,382	2,413	2,523	7,647	5,124
	1935	29	2,240	2,283	2,019	6,176	4,158
	1933	22	1,362	1,145	960	3,274	2,314
	1931	24	1,677	1,761	1,776	5,522	3,747
Roofing, built-up and roll; as- phalt shingles; roof coatings other than paint.	1937	111	7,418	9,520	62,644	102,562	39,917
	1935	108	6,478	6,685	44,325	76,173	31,847
	1933	74	4,418	4,436	23,893	44,833	20,040
	1931	88	4,123	5,331	32,706	58,963	26,257
Signs and advertising novelties.	1937	1,001	16,042	19,181	27,754	75,723	47,969
	1935	1,075	13,712	14,932	21,920	61,362	39,442
	1933	848	12,044	11,577	15,312	47,144	31,832
	1931	1,078	14,463	18,485	21,297	74,681	53,384
Soda fountains and related prod- ucts.	1937	51	1,655	2,549	6,263	13,033	6,770
	1935	48	1,096	1,436	4,171	8,214	4,043
	1933	40	816	948	2,649	6,035	3,386
	1931	47	1,563	2,190	5,236	14,606	9,370
Sporting and athletic goods, not including firearms or ammuni- tion.	1937	204	11,392	11,730	21,857	44,461	22,603
	1935	196	9,665	9,018	16,720	34,864	18,143
	1933	176	8,215	6,523	10,570	25,267	14,698
	1931	217	10,176	11,219	20,099	49,257	29,159
Stationery goods not elsewhere classified.	1933	86	3,467	2,738	6,818	14,241	7,423
	1931	128	5,088	5,345	12,211	27,196	14,985
Steam and other packing, pipe and boiler covering, and gas- kets, not elsewhere classified.	1937	125	5,934	6,930	15,048	32,554	17,506
	1935	124	4,774	4,742	11,768	24,258	12,491
	1933	118	4,285	3,785	8,728	19,390	10,661
	1931	131	4,120	4,545	10,253	22,647	12,394
Surgical and orthopedic appli- ances and related products.	1937	323	8,423	8,546	45,031	77,068	32,037
	1935	307	7,089	6,288	36,144	61,764	25,620
	1933	250	6,958	6,119	28,846	51,442	22,596
	1931	325	6,740	7,271	22,954	51,012	28,058
Theatrical scenery and stage equipment.	1937	50	397	489	1,180	2,678	1,489
	1935	48	279	437	751	1,937	1,186
	1933	40	312	397	617	2,044	1,427
	1931	45	365	649	1,218	3,003	1,784

Figures for 1937 and 1935 include cost of contract work: those for 1933 and 1931 not, except as noted.
: Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel,
purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work
not available except for a few industries.

Revised; revision not carried into subgroup or group total.

Abandoned as a separate classification in 1935, now assigned to other industries.

Revised to exclude data for establishments manufacturing mineral wool as a primary product, such
establishments having been transferred to "Wallboard and plaster (except gypsum), building insulation,
and floor composition" industry in "Stone, clay, and glass products" group. Revision not carried into
total for group or subgroup.

No. 830.— MANUFACTURES- SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES:
1931 TO 1937- Continued

GROUP OR INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	Wage earn- ers (average for the year)	WAGES	COST OF MATE- RIALS, ETC., FUEL, PUR- CHASED ENERGY, AND CON- TRACT WORK	VALUE OF PRODUCTS	VALUE ADDED BY MANUFAC- TURE
In thousands of dollars							
Miscellaneous industries-Con.							
Toys (not including children's wheel goods or sleds), games, and playground equipment.	1937	344	17,547	15,020	28,812	63,856	35,044
	1935	384	15,375	12,129	23,935	52,156	28,222
	1933	285	12,484	8,877	17,119	37,222	20,103
	1931	380	13,231	12,380	21,515	53,601	32,086
Umbrellas, parasols, and canes.--	1937	81	3,088	2,572	8,042	13,237	5,196
	1935	83	2,186	1,712	6,159	10,086	3,927
	1933	80	2,155	1,531	4,972	8,259	3,287
	1931	93	1,852	1,611	5,136	9,115	3,979
Window shades (textile and paper), and fixtures.	1937	304	3,166	3,173	13,294	23,574	10,280
	1935	319	2,999	2,710	12,223	20,324	8,101
	1933	312	2,903	2,264	9,115	16,170	7,055
	1931	448	3,119	3,313	11,198	20,562	9,364
Wool pulling.	1937	19	794	1,064	12,695	16,651	3,956
	1935	17	866	975	9,065	12,403	3,338
	1933	16	678	670	7,087	10,226	3,138
	1931	14	640	915	5,359	7,378	2,019

Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not; except as noted.
: Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel,
purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work
are not available except for a few industries.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

No. 831.- MANUFACTURES SUMMARY, BY STATES: 1935 AND 1937

[See general note, p. 8021]

		Cen- Sus year	Num- ber of estab- lish- ments	Salad and employ- ment	Wage carriers (average for the year)1	SALARIES	WAGES	COST OF MATE- RIALS, ETC., FUEL, PUR- CHASED ENERGY, AND CON- TRACT WORK2	VALUE ADDED BY OF PROD- UCTS2	VALUE ADDED BY MANUFAC- TURE2
In thousands of dollars										
United States-	1937	166,794	1,217,171	8,569,232	716,866	10,112,883	5,539,333	160,712,872	25,173,532	
	1935	107,916	506,501	7,207,942	263,425	7,311,329	26,441,145	44,993,699	18,552,563	
GEOGRAPHIC DIVISIONS.										
New England.	1937	15,568	131,740	1,022,350	294,813	1,133,392	2,622,660	5,109,918	2,487,258	
	1935	15,130	120,129	902,658	255,348	882,428	2,029,377	3,931,000	1,901,123	
Middle Atlantic.	1937	19,897	373,730	2,386,743	382,402	2,936,510	9,256,477	16,590,776	7,343,298	
	1935	53,920	337,748	2,066,784	757,294	2,199,623	7,010,551	2,562,542	5,551,557	
East North Central.	1937	36,773	380,686	2,671,131	376,111	3,505,767	11,523,028	19,970,069	8,446,131	
	1935	36,907	319,114	2,082,293	682,681	2,400,913	3,295,627	14,353,526	5,057,899	
West North Central.	1937	13,834	76,559	406,176	153,687	457,489	2,762,949	4,091,727	1,328,778	
	1935	13,892	70,185	345,752	136,072	343,978	2,257,985	3,308,119	1,050,134	
South Atlantic.	1937	15,751	84,029	991,825	176,843	836,180	3,288,204	5,403,450	2,115,245	
	1935	15,219	71,689	856,446	147,930	625,845	2,491,453	4,025,611	1,534,158	
East South Central.	1937	6,681	34,198	370,412	59,757	297,939	1,186,135	1,977,318	791,183	
	1935	6,382	30,135	303,955	58,462	214,281	868,172	1,449,201	581,029	
West South Central.	1937	8,582	41,492	272,389	80,359	251,833	1,877,111	2,693,027	815,916	
	1935	8,179	34,731	214,213	65,828	177,033	1,332,061	1,892,782	560,721	
Mountain.	1937	3,683	13,784	78,774	27,032	96,678	639,194	928,951	289,757	
	1935	3,392	12,254	51,997	23,065	66,197	406,883	599,460	192,576	
Pacific.	1937	16,025	75,953	169,431	155,862	597,095	2,382,675	3,938,647	1,555,972	
	1935	14,895	62,516	369,696	126,745	401,030	1,748,202	4,871,457	1,123,255	
New England:										
Maine.	1937	1,171	6,432	75,464	13,452	72,263	197,526	348,636	151,111	
	1935	1,189	6,067	68,603	12,141	58,027	154,515	271,731	117,216	
New Hampshire.	1937	794	4,819	56,517	10,473	55,235	144,323	249,632	105,309	
	1935	775	4,688	53,833	9,154	47,812	116,357	207,091	90,734	
Vermont.	1937	683	2,871	23,682	6,038	24,615	58,772	111,876	53,104	
	1935	660	2,498	18,870	5,014	17,598	41,323	80,847	39,524	
Massachusetts.	1937	8,619	68,204	496,036	154,043	656,077	1,364,299	2,620,789	1,256,490	
	1935	8,266	62,677	437,459	136,377	438,416	1,084,175	2,050,045	375,371	
Rhode Island.	1937	1,409	12,384	108,031	28,872	112,933	276,739	517,195	240,458	
	1935	1,420	11,132	100,852	24,921	94,322	225,590	411,886	186,296	
Connecticut.	1937	2,892	37,030	262,620	81,936	312,270	581,002	1,261,789	680,787	
	1935	2,820	33,067	223,041	67,741	226,253	407,918	899,401	491,483	
Middle Atlantic:										
New York.	1937	29,749	188,616	995,658	438,861	1,236,048	3,998,266	7,314,447	3,316,180	
	1935	33,569	173,460	378,592	390,068	991,678	3,307,515	5,963,850	2,656,335	
New Jersey.	1937	7,064	67,496	436,745	160,526	523,504	1,890,539	3,253,246	1,362,708	
	1935	7,425	59,037	373,522	136,686	391,924	1,382,469	2,407,323	1,024,855	
Pennsylvania.	1937	13,084	122,618	954,340	283,014	1,176,957	3,367,673	6,032,083	2,664,410	
	1935	12,926	105,251	814,670	230,540	315,022	2,320,904	4,191,369	1,870,467	
E. North Central:										
Ohio.	1937	9,138	104,016	694,205	242,874	257,650	2,793,190	5,099,817	2,306,627	
	1935	9,142	83,593	579,522	192,696	565,855	2,005,768	3,660,904	1,655,136	
Indiana.	1937	3,939	13,581	313,342	93,480	402,117	1,478,568	2,497,548	1,018,980	
	1935	3,917	37,086	248,196	73,708	257,802	946,284	1,649,530	703,246	
Illinois.	1937	11,764	118,256	568,841	273,835	362,793	2,985,247	5,304,283	2,319,036	
	1935	12,018	99,214	525,945	215,942	581,388	2,131,031	3,743,099	1,612,069	
Michigan.	1937	5,614	76,219	660,676	183,414	986,841	3,204,438	5,296,101	2,091,663	
	1935	5,544	60,246	531,658	132,698	691,666	2,428,059	3,956,178	1,553,119	
Wisconsin.	1937	6,318	38,614	234,067	82,507	296,365	1,052,486	1,772,310	709,824	
	1935	6,286	33,975	196,972	67,637	204,201	784,486	1,313,815	529,329	
W. North Central:										
Minnesota.	1937	3,718	17,424	89,925	35,923	107,393	524,565	937,463	312,898	
	1935	3,701	16,751	76,241	32,737	77,974	500,843	746,351	245,507	
Iowa.	1937	2,454	13,886	67,878	25,490	76,193	473,395	709,458	236,064	
	1935	2,457	12,277	56,541	21,604	55,483	398,718	575,371	176,653	
Missouri.	1937	4,291	29,843	186,831	64,001	202,586	944,985	1,505,383	560,398	
	1935	4,379	27,193	157,683	56,577	153,735	742,709	1,183,637	440,928	
North Dakota.	1937	340	830	2,854	1,433	3,192	35,571	15,837	10,266	
	1935	320	831	2,551	1,337	2,742	32,357	41,333	8,976	
South Dakota.	1937	434	1,281	4,970	2,198	5,485	52,897	67,276	14,380	
	1935	403	1,138	4,400	1,949	4,398	44,722	56,026	11,305	
Nebraska.	1937	1,071	4,899	19,590	9,049	22,126	215,077	282,502	67,424	
	1935	1,140	4,810	17,855	8,708	18,129	189,332	247,727	58,395	
Kansas.	1937	1,526	8,387	34,128	15,594	40,513	416,459	543,807	127,348	
	1935	1,492	7,185	30,481	13,160	31,518	349,304	457,675	108,371	

For footnotes, see p. 840.

No. 831.- MANUFACTURES SUMMARY, BY STATES: 1935 AND 1937-- Con.

							COST OF MATERIALS, FUEL, AND CONTRACT WORK	VALUE OF PROD- UCTS	VALUE ADDED BY MANUFACTURE
	Cen- sus year	Num- ber of estab- lish- ments	Salaried officers and em- ployees	Wage earners (average for the year)	SALARIES	WAGES			
In thousands of dollars									
South Atlantic:									
Delaware.	1937	359	2,679	21,052	6,329	22,992	65,980	124,384	58,404
	1935	339	2,232	16,532	4,703	15,259	46,604	83,015	36,411
Maryland.	1937	2,683	18,436	145,932	40,787	156,995	665,027	1,095,853	430,836
	1935	2,679	15,482	117,245	32,516	108,282	444,919	741,608	296,689
Dist. of Columbia.	1937	469	5,043	8,714	9,521	12,848	31,451	71,108	42,657
	1935	490	3,986	8,115	8,778	11,953	28,884	66,232	37,348
Virginia.	1937	2,384	11,791	132,643	25,388	112,774	572,374	908,222	335,848
	1935	2,241	10,238	113,654	21,259	86,377	450,500	697,530	247,029
West Virginia	1937	1,057	8,061	83,464	18,295	102,511	257,752	480,526	222,774
	1935	1,027	6,680	74,180	14,492	76,650	198,820	366,574	167,754
North Carolina	1937	2,896	13,139	258,771	29,050	189,265	908,903	1,384,738	475,834
	1935	2,599	12,082	227,100	25,595	148,922	735,018	1,103,911	368,893
South Carolina.	1937	1,193	8,434	129,748	11,841	91,792	234,433	409,912	175,478
	1935	1,121	4,808	108,558	10,163	65,946	184,618	207,156	112,538
Georgia.	1937	2,875	12,549	159,496	23,629	110,501	439,145	708,652	269,507
	1935	2,834	10,546	139,650	20,245	81,495	327,406	514,655	187,249
Florida.	1937	1,835	6,897	52,005	12,003	36,501	113,138	217,045	103,907
	1935	1,889	5,635	51,412	10,179	30,961	74,683	154,930	80,247
E. South Central:									
Kentucky	1937	1,624	8,801	68,998	18,298	66,249	323,002	504,897	181,896
	1935	1,621	8,966	60,809	17,423	53,058	284,289	450,676	166,386
Tennessee.	1937	2,083	13,359	135,073	27,241	109,248	412,360	707,987	295,627
	1935	1,991	11,002	112,434	22,015	81,246	302,432	520,969	218,537
Alabama	1937	1,874	8,832	120,301	18,511	96,058	336,328	573,764	237,436
	1935	1,711	7,417	94,345	14,201	60,643	210,642	357,226	146,584
Mississippi.	1937	1,100	3,206	46,040	5,708	26,384	114,446	190,671	76,225
	1935	1,059	2,750	36,367	4,823	19,334	70,809	120,330	49,521
W. South Central:									
Arkansas.	1937	1,048	3,251	37,280	6,095	24,734	99,089	164,676	65,587
	1935	1,066	2,915	29,076	5,181	17,328	74,108	119,341	45,233
Louisiana.	1937	1,684	9,645	76,057	18,919	60,203	380,984	580,840	199,856
	1935	1,611	8,359	61,664	15,659	44,982	290,577	433,520	142,943
Oklahoma.	1937	1,428	6,042	29,551	12,066	34,390	255,470	366,089	110,618
	1935	1,335	5,306	24,349	10,122	24,521	203,258	280,676	77,418
Texas.	1937	4,422	22,554	129,501	43,280	132,505	1,141,568	1,581,422	439,854
	1935	4,167	18,151	99,124	34,867	90,202	764,118	1,059,245	295,128
Mountain:									
Montana.	1937	515	1,952	11,268	3,936	15,758	134,041	176,279	42,238
	1935	478	1,581	8,725	3,177	10,592	92,863	122,430	29,568
Idaho.	1937	533	1,319	12,797	2,485	16,250	63,633	101,325	37,691
	1935	455	1,176	9,635	2,050	10,738	41,319	64,988	23,668
Wyoming.	1937	235	824	3,795	1,711	5,219	33,028	49,129	16,101
	1935	209	682	3,172	1,387	4,072	29,592	42,192	12,600
Colorado	1937	1,233	5,197	25,932	10,299	31,753	145,735	237,838	92,103
	1935	1,160	4,763	20,858	8,746	21,530	107,762	171,350	63,588
New Mexico.	1937	241	506	3,683	768	2,992	11,485	20,599	9,114
	1935	197	404	2,827	718	2,233	7,812	13,573	5,761
Arizona.	1937	290	1,288	7,193	2,823	8,602	84,721	118,356	33,635
	1935	272	1,000	4,748	2,207	5,034	39,283	55,456	16,173
Utah.	1937	552	2,448	13,094	4,575	14,479	156,911	204,857	47,946
	1935	538	2,420	10,808	4,280	10,304	80,268	114,167	33,899
Nevada.	1937	841	250	1,012	434	1,625	9,638	20,568	10,930
	1935	83	228	1,224	499	1,694	7,984	15,303	7,319
Pacific:									
Washington.	1937	3,057	13,008	101,260	26,589	128,472	380,321	675,640	295,319
	1935	2,840	11,470	79,589	22,590	83,970	268,944	470,123	201,179
Oregon.	1937	2,107	7,051	65,982	14,670	79,492	194,085	363,142	169,057
	1935	1,710	6,051	51,006	11,681	51,415	145,398	259,345	113,947
California.	1937	10,861	55,894	302,189	114,603	389,132	1,808,269	2,899,865	1,091,597
	1935	10,345	44,995	239,101	92,475	265,645	1,333,860	2,141,990	808,130

Does not include 173,403 employees for 1937 not classed as salaried officers or wage earners, for which no salary or wage data were collected. No data for 1935.

See second paragraph of general note, 802.

Calculated by subtracting sum of cost of materials, containers, fuel, purchased electric energy, and cost of contract work from value of products for both years.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

No. 832.— MANUFACTURES-SUMMARY FOR INDUSTRIAL AREAS: 1935 AND 1937

NOTE.—The term industrial area signifies an area having as its nucleus an important manufacturing city and comprising the county in which the city is located, together with any adjoining county or counties in which there is great concentration of the manufacturing industry. The industrial areas by constituent counties are as follows: Akron area—Summit County; Albany-Schenectady-Troy area—Albany, Rensselaer, and Schenectady Counties; Alentown-Bethlehem area—Lehigh and Northampton Counties; Baltimore area—Baltimore City and Baltimore County; Boston area—Essex, Middlesex, Norfolk, and Suffolk Counties; Bridgeport-New Haven-Waterbury area—Fairfield and New Haven Counties; Buffalo area—Erie and Niagara Counties; Chicago area—Cook, Du Page, Kane, Lake, and Will Counties, Ill., and Lake County, Ind.; Cincinnati area—Butler and Hamilton Counties, Ohio, and Campbell and Kenton Counties, Ky.; Cleveland area—Cuyahoga and Lorain Counties; Dayton area—Montgomery County; Detroit area—Oakland and Wayne Counties; Hartford area—Hartford County; Indianapolis area—Marion County; Kansas City area—Clay and Jackson Counties, Mo., and Wyandotte County, Kans.; Los Angeles area—Los Angeles County; Milwaukee area—Kenosha, Milwaukee, and Racine Counties; Minneapolis-St. Paul area—Dakota, Hennepin, and Ramsey Counties; New York City-Newark-Jersey City area—Bronx, Kings, New York, Queens, Richmond, and Westchester Counties, N. Y., and Bergen, Essex, Hudson, Middlesex, Passaic, and Union Counties, N. J.; Philadelphia-Camden area—Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pa., and Burlington, Camden, and Gloucester Counties, N. J.; Pittsburgh area—Allegheny, Beaver, Washington, and Westmoreland Counties; Providence-Fall River-New Bedford area—Providence County, R. I., and Bristol County, Mass.; Reading area—Berks County; Rochester area—Monroe County; St. Louis area—St. Louis City and St. Louis County, Mo., and Madison and St. Clair Counties, Ill.; San Francisco-Oakland area—Alameda, Contra Costa, Marin, San Francisco, and San Mateo Counties; Scranton-Wilkes-Barre area—Lackawanna and Luzerne Counties; Seattle-Tacoma area—King and Pierce Counties; Springfield-Holyoke area—Hampden County; Toledo area—Lucas County; Wheeling area—Bracke, Hancock, and Ohio Counties, W. Va., and Belmont, Columbiana, and Jefferson Counties, Ohio; Worcester area—Worcester County; Youngstown area—Mahoning and Trumbull Counties, Ohio, and Lawrence and Mercer Counties, Pa. See also general note, p. 862.

[All figures except number of wage earners in thousands of dollars]

AREA	WAGE EARNERS (AVERAGE FOR YEAR)		WAGES		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE	
	1935	1937	1935	1937	1935	1937	1935	1937
United States,	7,203,784	8,068,237	10,112,883	14,985,006	6,712,879	18,562,663	25,173,589	
Total for areas.	4,032,837	4,543,414	5,402,249	7,201,203	3,616,279	11,951,027	16,459,24	
Akron area.	49,774	52,888	70,223	80,702	365,683	395,871	173,671	179,774
Albany-Schenectady-Troy area.	37,649	44,085	39,896	57,190	205,811	304,469	111,324	158,876
Allentown-Bethlehem area.	48,393	56,850	41,642	62,106	189,352	290,734	97,421	150,768
Baltimore area.	84,415	165,615	83,861	124,623	613,650	925,761	249,299	352,495
Boston area.	2,26,936	247,685	235,743	281,911	1,224,194	1,483,927	574,550	677,039
Bridgeport-New Haven-Waterbury area.	122,187	146,077	124,110	173,309	529,780	761,229	286,250	396,284
Buffalo area.	82,094	105,722	98,569	154,440	753,182	1,078,068	272,174	433,175
Chicago area.	421,397	538,775	494,037	740,160	3,315,851	4,711,428	1,414,456	1,995,958
Cincinnati area.	85,931	101,044	96,454	128,762	621,641	794,341	254,797	330,770
Cleveland area.	138,310	163,319	163,394	232,570	856,370	1,210,522	402,778	570,486
Dayton area.	34,257	47,388	43,032	72,594	204,760	315,584	121,401	185,702
Detroit area.	330,676	406,882	465,429	648,515	2,657,006	3,409,351	1,025,648	1,304,953
Hartford area.	55,138	70,079	59,845	89,474	216,320	314,894	135,029	194,556
Indianapolis area.	34,244	41,254	36,097	50,356	227,681	297,483	107,419	142,475
Kansas City, (Missouri and Kansas) area.	36,668	41,401	40,209	49,857	474,050	549,273	122,373	139,767
Los Angeles area.	94,013	128,555	105,848	164,763	838,623	1,205,280	321,288	466,080
Milwaukee area.	99,123	120,957	113,772	172,675	599,791	871,529	286,091	395,288
Minneapolis-St. Paul area.	46,637	55,509	49,754	69,316	432,517	533,733	166,756	205,528
New York City-Newark-Jersey City area.	766,351	848,345	878,371	1,046,187	5,624,038	6,764,288	2,665,285	2,878,131
Philadelphia-Camden area.	312,377	345,563	335,118	421,546	1,869,180	2,350,645	842,026	1,005,830
Pittsburgh area.	174,717	227,675	195,232	348,762	1,032,912	1,746,908	456,352	767,357
Providence-Fall River-New Bedford area.	141,891	158,075	127,763	157,766	526,159	670,564	251,428	316,731
Reading area.	40,965	45,429	39,078	47,349	121,486	156,921	67,067	83,761
Rochester area.	44,548	57,690	50,260	78,620	235,733	342,224	135,140	198,655
St. Louis area.	115,325	140,876	120,931	171,719	875,228	1,202,719	339,117	455,275
San Francisco-Oakland area.	76,963	88,414	91,274	122,916	825,618	1,052,353	292,289	356,821
Scranton-Wilkes-Barre area.	33,302	33,363	26,391	28,380	105,953	133,635	55,724	65,297
Seattle-Tacoma area.	30,631	39,103	34,263	51,292	218,823	307,401	85,963	115,586
Springfield-Holyoke area.	39,693	46,187	41,780	57,242	192,097	258,177	98,113	132,139
Toledo area.	37,606	41,716	44,541	59,023	261,069	334,092	126,720	142,985
Wheeling area.	47,537	50,574	53,965	72,523	257,616	332,672	101,845	126,386
Worcester area.	73,501	88,203	74,821	103,977	303,379	424,879	158,658	220,664
Youngstown area.	60,634	83,251	71,704	130,626	430,437	748,362	163,5705	288,420

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

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No. 833.-TEXTILE MANUFACTURES- PRODUCTION, BY KIND: 1935 AND 1937

NOTE.-In general, most of the articles are finished products, but large quantities of partly finished products, especially yarn, cloth for sale to other establishments of the same or other branches of the textile industry, are included. This involves considerable duplication in total value of products

PRODUCT	Unit	QUANTITY (THOU- SANDS OF UNIT SPECIFIED)		VALUE (THOUSANDS OF DOLLARS)	
		1935	1937	1935	1937
COTTON MANUFACTURES					
Total value.				1,035,430	1,286,249
Ducks (except tire).	Sq. yard	150,371	222,814	37,110	45,452
Sheetings	do.	1,390,455	1,825,884	107,875	150,606
Drills.	do.	178,698	281,809	18,629	27,482
Twills and sateens.	do.	265,338	343,574	31,587	41,728
Osnaburgs.	do.	141,372	153,093	15,220	16,206
Print cloth	do.	1,610,281	2,121,066	100,951	133,125
Broadcloths and poplins.	do.	369,074	472,791	36,657	45,241
Pajama checks and dimities.	do.	22,990	45,958	1,780	4,206
Tobacco and cheesecloth and gauze.	do.	641,660	902,776	12,763	17,856
Napped fabrics.	do.	298,706	455,411	31,253	49,183
Blankets, all cotton, including crib (finishec, not in the gray). ¹	do.	58,019	110,400	10,893	18,995
Blankets, part-wool, containing less than 25 percent, by weight, of wool or similar fibers.	do.	(2)	53,905	(2)	10,535
Denims, pin stripes, pin checks, and hickory stripes.	do.	206,367	245,965	33,527	38,481
Bed ticking.	do.	56,574	60,164	8,047	8,550
Shirtings	do.	273,389	345,744	29,721	42,165
Ginghams (carded and combed yarn fabrics)	do.	40,560	12,173	5,210	1,400
Cottonades and other coverts (except shirting coverts).	do.	45,967	59,733	8,057	11,972
Voiles (combed or part-combed).	do.	32,665	48,165	2,554	3,275
Organdies and lawns (combed or part-combed)	do.	212,131	303,232	15,284	22,909
Tire fabrics.	Pound.	118,304	167,688	39,939	46,930
Towels, towelings, washcloths, bath mats, and terry-woven fabrics other than towels, etc. ³	Sq. yard.	178,463	211,812	35,197	40,774
Bedsprad fabrics.	do.	49,041	57,219	8,109	9,155
Plushes, velvets, and velveteens.	do.	20,593	24,432	11,942	16,207
Corduroys.	do.	31,773	30,217	10,039	8,896
Cotton table damask.	do.	15,341	15,910	3,320	2,980
Drapery and upholstery, fabrics (including tapestries), except fabrics classified as pile fabrics or fine goods.	do.	104,560	115,033	26,276	30,049
Cotton narrow fabrics.				41,158	43,205
Yarns made for sale.	Pound.	390,037	533,634	133,569	176,341
Thread.	do.	34,854	38,886	35,137	41,359
Tire cords on cones.	do.	75,676	93,093	24,368	28,155
Cotton waste made for sale	do.	338,673	515,425	21,027	25,076
Other cotton products.				138,229	127,756
LACE GOODS					
Total value.				25,794	26,770
Nottingham lace curtains.	Pair	9,572	10,690	11,328	12,079
Nottingham lace curtain nets.	Lin. yard	4,886	5,190	1,148	1,377
Levers laces.				9,980	9,766
Other lace products.				3,337	3,548
KNIT GOODS					
Total value.				592,834	641,081
Full-fashioned hosiery	Doz. pair.	36,425	40,200	200,703	229,259
Seamless hosiery.	do.	80,071	85,358	115,724	122,718
Union suits.	Dozen.	6,278	7,224	35,853	43,501
Sweaters, sweater coats, and jerseys.	do.	4,386	4,712	55,342	59,247
Bathing suits of knit fabric (made from materials owned by establishments reporting).	do.	990	41,207	14,551	417,320
Headwear, except infants'.	do.	969	859	3,875	2,854
Neckties.	do.	255	69	519	157
Dresses and suits.	Number.	4,031	1,788	22,570	510,380
Knitted cloth made for sale.				53,578	57,589
Other knit products.				90,119	98,056
RAYON AND SILK MANUFACTURES					
Total value.				308,461	354,973
Rayon and silk broad goods	Sq. yard.	1,027,091	1,138,629	237,072	279,953
Rayon.	do.	730,711	947,314	141,226	200,176
Rayon mixtures.	do.	44,110	54,820	18,844	22,195
Silk.	do.	239,476	109,226	69,666	40,842
Silk mixtures.	do.	12,794	27,270	7,336	16,740

For footnotes, see p. 844.

No. 833. TEXTILE MANUFACTURES PRODUCTION, BY KIND: 1935 AND 1937—
Continued

PRODUCT	Unit	QUANTITY (THOU- SANDS OF UNIT SPECIFIED)		VALUE (THOUSANDS OF DOLLARS)	
		1935	1937	1935	1937
RAYON AND SILK MANUFACTURES Con.					
Rayon and silk narrow fabrics.				24,803	30,651
Ribbons.				9,918	13,237
Fringes and gimps.				4,937	2,492
Other.				9,947	14,921
Silk and rayon yarn and thread made for sale.				46,587	33,675
Other silk and rayon products.				L	10,695
WOOL AND HAIR MANUFACTURES					
Total value.				(7)	669,583
Men's-wear suitings and pantings.	Sq. yard.	224,390	215,634	191,844	215,594
Men's-wear overcoatings and topcoatings	do.	53,181	45,578	50,949	50,099
Women's-wear coatings.	do.	83,662	88,449	61,412	80,026
Women's-wear suitings and dress fabrics.	do.	62,479	55,678	46,235	41,996
Shirtings.	do.	13,242	13,075	8,810	10,810
Other apparel fabrics.	do.	(7)	51,322	C	28,325
Nonapparel fabrics.	do.	59,268	62,597	60,696	74,831
Blankets, bed and camp except crib:					
98 percent or more wool or similar animal fibers.	do.	19,560	18,096	13,295	14,329
25 to 98 percent wool or similar animal fibers-	do.	40,593	L	19,066	9,026
Less than 25 percent wool or similar animal fibers.	do.		(3)	10,242	(s)
Other blankets.	do.	745	1,084	600	91,169
Woven felts.	Pound.	105,212	5,095	12,180	14,715
Yarns 1	do.	97,947	75,355	101,595	98,766
Tops 1	do.	9,376	9,950	7,023	7,334
Noils 11	do.	15,421	10,143	6,750	5,743
Other products.				5,159	16,772
FELT GOODS, EXCEPT WOVEN FELTS					
Total value.				21,237	27,510
Trimming and lining felts.	Pound.	5,067	5,352	2,722	3,029
Carpet and rug linings and cushions	do.	38,928	52,728	5,766	9,173
Boot, shoe, and slipper felts and linings.	do.	7,841	6,836	3,309	3,456
Automotive felts.	do.	10,440	9,541	2,845	3,063
Other felts.	do.	33,496	37,998	6,596	8,785
HAT BODIES, CARDED WOOL FELT					
Total value				10,161	13,397
Hat bodies, carded, for sale as such.	Dozen.	1,803	2,428	6,797	9,668
Finished hats-	do.	322	372	3,364	3,728
CARTETS AND RUGS					
Total value-				119,103	174,367
Wool carpets	Sq. yard.	24,481	32,292	43,658	78,980
Wool rugs made of sewed strips.	do.	1,039	976	2,781	2,654
Wool rugs woven whole.	do.	(7)	32,078	61,138	68,265
Other carpets and rugs-				3,230	6,904
Other products.				8,297	17,564
RECOVERED WOOL FIBER					
Recovered wool fiber, total.	Pound.	57,201	61,962	13,555	14,760
HATS, FUR-FELT					
Total value.				54,409	65,047
New hats finished	Dozen.	1,645	1,715	37,942	44,214
Now hat bodies and hats in the rough, made for sale as such.	do.	1,932	2,200	16,467	20,833
ARTIFICIAL LEATHER AND OILCLOTH					
Total value-				33,380	39,177
Artificial leather.	Sq. yard.	(12)	91,125	22,431	27,876
Pyroxylin-conted.	do.	63,813	79,841	18,351	23,873
Other.	do	(12)	11,284	4,080	4,003
Oilcloth	do-	80,355	73,355	10,948	11,301
ASPHALTED-TELIPBAS: FLOOR COVERING AND LINOLEUM					
Total value.				49,549	65,055
Asphalted-elt-Dase floor covering.	Sq. yard.	128,043	156,081	31,260	35,481
Linoleum.	do.	24,453	35,745	18,289	29,574

For footnotes, see p. 844,

No. 833.— TEXTILE MANUFACTURES PRODUCTION, BY KIND: 1935 AND 1937—
Continued

PRODUCT	Unit	QUANTITY (THOU- SANDS OF UNIT SPECIFIED)		VALUE (THOUSANDS OF DOLLARS)	
		1935	1937	1935	1937
CORDAGE AND TWINE AND JUTE AND LINEN GOODS					
Total value.				72,491	102,020
Rope, cable, and cordage:					
Manila hemp-	Pound.	75,390	88,122	9,050	14,209
Sisal and/or nenequen	do.	6,859	7,924	547	816
Cotton.	do.	22,750	27,220	5,908	7,071
Other.				1,232	2,179
Twine, binder	Pound.	108,811	114,943	6,630	8,582
Twine, cotton.	do-	50,733	69,214	13,948	17,950
Twine, other.				12,496	15,992
Yarns and roves produced for sale.	Pound.	86,182	115,946	11,023	14,787
Linen thread.	do.	2,653	2,960	3,142	3,570
Linen and part-linen woven goods.	Sq. yard.	8,917	7,749	2,394	2,481
Jute bagging.	do-	39,979	61,682	2,838	5,331
Other products.				3,284	8,552

1 For production of Wool-and-cotton mixed blankets containing 25 to 98 percent wool, see "Wool and manufactures," p. 843.

See "Wool and hair manufactures," p. 843.

For 1935—finished fabrics (not in the gray). 1937—partly in the gray; partly finished fabrics.

➤ In addition, 82,000 dozen bathing suits valued at \$1,772,000 were reported as made from woven fabric and 114,000 dozen valued at \$795,000 made from purchased knitted fabric. Figures for bathing suits made on contract from materials owned by others and made in contract shops from materials owned by establishments reporting included with "Other knit products" to avoid disclosing data reported by individual establishments.

5 Figures for dresses and suits made contract shops from materials owned by establishments reporting included with "Other knit products" in avoid disclosing data reported individual establishments.

For 1935—sales (goods invoiced to customers). For 1937—quantity by production, including products made for others on commission and those made for own use; value is value of cloths woven from materials owned and cloths woven on commission. No comparable data.

See "Cotton manufactures," p. 842. 2 Includes \$63,000 for which no square yards were reported.

Production including products made for others on commission and those made for use.

For 1935—sales (goods invoiced to customers); for 1937—made for sale.

➤ Not including binder twine made in 8 penal institutions, as follows: 1935, 57,355,000 pounds; 1937, 42,809,000 pounds.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

No. 834. - BOOTS AND SHOES (OTHER THAN RUBBER) - PRODUCTION, BY CLASS:
1914 TO 1939

NOTE. In thousands of pairs. Detailed value data were not collected at the censuses. For total value products of the industry see table 830, p. 823. Data for 1925 to 1939 compiled from monthly reports of manufacturers representing approximately 95 percent of the total production in the United States for 1925 to 1929, 98 percent from 1930 to 1933, 99 percent for 1934 to 1936, and 98 percent for 1937 to 1939

YEAR	Boys' and youths'				Misses' and children's	Ath- letic	All fab- rics	Part leather and fabric	Slip- per	All other
	Total	Men's	and youths	Women's						
1914.	292,666	98,031	22,896	80,916	48,322	15,477	(5)	(5)		27,024
1919.	331,225	95,017	26,504	104,813	48,538	16,669	586	11,056	8	28,042
1925.	323,553	86,546	21,021	104,782	38,691	24,587	5,914	8,564	23,899	9,549
1930.	304,170	77,147	18,530	112,629	32,037	18,558	1,728	2,533	34,994	5,954
1932.	313,290	74,493	18,100	113,944	33,600	15,653	1,111	6,132	1,874	38,212
1933.	350,382	88,821	19,944	130,742	33,180	18,578	1,316	4,637	1,485	40,648
1934.	357,119	91,387	17,348	133,045	34,521	19,451	1,333	3,930	1,374	43,713
1935.	383,761	93,525	17,847	145,231	37,276	21,167	1,961	3,671	2,891	42,055
1936.	415,227	103,784	16,570	161,858	36,845	21,612	2,486	2,892	3,569	51,311
1937.	411,969	102,895	17,481	149,675	39,911	22,786	2,576	7,705	14,541	48,294
1938.	390,746	96,660	17,137	147,755	40,188	21,315	2,695	8,072	8,537	42,487
1939.	424,136	103,753	16,858	167,697	43,990	24,085	3,857	4,937	7,209	45,695

1 Figures beginning with 1927 are not strictly comparable with earlier years owing to the fact that large quantities of heavy footwear now included with men's shoes were included with "Athletic" prior to 1927.

Figures exclude footwear with fabric uppers and rubber soles; data for this class, for certain census years, shown in table 840, p. 850.

Figures include satin, canvas, etc.

Includes Slippers and moccasins (all leather and leather, felt, etc.) for house wear.

Not reported separately: Included with "All and part"

➤ Not reported separately; included with the various classes of boots and shoes.

Source: Department of Commerce, Bureau of the Census; figures are published currently in monthly releases.

No. 835. LEATHER PRODUCTION, BY PRINCIPAL TYPES OF RAW STOCK: 1928 TO 1939

[Cattle hide in thousands of hides, other figures in thousands of skins]

YEAR	Cattle hide	Calf and kip	Goat and kid	Sheep and lamb	YEAR	Cattle hide	Calf and kip	Goat and kid	Sheep and lamb
1928.	20,237	15,617	54,852	38,706	1934.	19,771	12,442	44,982	34,256
1929.	19,146	15,364	55,686	38,985	1935.	21,932	14,140	48,250	38,465
1930.	17,675	14,171	55,445	30,393	1936.	22,628	13,127	47,363	37,942
1931.	16,234	12,438	48,637	32,443	1937.	22,380	12,027	46,554	34,232
1932.	14,583	11,580	37,014	28,841	1938.	19,047	12,991	31,905	28,941
1933.	17,115	13,049	44,312	33,881	1939.	22,089	14,027	40,419	39,384

Source: Tanners' Council of America.

No. 836. -- LEATHER PRODUCTION, BY KIND: 1931, 1935, AND 1937

PRODUCT AND UNIT OF QUANTITY	QUANTITY 1			VALUE (THOUSANDS OF DOLLARS) 1		
	1931	1935	1937	1931	1935	1937
Total value.				253,682	293,872	372,458
Solo and belting leather.				73,183	85,997	110,212
Oak and union sole. 1,000 backs, bends, and sides.	11,746	16,005	18,348	55,030	61,960	80,078
Chrome and combination sole. do.	447	1,187	1,052	2,175	4,246	3,996
Horse-sole. 1,000 butts--	(2)	(2)	400	(2)	(2)	825
Belting butts--curried 2, 1,000 butts and butt bends--	266	466	628	2,735	4,448	5,365
Offal (heads, bellies, shoulders, etc.) 4- 1,00C pounds.	86,161	91,542	94,438	13,193	15,343	18,948
Harness leather.				2,166	4,366	4,490
Union-black. 1,000 sides.	96	300	303	513	1,527	1,816
Oak black and russet. do.	279	513	431	1,653	2,839	2,675
Bag, case, and strap leather-- finished grains do.	(5)	851	887	0	4,727	5,316
Collar leather-- do.	180	366	376	627	1,104	1,510
welting leather. 1,000 pounds--	2,077	7,486	7,240	712	2,161	2,298
Upholstery leather (automobile, furniture, and carriage)-- finished					4,518	7,139
Whole-hide grains and machine-buffed. 1,000 hides.		262	425	8	3,282	5,227
Splits (main and second) 1,000 pieces.	8	187	312	(5)	1,236	1,911
Upper leather				(5)	127,315	153,095
Cattle, including kip sides. 1,000 sides.	12,514	20,969	20,010	32,536	51,929	64,508
Calf and whole kip, except kip sides. 1,000 skins.	10,544	12,800	12,324	27,135	28,815	35,706
Goat and kid. do.	34,978	41,009	37,580	37,285	38,106	39,133
Kangaroo and wallaby. do.	1,156	1,295	1,189	1,048	1,746	1,634
Horse, colt, ass, and mule (butts and shanks).				643	837	1,344
Wax and finished splits 1,000 pieces.	(2)	(2)	10,298		(2)	8,537
Other.				8	7,882	2,234
Glove and garment leather.				16,729	18,129	23,468
Horse, colt, ass, and mule-- half and whole fronts 6						
1,000 equivalent half fronts.	1,599	1,596	1,615	3,514	3,197	3,862
Sheep and lamb except shearlings. 1,000 skins.	9,039	13,448	12,592	6,835	8,948	10,072
Shearlings. do.	(5)	0	2,729	(5)	(5)	4,878
Other.				6,379	5,984	74,655
Fancy and bookbinders' leather.				10,495	6,263	6,626
Lining leather.						15,431
Sheep and lamb shoe stock. 1,000 skins.	(2)	(5)	11,152		3	9,210
Goat and kid. do.	(2)	(5)	4,968			4,755
Other				8	8	1,466
Patent upper leather, cattle including kip sides, japanned. 1,000 sides.	(2)	(5)	3,020	(2)	(5)	9,326
Splits, other than wax and finished upper and upholstery. 1,000 splits.	(2)	(2)	15,765	(2)	(2)	10,230
Skivers. 1,000 doz-	192	184	226	1,685	1,908	2,304
Other leather.				845,965	31,989	10,650
Rough leather:						
Belting butts--for sale as such	369	494	653	2,920	3,682	5,829
1,000 butts and butt bends.				5555	81,712	4,535
Other rough leather						

Comparable figures for 1933 are not available. See third paragraph of general note, p. 802.

No data.

: Not including butts and butt bends curried by establishments classified in other industries that buy rough tanned leather for further manufacture into finished articles.

Data not strictly comparable because 1935 figures are partially incomplete.

No comparable data or data incomplete. 6 Combined glove, garment, and upper leather.

Includes some fancy leather.

Includes values for items to which footnote 5 is indexed and therefore are not comparable with those for 1937.

9 Some items included in "Other leather" and therefore are not comparable with those for 1937.

Source: Department of Commerce; Bureau of the Census; report of Biennial Census of Manufactures.

No. 837. CHEMICALS PRODUCTION, BY KIND: 1933, 1935, AND 1937

NOTE.—Data shown in this table represent products made for sale and for interplant transfer. In addition, large quantities of certain chemicals, especially acids, are made and consumed in further processes in the same establishments. There is considerable duplication in the total value of products due to the use of products sold by one establishment as material for other establishments manufacturing chemicals. Tons are of 2,000 pounds, except as noted.

PRODUCT	Unit	QUANTITY (THOUSANDS OF UNIT SPECIFIED)			VALUE (THOUSANDS OF DOLLARS)		
		1933	1935	1937	1933	1935	1937
Total value.					489,977	642,803	916,529
Acetates 1—							
Amyl.	Gallon.	608	1,026	1,522	11,407	13,217	20,587
Butyl.	do.	3,763	5,631	9,316	442	789	1,189
Calcium 2	Ton.	26	26	23	2,578	3,687	5,085
Ethyl.	Gallon	5,082	5,563	6,946	1,166	826	727
Acetone.	Pound.	(3)	68,922	84,369	2,660	2,679	2,919
Acids 1					(3)	2,642	2,845
Acetic (basis 100 percent)	Pound.	65,150	101,501	131,645	50,657	65,390	85,953
Boric (boracic).	do.	21,613	28,738	40,524	4,303	5,455	6,607
Chromic.	do.	4,969	6,723	8,997	845	1,246	1,545
Citric 5	do.	5,696	10,493	18,138	537	888	1,260
Hydrochloric (basis 100 percent).	Ton.	45	55	71	1,795	2,768	4,119
Mixed (sulphuric-nitric)	do.	42	46	54	2,387	3,048	3,988
Nitric (basis 100 percent)	do.	30	25	35	1,883	2,105	2,485
Oleic.	Pound.	(3)	43,763	38,087	2,428	2,143	3,053
Oxalic.	do.	9,223	8,884	10,198	(3)	3,273	3,605
Phosphoric 6	do.	24,653	45,386	78,251	903	945	1,087
Stearic.	do.	(3)	27,438	31,889	892	1,334	1,786
Sulphuric 7 (basis 50° Baumé).	Ton.	3,848	4,488	5,719	(3)	2,777	3,656
Tannic 5	Pound.	682	725	1,016	26,482	31,908	42,198
Tartaric.	do.	6,799	6,887	10,643	236	305	382
Alcohols:					1,493	1,609	2,485
Methyl, synthetic.	Gallon.	8,793	13,359	831,606			
Butyl.	Pound.	(3)	35,878	79,934	1,680	3,611	88,619
Ethyl and other alcohols—	(3)	(3)	(3)	(3)	24,122	5 2,602	5,867
Ammonia, anhydrous 10	Pound.	150,185	138,779	223,041	35,820		
Ammonia, aqua and liquor (N. H. 3 content) 1	do.	11,390	23,916	25,515	923	1,235	1,310
Bicarbonates and carbonates 1.							
Sodium bicarbonate, refined (basis 100 percent).	Ton.	129	137	142	30,363	36,514	43,089
Soda ash.	do.	1,654	1,872	2,324	3,586	3,658	3,606
Bromides.							
Calcium carbide.	Ton.	101	147	193	2,764	4,964	7,057
Calcium oxychloride (bleaching powder) 12	do.	28	40	46	6,059	6,234	9,842
Carbon, activated.	do.	(a)	11	11	921	909	937
Carbon bisulphide.	Pound.	90,179	117,758	155,238	(2)	926	1,444
Carbon tetrachloride.	do.	30,344	51,970	78,709	3,283	3,385	4,754
Chlorides 1 13					1,354	2,150	3,068
Calcium (basis 73 to 80 percent) 14	Ton.	158	227	264	15,647	16,257	18,741
Sulphur	Pound.	45,998	59,117	66,598	2,716	3,629	4,181
Ammonium (sal ammoniac).	do.	(3)	34,865	39,599	665	889	994
Chromates and bichromates 1					(3)	1,584	1,821
Sodium.	Ton.	29	42	49	3,579	5,230	6,465
Citrates.					3,281	4,763	5,926
Coal-tar products 15					1,464	1,357	948
Crudes 16					107,273	120,582	157,744
Intermediates					16,985	19,173	29,471
Finished products 18					21,443	29,360	37,140
Cyanides.					68,845	72,048	91,133
Ester gum.	Pound.	(17)	21,373	25,590	3,205	4,430	4,884
Ether (ethyl).	do.	7,421	7,915	13,097	(17)	1,482	2,213
Ferro-alloys, electric-furnace.	Ton 18	121	217	352	1,385	1,305	1,652
Fluorides.					11,868	23,490	45,295
Glycerine, crude 10	Pound.	22,161	24,043	24,181	(3)	1,969	5,134
Glycerine, dynamite grade	do.	107,853	118,727	143,586	1,191	2,366	3,593
Glycerine, chemically pure 2	do.			78,813	7,915	12,973	7,823
Hydroxides 1					26,007	30,295	34,792
Potassium (caustic).	Ton.	9	10	11	868	1,260	1,438
Sodium (caustic)	do.	645	720	897	24,478	28,134	32,028
Iodides 1.					1,309	745	794
Potassium.	Pound.	479	433	613	1,108	572	599
Modified sodas.	Ton.	22	29	26	776	1,140	1,051
Nitrates (except sodium) 150.					2,359	3,322	4,335
Silver (lunar caustic).	Ounce.	4,146	5,195	7,249	1,072	1,908	2,285
Ammonium.	Pound.	18,694	25,298	45,560	574	674	1,131
Oxides 1.					4,503	8,770	14,719
Tin.	Pound.	2,743	3,245	3,324	1,118	1,686	1,707

No. 837.— CHEMICALS—PRODUCTION, BY KIND: 1933, 1935, AND 1937—Con.

PRODUCT	QUANTITY (THOUSANDS OF UNIT SPECIFIED)				VALUE (THOUSANDS OF DOLLARS)		
	Unit	1933	1935	1937	1933	1935	1937
Peroxides 1.					2,966	3,859	4,790
Hydrogen (basis 100 volumes)	Pound.	12,119	17,409	22,925	2,388	3,155	3,781
Phosphates 1					11,486	14,190	16,207
Calcium:	Ton.	42	41	44	5,332	5,116	5,444
Sodium:							
Tribasic.	do.	80	87	117	3,684	3,862	4,235
Dibasic.	do.	38	35	22	1,396	1,338	814
Monobasic and pyro.	do.	3	5	13	540	833	1,735
Plastics 21					24,905	44,036	61,996
Nitrocellulose (pyroxylin).	Pound.	10,096	13,341	14,851	7,799	10,682	12,526
Finished articles of nitrocellulose (pyroxylin) 22					5,020	5,116	5,390
Cellulose acetate.	Pound.	2,875	10,395	18,924	2,246	7,986	12,200
Coal-tar resins.	do	41,557	87,719	231,568	7,509	15,672	232,584
Other plastics and synthetic resins, including synthetic rubber.					2,331	4,578	8,296
Sodium borate (borax).	Ton.	94	106	126	3,163	3,693	3,416
Sodium hypochlorite 24	do.	32	51	75	2,073	4,305	6,275
Sodium silicate (liquid and solid) 25.	do.	630	608	641	6,583	7,674	8,355
Stearates.					352	1,109	1,773
Sulphates 1					16,826	21,497	26,769
Aluminum concentrated alum)	Ton.	322	348	393	6,600	7,748	8,959
Copper (blue vitriol).	Pound.	56,070	54,759	78,892	1,408	2,002	3,883
Magnesium (Epsom salt).	Ton.	37	38	41	1,234	1,117	1,217
Sodium:							
Glauber's salt.	do.	40	26-40	26-32	586	26542	26-491
Hyposulphite (thiosulphate)	do.	18	24	33	763	1,054	1,412
Niter cake.	do.	17	19	23	353	344	522
Salt cake (crude).	-do.	115	27170	27241	1,471	271,864	272,368
Zinc.	Pound.	29,797	37,466	37,530	512	721	1,143
Ammonium.	Ton.	0	96	102	(3)	2,073	2,418
Sulphides					1,870	2,112	2,344
Sodium chloride	Ton.	31	25	27	1,354	1,390	1,530
Sulphites.					3,003	3,752	3,924
Sulphur, refined.	Ton.	49	60	76	1,736	2,054	2,333
Tartrates.					1,089	868	1,302
Vitreous enamels ("frit").	Pound.	39,853	73,397	110,879	2,587	4,400	6,826
Other chemicals.					83,394	109,590	206,518

Value includes data for items not shown separately.

Production in 1935 and 1937, basis 80 percent; for 1933, as reported, regardless of strength.

Data incomplete, no comparable data, data not available, or data withheld.

Synthetic, natural, dilute, and glacial.

Production 1935 and 1937, basis 100 percent; for 1933, reported, regardless of strength.

Production in 1933, basis 10 percent, in part P205 and in part HaPO4 in 1935 and 1937, basis 50 percent

ERPO4.

7 Data for production by establishments classified in lead smelting and refining and copper smelting industries included in figures for 1933 and 1937, but not in those for 1935.

8 In addition, 3,968,000 gallons of refined natural methanol, valued at \$1,133,000, was produced for sale in the "Wood distillation and charcoal manufacture" industry.

2 The production of ethyl alcohol in proof gallons, as reported to the Bureau of Internal Revenue, Treasury Dept., was as follows: 1933, 138,600,000; 1935, 193,219,000; 1937, 215,438,000.

10 Includes production from ammonia liquor, as follows: 1935, 2,991,000 pounds, value \$389,000; 1937, 2,662,000 pounds, value \$246,000; 1933, not reported separately.

1 Figures for 1935 and 1937, but not for 1933, include data for ammonia produced in the manufacture of for production and coke industry, see Bureau of Mines report, Minerals Yearbook.

Basis 35 to 37 percent available chlorine.

3 For 1933, includes methyl chloride; thereafter, included in "Compressed and liquefied gases" industry. In addition, production by establishments engaged primarily in manufacture of salt was as follows: 8,000 tons, value \$50,000; 1937, 7,000 tons, value \$67,000. Data included for 1933.

1035 Figures for 1935 and 1937 do not include color lakes, included with "Paints, pigments, and varnishes" (table 838), nor certain other coal-tar chemicals, shown elsewhere in this table. Data for these classes of products are included with the figures for 1933.

Not including byproduct crudes made in plants and gas works.

Data incomplete: value included in that of other chemicals, 18 tons, or of 2,240 pounds.

z Total production of crude glycerine, as reported to the Div. of Cotton and Cils, Bur. of the Census, for 1937, was 169,039,000 pounds. Most of this was further refined and sold or used as glycerine, dynamite grade, or glycerine, chemically pure. Prior to 1937, both dynamite grade and chemically pure glycerine reported as glycerine, refined.

w Data for sodium nitrate withheld to avoid disclosing an approximation of the output of an individual establishment. Value included in that of "Other chemicals."

21 Data for production of photographic-film base and wrapping materials are not included. Value of included in that of "Other chemicals."

the made in producing establishments in "Chemicals not elsewhere classified" industry; Nitrocellulose articles are also made from purchased nitrocellulose plastics by establishments in other industries.

Includes an indeterminate amount of materials used as fillers, such as wood flour, etc.

z Production in 1935 and 1937, basis 16 percent available chlorine; for 1933, as reported, regardless of strength.

25 Liquid, basis 40°. 26 Includes that refined from natural product. 27 Includes product made from birches.

28 Production in 1935 and 1937, basis 60 to 62 percent; for 1933, as reported, regardless of strength.

Source: Dept. of Commerce, Bur. of the Census; reports of Biennial Censuses of Manufactures.

No. 838.— MISCELLANEOUS PRODUCTS MADE BY CHEMICAL PROCESSES

NOTE.— Semifinished products made for consumption in the same establishment are not included, but there is some duplication in total value of products in certain branches, due to the use of such products as materials by other establishments in the same industry. Tons are of 2,060 pounds

PRODUCT	Unit	QUANTITY (THOUSANDS OF UNIT SPECIFIED)			VALUE (THOUSANDS OF DOLLARS)		
		1933	1935	1937	1933	1935	1937
BONE BLACK,CARBON BLACK,ETC.							
Total value.					8,641	15,454	19,579
Bone black.	Pound.	23,123	32,922	35,571	829	1,313	1,717
Carbon black (Bureau of Mines).	do.	273,125	352,749	510,606	7,602	13,755	17,389
Lampblack.	-do.	3,012	3,902	5,309	210	386	473
COMPRESSED AND LIQUEFIED GASES							
Total value.					148,185	67,831	85,580
Acetylene.	Cu.ft.	754,089	1,143,199	1,511,445	11,039	14,748	19,166
Carbon dioxide (not solid).	Pound.	2117,382	287,657	2100,716	4,466	4,541	4,940
Chlorine, for sale.	Ton.	125	207	286	4,486	7,951	10,417
Elydrogen.	Cu.ft.	589,290	743,860	1,103,177	915	1,557	1,849
Oxygen.	do.	182,892	248,244	311,177	12,997	18,126	26,073
Nitrous oxide (laughing gas).	Gallon.	82,220	95,861	97,768	811	946	1,114
Dry ice (solid carbon dioxide).	Pound..	59,058	165,124	313,217	1,970	3,246	4,619
Other gases.					11,502	16,707	17,403
FERTILIZERS							
Total Value.					82,811	121,058	178,264
Complete fertilizers.	Ton.	3,274	4,202	5,681	61,180	93,092	128,750
Superphosphates, not ammoniated (including concentrated phosphates), for sale.	- do.	1,546	1,755	3,113	12,882	16,489	27,846
Other fertilizers.	do.	376	525	890	8,749	11,477	21,667
PAINTS, PIGMENTS, AND VARNISHEE							
Total value.		19314			19314		
Pigments, colors, for sale.	Pound.	1,296,006	1,507,754	1,870,276	69,428	87,012	117,200
Paints in paste form.	do.	242,528	255,715	269,827	26,191	23,268	28,541
Ready-mixed and semipaste paints.	Gallon.	81,287	90,645	110,248	125,112	129,168	163,580
Water paints and kalsomine, dry or in paste.	Pound.	122,823	125,165	150,876	5,265	5,298	7,622
Plastic paints.	do-	14,561	13,220	15,564	1,393	781	
Varnishes, apans, lacquers, enamels, and allied products.					5127,852	571,186	522,003
Quantity reported.	Gallon.	89,936	128,372	169,626	124,340	166,178	220,328
Fillers (liquid, paste, and dry).					1,211	1,159	2,111
Putty.	Pound.	69,907	71,841	90,544	2,992	2,872	3,683
Blached shellac.	do.	10,731	12,525	14,639	2,619	2,425	2,664
SOAP							
Total value.					238,062	223,809	271,803
Bar soap:							
Toilet soap—	Pound.	305,638	352,976	360,611	53,064	53,325	62,805
Laundry soap.	do.	1,481,104	1,134,066	1,222,421	58,385	51,340	
santilated, powdered, and sprayed soap.	do.	421,804	503,118	743,194	10,977	45,284	68,389
Soap chips and flakes.	do.	351,07	453,935	390,455	30,353	36,329	
Washing powders.	do.	262,711	219,048	232,411	12,059	7,746	38,003
Cleasers and scouring powders containing soap.	do.	164,067	233,587	178,346	6,383	7,688	7,172
Shaving soap	do.			14,631	511,553	59,218	9,730
quantity reported.	do.	(7)	12,868	14,631	(7)		
Liquid soap, not including packaged shampoos.	do.	33,627		29,870	2,421	57,876	2,439
quantity reported.	do.	33,627	22,593	29,870	2,421		2,435
Soap stock or soap base, for sale.	do.	8,978	3,655	4,522	547	1,220	347
Textile soap, including potash and foots soaps for textile manufacture.	do.	(7)	70,052	50,708		5,350	5,358
Potash soap, other than textile and liquid.	do.	(7)	20,804	25,072	12,320	1,484	2,157
Other and not reported by kind.						3,802	4,894

Does not include value of methyl chloride.

Includes approximately 64,500,000 pounds piped to plants making dry ice in 1933, and 17,000,000 pounds in 1937.

3Basis 16 percent available phosphoric acid. 25,285,000 pounds in Comparable data for 1933 are not available; see third paragraph of general note, p. 802.

Includes value of production for which no quantity was reported.

Includes shaving cream with soap base. Shaving cream containing no soap is classified as a product of "Perfumes, cosmetics, and toilet preparations" industry, p. 849. The total cream, with and without soap, in 1935 and 1937, was valued at \$7,957,000 and 9,629,000, respectively. No comparable data.

No. 838. MISCELLANEOUS PRODUCTS MADE BY CHEMICAL PROCESSES- Con.

VALUE (THOUSANDS OF DOLLARS)

PRODUCT	1931	1935	1937
DRUGS AND MEDICINES			
Total value.	305,545	280,491	335,667
Medicinal products sold direct or prescribed by physicians.	0	132,931	133,935
Alkaloids and derivatives, made for sale.	7,677	5,861	6,915
Biological products.	14,821	13,412	17,679
For human use:			
Antitoxins.	2,430	2,644	3,008
Bacterins.	1,026	1,002	1,089
Serums.	1,103	1,136	1,729
Vaccines.	1,146	1,552	1,915
Viruses.	193	604	493
Undistributed.	1,189	921	2,022
For animal use:			
Antitoxins.	255	201	120
Bacterins.	543	627	846
Serums.	5,436	3,348	4,723
Vaccines.	516	438	676
Viruses.	886	700	708
Undistributed	97	239	350
Other products.		113,657	109,341
U. S. P. and N. F. 8		39,508	35,811
Special formulas.		64,944	66,357
Undistributed.		9,206	7,173
Medicines in specially prepared packages made for sale to the general public.	283,047	136,458	191,214
U. S. and N. F. 8		931,413	28,942
Notes S. P. and N. F. 8		9105,046	9162,272
Medicinal products not classified above, and undistributed.		5,935	1,887
Poultry and animal remedies (except biological products).		5,167	8,630
INSECTICIDES AND FUNGICIDES, AND INDUSTRIAL AND HOUSEHOLD CHEMICAL COMPOUNDS			
Total value.	59,687	69,242	98,096
Deodorants, other than for human use.	1,501	779	1,037
Disinfectants and insecticides.	34,875	37,946	43,847
Reported by kind:			
Agricultural insecticides and fungicides.	13,749	16,544	19,713
Calcium arsenate.	1,280	2,322	1,879
Lead arsenate.	3,674	4,173	5,541
Lime-sulphur, dry.	564	275	341
Lime-sulphur, solution.	1,266	991	1,013
Paris green.		489	336
Other including nicotine-sulphate and sulphur dust.	6,965	8,293	10,603
Household insecticides and repellants.	14,773	13,303	17,820
Fly sprays.	9,258	5,723	7,339
Insect powder (Pyrethrum)	1,851	1,409	2,022
Fluoride powders and mixtures.	416	425	423
Moth repellants.	1,551	1,095	3,040
Not reported by kind.	1,698	4,651	4,995
Disinfectants.	5,412	5,246	6,314
Not reported by kind.	942	2,853	
Boiler compounds.	3,387	5,883	4,319
Other industrial and household chemical compounds	19,925	24,634	48,894
PERFUMES, COSMETICS, AND OTHER TOILET PREPARATIONS			
Total value 10.	166,257	129,438	143,024
Perfumes and toilet waters.	15,004	11,463	12,595
Creams, other than shaving cream.	25,125	14,430	17,597
Lip sticks and lip rouges.	5,100	4,714	4,418
Other rouges.	5,630	2,574	2,520
Dentifrices.	35,699	29,722	35,559
Deodorants for human use.	2,802	3,029	3,503
Shampoos.	4,087	4,157	5,539
Face powders.	18,872	11,205	11,287
Talcum powders.	8,418	5,095	6,041
Other toilet powders.	2,543	3,529	3,112
Hair dyes, tonics, and dressings.	15,889	11,046	13,238
Facelotions.	5,817	5,566	7,831
Other toilet preparations.	21,272	22,907	19,784

Comparable data for 1933 are not available; see third paragraph of general note, p. 802.

No comparable data,

United States Pharmacopoeia and National Formulary.

Because of reclassification, figures for 1935 are not strictly comparable with those for 1937.

Because of a reclassification of certain products, figures for 1931 are not strictly comparable with those for subsequent years.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

No. 839.— TANNING MATERIALS, NATURAL DYESTUFFS, MORDANTS AND ASSISTANTS, AND SIZES— PRODUCTION, BY KIND: 1933, 1935, AND 1937

	QUANTITY (THOUSANDS OF POUNDS)			VALUE (THOUSANDS OF DOLLARS)		
	1933	1935	1937	1933	1935	1937
Total value.				21,058	30,453	41,099
Tanning extracts (solid and liquid):						
Chestnut.	236,065	302,842	363,706	3,517	4,588	4,968
Sumac (solid and liquid).	26,452	23,552	3,358	301	204	169
Other.				1,416	2,153	2,662
Other tanning materials.				1,783	2,974	3,065
Natural dyestuffs:						
Logwood (solid and liquid).	10,827	8,706	8,215	870	744	832
Other extracts, and ground, chipped, and dry product.				263	197	576
Mordants.				459	538	575
Assistants, total value.				6,216	11,440	17,841
Softeners, soluble oils, and greases:						
Total value.					4,603	5,222
Quantity reported.	(2)	43,993	63,450		3,896	5,222
Quantity not reported.				8	707	
Sulphonated oils and fats:						
Quantity reported.	(3)	42,836	57,427		3,932	4,769
Quantity not reported.				8	1,424	1,778
Other.				(3)	1,481	6,071
Sizes, total value.				6,233	7,614	10,410
Dextrin.	24,174	29,493	26,944	1,448	1,591	1,599
Other, total value.				4,785	6,023	8,811
Quantity reported.	162,776	175,316	205,524	4,600	5,479	8,811
Quantity not reported.				185	544	

Pounds for 1935 and 1937, basis 25 percent tannin; for 1933, not reported according to strength.

: No solid sumac extract reported. 3 No comparable data. 4 Includes synthetic textile assistants.

No. 840. RUBBER PRODUCTS PRODUCTION, BY KIND: 1933, 1935, AND 1937

Unit	QUANTITY (THOUSANDS OF UNIT SPECIFIED)			VALUE (THOUSANDS OF DOLLARS)		
	1933	1935	1937	1933	1935	1937
Total value.				468,615	671,722	878,626
Tires and inner tubes:						
Pneumatic tires and casings:						
Motor-vehicle.	Number	45,376	48,765	54,113	221,051	322,193
Motorcycle and bicycle.	do.		4,006	5,056		3,852
Inner tubes:						
Passenger car, truck, and bus.	do.	46,812	47,761	52,373	31,715	44,386
All other, including motorcycle and bicycle.	do.		1,550	3,590		728
Solid and cushion tires:						
Truck and bus for highway transportation.	do.		37	23	[1,534	876
Industrial truck, tractor, and trailer.	do.		117	232	13,746	854
All other, including carriage and other tiring.	Pound		6,994	13,567		718
Boots, rubber.	Pair.	2,622	3,029	3,884	4,659	5,534
Shoes and overshoes, rubber.	do.	32,984	37,810	41,599	23,042	30,384
Shoes, canvas, with rubber soles.	do.	29,689	23,955	31,519	13,813	12,343
Eleels, for sale as such.	do.	272,504	278,369	295,081	11,119	11,594
Soles, incl. composition or fiber.	do.	91,995	69,656	72,476	8,316	7,259
Rubberized fabrics sold as such on hand:						
Automobile and carriage.	Sq. yard.	8,620	5,227	6,006	3,362	1,874
All other.	do.	62,631	66,119	63,608	14,836	18,186
Belting—Hose and tubing.	Pound	30,628	48,363	58,706	12,928	20,498
Packing.				18,074	26,626	40,410
Druggists' and stationers' sundries.	Pound	9,328	11,409	14,047	1,872	2,737
Hard-rubber goods.				8,242	12,387	3,551
All other manufactures of rubber.				9,928	14,032	15,963
Reclaimed rubber produced 2—	Pound.	()	266,785	399,629	81,912	122,232
				()	11,774	19,738

1 Includes data for a small quantity of casings and tubes other than for motor vehicles, motorcycles, and bicycles.

Including reclaimed rubber transferred to other plants of same company.

3 No comparable data. 4 Included with 2 other manufactures of rubber."

Source of tables 839 and 840: Department of Commerce, Bureau of the Census, reports of Biennial Census of Manufactures.

No. 841.— PRINTING AND PUBLISHING RECEIPTS AND CIRCULATION

PUBLICATIONS	1929	1931	1933	1935	1937
	Value thousands of dollars)				
Total.	2,711,607	2,184,813	1,505,484	1,865,524	2,182,922
Newspapers and periodicals, printed and published or published only-	1,580,565	1,293,777	937,114	1,089,811	1,269,524
Newspapers.	1,073,119	886,523	667,820	760,247	861,689
Periodicals, other than newspapers.	507,445	407,254	269,294	329,564	407,835
Subscriptions and sales..	460,326	425,267	367,440	403,691	459,469
Advertising.	1,120,238	868,510	569,674	686,120	810,054
Books and pamphlets, printed and published or published only1	215,552	158,542	95,905	136,481	168,257
Newspapers, periodicals, books, and pamphlets, printed for publication by others2	129,518	156,737	101,372	130,580	144,820
General job printing, composition sold to the trade, ready prints, and paper patterns.	785,971	3575,657	3371,093	3507,084	3597,875
Manufacturing done in printing establishments.	(4)	0	(4)	1,569	2,446
Aggregate circulation perisitze (average for the year)					
Newspapers and periodicals:					
Daily-	42,947,824	42,124,651	38,424,281	41,552,243	44,135,658
Sunday-	29,011,648	27,453,465	25,453,894	29,196,006	32,713,298
Triweekly.	311,777	215,694	165,703	142,928	264,343
Semiweekly.	2,982,184	2,637,126	2,836,089	3,852,640	3,481,822
Weekly.	53,378,350	46,954,782	51,413,509	57,932,576	73,177,172
Monthly.	133,048,488	122,670,528	103,192,794	102,193,740	126,864,213
Quarterly.	20,605,002	19,575,617	23,237,557	23,277,089	25,808,324
All other classes.	11,514,355	8,353,006	5,334,286	7,668,599	14,450,796

1 Includes books of music printed and published published only. 1929 and 1931, includes value of sheet music published by establishments that did printing and value for music printed for others.

2 The inclusion of this item results in duplication of the total value of products since it represents amounts paid by publishers for work done for them, and consequently enters into the production cost and the "Value of products" receipts for subscriptions and sales and advertising, reported by the publishers.

of En addition, lithographed or engraved paper patterns, music, maps and atlases, labels, tags, and greeting cards valued at \$24,691,000 in 1931, \$21,287,000 in 1933, \$33,025,000 in 1935, and 36,789,000 in 1937, were reported by establishments in other industries.

by No comparable data.

No. 842. ENGINES, TURBINES, WATER WHEELS, WINDMILLS, AND Locomotives-VALUE, BY KIND: 1929 TO 1937

(In thousands of dollars)

CLASS	1929	1931	1933	1935	1937
Total.	291,768	104,349	42,888	104,316	221,481
Steam engines and turbines.	32,459	14,893	8,443	11,180	19,087
Reciprocating marine.		493	161	244	193
Reciprocating stationary and portable.	5,181	1,634	435	1,139	2,633
Stationary turbines.		8,427	5,670	L	12,861
Marine turbines.	27,278	4,339	1,505	9,798	3,400
Not reported as to type			672		
Internal-combustion engines (not including tractors).	166,634	68,279	29,624	65,429	131,651
Diesel and semi-Diesel type-					
Marine Diesel).	11,430	4,876	1,828	5,137	12,148
Other.	16,369	6,978	3,326	11,868	29,118
Other internal-combustion engines-					
Marine-					
Inboard.	7,111	5,528	949	2,237	3,204
Outboard.	7,852	2,352	1,249	2,385	4,519
Motor-vehicle 1	50,654	15,424	4,147	6,583	11,277
Other stationary and portable.	49,251	19,341	9,406	24,610	42,807
Aircraft engines ²	24,966	13,780	8,719	12,610	28,577
Windmills.	4,063	1,214	1,400	1,833	2,613
Water wheels and water turbines.	5,028	6,889	483	3,263	2,967
Engines and turbines not specified as to kind of power.	675		191	876	
Locomotives, steam, electric, and internal-combustion.	82,909	313,073	2,748	21,735	65,163

Excluding engines built for installation motor vehicles manufactured in the same establishments.

Excluding engines built for installation in aircraft manufactured in the same establishment.
: Not including valve of electric locomotives.

Source of tables 841 and 842: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

No. 843.— MACHINERY-VALUE OF THE PRINCIPAL CLASSES MANUFACTURED

NOTE. In thousands of dollars. The various classes of machinery listed are products of a number of industries, such as "Machinery not elsewhere classified," "Motor vehicles," "Electrical machinery, apparatus, and supplies," etc. This table is not an industry presentation, but a special presentation giving value of products for groups designated. The values are in part duplicated in other tables in this abstract, such as tables 844 to 848.

CLASS	1929	1931	1933	1935	1937
Agricultural machinery	167,673	49,954	17,109	68,916	114,340
Aircraft (begun and completed within year).	52,157	22,368	15,860	17,454	38,664
Bakers' machinery and equipment.	21,730	10,876	7,332	11,869	18,120
Blowers and fans.	25,243	15,323	6,955	15,830	26,282
Bottlers' machinery, except for dairies.	11,082	5,653	9,157	8,264	21,135
Canning machinery.	8,535	4,065	3,139	8,271	11,840
Cash registers, adding, calculating, and card-tabulating machines, and typewriters.	151,583	62,279	146,577	83,217	119,833
Cement and concrete machinery:					
Cement-making machinery.	4,387	1,579	545	1,646	2,065
Concrete mixers.	11,405	3,557	963	2,415	5,543
Other cement and concrete machinery.	4,132	1,457	224	1,800	4,053
Clay-working machinery (brick, pottery, etc.).	4,402	1,671	591	1,071	2,727
Condensers.	4,386	2,590	990	1,297	1,735
Confectionery and ice-cream machinery.	3,674	3,809	2,667	5,052	7,217
Conveying and elevating machinery:					
Bucket type.	9,387	2,695	2,107	2,019	3,639
Belt type.	14,206	7,153	3,463	3,935	9,821
Other.	24,944	12,261	5,844	16,091	20,451
Cotton-ginning machinery.	11,760	2,630	2,165	4,892	11,300
Cranes (including hoists and derricks).	57,840	18,448	5,607	13,227	35,426
Dairy machinery.	16,593	11,388	8,327	14,864	19,162
Dredging and excavating machinery:					
Power shovels.	43,348	18,609	4,519	12,560	28,800
Other.	217,397	211,578	3,643	7,466	18,772
Electrical machinery generators, motors, and fans, including parts).	285,974	138,425	73,405	151,501	283,545
Elevators and elevator machinery.	44,044	20,035	8,322	9,110	21,235
Engines (steam or internal-combustion), turbines, and water wheels.	204,796	90,062	38,740	80,748	153,705
Flour-mill and grain-mill machinery.	8,286	4,342	2,354	5,167	6,916
Glass-making machinery.	3,688	2,545	1,895	3,543	4,729
Hydraulic machinery (other than for dredging)	10,082	4,540	1,549	5,593	(3).
Laundry machinery (for commercial laundries only)--	18,893	14,637	5,980	11,051	16,206
Lawn mowers.	18,853	6,141	3,467	4,987	8,427
Leather-working machinery, other than shoe	1,249	816	747	1,005	1,220
Locomotives (steam, electric, and internal-combustion)	82,909	13,073	2,748	21,735	55,163
Machine tools.	186,374	58,712	23,936	87,412	205,822
Metal-working machinery, other than machine tools--	50,336	36,294	13,530	53,888	82,020
Mining, machinery (not including well drilling or dredging).	140,325	12,570	8,107	21,195	29,124
Motorcycles, side cars, bicycles, and parts--	21,198	13,285	(3)	22,887	39,827
Motor vehicles, except motorcycles.	3,412,056	1,387,173	928,650	2,152,986	2,848,786
Oil-mill machinery, cottonseed, and other.	2,533	1,286	2,110	2,790	4,677
Oil-well machinery including drilling) and other well-drilling machinery and supplies.	90,530	24,635	21,483	54,893	121,881
Packing-house machinery.	6,663	4,622	2,756	5,317	7,029
Paper-mill and pulp-mill machinery.	30,456	15,793	8,696	14,829	33,177
Pneumatic machinery (other than pneumatic tools):					
Air compressors.	39,683	15,210	7,214	15,891	28,328
Other pneumatic machinery.	1,691	1,657	397	2,546	(3)
Printers' machinery.	64,860	32,324	13,598	30,377	46,582
Pumps (hand and power) and pumping equipment.	132,747	71,555	36,846	64,210	121,836
Refrigerators, mechanical.		128,033	90,694	152,513	234,865
Refrigerating and ice-making machinery (complete machines).	167,149				
Road-making machinery.		16,642	4,115	6,570	9,534
Rubber-working machinery--	30,694	27,006	11,126	26,039	50,327
Scales and balances.	13,552	4,425	3,347	4,883	12,271
Sewing machines.	25,385	12,072	6,805	12,191	17,169
Shoe machinery.	37,378	15,252	10,274	18,250	24,593
Slot-vending machines.	12,317	9,755	8,130	10,245	10,903
Stokers, mechanical.	8,821	5,861	5,472	5,989	8,978
Sugar-mill machinery.	14,054	8,310	5,629	11,537	22,176
Textile machinery and parts.	5,046	1,840	794	1,260	4,344
Transmission machinery--	115,525	61,223	57,892	54,899	101,845
Vacuum cleaners (electric).	26,787	15,326	9,693	11,899	(3)
Washing machines, clothes wringers, driers, and ironing machines for domestic use.	35,108	24,847	14,411	24,191	36,029
Windmills.	79,011	48,281	42,422	59,513	73,291
Woodworking machinery.	4,063	1,214	1,400	1,833	2,613
	35,151	11,057	6,100	12,542	23,118

Includes other miscellaneous calculating, and computing devices. Y -
: Excludes mining dredges. adding No comparable data. 4Includes dredging machinery.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

No. 844.- ELECTRICAL MACHINERY, APPARATUS, AND SUPPLIES-VALUE, BY CLASSES: 1929 TO 1937

[In thousands of dollars]

PRODUCT	1929	1931	1933	1935	1937
Total value.	1,918,733	987,643	529,436	918,216	1,647,224
Generating apparatus, except railway and vehicle power generators.	61,116	25,287	12,794	34,593	77,558
Motor-generator sets and aynamotors (not including arc welding sets).	13,397	6,007	2,201	5,862	10,832
Transformers, current-limiting reactors, and induction-voltage regulators (except measuring-instrument transformers).	84,032	42,742	13,094	34,357	91,970
Storage batteries and parts and supplies.	109,601	65,736	52,129	65,901	78,250
Dry batteries and wet primary batteries and parts and supplies.	40,334	20,200	15,315	19,817	24,627
Switchboard apparatus (circuit breakers, panelboards, switchboards, and switches)	81,201	44,832	16,243	36,188	88,743
Measuring instruments, meters, relays, analyzers, and instrument and meter transformers.	38,523	22,715	9,328	23,486	41,114
Insulated wire and cable and armored conductor.	323,982	126,160	65,637	122,226	245,342
Conduits and itbings.	46,768	27,464	14,692	23,095	39,443
Fuses and fuse blocks (except high-voltage and power types, 2,300 volts and over).	14,036	7,761	4,825	5,013	7,117
Stationary motors.	136,035	68,430	41,173	72,668	143,606
Fractional horsepower.	51,252	33,648	23,746	37,806	75,775
One horsepower and over:					
Direct current.	22,619	9,060	3,622	8,489	15,629
Alternating current.	62,163	25,722	13,574	26,373	52,202
Not reported by kind or rating-			230		
Automotive starter motors (not including vehicle motors or contro switches)	32,849	13,044	9,032	125,300	20,540
Fans (direct motor-driven)	10,196	8,984	2,437	6,695	15,555
Control apparatus (except railway and vehicle controllers, all types)	44,289	22,186	15,165	28,230	47,388
Lamps (not including sockets and other fittings) and vacuum tubes.	85,320	70,502	50,142	67,551	81,990
Industrial apparatus and appliances (electric furnaces and heating and welding apparatus)-.	20,595	11,321	7,975	20,701	35,673
Commercial cooking apparatus	2,250	1,439	625	1,491	2,765
Household apparatus and appliances.	84,485	55,578	36,707	72,704	112,275
Vacuum cleaners, electric.	35,108	24,847	14,411	24,191	36,029
Flatirons.	8,018	5,070	4,639	6,554	8,909
Cooking utensils.	13,341	8,250	5,311	8,922	16,482
Ranges, disc stoves, and hot plates.	16,933	9,643	4,180	14,196	25,037
Air heaters, radiant and convector type.	1,833	1,012	362	577	1,201
Water heaters (for permanent installation) and parts and accessories.	1,640	1,316	432	3,530	5,605
Other.	7,612	5,440	7,365	14,733	19,012
Wiring devices.	38,395	21,778	17,796	24,583	32,003
Wiring supplies.	22,296	10,339	4,702	12,345	23,667
Carbons.	17,049	9,512	8,997	12,470	20,432
Electrotherapeutic and electromedical (including dental) apparatus and X-ray apparatus (exclusive of X-ray tubes)	23,555	9,164	4,389	9,243	16,299
Flashlight cases.	7,050	2,171	1,876	3,571	5,772
Ignition apparatus for internal-combustion engines.	58,627	27,894	23,432	40,528	58,201
Lightning arresters and choke coils.	6,515	3,257	1,592	2,871	5,983
Radio parts (coils, condensers, etc.).	(3).	(3)	(3)	26,406	47,328
Rectifying apparatus.	4,259	2,871	1,723	3,046	5,025
Signaling apparatus, electric.	34,820	17,465	6,432	12,146	22,043
Telephone and telegraph apparatus.	166,293	113,170	21,180	43,584	115,883
Other.	310,763	129,631	67,802	61,544	129,789

Includes values of parts and supplies.

Motor-driven machine tools are classified in the "Machine tools" industry.

f

z No data.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

No. 845. - FARM EQUIPMENT PRODUCTION, BY CLASS AND KIND: 1937, 1938, AND 1939

CLASS	NUMBER			VALUE (THOUSANDS OF DOLLARS)		
	1937	1938	1939	1937	1938	1939
All products, total value.				580,648	480,013	474,223
Plows and listers.				33,042	26,818	20,305
Moldboard plows.	465,607	313,416	240,625	15,537	12,644	8,719
Disk plows.	28,530	22,549	16,407	4,165	3,446	2,541
Other.				13,340	10,728	9,046
Harrows, coleptivertzes, and salkcettors				16,653	13,303	11,723
Disk harrows.	135,544	103,421	84,545	9,745	7,595	6,447
Spike-tooth and spring-tooth harrow sections.						
Soil pulverizers and packers.	400,224	313,274	193,329	3,526	2,671	1,702
Other.	19,517	15,878	10,166	1,019	835	590
Planting and fertilizing machinery				2,363	2,201	2,985
Corn planters.				27,526	20,246	14,367
Combination corn and cotton planters.	77,384	61,117	46,012	3,693	3,111	2,143
Grain drills.	78,461	57,051	33,982	1,900	1,625	793
Manure spreaders.	57,000	41,242	23,384	7,045	5,926	2,889
Other.	60,057	27,344	33,363	7,217	2,967	4,158
Cultivators and weeders				7,671	6,618	4,383
Horse-drawn cultivators				22,231	16,871	12,290
Tractor-drawn cultivators.	217,418	158,958	102,320	3,791	2,610	1,525
Field cultivators.	127,188	90,760	63,547	10,937	7,947	5,832
Garden cultivators, hand.	11,774	11,488	6,004	1,285	1,237	656
Other.	233,239	271,951	205,078	457	447	368
Harvesting machinery				5,750	4,630	3,900
Grain binders.				46,602	71,522	49,020
Combines (harvester-tarcsbers)	31,250	47,619	15,242	5,371	9,457	3,020
Corn binders (row-binders)	29,403	48,046	41,537	21,284	35,628	25,473
Corn pickers.	16,694	12,765	5,535	2,821	2,256	074
Other.	13,585	16,722	16,044	6,172	6,902	6,484
Haying machinery.				10,953	17,281	13,069
Mowers.				19,740	14,604	14,256
Rakes, sully, side delivery, and sweep.	125,852	76,225	73,112	8,015	5,026	5,188
Loaders.	84,780	59,429	43,566	4,302	3,038	2,592
Other.	27,256	17,481	15,350	2,558	1,580	1,532
Machines for preparing crops for market or use				4,866	4,960	5,035
Grain threshers.				20,472	22,572	19,822
Ensilage and feed cutters.	4,996	8,649	2,781	4,049	7,438	2,605
Corn shellers.	12,168	13,209	31,673	2,229	2,714	2,020
Corn huskers and shredders.	65,253	50,337	57,897	900	915	1,073
Hay presses.	1,946	1,576	1,722	960	638	730
Feed grinders and crushers.	5,725	3,535	4,540	2,137	1,455	1,223
Other.	62,016	53,235	75,692	3,134	3,106	4,668
Tractors				7,062	5,307	7,303
Wheel type.				268,394	196,218	203,576
Track type.	237,837	172,437	185,558	159,686	116,882	110,857
Garden tractors.	34,602	16,837	20,127	66,418	33,772	45,305
Attachments and parts.	10,716	9,949	9,777	1,575	1,345	1,416
Engines, internal-combustion (except automotive and marine)				40,715	44,220	45,999
Engines.				20,849	15,411	18,738
Attachments and parts	282,643	186,447	244,848	18,597	13,351	15,755
Farm wagons and trucks.				2,251	2,060	2,983
Farm wagons.				8,565	4,394	5,230
Farm trucks.	57,560	22,389	30,720	3,656	1,372	1,765
Other.	48,563	21,756	21,416	1,849	851	623
Miscellaneous equipment.				3,060	2,171	2,841
Milking machines.				95,975	88,054	105,101
Crease separators.	21,502	18,787	22,798	1,216	1,239	1,418
Spraying outfits (power)	84,246	71,632	53,229	3,812	2,921	1,753
Elevators, farm portable).	8,007	6,122	8,188	1,591	1,546	2,040
Water systems, pneumatic.	4,142	4,066	5,103	924	1,411	1,045
Pumps, water.	195,486	176,184	241,664	9,549	8,151	11,755
Windmills and windmill towers.	726,090	511,485	689,308	3,573	2,449	2,733
Barn and barnyard equipment.	87,713	63,444	67,098	3,546	2,576	2,732
Poultry-farm equipment.				4,997	4,376	5,450
Beekeepers' supplies.				6,515	5,248	7,437
Comcribs.				1,244	1,165	1,284
Grain bins.				578	589	3,652
Forks, hoes, and rakes.	2,922	5,525	34,605	282	670	4,302
Shovels, spades, and scoops.				7,543	5,845	6,054
Lawn mowers.				7,274	5,824	6,073
Lighting plants, electric, residence, etc.	1,248,898	1,128,373	1,250,958	8,427	9,103	9,691
Silo.	37,156	21,349	296,755	4,338	3,143	25,006
Wheel barrows.	9,631	7,560	6,775	3,952	3,189	2,818
Other.	330,764	345,593	378,796	1,404	1,505	1,563
				25,209	27,104	28,288

Including attachments and parts.

: Not strictly comparable with earlier years.

Source: Department of Commerce, Bureau of the Census; annual report, Manufacture and Sale of Farm Equipment and Related Products.

No. 846. MACHINE TOOLS PRODUCTION, BY KIND: 1933, 1935, AND 1937

KIND	NUMBER			VALUE THOUSANDS OF DOLLARS)		
	1933	1935	1937	1938	1935	1937
Machinetools and replacement and repair parts, total value.	-			29,631	98,983	220,508
Boring machines.	2	604	2927	976	26,715	
Boring mills, vertical, work revolving.			L 2529		4,530	124,345
Drilling machines:						
Horizontal, vertical, and radial.	(1)	O	(1)	967	5,237	11,888
Combined vertical and horizontal, automatic, uni-						
versal-head, and all other.				669	1,968	5,367
Forging machines hammers, presses, etc.).			8	477	2,119	3,931
Gear-cutting machines.	8		1,855	1,030	4,673	10,860
Grinding machines.	(1)	8	(1)	3,627	13,211	28,177
Lathes:						
Bench (plain and screw-cutting).	3,283	12,174	14,663	1,425	1,153	1,911
Engine.		L 2,567	7,281		E 3,989	12,709
Automatic.	242		(1)	1,185	9,986	23,716
Turret, horizontal hand-operated.	201		3,138	516	3,637	13,532
Other.	(1)		O	768	792	3,216
Milling machines.	(1)	8	5,061	1,341	6,956	19,586
Portable tools (electric and pneumatic):						
Drills:						
Number reported	24,115	78,179	139,119	1,409	3,373	9,754
Number not reported.				94	1,677	
Grinders.	O	27,646	42,981	466	1,506	2,377
Hammers.	11,252	(1)	19,941	629	986	1,303
Other, including portable: motor-driven garage equip-				2,303	4,893	5,504
ment, and flexible shaft, etc-						
Presses (except lorging presses).	8	8	8	1,696	6,326	15,036
Shapers and slotters.	35	463	1,131	58	922	2,648
Threading machines.	493			331	1,986	4,179
All other machine tools.	(1)	8	8	3,968	7,492	19,037
Replacement and repair parts.				5,694	11,571	14,687

Data incomplete.

: Not strictly comparable with figures for earlier years because of differences in the questionnaires.

No. 847. MACHINE-TOOL ACCESSORIES AND MACHINISTS PRECISION TOOL S-
PRODUCTION, BY KIND: 1933, 1935, AND 1937

PRODUCT	VALUE THOUSANDS OF DOLLARS)			PRODUCT	VALUE THOUSANDS OF DOLLARS)		
	1933	1935	1937		1933	1935	1937
Total value.	46,878	104,939	176,082	Small tools and tool hold-			
Attachments and Axtures.	25,894	58,491	95,650	ers-Continued.			
General equipment:				Milling cutters (all types),			
Chucks.	714	1,873	4,566	end mills, slotting cut-			
Vises (machine).	81	161	234	ters, etc.:			
Attachments for machino				Solid.	2,447	5,262	10,200
tools:				Inserted-teeth.	1,212	1,786	850
Lathe.	104	229	728	Reamers.	1,220	3,184	5,062
Boring, drilling, and				Threading, tools:			
milling-machine.	805	1,028	1,384	Taps and dies (not pipe-			
Other attachments.	99	628	550	threading):			
Other attachments and				Taps.	1,848	3,806	7,827
fixtures.	1,592	3,001	6,828	Dies.	652	1,513	1,955
Special equipment and				Chasers	1,018	1,789	2,539
machinery.	22,501	51,571	81,361	Pipe-threading:			
Small tools and tool holders.	17,509	39,367	66,731	Taps.	405	424	719
Arbors, collars, and collets				Dies.	456	475	849
(lathe, milling-machine,				Pipe stocks, complete			
and drill).	164	499	995	with dies.	650	1,306	1,825
Counterbores.	56	507	1,058	All other, and those not	2,285	7,347	14,151
Countersinks and combi-				reported by kind.			
nation countersinks and				Precision measuring tools			
drills.	104	356	543	(micrometer and vernier).	186	1,183	1,581
Drills.	4,508	8,981	15,189	Gages (plug, ring, snap,			
Hobbing cutters.	484	2,131	2,970	thread, etc.)	761	1,332	3,003
				Other measuring tools.	618	1,575	2,229
				Misc. equip't and acces-			
				sories, not incl. above.	1,910	2,993	6,887

1 Includes machine-tool accessories, etc., not reported by kind.

Source: Tables 846 and 847: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

No. 848. - REFRIGERATING AND ICE-MAKING APPARATUS- PRODUCTION

PRODUCT	NUMBER		VALUE THOUSANDS OF DOLLARS)	
	1935	1937	1935	1937
Total value.			1226,611	1375,406
Mechanical refrigerators and refrigerating systems, compression-type (electric):				
Domestic (household):				
Self-contained, total.			1119,873	1183,574
Capacity under 6 cu. ft.	875,397	1,093,026	60,903	84,458
6 cu. ft. or more but under 10 cu. ft.	536,308	991,022	55,182	95,986
10 cu. ft. and over.	11,688	12,102	2,428	2,396
Not reported by size.			1,359	734
Commercial.			18,344	120,973
Beverage coolers (for bottled beverages).		63,653		5,446
Water coolers, self-contained.	0	(2)	2,026	4,553
Ice-cream cabinets, self-contained:				
Number reported.	14,220	47,628	2,062	8,377
Number not reported.			609	100
Other commercial refrigerators and display cases, self-contained.	(2)	(2)	3,648	2,498
Systems 3 high sides, low sides, etc. (commercial and domestic):				
Systems complete without cabinets.	242,240	279,645	11,047	11,686
Compressors made for sale separately.	54,875	198,510	3,910	9,540
Evaporators made for sale separately:				
Number reported.	67,985	866,973	1,573	3,145
Number not reported.			559	1,355
High sides and low sides made for sale separately.			7,207	12,451
Room coolers (not air conditioning)	0	(2)	4)	1,139
Cabinets, 3 display cases etc., for mechanical refrigerators, made for sale separately:				
Domestic (household), all sizes.	314,394	520,097	9,497	17,163
Commercial:				
Refrigerator cabinets:				
Number reported.	13,789	45,469	1,151	5,737
Number not reported.			2,590	1,781
Display, storage, etc., cases:				
Number reported.	8,021	25,953	3,711	13,418
Number not reported.			3,536	2,905
Remote for drain or water coolers, with low sides and other commercial cabinets.			1,296	3,115
Ice refrigerators and ice boxes:				
Domestic Household:				
Number reported.	308,976	394,550	6,662	9,920
Number not reported.			233	61
Commercial ice refrigerators, water coolers, milk coolers, food-display cases, etc-			3,223	5,354
Ice-making and refrigerating machines and apparatus, commercial and industrial			7,962	11,539
Complete machines (ice-making capacity per 24 hours):				
Less than 10 tons:				
Number reported.	4,497	10,195	2,460	4,890
Number not reported.			189	560
10 tons or more but under 100 tons:				
Number reported.	847	1,751	2,825	3,403
Number not reported.			370	117
100 tons and over.	(2)	(2)	727	565
Compressors and evaporators made for sale separately as such:				
Number reported.	70,842	10,300	738	762
Number not reported.			654	1,243
Condensing units (high sides) for air-conditioning		7,555	(2)	5,817
Evaporators for air-conditioning.	8	17,440	(2)	1,130
All other, including air-conditioning equipment, absorption-type refrigerators, custom-built refrigerators, cabinets cooled by replaceable chemical refrigerant and cooling equipment therefor, cabinets and display cases not reported by method of cooling, and parts for all types 3-			34,236	53,602

The values of "Systems, high sides, low sides, (see footnote 8), and "Cabinets, display cases etc.," are duplicated in the totals to which this footnote is indexed, to the extent to which these products were sold to manufacturers in the industry for assembly and sale as complete refrigerators. No data or data incomplete.

The term "system," as used here, refers to a complete assembly, consisting of "high side" and "low side" motor, control, and expansion valve or its equivalent. The cabinet is not a part of the system. Data incomplete; included with "All other, including air-conditioning equipment, etc."

Figures combined to avoid disclosing output of individual manufacturers.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

No. 849.— RADIOS, RADIO TUBES, AND PHONOGRAPHS— PRODUCTION: 1935
AND 1937

PRODUCT	NUMBER		VALUE THOU- SANDS OF DOLLARS	
	1935	1937	1935	1937
Radios, radio tubes, and phonographs, total value.			206,633	1288,620
Receiving sets complete (cabinets, chassis, speakers, and tubes).			134,674	1176,736
Number reported.	5,645,162	7,802,399	132,684	175,380
Number not reported.			1,990	1,356
For home and general use—		5,843,569	104,816	131,526
Number reported.	4,397,804	5,843,569	103,563	131,526
Number not reported.			1,253	
Covering standard broadcast band:				
Socket-power-operated	1,250,219	2,045,273	14,908	29,529
Battery-operated	187,026	235,049	4,885	3,665
Extending beyond standard broadcast band—all-wave re- ceiving sets:				
Socket-power-operated:				
Number reported.	2,700,738	3,290,083	76,742	91,472
Number not reported.			1,253	
Battery-operated.	259,821	273,164	7,028	6,860
Automobile sets.	1,221,708	1,890,841	25,556	38,679
For general use:				
Factory price not over \$25.	1,040,906	1,810,601	20,812	36,162
Over \$25.	177,653	73,971	4,526	2,142
For police use:				
Police sets.	3,149	6,269	218	375
Aircraft sets (including all accessory equipment except bat- teries): commercial receiving sets and direction finders, and other sets not specified above.			1,841	1,963
Number reported.	2,288	10,182	651	607
Number not reported.			1,190	1,356
Radio-phonograph combinations.	23,362	57,807	2,461	4,567
Tubes:				
Receiving tubes.	78,231,142	112,218,139	28,975	39,251
For replacement.	36,769,396	41,472,438	12,954	15,482
Rectifiers (primarily for use with receiving sets).	3,762,328	4,178,024	1,203	1,760
Other tubes.	33,007,068	37,294,414	11,751	13,722
For initial equipment.	41,461,746	70,745,701	16,021	23,769
Rectifiers (primarily for use with receiving sets)	2,926,166	4,780,449	1,119	1,601
Other tubes.	38,535,580	65,965,252	14,902	22,168
Transmitting tubes for initial equipment and for replacement—	(2)	(2)	1,874	3,005
Rectifier tubes not included above:				
Low-power, 500 watts and under.		79,657	553	300
High-power, above 500 watts.	8	41,603	159	242
Transmitters (including all associated equipment):				
Broadcast.			401	1,910
Aircraft.		8	1,004	3,206
Ship.	8	540	1,250	1,770
Other transmitters, for use at fixed locations.	(2)	(2)	3,115	1,989
Phonographs and accessories:				
Phonographs for mechanical reproduction, including cabinets			2,107	7,086
Records.			3,705	7,823
Needles.	8	8	269	583
Miscellaneous:				
Receiving-set chassis for sale separately	3	277,722	4,136	5,485
Loud speakers for sale separately as such			5,616	9,213
Microphones (all types).			455	694
Public-address and music-distribution apparatus.	8	8	2,784	3,696
Other apparatus and products (including dictating machines, phonographs for electrical reproduction of records, including cabinets and tubes, and other miscellaneous products).			15,554	25,632

Includes some duplication. See footnote 3.

Data incomplete.

The items to which this footnote is indexed are duplicated in the subtotal and the total at the head of the table, to the extent to which the products were sold to manufacturers of complete radio receiving sets for installation in such sets made within the year covered by the report.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

No. 850.— MOTOR VEHICLES AND AIRCRAFT- PRODUCTION: 1933, 1935, AND 1937

PRODUCT	NUMBER			VALUE (THOUSANDS OF DOLLARS)		
	1933	1935	1937	1933	1935	1937
MOTOR VEHICLES AND CHASSIS						
Total.	1,848,013	3,923,052	4,732,553	928,650	2,152,986	2,848,786
Passenger vehicles (not including public conveyances).	1,533,566	3,211,734	3,847,800	752,700	1,752,138	2,296,511
Closed.	1,516,343	3,191,877	3,827,517	744,268	1,739,271	2,281,131
Open	17,223	19,857	20,283	8,432	12,866	15,380
Motor busses (including school, sightseeing, and public-utility)	1,574	4,817	7,665	6,948	27,176	47,176
Trucks.	213,683	505,226	602,144	110,765	271,202	356,683
Hearses and undertakers wagons	825	1,681	2,604	1,911	3,769	6,206
Ambulances.	418	253	467	520	589	1,155
Truck tractors.	1,633	2,464	1,786	3,203	5,028	2,785
Taxicabs and commercial vehicles not specified above.	5,281	3,205	4,360	5,245	3,570	3,637
Fire-department apparatus.	244	538	985	1,475	2,811	5,868
Other vehicles and apparatus (including street-cleaning apparatus, etc.).	46	124	397	219	762	1,036
Chassis.	90,743	193,010	264,345	45,663	85,940	127,729
Passenger.	8,756	40,596	36,423	3,875	13,453	12,704
Commercial.	81,804	151,675	226,205	41,569	71,702	113,223
Bus.	183	739	1,717	219	785	1,802
AIRCRAFT						
Total value-				25,619	40,882	101,520
Aircraft begun and completed within the year1	1,179	1,365	3,100	15,860	17,454	38,664
Airplanes	1,056	1,313				
Seaplanes and amphibians.	68	41 7	3,090 2	13,359	14,895	38,575
Other	55	11	10	280	213	89
Value of work done during census year on aircraft under construction2				2,486	14,069	33,776
Parachutes, propellers, and pontoons.				1,375	2,832	8,228
Parts.				5,898	6,527 -	20,852

1For 1933, reported as "Built in 1933;" for 1935, as "Begun and completed in 1935;" for 1937, as "Begun and completed in 1937."
2The term "aircraft under construction" includes all aircraft (1) begun prior to the census year and finished during the census year, (2) begun prior to the census year not completed during the year, or (3) begun during the census year not completed at the close of the census year. Only the value of work done during the census year is reported.

No. 851.- BICYCLES PRODUCTION: 1899 TO 1937

YEAR	Number	Value	YEAR	Number	Value
1899.	1,182,691	\$23,656,487	1925.	303,446	\$7,030,566
1904.	250,487	3,740,923	1927.	255,456	5,803,440
1909.	233,707	3,228,189	1929.	307,845	6,183,773
1914.	398,899	5,361,230	1931	260,029	4,733,254
1919.	479,163	12,498,000	1933.	3320,000	15,402,000
1921.	2216,464	26,218,394	1935.	656,828	12,059,867
1923.	486,177	10,726,900	1937.	1,130,736	22,223,431

Estimated in small part.
: Not including data for bicycles made by certain establishments engaged primarily in other lines of manufacture, not reported separately. The combined value of bicycles and parts made by these establishments amounted to 176,464.
3Estimated in part.

Source of tables 850 and 851: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

No. 852.- COTTON SPINDLES, COTTON CONSUMPTION, AND STOCKS

NOTE.—The statistics for 1915 to 1940 relate to the 12 months ended July 31 and those for prior years to 12 months ended Aug. 31. Consumption and stocks are expressed in running bales, counting round bales, except that all figures, 1840 to 1870, inclusive, and foreign cotton for all years are in equivalent 500-pound bales. The number of active cotton spindles represents spindles operated at some time during the year, and is not as satisfactory a measure of activity of the industry as active spindle hours.

YEAR	COTTON SPINDLES (THOUSANDS)					Spindles using cotton with other fibers (thousands)	Active cotton spindle hours (thousands)	COTTON CONSUMED, EXCLUDING LINTERS ¹ (THOUSANDS OF BALES)			
	Active							United States	Cotton-growing States	New England	Other States
	Total in place	United States	Cotton-growing States	New England	Other States						
1840.		2,285	181	1,597	506			237	71	159	7
1850.	8	3,998	265	2,959	775			576	78	431	67
1860.		5,236	324	3,859	1,053	8		845	94	567	184
1870.	8	7,132	328	5,498	1,306			797	69	551	177
1880.	(2)	310,653	1561	38,632	31,460			81,570	8,189	1,129	E252
1890.		14,384	1,570	10,934	1,880			2,518	539	1,502	477
1900.	8	19,472	4,368	13,171	1,933			3,873	1,523	1,909	440
1910.	28,929	28,267	10,494	15,735	2,038			4,622	2,234	1,995	393
1920.	35,834	35,481	15,231	18,287	1,963	402		6,420	3,583	2,397	440
1924.	37,804	35,849	16,944	17,066	1,839	258	84,360	5,681	3,858	1,535	287
1925.	37,929	35,032	17,292	15,975	1,765	251	91,055	6,193	4,220	1,639	335
1926.	37,586	34,750	17,574	15,526	1,650	243	93,941	6,456	1,500	1,628	328
1927.	36,696	34,410	17,894	14,995	1,521	235	102,605	7,190	5,194	1,675	321
1928.	35,540	33,570	18,282	13,815	1,473	232	96,451	6,834	5,114	1,438	282
1929.	34,820	32,417	18,541	12,538	1,339	207	99,604	7,091	5,392	1,447	251
1930.	34,025	31,245	18,586	11,351	1,308	177	87,515	6,106	4,749	1,143	214
1931	32,673	28,980	18,073	9,655	1,251	117	75,264	5,263	4,148	937	179
1932.	31,709	27,272	17,630	8,566	1,076	113	68,755	4,866	4,033	677	155
1933.	30,893	26,895	17,929	8,205	761	119	85,265	6,137	5,087	884	167
1934.	30,942	27,742	18,511	8,457	774	126	80,419	5,700	4,550	985	165
1935.	30,093	26,701	18,212	7,763	726	88	72,526	5,361	4,306	818	237
1936.	28,147	24,664	17,834	6,092	738	78	83,960	6,351	5,336	832	184
1937.	26,982	25,419	18,244	6,425	751	91	101,225	7,950	6,626	1,073	251
1938.	26,372	24,774	18,128	5,919	727	90	74,962	5,748	4,881	708	160
1939	25,261	23,731	17,666	5,408	657	116	87,696	6,858	5,810	859	189
1940.	24,750	23,586	17,641	5,279	666	103	97,006	7,784	6,647	918	219

YEARLY AVERAGE OR YEAR	CONSUMPTION (THOUSANDS OF BALES)					STOCKS IN CONSUMING ESTABLISHMENTS AT END OF YEAR (THOUSANDS OF BALES)					
	Cotton, excluding linters					Cotton, excluding linters					
	Domestic					Linters					
	Total	Upland	Sea Island	American-Egyptian	Foreign	Total	Domestic	Foreign	Linters		
1906-1910.	44,829	44,680	44,616	464	149	5163	4731	4673	58	539	
1911-1915.	5,257	5,051	64,976	75	(6)	206	293	822	738	84	86
1916-1920.	6,388	6,105	66,034	71	(9)	282	734	1,452	1,352	100	179
1921-1925.	5,869	5,577	5,531		37	292	599	1,003	911	92	139
1926-1930.	6,735	6,434	6,419		15	301	815	1,150	1,050	100	186
1931-1935.	5,466	5,325	5,311	i	14	140	720	1,116	1,061	55	261
1920.	6,420	6,003	5,914	43	46	417	342	1,358	1,208	150	277
1924.	5,681	5,353	5,312	"5	36	328	537	722	638	84	101
1925.	6,193	5,917	5,894		19	276	659	866	787	79	129
1926.	6,456	6,176	6,162		12	280	804	1,097	1,010	86	144
1927.	7,190	6,880	6,859		20	309	806	1,405	1,325	80	199
1928.	6,834	6,535	6,519		15	299	780	1,012	935	77	159
1929.	7,091	6,778	6,764		13	313	879	1,052	932	120	187
1930.	6,106	5,803	5,790		13	302	805	1,183	1,048	135	239
1931	5,263	5,084	5,068		15	179	714	996	922	74	254
1932.	4,866	4,744	4,732	8	12	122	637	1,218	1,163	55	301
1933.	6,137	6,004	5,985	1	18	133	761	1,348	1,298	50	322
1934	5,700	5,553	5,540	(7)	13	148	767	1,228	1,172	56	237
1935.	5,361	5,241	5,229	1	11	120	719	789	749	40	187
1936.	6,351	6,220	6,198		21	131	734	897	855	42	181
1937.	7,950	7,768	7,747	8	20	182	819	1,286	1,218	67	236
1938.	5,748	5,616	5,608		6	132	715	1,263	1,223	39	268
1939.	6,858	6,736	6,714	3	19	122	851	862	816	46	291
1940.	7,784	7,655	7,631	3	21	128	1,061	972	913	59	400

Includes linters 1840 to 1908. Figures for all years include foreign and domestic cotton.

¹ Not available for cotton mill only. ² Includes linters for 1906 to 1908 and average, 1909 and 1910. ³ "Upland" includes "American-Egyptian" beginning 1912 (first year produced). ⁴ Less than 500 bales.

Source: Department of Commerce, Bureau of the Census; annual report, Cotton Production and Distribution.

No. 853.- COTTON SPINDLE ACTIVITY, 1938, 1939, 1940, AND COTTON CONSUMPTION, 1931 TO 1940, BY STATES

NOTE. Years ended July 31. Consumption includes domestic and foreign cotton and is in running bales counting rounds as half bales, except foreign cotton which is in equivalent 500-pound bales

SECTION AND STATE,	COTTON SPINDLES IN PLACE (THOUSANDS)			ACTIVE COTTON SPINDLE HOURS (MILLIONS)			COTTON CONSUMED, EXCLUDING LINTERS (THOUSANDS OF BALES)				
	1937-38	1938-39	1939-40	1937-38	1938-39	1939-40	1931-1935, average	1936-37	1937-38	1938-39	1933-40
United States.	26,372	25,261	24,750	74,962	87,696	97,006	5,466	7,950	5,748	6,858	7,784
Cotton-growing States.	13,798	18,319	18,136	59,776	69,231	76,751	-	6,626	4,881	5,810	6,647
New England.	6,773	6,143	5,884	13,709	16,726	18,241	860	1,073	708	859	918
Other States.	801	799	730	1,477	1,739	2,014	181	251	160	189	219
Alabama.	1,884	1,811	1,800	5,460	6,507	7,635	570	856	588	727	868
Connecticut.	596	520	518	1,275	1,301	1,552	60	77	46	54	67
Georgia.	3,243	3,234	3,210	10,152	12,416	13,554	985	1,562	1,080	1,348	1,565
Maine.	705	689	685	1,983	2,246	2,363	111	169	120	147	150
Massachusetts.	3,766	3,434	3,331	6,672	8,700	9,776	442	539	329	410	471
New Hampshire.	629	429	307	1,455	1,291	1,150	149	157	118	130	111
New York.	355	347	331	564	731	934	76	116	66	84	95
North Carolina.	6,049	5,866	5,840	17,150	20,507	23,491	1,298	2,021	1,478	1,789	2,040
Rhode Island.	979	973	945	2,106	2,906	3,179	91	120	87	108	111
South Carolina.	5,731	5,619	5,519	20,677	23,244	25,279	1,103	1,511	1,196	1,372	1,536
Tennessee.	600	550	555	2,306	2,382	2,614	139	191	152	173	191
Texas.	255	239	237	871	912	960	74	131	119	125	145
Virginia.	634	639	640	2,053	2,185	2,142	128	174	146	139	149
All other States.	945	911	833	2,233	2,318	2,376	240	326	222	251	284

Source: Department of Commerce, Bureau of the Census; annual report, Cotton Production and Distribution.

No. 854. EXPLOSIVES- AMOUNTS EXCLUDING EXPORTS) MANUFACTURED AND SOLD, CONTINENTAL UNITED STATES AND ALASKA: 1915 TO 1939

NOTE.-In thousands of pounds. Permissible explosives are those approved by the Bureau of Mines as suitable for use in coal mines

YEAR	Total	Per-	High	BLACK BLAST-		USE	Total	Per-	High	Black
		missible	explosives	ING POWDER	missible			explosives	blasting	
		explosives	than permissible	Granular.	Pellet			missible explosives	other than permissible	powder
1915.	460,901	27,350	235,829	197,722		1938.	332,130	41,859	238,576	51,695
1916.	505,415	34,685	255,155	215,575						
1917.	582,475	43,041	262,316	277,119		Coal mining.	111,369	41,417	23,584	46,368
1918.	499,125	46,045	206,416	246,663		Metal mining.	75,613	20	75,407	186
1919.	117,634	38,855	198,269	180,511		quarrying and non-metallic mineral mining.	42,706	268	40,702	1,737
1920.	537,955	53,963	220,112	254,880		Railway and other construction work	88,780	51	85,692	3,037
1921.	872,108	41,134	170,952	160,021		All other purposes.	13,662	1035	13,191	367
1922.	131,772	43,430	209,475	178,866						
1923.	529,728	60,371	267,405	201,951		1939.	386,438	49,951	278,250	58,237
1924.	495,533	55,134	273,323	167,076.						
1925.	501,752	58,353	286,435	256,964	(2)					
1926.	535,890	67,685	310,518	157,687	(1)					
1927.	199,011	63,847	303,468	113,696	(1)					
1928.	175,251	60,708	292,785	98,004	23,754	Coal mining.	124,232	49,401	23,663	51,169
1929.	509,708	52,669	326,993	56,818	33,227	Metal mining:	88,280	18	88,061	201
1930.	445,090	53,826	291,391	63,139	36,735	quarrying and non-metallic mineral mining.	56,522	387	53,732	2,402
1931.	337,565	41,578	216,157	46,300	33,530					
1932.	233,887	32,225	137,908	35,793	27,961	Railway and other construction work	103,565	1011	99,707	3,758
1933.	255,987	33,927	157,849	33,887	30,323					
1934.	314,768	39,208	206,625	37,193	31,742	All other purposes.	13,839	44	13,087	707
1935.	308,381	39,170	200,324	34,223	34,665					
1936.	391,605	47,859	262,047	40,420	41,278					
1937.	404,744	49,579	288,924	29,837	36,404					
1938.	332,130	41,859	238,576	23,552	23,143					
1939.	386,438	49,951	278,250	28,322	29,915					

1 Pellet powder is included with granular powder. Pellet powder was first manufactured for general sale in 1925.

Source: Department of the Interior, Bureau of Mines; Production of Explosives in the United States.

No. 855.— TOBACCO PRODUCTS— PRODUCTION, BY KIND

NOTE. Compiled from monthly returns of manufacturers. Data relate to products manufactured in continental United States, excluding those manufactured in bonded manufacturing warehouses, which amounted to 94,943,380 cigars in 1939. Large cigars are those weighing more than 3 pounds per thousand

CALENDAR YEAR OR YEARLY AVERAGE	TOBACCO AND SNUFF THOUSANDS OF POUNDS)					CIGARS (THOU- SANDS)		CIGARETTES THOUSANDS)		
	Total	Plug	Twist	Fine cut	Smok- ing l	Snuff	Large	Small	Large	Small
1901-1905	346,841	175,981		11,903	138,402	20,556	6,513,095	716,720	7,143	3,227,602
1906-1910	413,054	167,460	13,524	12,525	192,700	26,845	6,883,272	1,059,501	16,113	5,192,571
1911-1915	437,346	158,520	15,017	10,795	221,865	31,140	7,087,530	1,053,654	15,695	14,802,416
1916-1920	456,584	159,869	14,346	9,758	207,808	34,805	7,364,937	810,327	26,026	41,565,670
1921-1925	409,457	115,445	10,105	6,972	239,151	37,785	5,591,913	557,300	16,704	65,903,991
1926-1930	389,244	99,470	8,374	5,821	235,421	40,159	6,360,650	414,044	10,479	108,361,216
1931-1935	349,785	64,662	5,404	3,660	239,072	36,987	4,648,368	245,412	20,417	21,702,334
1932-	347,279	61,945	4,918	3,354	241,067	35,994	4,382,723	278,749	3,374	106,632,434
1933.	342,113	61,361	5,042	3,120	236,491	36,098	4,300,045	209,515	2,846	114,874,217
1934.	345,566	62,760	6,080	2,970	237,862	36,894	4,525,780	221,977	58,202	129,976,334
1935.	342,728	60,588	5,604	4,683	235,757	36,095	4,685,370	177,822	2,504	139,966,180
1936.	347,977	59,165	6,372	5,068	239,349	38,022	5,172,279	180,006	2,468	163,803,958
1937.	340,579	58,331	6,774	4,999	233,334	37,141	5,303,369	198,585	5,066	169,909,320
1938.	345,369	54,495	5,659	4,572	243,470	37,173	5,014,758	152,990	2,638	172,686,383
1939.	343,307	51,263	5,733	4,701	243,640	37,970	5,197,627	156,940	4,003	280,000,624

NUMBER OF FACTORIES
JAN. 1, 1940, MAKING—

PRODUCTION IN 1939 (CALENDAR YEAR)

STATE	Tobacco and snuff		Cigars	Cigarettes	Tobacco and snuff (1,000 pounds)	Cigars (thousands)		Cigarettes (thousands)	
	2					Large	Small	Large	Small
Total.		608	3,553	75	343,307	5,197,627	156,940	4,369	180,666,824
California.		26	125	6	372	68,871	6	1	3,376,493
Connecticut.		6	113		28	38,908			
Florida.		4	155	2	2	909,007	4,954		1,017
Illinois.		75	421		25,454	31,822			421
Indiana.		23	56	1	130	98,193			
Kentucky.		25	23	4	42,274	3,736		1,611	12,313,821
Louisiana.			11			77,965			
Massachusetts.		27	215		292	38,628		9	3,885
Michigan.		22	99	1	8,095	111,672			
Minnesota.		15	57		44	5,472			
Missouri.		14	71	2	29,238	25,975			11,117
New Hampshire.		2	33			57,177			
New Jersey.		15	117	3	7,424	754,500	1,360	19	10,491,094
New York.		126	838	25	1,489	211,010	2,610	1,955	601,000
North Carolina.		11	7	7	124,467	41,575	14,589	478	86,307,663
Ohio.		47	177		36,825	246,741	37		
Pennsylvania.		74	515	7	7,764	1,818,742	70	111	6,071,339
South Carolina.		1			9	204,860			
Tennessee.		12	5		19,962	13,665			
Virginia.		8	12	9	29,151	294,448	133,313	185	61,488,974
West Virginia.		6	26		7,817	76,753			
All other.		69	470	1	2,470	67,907	1		

Includes scrap chewing tobacco.

: Factories producing a taxable product, excluding 228 "quasi" manufacturers.

Source: Treasury Department, Bureau of Internal Revenue; Annual Report of the Commissioner.

No. 856. - TOBACCO CONSUMPTION IN THE UNITED STATES: 1933 TO 1939

NOTE: All figures except per capita in thousands of pounds. Data for tobacco used in manufacture in registered factories represent the equivalent in unstemmed leaf of all tobacco. See heading, table 857

ITEM	1933	1934	1935	1936	1937	1938	1939
Leaf tobacco consumed in manufacture:							
In registered factories.	710,668	775,530	775,932	847,367	872,924	865,302	885,299
In bond.	1,283	943	1,027	1,165	1,118	1,631	1,743
Manufactured tobacco imported:							
From Puerto Rico—	905	903	853	682	475	42	38
Other countries	2,010	3,353	4,456	3,299	4,378	3,381	3,910
Exports of manufactured tobacco	13,606	16,526	18,646	21,543	24,971	27,715	29,262
Remaining for consumption.	701,260	764,204	763,622	830,970	853,924	842,641	861,729
Per capita consumption—pounds,	5.58	6.04	5.99	6.47	6.61	6.47	6.62

Imports for consumption beginning with 1934; general imports for 1933.

: Represents exports to foreign countries and shipments to noncontiguous Territories and possessions.

Sources: Leaf tobacco used in registered factories, Treasury Department, Bureau of Internal Revenue; leaf tobacco used in bonded factories, Treasury Department, Bureau of Customs; other data, Department of Commerce, Bureau of Foreign and Domestic Commerce.

No. 857.— TOBACCO, LEAF AMOUNTS CONSUMED IN THE MANUFACTURE OF CIGARS, CIGARETTES, CHEWING AND SMOKING TOBACCO, AND SNUFF

NOTE.—All figures in thousands of pounds. Figures represent the equivalent in unstemmed leaf tobacco of stemmed leaf or scraps, cuttings, and clippings. In the following table the tobacco used in the manufacture of cigars and cigarettes was converted on the basis of 10 pounds of stemmed leaf or scraps, etc., to 4 pounds of unstemmed leaf beginning 1915 (conversion prior to 1915 was at the ratio of 3 to 5) and of tobacco and snuff beginning 1903. For 1896 to 1902, tobacco used in manufactured tobacco and snuff was shown only under two heads, namely "leaf" and "scraps." It is probable that stemmed leaf was included in the unstemmed tobacco under the head of "leaf" without the kind being converted to the equivalent in the other. The conversion ratio of 3 to 4 was applied only to "scraps" for these years. Data exclude tobacco used in bonded manufacturing warehouses (see table 856).

CALENDAR YEAR OR YEARLY AVERAGE	Total	Cigars	Cigarettes	Tobacco and snuff	CALENDAR YEAR	Total	Cigars	Cigarettes	Tobacco and snuff
1896-1900.	359,053	87,851	16,235	254,967	1929.	796,626	152,129	346,543	297,953
1901-1905.	451,461	124,411	12,444	314,606	1930.	779,806	137,901	347,915	293,990
1906-1910.	524,193	139,206	22,079	362,908	1931.	752,404	127,628	329,962	294,813
1911-1915.	578,283	151,890	52,207	374,186	1932.	690,134	104,288	299,029	286,817
1916-1920.	650,460	155,312	130,320	364,828	1933.	710,668	104,699	326,093	279,876
1921-1925.	672,077	151,421	198,069	322,588	1934.	775,530	111,123	375,383	289,024
1926-1930.	762,540	149,240	312,533	300,767	1935.	775,932	113,742	399,458	262,731
1931-1935.	740,934	112,296	345,985	282,652	1936.	847,367	126,578	453,327	267,462
1926.	737,354	152,372	267,584	317,399	1937.	872,924	128,653	479,961	264,309
1927.	744,288	152,510	290,464	301,314	1938.	865,302	118,751	483,840	262,711
1928.	754,625	151,290	310,159	293,176	1939.	885,299	122,681	509,133	253,485

No. 858. DISTILLED SPIRITS, WINES, FERMENTED MALT LIQUORS, AND CEREAL BEVERAGES—PRODUCTION, TAX-PAID WITHDRAWALS, AND IMPORTS

YEAR ENDED JUNE 30—	Distilled spirits (thous. gal- lons) 1	Still wines (thous. wine gal- lons) 2	Spar- klings (thous. half-pint units) 3	Rectified spirits and wines (thous. proof gallons)	Fermented malt liquors (thous. bar- rels) 4	Cereal beverages (thous. bar- rels) 4
	Total	Exclusive of fruit brandy	Fruit brandy			
Production; 6			a			
1905.	153,259	147,811	5,449		105,290	49,522
1910.	163,894	156,238	7,656		99,919	59,485
1915.	140,656	132,134	8,522		90,858	59,808
1918.	178,834	173,476	5,357		61,926	50,266
1920.	101,265	99,616	1,649		591	9,231
1925.	167,498	166,951	548	3,638	62	40
1928.	170,515	170,103	412	4,923	11	46
1929.	205,038	203,844	1,194	11,382	409	35
1930.	197,221	196,805	416	3,155	445	31
1931.	170,394	169,574	820	6,659	22	8
1932.	150,391	149,760	631	5,210	1	(7)
1933.	123,405	121,819	1,586	18,756	573	101,099
1934.	241,610	233,036	8,574	77,778	10,657	8
1935.	349,772	339,895	9,877	91,930	6,214	23,094
1936.	449,994	429,900	20,094	170,903	8,277	32,449
1937.	482,138	469,566	12,472	122,045	9,623	44,311
1938.	351,190	328,645	22,544	228,726	9,780	43,560
1939.	346,344	318,897	27,446	231,959	6,684	43,401
1940.	387,183	368,756	18,427	212,368	9,635	47,657
Withdrawals, tax-paid; 6						
1937	120,011	118,094	111,917	62,035	7,906	
1938.	114,926	113,220	11,706	61,176	7,223	
1939.	114,578	112,888	11,690	67,376	6,338	
1940.	128,326	126,749	1,577	82,177	8,377	
Imports for consumption:						
1938.	1313,856	1318,155	13701	3,054	14543	436
1939.	1310,824	1310,123	13700	3,157	514	324
1940.	1312,039	1311,156	13883	3,898	644	370

In computing taxable gallons all fractional parts of a proof gallon less than one-tenth are excluded.

1 Production represents the amount removed from fermenters including wine that is removed for use as distilling material in the production of brandy.

3 Includes artificially carbonated wine. Tax is payable "on each one-half pint (for artificially carbonated on each pint) beginning June 26, 1936" or "fraction thereof" of each bottle or other container."

Barrels of not more than 31 gallons. 5 Containing less than one-half of 1 percent alcohol by volume. Includes data for Alaska, Hawaii, and Puerto Rico.

No data compiled by Bureau of Internal Revenue. 8 No legal production.

Includes 1,588,788 barrels produced prior to Apr. 7 (effective date of the Act of Mar. 22, 1933).

Alcoholic content limited to 3.2 percent by weight from Apr. 7 to Dec. 5, 1933.

Does not include brandy withdrawn for the fortification of wine.

withdrawals; tax law repealed,

May 10, 1934.

13 In thousands of proof gallons.

14 In thousands of wine gallons.

et cetera figures not available.

Source of tables 857 and 858: Treasury Department, Bureau of Internal Revenue; Annual Report of the Commissioner, Imports, Department of Commerce, Bureau of Foreign and Domestic Commerce; Monthly Summary of Foreign Commerce of the U. S.

No. 859.-- DENATURED ALCOHOL: 1910 TO 1940

YEAR ENDED JUNE 30--	Alcohol produced at industrial alcohol plants 2		Ethylalcohol Withdrawn for denaturation 3		DENATURED ALCOHOL PRODUCED		
	Proofgallons	Denaturing plants	Proofgallons	Completely denatured	Specially denatured	Total	
1910-		12	10,605,871	3,076,925	3,002,103	5,079,027	
1915-		23	25,411,719	5,386,647	8,599,822	13,986,469	
1920-	18,933,551	52	45,640,949	13,528,403	15,307,947	28,836,350	
1925-	166,165,518	91	152,254,039	26,983,970	34,824,303	31,808,273	
1929	202,616,750	79	186,045,935	53,295,717	54,623,207	107,919,924	
1930-	193,823,717	68	185,000,827	59,063,510	47,713,468	106,776,978	
1931-	168,109,617	61	152,606,700	50,000,627	37,414,521	87,415,148	
1932-	146,950,913	50	136,388,865	35,002,096	44,541,336	79,543,432	
1933-	115,609,754	43	107,557,981	27,275,071	35,800,271	63,075,342	
1934-	155,103,582	41	139,581,129	27,174,311	55,067,092	82,241,403	
1935-	280,645,920	39	155,233,505	38,745,679	33,234,395	97,031,074	
1936-	196,126,236	37	174,357,295	36,522,358	54,955,485	101,477,843	
1937-	223,181,228	45	181,034,322	22,118,378	60,084,281	102,202,659	
1938-	201,033,858	43	165,848,246	25,598,717	69,009,024	94,607,741	
1939-	201,017,546	38	177,356,688	17,179,433	83,561,077	100,740,510	
1940-	243,727,756	40	225,160,792	25,352,033	111,409,797	125,761,830	

Includes data for Eawai for all years and data for Puerto Rico beginning with Aug. 1, 1928.

Separate accounts for alcohol produced industrial alcohol plants required commencing May 1, 1920.

: Figures include rum and spirits produced in distilleries for denaturation.

Source: Treasury Department, Bureau of Internal Revenue; Annual Report of the Commissioner.

No. 860. ETHYL ALCOHOL OTHER DISTILLED SPIRITS, EXCEPT BRANDY MATERIALS USED IN PRODUCTION, BY KINDS: 1901 TO 1940

YEAR ENDED JUNE 30--	Molasses (thousand gallons)	GRAIN THOUSAND BUSHELS)				ETHYL SULPHATE	PINE-APPLE JUICE	OTHER MATERIALS 2	
		Corn	Malt	Rye	Otheri	Thousand gallons		Thousand gallons	Thousand pounds
1901-	3,165	18,867	3,274	5,086	52				
1902-	12,485	18,474	3,361	5,585	68				
1903-	15,544	20,598	3,754	5,873	72				
1904-	18,549	19,149	3,455	5,024	50				
1905-	20,550	20,593	3,799	5,489	47				
1906-	22,638	20,002	3,759	5,596	36				
1907-	25,723	23,475	4,440	6,251	46				
1908-	28,945	17,384	2,975	3,756	32				
1909-	33,550	13,081	3,221	1,364	22				
1910-	42,293	20,547	3,705	5,043	33				
1911-	44,363	23,247	4,053	5,376	91				
1912-	61,605	23,017	4,076	5,600	85				
1913-	64,641	23,848	4,253	5,828	110				
1914-	64,721	21,316	3,939	5,342	83				
1915-	123,301	14,260	2,357	2,441	80				
1916-	80,977	32,070	4,481	3,117	82				
1917-	112,498	33,973	4,240	2,375	81			71,165	
1918-	118,028	14,545	1,690	249	172			78,463	
1919-	123,499	3,890	573	25	86			68,527	
1920-	113,133	1,058	215	50	52			9,801	
1921-	119,053	4,890	914	188	29			19,327	
1922-	97,223	3,093	816	85	1			31,101	
1923-	148,711	3,106	831	5				74,705	
1924-	155,001	4,847	1,153	91	20			32,543	12
1925-	203,270	7,201	1,071	97	11			35,525	155,756
1926-	267,404	7,948	550	13	12			37,824	112,392
1927-	211,519	8,383	505					44,508	46,885
1928-	213,630	6,194	453	7	9			40,942	49,469
1929-	268,045	9,802	370	8				56,795	79,576
1930-	235,797	9,966	666	208	33	1,274		53,884	53,038
1931	187,790	2,454	643	6,385	28	10,072	5,768	21,601	65,535
1932-	161,295	4,848	506	218	332	11,146	4,235	19,302	30,344
1933-	117,939	5,818	560	564	6	8,943	5,544	15,072	20,377
1934-	174,031	10,362	2,515	4,509	48	9,568	7,491	6,772	30,265
1935-	195,266	19,100	4,810	10,856	55	13,699	5,317	1,672	23,797
1936-	179,123	31,825	6,650	12,835	66	24,403	6,790	1,190	28,247
1937-	208,071	36,242	6,916	11,633	65	25,493	3,598	8,092	678
1938-	166,722	19,827	3,690	6,055	48	26,577	2,007	12,248	982
1939	163,223	18,087	3,275	5,495	61	35,389	1,594	27	456
1940-	198,929	18,911	3,302	5,614	42	45,786	3,256	26,177	1,254
								13,801	12,644

Wheat, barley, rice, etc.; also mixtures of corn, malt, and rye.

: Diamalt, sulphite liquor, manioca meal, maguey juice, maple sirup, cider, corn sirup, potatoes, crude alcohols mixture, cellulose pulp and chemical mixtures, etc.

Source: Treasury Department: 1901 to 1933, Bureau of Industrial Alcohol; Statistics Concerning Intoxicating Liquors. 1934 and subsequent years, Bureau of Internal Revenue; annual and special reports.

No. 861.— MOTION-PICTURE PRODUCTION SUMMARY: 1921 TO 1937

NOTE.— All money figures are in thousands of dollars. Data represent the activities of the motion-picture studios and laboratories. They do not include the distribution of films and their projection in theatres. No data are included for establishments which reported less than \$5,000 as the cost of work done. The motion-picture industry has been canvassed, since 1921, in connection with the Biennial Census of Manufactures. It is not, however, a manufacturing industry, but was treated as such prior to 1931.

YEAR AND STATE	Num- ber of estab- lish- ments	PERSONS ENGAGED		SALARIES AND WAGES		Cost of contract work	Cost of studio supplies, fuel, etc.1	Cost of produc- tion
		Salaried officers and em- ployees	Wages earners (average for year)	Salaries	Wages			
		UNITED STATES						
1921.	127	4,400	6,259	22,953	14,740	563	31,190	77,397
1923.	97	3,496	5,408	21,824	15,601	1,609	30,657	86,418
1925.	132	5,945	5,573	35,951	13,066	5,369	33,258	93,636
1927.	142	7,598	8,415	56,299	18,637	15,477	34,867	134,343
1929.	142	8,818	10,784	60,168	24,860	11,312	38,441	134,102
1931	140	214,339		270,637		12,016	32,222	154,436
1933.	92	38,260	10,777	352,948	18,395	4,028	26,153	119,343
1935.	129	12,675	14,917	79,743	24,686	5,145	29,541	161,865
1937.	83	15,845	18,779	104,324	35,264	7,013	35,575	197,741
STATES, 1937								
California.	35	14,007	16,398	101,419	31,533	5,175	25,330	171,943
Los Angeles.	24	6,787	8,558	52,231	16,500	1,454	17,027	87,765
Remainder of State-	11	7,220	7,840	19,189	15,033	3,721	8,302	84,178
Illinois	7	67	89	136	117	14	146	481
New York.	21	1,421	1,462	2,039	2,478	1,586	5,206	16,378
Other States.	20	350	830	730	1,137	237	4,893	8,939

PRODUCTS, BY KIND AND COST, AND RECEIPTS FOR WORK DONE

	1931	1933	1935	1937		1931	1933	1935	1937
Total cost of work done—	154,436	119,343	161,865	197,741	Unfinished productions, cost.	14,729	14,581	15,684	33,075
Negative films, cost.	103,560	82,280	118,673	131,755	Laboratory work:				
Theatrical:					Positive films, cost.	12,556	7,625	6,046	8,218
Number.	1,227	1,059	1,094	3,942	Receipts for work done for others.	14,332	11,835	15,089	15,318
Cost.	100,065	77,536	110,975	126,039	Value of other work done.	2,802	1,520	1,818	3,468
News, cost.	3,422	4,576	44,940	44,540	Receipts for use of studio facilities.	1,457	1,502	4,554	5,907
Advertising, cost.	3,664								
Educational, cost.	409	1685	2,434	41,176					
Other films, cost.									

Includes cost of studio supplies, containers for films, fuel, and purchased electric energy.

: Data cover "productive employees" only. These include all wage earners and a part, but not all, of the salaried employees. Figures are not, therefore, comparable with either the wage-earner figures or with total number of persons engaged. Data for other years cover all classes of employees.

Does not include data for salaried officers of corporations.

— Combined to avoid disclosing approximations of data for individual establishments.

Source: Department of Commerce, Bureau of the Census; Biennial Census report, Motion Pictures

No. 862.-- PATENT APPLICATIONS, CAVEATS FILED, AND PATENTS AND CERTIFICATES OF REGISTRATION ISSUED SINCE INITIATION OF THE PATENT SYSTEM: 1836 TO 1939

NOTE.--The number of patents granted prior to July 28, 1836, 9,957. Data include patents issued to citizens of the United States and residents of foreign countries

CALENDAR YEAR OR PERIOD	Patent applica- tions 1	Cave- ats filed 2	PATENTS ISSUED				CERTIFICATES OF REGISTRATION ISSUED				
			Total	Patents	Designs	Reis- sues	Total	Trade- marks	Trade- mark renew- als	Labels	Prints
1836-18503	414,062	44,763	8,387	7,864	5340	6183					
1851-1860.	44,302	9,571	25,087	23,140	1,025	922					
1861-1870.	128,763	22,228	85,910	79,612	3,181	3,117	7121	7121			
1871-1880.	206,436	29,350	138,355	125,520	7,535	5,300	10,395	8,017		82,378	
1881-1890.	352,475	25,012	217,821	207,850	8,357	1,614	14,660	10,636		4,024	
1891-1900.	410,049	21,199	234,956	220,840	13,374	742	18,794	16,903		1,606	10285
1901-1905.	253,417	9,168	148,291	143,791	3,953	547	18,590	12,768		4,579	1,243
1906-1910.	307,187	8,880	175,618	171,560	3,297	761	36,375	32,060		2,856	1,459
1911-1915.	350,937		194,387	186,241	7,295	851	32,381	27,369		3,522	1,490
1916-1920.	368,737		207,108	197,644	8,486	978	35,364	30,681		3,411	1,272
1921-1925	427,127		217,525	203,977	12,326	1,222	81,566	68,881	112,278	7,361	3,046
1926-1930.	459,904		234,857	219,384	13,796	1,677	96,729	71,469	12,067	8,736	4,457
1931-1935-	342,861		256,219	223,925	15,079	1,887	72,783	52,432	9,282	8,466	2,603
1904.	52,143	1,808	30,934	30,267	557	110	3,569	2,158		1,114	297
1905.	54,971	1,896	30,399	23,784	486	122	5,679	4,490		830	359
1906-	56,482	1,885	31,965	31,181	625	159	11,933	10,568		709	656
1907.	58,762	1,967	36,620	35,880	589	151	8,860	7,878		667	315
1908.	61,475	2,110	33,682	32,757	757	168	6,029	5,191		618	220
1909.	65,839	1,948	37,421	36,574	687	160	4,824	4,184		492	148
1910.	64,629	970	35,930	35,168	639	123	4,720	4,239		370	120
1911.	69,121		34,084	32,917	1,010	157	5,112	4,205		659	248
1912.	70,976		37,731	36,231	1,342	158	5,896	5,020		633	243
1913.	70,367		35,788	33,941	1,683	164	6,063	5,065		708	290
1914.	70,404		41,850	39,945	1,715	190	7,874	5,817		719	338
1915.	70,069		44,934	43,207	1,545	182	7,436	6,262		803	371
1916.	71,033		45,927	43,970	1,759	198	8,087	6,791		864	432
1917.	70,373		42,760	41,059	1,512	179	6,197	5,339		613	245
1918.	59,800		39,941	38,569	1,207	165	4,912	4,061		654	197
1919.	80,638		38,598	36,872	1,523	203	4,874	4,208		520	146
1920.	86,893		39,882	37,164	2,485	233	11,294	10,282		760	252
1921.	93,395		41,401	37,885	3,277	239	13,605	11,654		1,485	466
1922.	89,028		40,297	38,414	1,627	256	14,992	12,793		1,612	587
1923.	79,189		40,787	38,634	1,927	226	16,725	14,845		1,261	619
1924.	80,888		45,500	42,594	2,671	235	17,562	15,749		1,278	535
1925.	84,627		49,540	46,450	2,824	266	18,682	13,840	2,278	1,725	839
1926.	86,116		47,627	44,750	2,602	275	21,819	14,964	4,282	1,686	887
1927.	92,122		44,444	41,731	2,387	326	20,548	14,586	3,063	1,807	1,092
1928.	92,725		45,899	42,376	3,188	335	19,084	14,142	2,049	1,921	972
1929.	94,738		48,565	45,284	2,907	374	18,087	14,526	1,008	1,711	842
1930-	94,203		48,322	45,243	2,712	367	17,191	13,251	1,665	1,611	664
1931.	84,423		55,103	1251,771	2,937	395	15,328	11,407	1,643	1,683	595
1932.	71,864		56,856	1253,519	2,944	393	13,196	9,613	1,687	1,443	453
1933.	60,633		51,563	1248,819	2,411	333	12,758	9,140	1,665	1,470	483
1934.	61,572		47,753	1244,461	2,921	371	16,063	11,375	2,407	1,786	495
1935.	64,369		44,944	1240,683	3,866	395	15,438	10,897	1,880	2,084	577
1936.	69,585		44,820	1239,842	4,556	422	14,804	10,732	1,886	1,740	446
1937	72,984		43,271	237,750	5,137	384	15,276	11,254	1,524	1,850	539
1938.	75,429		43,493	1238,117	5,027	349	13,564	10,212	1,051	1,762	648
1939.	71,689		49,080	1343,135	5,593	352	14,337	10,526	1,399	1,807.	605

include patents for inventions, designs, and reissues of patents. Includes applications without fees. Caveat law repealed June 25, 1910.

Data are for period from July 28, 1836, to Dec. 31, 1850, except as otherwise specified.

Data are for years beginning 1840; records prior to this date are not available.

Data are for years beginning 1843.

Data are for years beginning 1838.

Data are for the year 1870.

Data are for 7 years beginning 1874.

Registration of labels suspended from May 27, 1891, to June 9, 1896.

Data are for years; first print registered Mar. 7, 1893.

Data are for years beginning 1925.

Figures include plant patents issued since law passed May 23, 1980, as follows: 5 in 1931; 46 in 1932; 1933; 32 in 1934; 45 in 1935; 49 in 1936; 55 in 1937; 41 in 1938; 45 in 1939.

Source: Department of Commerce, United States Patent Office; records (not published elsewhere).

Fiscal year figures published in Annual Report of the Secretary.

33. DISTRIBUTION, SERVICES, AND HOTELS

[Data in this section relate to continental United States]

No. 863.— MANUFACTURERS' SALES—DISTRIBUTION, BY PRIMARY CHANNELS, BY INDUSTRY GROUPS: 1929 AND 1935

NOTE.—Figures do not cover sales or distribution expenses of manufacturers' own wholesale branches or retail stores, which are covered in data for wholesale trade and retail trade, respectively. Figures were not compiled for industries: (1) Where no outside sales were made, the plants being maintained for the purpose of making repairs, such as railroad repair shops; (2) where sales were made direct to users, the value of products in most instances comprising the sale of services, such as engraving and lithographing Industries; (3) in which the plants were engaged, for the part, in performing labor on materials owned by others so that their sales represented the sales services rather than commodities, such as electroplating and galvanizing industries; and (4) where the plants of one organization so dominated that to show distribution of sales figures would disclose individual operations. The following table is limited to industries which are directly comparable in 1929 and 1935, while table 864 covers all industries for which 1935 data were compiled

[Amount of sales in thousands of dollars a]

INDUSTRY GROUP	TOTAL DIS- TRIBUTED SALES, 1935		1935 DISTRIBUTED SALES OF INDUS- TRIES COMPARABLE WITH 1929		PERCENT OF DISTRIBUTED SALES MADE TO—				
	Amount	Num- ber of plants	Amount	Num- ber of plants	Own wholesale branches		Industrial users		
					1929	1935	1929	1935	
All industries.	38,175,470	134,286	26,328	26	91,688	18.0	20.6	26.0	24.6
Food and kindred products.	9,450,989	47,992	8,084	630	40,159	24.6	21.5	6.9	7.9
Textiles and their products.	5,323,427	16,665	1,111	209	4,679	5.8	4.8	13.0	16.9
Forest products.	1,528,578	15,661	1,436	220	15,309	4.5	5.9	38.8	32.0
Paper and allied products	1,291,557	2,919	1,291	557	2,919	3.8	5.8	51.8	54.9
Chemicals and allied products.	2,583,174	7,269	1,028	492	3,353	12.2	20.2	33.5	30.9
Petroleum and coal products	1,831,104	676	1,665	073	415	60.11	64.3	8.5	10.0
Rubber.	655,995	467	655	995	467	41.7	43.0	25.9	29.3
Leather and its manufactures.	1,166,286	3,380	1,056	611	2,745	21.3	20.4	14.5	18.4
Stone, clay, and glass products.	885,533	5,629	577	924	3,547	4.9	28.3	36.3	31.6
Iron and steel and their products.	3,532,059	6,363	2,905	447	3,589	5.9	21.3	55.8	59.8
Nonferrous metals and their products.	1,560,844	4,757	697	858	2,859	5.9	6.8	56.3	61.1
Machinery.	3,243,366	10,692	1,175	801	3,216	17.8	20.1	41.9	44.5
Transportation equipment.	2,913,924	1,133	2,876	030	1,012	17.0	19.4	24.3	21.8
Miscellaneous.	2,208,634	10,682	1,765	422	7,419	5.9	4.4	9.0	6.6

INDUSTRY GROUP	PERCENT OF DISTRIBUTED SALES MADE TO—con.								PERCENT OF DISTRIBUTED SALES	
	Wholesale jobbers		Own retail stores		Retailers		Household consumers		NEED- BROUGHT AGENTS, ETC.	
	1929	1935	1929	1935	1929	1935	1929	1935	1929	1935
All industries.	31.8	27.3	2.4	2.2	20.0	22.9	1.8	2.4	7.4	8.3
Food and kindred products.	31.6	28.5	3.2	3.8	29.2	33.2	4.5	5.1	12.1	14.0
Textiles and their products.	22.4	15.3	4.65	5.1	50.8	55.3	3.4	2.6	4.8	5.9
Forest products.	30.2	27.1	1.2	1.3	24.5	29.6	.8	4.1	12.1	15.1
Paper and allied products	39.1	32.4			5.3	6.8	(4)	.1	8.0	5.5
Chemicals and allied products.	39.1	31.0	.5	.3	12.7	15.3	2.0	2.3	16.1	14.6
Petroleum and coal products.	18.6	19.6	7.6	4.4	5.2	1.6	(1)	.1	2.4	1.3
Rubber.	16.1	15.9	.5	2.7	15.6	9.0	.2			2.1
Leather and its manufactures.	25.0	16.7	3.7	2.7	35.1	41.65	.4	.21	2.4	7.3
Stone, clay, and glass products.	49.8	18.8	.1	.3	6.2	16.9	2.7	4.1	8.3	7.4
Iron and steel and their products.	34.1	13.4	.3	.3	3.9	4.8			6.5	
Nonferrous metals and their products.	27.8	20.6	.3	.2	8.2	10.4	(0.5)	.19	4.4	6.9
Machinery.	29.0	24.6	4.4	2.9	6.7	7.4	.2	.5	6.9	8.5
Transportation equipment.	27.5	26.3	1.9	.4	29.1	31.4	.2		1.0	
Miscellaneous.	67.0	72.6	.6	.6	14.8	13.9	2.7	1.9	2.7	2.6

1 Less than one-tenth of 1 percent.

Source: Department of Commerce, Bureau of the Census; Census of Business, 1935, Distribution of Manufacturers' Sales.

No. 864. MANUFACTURERS SALES-PRIMARY CHANNELS OF DISTRIBUTION AND DISTRIBUTION EXPENSES, BY INDUSTRY GROUPS:1935

[Sales and distribution expenses in millions and tenths of millions of dollars. See headnote, table 863]

	All-in- dustries	Food and kindred prod- ucts	Textiles and prod- ucts	Forest prod- ucts	Paper and allied prod- ucts	Print- ing and pub- licat- ing	Chem- icals and allied prod- ucts	Prod- ucts of petro- leum and coal
SALES BY CHANNELS OF DISTRIBUTION								
Plants reporting.	134,392	47,992	16,665	15,661	2,919	107	7,269	676
Total net sales.	43,801.2	10,489.5	5,870.1	11,694.1	1,521.7	41.0	2,863.2	2,148.2
Total distributed sales.	38,212.9	9,451.0	5,323.4	11,528.6	1,291.6	37.4	2,583.2	1,831.1
To own wholesale branches.	7,499.5	2,014.2	384.8	101.6	74.9		848.3	1,117.9
Percent of total sales.	17.1	19.2	6.5	6.0	4.8		29.7	51.9
To industrial and other large users.	10,742.3	711.8	1,307.0	506.4	708.3	19.4	805.4	231.3
Percent of total sales.	24.5	6.8	22.2	29.9	46.6	47.2	28.1	10.8
To wholesalers and jobbers.	10,134.4	2,900.1	1,403.7	415.5	418.8	6.9	548.8	360.8
Percent of total sales.	23.2	27.6	23.9	24.5	27.5	16.8	19.2	16.8
To own retail stores.	629.1	312.3	70.1	18.0			17.6	72.8
Percent of total sales.	1.5	3.0	1.2	1.1			.6	3.4
To retailers.	8,412.1	3,048.7	2,092.8	427.7	88.0	7.1	308.5	40.6
Percent of total sales.	19.2	29.1	35.7	25.2	5.8	17.3	10.8	1.9
To household consumers.	795.5	464.0	65.0	59.4	1.5	4.1	54.5	7.9
Percent of total sales.	1.8	4.4	1.1	3.5	.1	9.9	1.9	.4
Interplant transfers.	4,350.8	776.0	335.9	96.2	210.8	1.0	204.3	204.0
Percent of total sales.	9.9	7.4	5.7	5.7	13.9	2.5	7.1	9.5
Sales not allocated.	1,237.6	262.5	219.7	69.3	19.4	2.6	75.8	113.1
Percent of total sales.	2.8	2.5	3.7	4.1	1.3	6.3	2.6	5.3
Percent of total sales made through—								
Own sales organizations.	91.0	88.1	78.3	86.3	95.4	98.3	90.3	97.7
Agents, brokers, etc.	9.0	11.9	21.7	13.7	4.6	1.7	9.7	2.3
DISTRIBUTION EXPENSES								
Plants reporting.	53,623	17,735	8,197	4,516	1,353	13	3,071	249
Net sales.	21,417.6	6,313.2	2,853.3	871.3	768.2	7.4	1,137.3	277.5
Distribution expenses, total.	2,006.5	594.8	249.0	99.7	65.3	.7	172.4	20.2
Percent of sales.	9.4	9.4	8.7	11.4	8.5	8.8	15.25	7.4
Distribution pay roll.	883.0	261.2	127.6	47.8	30.7	.4	66.85	7.2
Percent of sales.	4.1	4.1	4.5	5.5	4.0	6.0	5.9	2.6
	Rub- ber prod- ucts	Leather and its manu- factures	Stone, clay, and glass prod- ucts	Iron, and steel and prod- ucts	Non- ferrous metals and prod- ucts	Ma- chinery and equip- ment	Trans- porta- tion equip- ment	Mis- cella- neous
SALES BY CHANNELS OF DISTRIBUTION								
Plants reporting.	467	3,380	5,629	6,363	4,757	10,692	1,133	10,682
Total net sales.	695.9	1,281.1	950.5	4,260.4	1,627.1	981.34	142.02	2,275.9
Total distributed sales.	656.0	1,166.3	885.5	3,532.1	1,560.8	3,243.42	101.2	2,025.5
To own wholesale branches.	282.0	230.8	252.5	681.4	152.7	651.7	558.1	148.4
Percent of total sales.	40.6	18.05	26.5	16.0	9.4	16.6	13.5	6.5
To industrial and other large users.	192.2	257.0	302.1	2,139.7	1,077.6	1,566.1	645.9	272.2
Percent of total sales.	27.6	20.1	31.8	50.2	66.2	39.9	15.6	12.0
To wholesalers and jobbers.	104.6	192.2	172.9	501.9	203.9	750.8	764.3	1,389.2
Percent of total sales.	15.0	15.0	18.2	11.8	12.5	19.1	18.5	61.1
To own retail stores.	17.41	29.5	1.63	8.81	3.0	52.2	12.5	13.3
Percent of total sales.	2.5	2.3	.2	.2	.2	1.3	.3	.6
To retailers.	59.0	454.2	128.1	186.1	110.1	201.5	913.1	346.7
Percent of total sales.	8.5	35.4	13.5	4.4	6.8	5.1	22.0	15.2
To household consumers.	.7	2.5	28.2	14.1	13.7	20.9	20.0	38.9
Percent of total sales.	.1	.2	3.0	.3	.8	.5	.5	1.7
Interplant transfers.	22.5	84.8	41.1	667.1	49.6	552.91	106.0	43.8
Percent of total sales.	3.2	6.61	4.3	15.7	3.11	14.1	25.6	1.9
Sales not allocated.	17.4	30.0	23.9	61.2	16.6	135.0	167.5	23.4
Percent of total sales.	2.5	2.4	2.5	1.4	1.0	3.4	4.0	1.0
Percent of total sales made through—								
Own sales organizations.	98.0	93.5	93.8	95.3	95.6	93.0	99.4	97.5
Agents, brokers, etc.	2.0	6.5	6.2	4.7	4.4	7.0	.6	2.5
DISTRIBUTION EXPENSES								
Plants reporting.	259	1,589	1,944	2,941	1,939	4,721	540	4,556
Net sales.	517.7	598.3	373.4	1,606.8	640.1	2,266.61	993.3	2,203.5
Distribution expenses, total.	40.2	53.5	43.7	130.5	58.4	263.7	63.7	150.4
Percent of sales.	7.8	8.9	11.7	8.1	9.11	11.7	3.2	12.5
Distribution pay roll.	14.1	26.1	21.4	60.3	28.4	110.4	23.6	56.9
Percent of sales.	2.7	4.4	5.7	3.8	4.4	4.9	1.21	4.7
1 Or not distributed through usual channels. 2 Including payroll. 3 Air, land, and water.								

Source: Department of Commerce, Bureau of the Census; Census of Business, 1935, Distribution of Manufacturers' Sales.

No. 865. WHOLESALD TRADE

NOTE.—Figures for 1929 and 1935 are

(Sales, expenses, pay roll, and

DIVISION AND STATE	NUMBER OF ESTABLISHMENTS			NET SALES			Active proprietors and firm members, 1935	EMPLOYEES (FULL TIME AND PART TIME), AVERAGE FOR YEAR 1	
	1929	1933	1935	1929	1933	1935		1929	1933
United States.	168,820	163,583	176,756	66,953,024	39,009,590	42,802,913	97,225	1,510,494	1,187,688
New England:									
Maine.	9,756	8,592	9,580	4,005,910	1,867,712	2,528,497	5,166	106,152	74,454
New Hampshire	986	860	970	175,853	98,462	127,840	504	7,214	5,957
Vermont.	325	334	363	60,500	38,074	54,069	172	2,265	2,244
Massachusetts.	308	300	344	57,393	41,751	53,567	140	1,898	2,153
Rhode Island.	6,038	5,125	5,739	2,948,372	1,334,893	1,806,346	3,215	70,142	46,630
Connecticut.	734	577	683	275,357	128,808	180,597	369	7,516	5,352
Middle Atlantic.	1,365	1,396	1,481	488,435	225,724	306,078	766	17,117	12,118
New York.	38,045	34,170	40,382	22,702,703	10,364,095	14,206,625	25,436	410,399	301,563
New Jersey.	25,202	21,825	26,915	17,143,753	7,856,469	10,346,966	16,626	274,699	199,067
Pennsylvania.	2,334	2,682	3,025	935,521	492,270	708,645	1,570	26,578	24,196
East North Central.	10,509	9,663	10,452	4,623,429	2,015,356	2,741,012	7,240	109,122	78,300
Ohio.	32,058	34,442	35,638	13,445,712	5,785,417	8,709,015	19,732	334,833	242,322
Indiana.	8,035	8,286	9,086	2,925,525	1,367,382	2,028,552	5,323	79,075	64,450
Illinois.	3,726	4,229	4,333	888,816	396,107	654,917	2,183	24,311	20,781
Michigan.	11,556	11,898	12,009	6,675,726	2,715,156	3,937,609	6,611	158,043	94,828
Wisconsin.	5,239	5,791	6,065	2,027,341	827,256	1,410,767	3,580	44,584	37,638
West North Central.	3,502	4,238	4,145	928,304	479,516	677,170	2,035	28,820	24,625
Minnesota.	28,629	29,115	29,526	8,454,665	3,506,267	4,786,928	13,745	187,276	144,897
Iowa.	5,243	5,178	5,695	1,667,535	853,931	1,188,413	2,585	36,054	31,836
Missouri.	4,946	5,250	5,063	1,043,316	451,730	627,795	2,619	26,748	22,142
North Dakota.	6,649	6,085	6,691	3,306,536	1,354,198	1,811,544	3,740	77,329	52,260
South Dakota.	2,618	2,435	2,435	261,131	93,280	133,808	588	5,917	4,852
Nebraska.	1,972	1,755	1,899	236,095	73,264	99,262	534	5,352	4,602
Kansas.	2,886	3,409	3,122	1,053,441	387,601	527,719	1,603	16,882	14,644
South Atlantic.	4,315	5,003	4,621	886,611	292,279	398,387	2,076	18,994	14,561
Delaware.	15,592	14,507	15,367	4,485,643	2,338,443	3,406,153	8,546	122,330	116,631
Maryland.	2,861	259	262	118,087	59,182	106,300	148	2,118	1,700
Dist. of Columbia.	2,198	2,224	2,316	711,412	386,450	496,017	1,744	21,712	18,906
Virginia.	492	568	629	223,401	144,119	242,729	327	6,756	6,886
West Virginia.	2,331	2,370	2,123	621,139	325,155	502,951	1,065	20,139	20,560
North Carolina.	1,127	1,178	1,251	341,433	185,532	251,076	617	10,047	8,260
South Carolina.	2,403	2,356	2,458	695,118	393,370	555,396	1,460	15,745	17,856
Georgia.	1,539	1,242	1,422	353,528	172,062	267,122	809	6,113	5,591
Florida.	3,175	2,269	2,667	997,447	409,362	605,272	1,371	21,275	16,237
East South Central.	2,041	2,041	2,239	444,078	263,211	399,290	1,005	18,725	20,635
Kentucky.	7,719	6,806	7,594	2,496,685	975,830	1,609,657	4,329	58,388	50,168
Tennessee.	2,024	2,001	2,057	500,389	255,260	379,597	1,240	17,725	15,820
Alabama.	2,246	1,960	2,626	1,044,945	374,365	745,609	1,536	20,981	17,769
Mississippi.	1,737	1,601	1,568	566,403	203,657	304,549	920	13,428	10,547
West South Central.	1,712	1,244	1,243	384,948	142,548	179,902	633	6,254	6,032
Texas.	17,526	15,053	15,056	4,739,143	1,919,042	2,696,574	7,618	99,104	84,155
Arkansas.	2,045	1,292	1,504	366,510	117,729	180,309	747	7,797	6,842
Louisiana.	1,726	2,094	2,131	830,965	449,211	580,260	938	17,037	19,375
Oklahoma.	4,168	4,169	3,668	769,696	297,877	404,465	1,792	18,268	14,333
Mountain.	9,587	7,498	7,753	2,771,972	1,054,225	1,531,540	4,141	56,002	43,605
Montana.	5,777	5,868	6,413	1,173,657	543,240	847,030	2,323	32,398	29,516
Idaho.	1,243	1,239	1,254	158,227	73,790	121,641	225	4,133	3,764
Wyoming.	673	764	954	97,157	50,537	82,195	360	3,271	3,063
Colorado.	283	349	337	34,661	19,117	25,698	123	871	950
New Mexico.	2,075	1,814	1,884	539,626	232,374	324,382	830	13,869	
Arizona.	3151	447	397	53,143	27,730	45,579	141	1,257	11,957
Utah.	356	467	541	97,024	45,654	78,046	239	2,976	2,903
Nevada.	736	649	888	180,101	84,275	154,189	357	5,544	
Pacific.	96	139	158	13,718	9,763	15,300	48	477	4,995
Washington.	13,718	15,030	17,190	5,478,906	2,709,544	3,922,436	10,330	159,314	
Oregon.	2,588	2,704	3,233	959,164	418,802	603,740	1,206	27,795	132,992
California.	1,437	1,326	1,615	465,196	196,445	343,443	674	14,055	10,798
	9,693	11,000	12,342	4,054,546	2,094,297	2,975,253	8,450	117,464	110,590

Figures for 1933 and 1935 are monthly averages, while those for 1929 are quarterly averages.

Includes compensation for proprietors and firm members of unincorporated businesses.

Includes stocks not owned but held on consignment, valued

\$124,872,000.

SUMMARY, BY STATES: 1929, 1933, AND 1935

adjusted to the scope of the 1935 census

stocks in thousands of dollars)

EMPLOYEES i continued		Operat- ing ex- penses, in- clud- ing pay roll, 1935	PAYROLL 2						Stocks on hand (end of year), 1935 3	DIVISION AND STATE	
1935 4			1935, as reported 4				1935 total, adjusted 4				
As re- ported	Ad- justed		1929	1933	Total	Full- time		Part- time			
1,260,553	1,277,717	116,348	2,962,774	1,664,872	2,022,262	51,976	337	45,925	204,483	106,609	U. S.
81,521	82,271	265,606	203,583	113,526	134,822	132,266	2,556	135,916	189,384		N.E.
6,271	6,430	17,225	11,202	7,675	8,427	8,215	212	8,656	13,208		Maine.
2,149	2,261	6,562	3,667	2,895	3,044	2,979	65	3,201	4,686		N.E.
2,158	2,313	7,295	2,899	2,750	2,952	2,895	57	3,165	4,727		Vt.
51,888	52,110	173,736	143,777	74,930	90,110	88,480	1,630	90,444	122,483		Mass.
6,328	6,339	21,307	14,534	7,717	9,936	9,738	1981	9,953	14,352		R.I.
12,727	12,818	39,481	27,504	17,559	20,353	19,959	394	20,498	29,928		Conn.
351,555	352,660	1,364,970	952,754	508,070	662,736	653,720	9,016	684,547	974,215		M.A.
243,120	243,700	1,005,722	683,265	360,628	487,139	481,271	5,868	488,157	752,525		N.Y.
26,836	26,560	90,195	54,648	35,420	43,225	42,537	688	43,521	51,624		N.J.
82,049	82,391	269,053	214,841	112,022	132,372	129,912	2,460	132,869	170,066		Pa.
262,920	265,150	836,217	676,977	345,139	428,040	419,809	8,231	432,053	501,319		E.N.C.
68,394	68,709	211,260	151,481	89,620	109,535	107,237	2,298	110,030	134,047		Ohio.
23,263	23,677	64,391	42,531	25,754	32,469	31,781	688	33,211	41,874		Ind.
104,740	105,047	355,797	338,305	146,420	182,989	180,093	2,896	183,574	195,190		Ill.
41,587	42,504	132,112	94,052	51,049	65,653	64,182	1,471	67,347	75,086		Mich.
24,936	25,213	72,657	50,518	32,296	37,394	36,516	878	37,891	55,122		Wis.
144,219	146,021	431,591	322,642	183,877	208,758	204,193	4,565	211,697	373,649		W.N.C.
32,079	32,332	102,970	62,428	41,992	49,564	48,505	1,059	49,988	112,222		Minn.
19,753	20,043	51,254	40,839	25,324	25,515	24,693	822	26,004	36,163		Iowa.
56,576	56,936	179,001	144,167	71,797	87,798	86,477	1,321	88,394	144,979		Mo.
4,935	5,067	14,334	9,935	5,815	6,395	6,194	201	6,639	12,635		N. Dak.
4,478	4,608	12,267	8,614	5,322	5,469	5,291	178	5,699	9,682		S. Dak.
13,672	13,948	37,672	28,047	17,196	17,892	17,399	493	18,253	29,167		Nebr.
12,726	13,087	34,093	28,612	16,431	16,125	15,634	491	16,720	28,801		Kans.
117,143	120,167	328,566	197,200	129,857	154,894	149,881	5,013	159,625	278,968		S.A.
1,899	1,917	10,061	3,778	2,357	3,175	3,110	65	3,201	7,057		Del.
19,164	19,266	51,880	32,752	21,529	25,456	24,787	669	25,585	31,981		Md.
8,274	8,274	23,993	12,666	10,042	13,819	13,641	178	13,819	13,088		D. C.
18,846	19,180	49,621	29,575	21,075	23,751	22,813	938	24,216	58,935		Va.
8,835	8,969	26,956	19,216	11,328	13,161	12,855	306	13,356	20,343		W. Ya.
16,980	17,676	43,795	25,679	17,782	20,456	19,212	1,244	21,687	61,499		N.O.
6,128	6,529	17,734	10,535	6,393	7,630	7,419	211	8,202	13,645		S.C.
18,444	19,345	58,005	36,728	20,431	25,601	25,016	585	26,995	43,285		Ga.
18,573	19,011	46,521	26,271	18,920	21,845	21,028	817	22,564	29,135		Fla.
51,445	53,513	136,436	94,377	54,773	65,345	62,976	2,369	68,569	130,068		E.S.d.
15,765	16,009	35,391	25,872	16,172	18,041	16,833	1,208	18,402	44,255		Ky.
19,929	20,461	57,258	34,434	19,893	27,226	25,517	709	27,945	50,555		Tenn.
10,675	11,293	29,750	23,551	12,481	14,201	13,909	292	15,212	22,832		Ala.
5,076	5,750	14,037	10,520	6,227	5,877	5,717	160	7,010	12,426		Miss.
80,237	84,557	251,415	167,831	100,777	107,293	104,690	2,603	113,638	267,675		W.S.C.
6,006	6,791	16,761	11,949	7,603	7,347	7,165	182	8,420	16,348		Ark.
17,372	17,925	55,493	29,252	23,315	23,873	23,332	541	24,557	75,265		La.
12,809	13,459	36,221	30,784	17,253	17,603	17,121	482	18,604	31,296		Okl.
44,050	46,382	142,940	95,846	52,606	58,470	57,072	1,398	62,057	144,766		Tex.
28,615	29,869	88,458	55,569	36,885	41,310	39,876	1,434	43,226	66,583		Mt.
4,040	4,070	11,988	6,979	4,852	5,904	5,724	180	5,947	13,172		Mont.
3,372	3,533	9,380	4,479	3,249	4,025	3,648	377	4,277	7,678		Idaho.
874	955	2,866	1,855	1,265	1,224	1,190	34	1,340	2,665		Wyo.
10,102	10,283	30,868	23,947	15,157	15,064	14,731	333	15,345	18,782		Colo.
1,433	1,691	4,585	2,313	1,933	2,065	2,029	365	2,415	5,355		N.Mex.
2,670	2,792	9,317	5,407	3,556	3,922	3,727	195	4,142	5,345		Ariz.
5,475	5,832	17,049	9,712	6,138	8,046	7,794	252	8,588	12,435		Utah.
6495	713	2,375	877	735	1,060	1,033	27	1,172	1,151		Nev.
142,898	143,509	460,221	291,841	186,583	219,064	208,926	10,138	220,212	324,743		Pac.
22,725	22,860	68,769	50,972	29,166	34,690	33,645	1,045	34,933	55,603		Wash.
11,316	11,423	36,550	24,056	14,342	17,625	17,075	550	17,826	31,202		Oreg.
108,857	109,226	354,902	216,813	143,075	166,749	158,206	8,543	167,453	237,943		Calif.

Employment and pay-roll data for commission bulk-tank stations are not included in the reported figures estimated as impracticable to obtain these data; for comparison with earlier years, estimates for commission bulk-tank stations are included in adjusted figures as follows: Employees, 17,164; pay roll, \$27,221,000.

Source: Department of Commerce, Bureau of the Census; Census of Business, 1935, Wholesale Distribution. Vol. I.

No. 866.-WHOLSALE TRADENET SALES, 1929 TO 1939; NUMBER OF ESTABLISHMENTS AND NET SALES, BY TYPE OF OPERATION, 1933 AND 1935

[Netsales in millions of dollars]

YEAR	NETSALES 1		TYPE OF ESTABLISHMENT	NUMBER OF ESTABLISHMENTS		NET SALES	
	Total wholesale trade	Full-service and limited-function wholesalers		1932	1935	1932	1935
1929.	68,913	28,899	Total.	163,583	176,756	30,010	42,803
1930.	56,963	23,023					
1931.	43,936	17,476	Full-service and limited-function wholesalers.	82,820	88,931	12,891	17,662
1932.	35,324	13,274					
1933.	31,442	12,891	Manufacturers sales branches with stocks.	12,409	11,634	4,965	7,446
1934.	36,950	14,710					
1935.	44,667	17,662	Manufacturers sales offices without stocks.	4,415	4,196	2,329	3,620
1936.	52,183	20,293					
1937.	58,020	22,220	Bulk-tank stations (petroleum)	26,174	27,333	1,786	2,704
1938.	(3)	19,023	Agents and brokers-	13,806	18,147	6,283	8,908
1939.	(3)	20,700	Assemblers.	23,959	26,515	1,756	2,463

1 Data for chain-store warehouses are included in totals in first column but are excluded from other figures in this table and from figures of wholesale trade appearing in other tables.

Figures adjusted to scope of 1935 Census of wholesale trade; no data included for chain-store warehouses. : No estimate made.

Source: For 1929, 1933, and 1935, Department of Commerce, Bureau of the Census; Census of 1935, Wholesale Distribution, Vol. I. For other years, estimates by Department of Commerce, Bureau of Foreign and Domestic Commerce; mimeographed reports.

No. 867. - WHOLESALE TRADE SUMMARY, BY TYPE OF OPERATION AND KIND OF BUSINESS: 1935

NOTE. Pay roll includes no compensation for proprietors and firm members of unincorporated businesses. Stocks include stocks not owned but held on consignment valued at 124,872,000

TYPE OF OPERATION AND KIND OF BUSINESS	Number of establishments	Netsales (thousands of dollars)	Operating expenses, including pay roll (thousands of dollars)	Active processors (full-time and part-time average for year)	Employment (thousands of men for year)	Total pay roll (thousands of dollars)	Stocks on hand, end of year (thousands of dollars)
Total.		176,756/42,802,915	18,509	1,261	24,832	1,022,262	3,106,608
Full-service and limited-function wholesalers.	88,931	5,012,253,476	58	759	556,162	276,067	649
Wholesale merchants.	78,271	14,446,316	1,041,741	164,685	674,098	1,008,833	1,662,289
Voluntary-group wholesalers.	1281	100,569	9,402	33	3,420	5,481	13,444
Converters.	5021	284,121	24,541	235	5,634	12,273	46,374
Exporters.	513	571,490	51,598	340	7,369	12,831	75,328
Importers.	2,241	1,068,234	98,475	1,313	21,834	46,461	147,738
Industrial distributors.	1,633	444,877	72,939	309	24,724	41,578	94,811
Drop shippers or desk jobbers-Mail-order wholesalers.	1,031	365,926	23,545	497	4,901	12,252	3,511
Kettaller-cooperative warehouses.	1891	13,984	3,226	151	1,188	1,339	2,116
Wagon distributors.	161	153,398	9,383		3,646	5,245	14,865
Manufacturers sales branches (with stocks)-	4,256	212,776	31,064	4,023	12,742	15,982	7,173
Manufacturers sales offices (without stocks)-	11,634	7,446,014	381,155	299	211,280	402,706	596,558
Bulk-tank stations (petroleum)	4,196	3,620,074	239,888	148	42,895	106,033	
Independent stations.	27,333	2,704,047	391,095	3,546	(1).	(1)	157,687
Chain-operated stations.	3,88C	298,627	37,147	3,075	12,901	17,460	13,667
Commission stations.	17,017	2,002,546	284,859	471	78,258	129,461	122,718
Agents and brokers.	6,436	402,874	69,089		(1)	(1)	21,302
Auction companies.	18,147	8,908,076	256,749	14,950	68,285	129,866	89,565
Brokers-	609	382,857	10,692	630	6,585	6,094	2,716
Commission merchants.	3,922	2,889,546	39,411	3,255	9,885	20,396	16,810
Export agents.	3,135	2,662,491	67,364	2,818	18,298	34,104	30,486
Import agents.	496	276,506	14,638	305	3,851	6,382	3,802
Manufacturers' agents.	335	212,573	10,357	207	1,272	3,134	5,478
Selling agents.	7,548	768,619	44,092	5,557	14,300	23,995	12,902
Other agents.	1,712	1,439,710	63,412	885	11,759	31,228	23,179
	3901	275,7741	6,783	2931	2,3353	4,5335	192

"Data not collected for commission bulk-tank stations.

No. 867.- WHOLESALE TRADE-SUMMARY, BY TYPE OF OPERATION AND KIND OF BUSINESS: 1935- Continued

TYPE OF OPERATION AND KIND OF BUSINESS	Num- ber of estab- lish- ments	Net sales (mil- lions of dollars)	Operat- ing ex- penses, includ- ing (mil- lions of dollars)	Ac- tive pro- cessing and firm per- centage	Em- ploy- ees (full- time and average per year)	Total sales of merchandise (mil- lions of dollars)	Stocks on hand, end of year (mil- lions of dollars)
Assemblers.	26,515	2,463,011	166,245/16,695	87.378	74,401	195,150	
Country buyers of farm products	10,813	646,147	32,981/10,635	21,028	14,795	88,633	
Cream stations.	3,619	29,854	1,479/2,239	2,232	1,033	222	
Cooperative marketing associations	2,117	955,727	60,318	22,692	23,406	58,557	
Elevators (grain)	8,462	600,363	30,147/2,751	16,164	15,160	41,756	
Packers and shippers	1,504	230,920	41,320/1,070	25,262	20,007	5,982	
FULL-SERVICE AND LIMITED-FUNCTION WHOLESALE							
Amusement and sporting goods.	1,068	117,045	21,308/641	7,076	12,092	14,223	
Cameras and motion picture equipment and supplies.	74	4,897	1,033/44	407	624	915	
Moving picture films.	191	38,268	6,063/43	1,623	3,447	1,420	
Sporting goods (full line).	134	17,020	3,631/781	1,275	1,982	4,053	
Toys, novelties, and heworks.	461	35,393	6,974/3491	2,543	4,102	5,166	
All other.	208	21,467	3,607/127	1,228	1,937	2,669	
Automotive.	5,672	780,424	131,401/3,363	49,514	75,276	107,830	
Automobiles and other motorvehicles.	399	378,726	36,051/1301	11,316	19,118	23,782	
Automotive equipment.	4,840	349,186	87,265/2,932	35,511	52,042	74,867	
Tires and tubes.	433	52,512	8,085/301	2,687	4,116	9,181	
Beer, wines, and liquors.	5,496	698,511	91,814/4,298	31,380	43,682	55,043	
Beer and other fermented malt liquors.	4,016	281,259	40,791/3,496	15,379	18,379	9,974	
Wines and liquors.	1,480	417,252	51,023/802	16,001	25,303	45,069	
Chemicals and paints.	1,426	275,301	46,008/627	10,741	20,530	32,559	
Dyestuffs.	57	15,816	4,160/18	675	1,694	1,697	
Explosives.	26	1,615	2861/12	121	149	291	
Industrial chemicals.	204	80,310	9,922/40	2,349	5,350	8,452	
Naval stores.	36	33,148	1,683/31	470	840	2,817	
Paints and varnishes.	772	66,328	15,063/3701	4,997	7,931	12,855	
All other.	331	78,084	14,894/184	2,129	4,557	6,447	
Clothing and furnishings.	3,960	648,881	88,577/3,177	25,383	46,350	73,495	
Clothing and/or furnishings (full line).	574	65,505	9,407/523	3,057	4,976	8,948	
Men's and boys'.	1,001	117,443	16,124/8741	4,743	8,270	17,137	
Women's and children's.	1,085	233,602	31,344/775	8,639	17,044	18,253	
Furs, dressed and fur clothing.	277	33,093	3,919/2665	813	1,848	3,772	
Hosiery.	202	35,657	3,942/173	1,140	1,909	3,931	
Millinery and millinery supplies.	360	42,161	7,095/236	2,281	3,775	4,538	
Shoes and other footwear.	461	121,420	16,746/330	4,710	8,528	16,916	
Coal and coke.	773	368,695	34,955/292	8,847	16,464	26,052	
Drugs (full line).	295	324,113	41,274/36	15,077	22,465	55,348	
Drugs and drug sundries (specialty lines).	1,268	123,466	25,760/774	8,010	12,420	13,206	
Drug specialties.	342	29,554	4,844/229	1,964	2,701	3,998	
Patent medicines.	215	21,995	4,110/111	1,110	1,898	1,356	
Toilet articles and preparations.	4261	40,671	11,140/256	3,165	5,536	3,822	
All other.	285	31,249	5,666/178	1,471	2,285	4,030	
Dry goods (full line).	306	265,724	38,426/164	14,272	22,030	46,295	
Dry goods (specialty lines).	3,301	719,676	82,228/2,477	22,652	43,398	118,548	
Notions.	915	96,778	17,876/7125	6,082	10,387	16,740	
Piece goods.	1,873	593,867	59,691/1,304	14,908	30,393	96,491	
All other.	513	29,031	4,661/461	1,662	2,618	5,317	
Electrical goods.	2,438	576,542	99,460/1,051	30,088	52,495	75,424	
Electrical merchandise (full line).	419	184,233	26,933/39	8,405	14,787	26,669	
Apparatus and equipment.	199	20,931	4,415/1041	1,719	2,643	3,041	
Wiring supplies and construction ma- terial	734	76,859	14,455/354	5,331	8,352	13,053	
Radios, refrigerators, and appliances.	1,086	294,519	53,657/554	14,633	26,713	32,661	
Farm products raw materials.	2,199	1,562,487	105,198/1,557	21,693	34,200	235,379	
Cotton.	263	518,244	34,807/206	2,406	5,204	68,582	
Grain.	474	483,949	27,080/234	5,888	9,983	74,997	
Hides, skins, and furs (raw)	874	189,342	15,282/696	3,668	7,004	24,266	
Livestock, including horses and mules.	35	3,613	477/411	142	203	401	
Silk (raw).	16	67,393	2,059/9	223	879	9,229	
Tobacco (leaf).	224	73,938	10,732/137	6,071	5,156	25,532	
Wool and mohair.	135	156,173	9,261/121	1,439	3,442	24,827	
All other.	178	69,835	5,500/113	1,856	2,329	7,545	
Farm products- consumer goods.	11,188	1,941,058	213,559/10,128	77,316	107,165	47,140	
Dairy products.	2,178	427,966	72,198/1,284	25,161	37,459	9,833	
Poultry and poultry products.	1,778	230,602	18,124/1,712	7,750	8,517	5,884	
Dairy and poultry products.	1,019	304,576	24,995/822	8,373	12,912	8,229	
Fruits and vegetables (fresh).	6,164	972,532	97,704/6,265	35,813	47,973	22,895	
All other.	491	5,383	531/451	2,191	3,041	2,299	

No. 867. WHOLESALE TRADE SUMMARY, BY TYPE OF OPERATION AND KIND OF BUSINESS: 1935- Continued

TYPE OF OPERATION AND KIND OF BUSINESS	Number of establishments	Net sales (in thousands of dollars)	Operating expenses, including depreciation (in thousands of dollars)	Active proprietors (full-time and average for year)	Employment	Total payroll (in thousands of dollars)	Stocks on hand, end of year (in thousands of dollars)
FULL-SERVICE AND LIBERTYED-FUNCTION WHOLESALEERS-continued							
Farm supplies.	1,433	281,731	35,100	892	12,739	16,566	33,213
Feed.	951	149,087	14,001	633	5,524	6,768	11,244
Fertilizer.	78	32,015	3,289	50	562	1,006	2,909
Seeds.	3541	90,759	16,848	186	6,290	8,348	18,289
All other.	501	9,870	962	23	363	444	771
Furniture and house furnishings.	1,959	243,457	43,345	1,335	13,978	23,106	50,742
China, glassware, and crockery.	321	33,497	8,226	196	2,728	4,577	6,657
Floor coverings.	366	89,021	12,321	202	3,551	6,144	22,559
Furniture household and office).	375	38,164	7,626	249	2,542	4,074	5,917
House furnishings (except as specified).	784	69,327	11,151	643	3,875	6,051	11,746
Musical instruments and sheet music.	1131	13,448	4,021	45	1,282	2,260	3,863
General merchandise.	208	361,647	28,076	122	9,266	13,942	34,052
Groceries (full line).	3,833	1,953,762	173,757	1,443	67,563	98,077	242,071
Groceries and foods (specialty lines).	12,156	1,682,961	209,791	10,343	79,646	108,429	132,811
Canned goods.	291	77,222	10,556	222	2,608	4,280	9,724
Coffee, tea, and spices.	964	220,488	36,029	591	11,631	18,547	25,493
Confectionery.	2,070	111,867	13,447	1,986	6,598	7,602	9,198
Fish and sea foods.	1,285	120,054	22,337	1,078	8,497	11,481	6,510
Flour.	505	77,909	7,369	365	2,459	3,413	5,005
Meats and meat products.	2,218	441,852	46,634	2,171	16,283	24,847	12,583
Soft drinks.	429	20,815	3,936	333	1,636	2,150	1,486
Sugar.	126	62,382	3,260	57	1,154	1,702	3,498
Other food and grocery specialties.	4,268	550,372	66,223	3,631	28,780	34,407	59,314
Hardware.	1,129	428,249	77,981	454	30,741	46,178	106,980
Hardware (full line).	610	387,020	69,255	137	27,387	41,214	97,427
Hardware (specialty lines).	519	41,229	8,726	317	3,354	4,964	9,553
Jewelry and optical goods.	1,801	180,685	35,481	1,300	11,105	19,185	47,213
Jewelry (full line).	224	42,107	6,999	174	2,031	3,513	12,700
Clocks and watches.	160	29,198	5,230	110	1,044	2,542	4,045
Diamonds and other precious stones.	274	27,732	3,261	280	568	1,272	12,759
Other jewelry specialties.	758	53,834	9,678	611	3,098	5,354	13,14E
Optical goods.	3851	27,814	10,318	125	4,364	6,504	4,568
Lumber and construction materials.	2,817	491,857	82,051	1,251	27,245	42,813	63,652
Builders' supplies (full line).	5041	76,051	16,162	212	5,758	8,740	10,733
Lumber and millwork.	1,597	339,092	48,013	7011	15,170	24,356	41,410
Brick, tile, and terra cotta.	119	8,732	1,882	48	577	943	1,414
Cement, lime, and plaster.	130	18,956	3,424	541	1,220	1,757	1,532
Glass.	262	21,638	6,684	154	2,707	4,080	5,300
Sand, gravel, and crushed stone.	110	10,257	2,920	505	952	1,434	1,040
All other.	95	17,131	2,966	32	861	1,503	2,223
Machinery, equipment and supplies.	7,198	835,647	171,511	3,705	57,140	95,410	157,474
Commercial machinery, equipment, and supplies:							
Office (except furniture).	194	14,308	4,194	131	1,656	2,472	2,040
Store, restaurant, and hotel.	673	44,860	11,757	464	4,443	6,738	7,567
All other.	68	5,195	1,090	39	402	656	585
Farm and dairy machinery and equipment.	336	45,250	8,153	181	2,818	4,327	9,047
Industrial machinery and supplies:							
Industrial (full line)-	189	79,828	15,176	20	5,282	8,800	18,420
Belting, hose, and packing.	168	12,281	3,092	66	959	1,779	1,976
Power transmission equipment.	66	6,778	1,610	21	530	918	1,353
Rope, cordage, and twine.	561	14,087	1,535	33	465	952	1,304
All other.	1,028	102,508	21,282	552	7,248	12,240	17,379
Industrial machinery:							
Construction (including road building)-	2771	53,831	10,310	87	3,027	5,358	8,646
Machine tools.	79	10,689	1,852	411	603	1,091	2,259
Mining and quarrying	87	11,184	2,098	37	717	1,210	2,586
Oil well and oil refining	759	152,273	16,799	1571	4,650	8,163	27,168
Power plant.	65	5,806	1,328	40	444	799	867
Textile.	481	5,149	1,333	20	453	862	874
Used machinery and equipment.	192	13,851	3,323	143	1,235	1,821	2,891
All other.	354	24,292	6,379	205	2,143	3,728	4,816
Professional equipment and supplies:							
Dental.	256	23,202	6,528	110	2,416	4,120	6,406
Surgical, medical, and hospital.	203	26,033	7,410	78	2,313	4,286	5,481
All other.	2521	30,1211	7,518	1395	2,5531	3,9991	7,021

No. 867.- WHOLESALE TRADESUMMARY, BY TYPE OF OPERATION AND KIND OF BUSINESS: 1935--Continued

TYPE OF OPERATION AND KIND OF BUSINESS	Number of establishments	Netsales (thousands of dollars)	Operating expenses, including payroll (thousands of dollars)	Active proprietors and firm members	Employees (full-time and part-time), average for year	Total payroll (thousands of dollars)	Stocks on hand, end of year (thousands of dollars)
FULL-SERVICE, ETC., WHOLESALETS-Con.							
Machinery, equipment, and supplies-Con.							
Service equipment and supplies:							
Barber and beauty parlor.	645	38,348	12,063	470	4,495	6,733	7,838
Laundry.	138	21,768	4,802	35	1,276	2,581	2,688
Upholsterers"	200	25,636	5,887	101	1,746	3,0331	6,764
All other.	623	34,516	8,457	411	3,359	5,046	6,005
Transportation equipment and supplies:							
Aircraft and aeronautical	15	1,445	285		108	191	323
Railroad.	33	16,588	3,691	2	601	1,535	1,522
Beats (including motor, sail, and steam)-	71	5,447	1,094	47	372	611	1,245
All other	123	12,373	2,470	67	826	1,361	3,313
Metals and metal work (except scrap).	810	281,996	37,315	307	10,623	19,324	39,939
Iron and steel (except structural)	345	114,884	20,572	121	5,078	9,994	16,719
Structural iron and steel.	93	18,965	3,877	22	1,541	2,342;	3,358
Wire, wire fence, and wire rope.	61	7,759	1,152	30	477	655	1,078
Copper.	19	4,635;	488	12	145	262	667
Sheet metal products.	179	40,243	6,253	78	2,155	3,402	5,520
Other metals and metal work.	113	95,510	4,973	44	1,227	2,669	12,597
Paper and its' products.	2,549	408,935	74,843	1,417	25,605	44,459	57,933
Wrapping or coarse paper and products.	1,572	291,576	49,837	914	17,307	30,149	39,320
Fine or printing and writing paper.	211	62,540	11,153	54	3,197	6,764	8,689
Stationery and stationery supplies	504	38,209	8,487	337	3,359	5,003	6,411
Wall paper.	262	16,610	5,366	112	1,742	2,543	3,513
Petroleum and its products.	674	132,399	17,137	389	4,437	8,089	6,485
Plumbing and heating equipment and supplies.							
Plumbing and heating (full line).	1,743	243,173	48,202	636	16,919	26,851	50,812
Heating (incl. stoves and ranges).	508	119,862	22,480	63	7,729	12,321	26,454
Plumbing fixtures, equipment and supplies.	224	24,682	5,623	103	1,850	3,157	4,547
All other.	865	88,465	17,531	392	6,369	9,744	18,391
Tobacco and its products (except leaf).	146	10,164	2,568	78	971	1,629	1,420
Tobacco and its products (except leaf).							
Waste materials.	2,253	783,368	42,853	1,859	14,687	21,547	40,902
Iron and steel scrap.	4,793	399,664	58,093	4,405	29,461	30,842	34,117
Junk and scrap (full line).	1,456	166,181	20,731	1,320	9,059	10,525	14,845
Waste paper, rags, and rubber.	1,537	79,537	13,288	1,541	8,236	7,131	8,293
Nonferrous metals.	1,578	125,994	21,587	1,369	11,413	11,673	9,528
All other products.	222	27,952	2,487	175	753	1,153	1,451
All other products.							
Books, periodicals, and newspapers.	4,184	550,233	72,850	3,052	26,352	39,250	68,711
Flowers and nursery stock	636	108,550	20,454	338	9,060	12,005	8,445
Forest products (except lumber).	539	25,124	5,048	482	1,934	2,593	1,367
Leather and leather goods.	550	80,373	8,497	437	2,873	4,492	8,355
Oils and greases (animal and vegetable).	1,057	104,873	13,834	856	4,487	7,208	18,235
Rubber (crude).	77	43,212	3,409	36	674	1,635	5,527
Textiles and materials except dry goods.	27	62,436	2,761	5	333	1,077	12,255
Yarns.	305	35,445	5,263	262	2,392	2,972	4,590
Miscellaneous kinds of business.	175	41,562	3,800	115	1,183	1,999	4,100
MANUFACTURERS SALES BRANCHES (WITH STOCKS)	818	48,658	9,784	521	3,416	5,269	5,837
Amusement and sporting goods.							
Automotive.	241	102,090	19,228		5,456	9,304	11,836
Beer, wines, and liquors.	896	1,261,865	90,159	6	23,611	45,242	68,563
Chemicals and paints.	377	265,812	37,390	6	5,284	11,533	19,759
Clothing and tumshings.	561	427,535	64,137	12	10,945	25,427	36,117
Coal and coke.	345	282,163	34,296	82	8,205	18,195	38,915
Drugs and drug sundries.	10	8,331	1,470		359	694	261
Dry goods.	270	128,468	33,997	11	7,050	13,566	11,924
Electrical goods.	208	180,322	19,532	28	4,690	10,207	36,700
Farm products- consumer goods.	428	349,819	31,685	5	7,832	17,676	21,800
Farm supplies.	327	71,570	17,555	5	4,313	7,129	2,527
Furniture and house furnishings.	74	31,785	4,831	2	917	1,830	2,679
Groceries and foods (specialty lines).	250	78,959	10,888	17	2,473	4,980	8,739
Hardware.	3,102	2,252,166	202,190	32	51,576	87,265	82,245
Jewelry and optical goods.	62	18,327	2,770	1	714	1,453	3,954
Lumber and construction materials.	249	91,458	10,921	10	3,102	5,366	11,405
Machinery, equipment, and supplies.	261	112,792	18,684	8	5,510	10,253	13,485
Metals and metal work (except scrap)	2,642	693,362	145,642	28	43,085	83,199	112,269
Paper and its products.	271	246,350	23,986	5	7,041	12,685	42,027
Petroleum and its products.	206	150,420	18,490	6	4,433	9,168	14,354
Plumbing and heating equipment and supplies.	56	18,175	3,801		814	1,910	1,981
Tobacco and its products (except leaf).	367	102,251	21,310	8	6,313	9,701	17,885
All other products.	65	407,526	50,103		8,380	7,007	12,261
	366!	167,468	18,0901	19	4,1771	3,916	24,872

No. 867.- WHOLESALE TRADE-SUMMARY, BY TYPE OF OPERATION AND KIND OF BUSINESS: 1935- Continued

TYPE OF OPERATION AND KIND OF BUSINESS	Number of establishments	Net sales (thousands of dollars)	Operating expenses, including payroll (thousands of dollars)	Active proprietors and firm members	Employees (full-time and part-time), average for year	Total payroll (thousands of dollars)	Stocks on hand, end of year (thousands of dollars)
MANUFACTURERS SALES OFFICES (WITHOUT STOCKS)							
Amusement and sporting goods.	140	119,173	19,265	11	5,552	10,311	
Automotive.	36	53,549	3,575		688	1,687	
Beer, wines, and liquors.	37	81,280	9,248		928	2,470.	
Chemicals and paints.	209	190,157	18,822	1	2,484	7,164	
Clothing and furnishings.	208	101,042	7,572	52	1,286	3,823	
Coal and coke.	61	11,526	348		48	1365	
Drugs and drug sundries (specialty lines).	31	9,9405	2,135	81	518	1,024	
Dry goods (specialty lines).	133	225,476	8,182		1,685	4,491	
Electrical goods.	263	137,1801	8,367	1	1,655	4,377	
Farm products-consumer goods.	5	3,350	696		57	109	
Farm supplies.	331	17,043	2,293	11	343	673	
Furniture and house furnishings	114	56,079	4,547	17	598	1,643	
Groceries and foods specialty lines).	206	253,777	34,223	6	3,243	7,010	
Hardware.	31	10,072	926		2161	541	
Jewelry and optical goods.	41	6,515	644		146	402	
Lumber and construction materials.	277	169,299	18,868	E	4,421	9,994	
Machinery, equipment, and supplies.	1,146	492,453	31,111	19	6,714	17,847	
Metals and metal work (except scrap)	476	1,021,883	29,371	4	5,502	15,703	
Paper and its products.	181	136,843	7,988		1,069	3,282	
Petroleum and its products.	25	46,880	7,017	1	955	2,350	
Plumbing and heating equipment and supplies.	178	22,954	3,130	3	666	1,497	
Tobacco and its products (except leaf).	128	316,336	7,993		1,356	2,781	
All other products.	2925	137,267	13,568	8	2,765	6,778	
BULK-TANK STATIONS							
Petroleum and its products.	27,333	2,704,047	391,095	3,546	(1)	(4)	157,687
AGENTS AND BROKERS							
Amusement and sporting goods.	245	23,931	3,277	216	807	1,542	333
Automotive.	4481	66,681	4,038	397	995	1,691	2,423
Beer, wines, and liquors.	73	21,473	916	49	230	482	334
Chemicals and paints.	420	98,427	9,857	2901	1,083	2,540	1,557
Clothing and furnishings.	1,203	417,123	13,033	1,133	3,734	7,807	786
Coal and coke.	440	427,346	25,300	82	3,874	10,087	12,443
Drugs and drug sundries (specialty lines).	140	26,894	1,854	123	643	1,078	194
Dry goods (full line).	14	23,061	289	11	78	174	5
Dry goods specialty lines).	938	1,015,100	28,403	814	5,851	15,817	12,528
Electrical goods.	638	45,863	3,367	534	1,221	1,832	1,762
Farm products-raw materials.	3,010	2,710,088	14,692	2,976	16,987	22,004	20,151
Farm products-consumer goods.	1,484	766,282	28,907	1,182	8,123	14,989	5,109
Farm supplies.	287	87,342	2,218	249	529	975	342
Furniture and house furnishings.	428	75,283	4,026	362	1,181	2,352	1,485
General merchandise.	691	68,475	2,430	57	658	1,477	245
Groceries (full line).	21	11,565	262	17	79	135	120
Groceries and foods (specialty lines).	2,219	1,796,819	26,516	1,743	7,044	14,602	11,233
Hardware.	288	32,508	2,099	254	648	1,103	428
Jewelry and optical goods.	124	6,882	429	119	117	216	298
Lumber and construction materials.	794	139,147	8,632	553	2,228	4,315	1,062
Machinery, equipment and supplies.	2,496	210,757	20,400	1,922	5,529	11,262	5,237
Metals and metal work (except scrap).	377	173,229	5,178	282	1,068	2,844	1,324
Paper and its products.	250	38,989	2,014	233	542	1,084	162
Petroleum and its products.	109	72,733	1,720	63	327	867	144
Plumbing and heating equipment and supplies.	427	25,7905	2,680	313	8881	1,462	636
Tobacco and its products (except leaf).	9	1,529	49	10	12	261	1
Waste materials.	112	10,369	1,930	59	310	901	558
All other products.	1,084	484,590	12,224	907	3,499	6,202	8,665
ASSEMBLERS							
Farm products-raw materials.	14,293	1,493,387	66,320	7,802	30,085	28,507	175,717
Farm products-consumer goods.	10,814	865,968	87,730	7,694	48,553	39,999	13,065
Farm supplies.	511	29,250	2,422	376	1,322	1,170	1,574
Groceries and foods (specialty lines).	5921	69,541	8,946	524	6,869	4,270	4,373
All other products.	305	4,865	827	299	549	455	421

1 Data not collected for commission bulk-tank stations; for data for other bulk-tank stations, see p. 870.

Source: Department of Commerce, Bureau of the Census; Census of Business, 1935, Wholesale Distribution, Vol. II.

No. 868.— WHOLESALE TRADE SUMMARY FOR 25 CITIES: 1935

NOTE. expenses, payroll, and stacks in thousands of dollars. The wholesale-trade centers covered in the following table were selected on the basis of their volume of wholesale trade in 1933

CITY	Number of establishments	NET SALES		Operating expenses (including payroll)	Active proprietors and firm members	Em-ployees (full-time and part-time), average for the year	PAY ROLL 12			Stocks hand (end of year)
		Amount	Percent gain over 1933				Total	Full-time	Part-time	
Atlanta, Ga.	809	328,474	66.7	35,591	315	9,473	15,701	15,535	166	22,077
Baltimore, Md.	1,622	424,478	27.7	44,298	1,176	15,072	22,006	21,661	345	27,825
Boston, Mass.	3,330	1,333,016	36.1	114,518	1,852	32,334	60,753	59,916	837	87,426
Buffalo, N. Y.	892	350,096	42.3	29,275	428	9,080	15,347	15,126	221	19,172
Chicago, Ill.	6,462	3,269,729	46.7	297,664	3,435	83,349	154,706	152,710	1,996	159,244
Cincinnati, Ohio.	1,383	477,139	53.3	44,147	860	13,090	22,505	22,174	331	24,596
Cleveland, Ohio.	2,123	681,242	38.0	73,834	1,030	21,502	39,341	38,738	603	38,073
Dallas, Tex.	903	409,668	34.4	38,298	470	9,802	16,184	16,002	182	40,637
Denver, Colo.	835	261,593	47.7	24,064	425	7,431	11,907	11,731	176	13,047
Detroit, Mich.	2,333	950,734	66.1	76,744	1,332	22,727	39,953	39,289	664	39,591
Houston, Tex.	576	331,180	73.0	33,868	250	7,259	11,823	11,626	197	36,938
Indianapolis, Ind.	735	306,302	86.1	25,323	389	8,232	13,030	12,850	180	15,493
Kansas City, Mo.	1,159	649,885	34.4	53,239	882	15,983	26,488	26,085	403	49,766
Los Angeles, Calif.	3,975	939,461	48.9	111,081	2,861	34,820	55,622	54,140	1,482	84,733
Milwaukee, Wis.	1,251	344,732	32.4	37,469	548	12,646	20,569	20,226	343	25,582
Mpls. and St. Paul, Minn. (combined)	1,655	788,585	35.3	73,958	870	21,195	35,330	34,753	577	89,958
Newark, N. J.	799	269,815	49.2	30,765	356	9,110	15,818	15,638	180	17,005
New Orleans.	934	414,188	30.5	38,825	496	11,307	16,609	16,271	338	61,911
New York, N. Y.	21,418	9,617,910	38.0	861,920	13,749	199,318	416,328	411,913	4,415	656,888
Omaha, Nebr.	603	355,319	36.8	23,036	340	7,101	10,961	10,772	189	15,452
Philadelphia, Pa.	3,961	1,325,154	34.4	132,040	2,733	37,347	65,126	63,928	1,198	82,864
Pittsburgh, Pa.	1,486	692,155	37.9	53,806	904	15,989	28,116	27,733	383	31,229
St. Louis, Mo.	2,102	882,323	33.1	99,967	1,055	29,910	49,372	48,779	593	77,400
San Francisco, Calif.	2,942	1,149,864	39.3	124,473	2,307	29,363	53,357	52,382	975	94,138
Seattle, Wash.	1,276	329,668	49.1	36,523	540	10,969	18,381	18,002	379	29,460

1 Data for commission bulk-tank stations are not included.

2 See note 2, table 865.

Source: Dept. of Commerce, Bur. of Census; Census of Business, 1935, Whsl. Distr., Vols. I and II.

No. 869. WHOLESALE TRADE- PERCENTAGE CHANGES IN SALES: 1935 TO 1937

NOTE.—The 1937-38 Census Survey of Wholesale Distribution covered total of 18,417 establishments, comprising 12,840 service and limited-function wholesalers in 22 of the 2 kind-of-business groups recognized by the census classification of wholesale establishments; 5,476 manufacturers sales branches; and 101 fruit and vegetable commission merchants. On the basis of the returns for the 1935 census of Business, these establishments constituted a sample 19 percent in number and percent sales for the service and limited-function wholesalers in the 22 kind-of-business groups, and sample 153 percent in number and 67 percent in sales for the manufacturers' sales branches. The sales the 12,840 service and limited-function wholesalers amounted to \$5,759,482,000, and those of the 8 fruit and vegetable sales branches in that year reached a total of \$5,986,268,000. (No figures for the number and vegetable commission merchants are given in this table)

KIND-OF-BUSINESS GROUP	SERVICE AND LIMITED FUNCTION WHOLESALERS			MANUFACTURERS SALES BRANCHES		
	Number of establishments	Percent increase in sales 1935 to 1937	Percent increase in sales 1936 to 1937	Number of branches	Percent increase in sales 1935 to 1937	Percent increase in sales 1936 to 1937
"Total.	12,840	31.1	10.8	5,476	32.0	11.8
Automotive.	924	44.9	10.8	509	43.5	14.8
Beer, wines, and liquors.	684	57.0	14.2	113	29.8	7.1
Chemicals and paints.	292	29.6	10.0	317	35.9	10.4
Clothing and furnishings.	627	19.3	1.8	110	18.1	5.3
Drugs and drug sundries 1	308	24.7	10.6	54	22.1	9.5
Dry goods 2	730	16.7	3.9	60	4.5	3-2.6
Electrical goods.	596	66.3	24.1	215	80.9	26.8
Fruits and vegetables, fresh.	904	23.7	5.2			
Farm supplies.	254	36.3	16.8	31	14.4	15.0
Furniture and house furnishings.	400	37.4	8.8	166	28.7	8.1
General merchandise.	72	20.5	6.8			
Groceries, full-line	1,069	17.1	6.7			
Groceries, specialty-line	1,886	20.3	10.2	1,755	15.0	6.4
Hardware.	271	29.4	10.5	31	47.5	17.0
Jewelry and optical goods.	372	44.4	11.4	170	47.8	16.5
Lumber and construction materials.	568	49.3	14.2	97	60.7	11.9
Machinery, equipment, and supplies.	1,552	48.6	19.4	1,519	50.5	19.1
Paper and its products.	536	27.7	12.4	58	27.8	11.7
Plumbing and heating equipment and supplies.	486	57.3	14.3	243	69.1	20.1
Tobacco and its products, except leaf.	309	20.8	9.0	28	9.5	3.1

1 Represents combination "Drugs (full line)" and "Drugs and drug sundries (specialty lines)."

2 : Represents combination of "Dry goods (full line)" and "Dry goods (specialty lines)." 3 Decrease.

Source: Dept. of Commerce, Bur. of Census; Census Survey of Business, 1937, Wholesale Distribution.

NO. 870. RETAIL TRADE- PERCENTAGE CHANGES IN SALES, FOR TOTAL STORES, INDEPENDENTS, AND CHAINS, BY KIND-OF-BUSINESS GROUPS: 1935 TO 1937 AND FIRST HALF OF 1937 TO FIRST HALF OF 1938

NOTE. -The 1937-38 Census Survey of Retail Business covered 102,853 identical stores in 42 kinds of business-80,664 independents and 22,189 chain units. These stores constituted a sample of 6 percent of number and 17 percent of sales (of stores reporting \$5,000 or more in annual sales volume), based on the returns of the 1935 Census. Their sales amounted to \$5,547,985,000 in 1935, and reached total of \$6,692,669,000 in 1937. The sales sample for independents was 13 percent and for chain units was 2 percent of the total sales of these respective types of operation in 1935.

PERCENT OF INCREASE OR DECREASE (-) IN SALES

KIND-OF-BUSINESS GROUP	1935 to 1937			First half 1937 to first half 1938		
	Total	Independents	Chain units	Total	Independents	Chain units
Total.	20.6	22.8	17.1	-13.0	15.2	-9.0
Food stores.	13.7	14.1	13.3	4.9	-6.4	-3.1
General stores, with food.	13.9			-11.2		
General-merchandise group.	17.4	17.1	17.6	-10.3	10.9	-9.8
Apparel group.	17.3	17.0	17.8	12.5	-11.8	-13.8
Automotive group.	33.0	34.4	24.9	-30.4	-33.1	-11.0
Furniture and household group.	35.8	36.1	31.8	23.4	22.9	-28.8
Lumber, building, and hardware group	37.7	38.2	34.6	-15.2	-16.1	-9.6
Eating and drinking places.	26.9	28.1	17.4	-7.3	-7.1	-8.5
Drug stores.	14.4	19.2	8.2	-5.5	-3.8	-7.8
Other retail stores.	23.1	22.5	26.3	-14.7	-13.7	-19.4

Source: Dept. of Commerce, Bur. of the Census; census Survey of Business, 1937-38, Retail Survey.

NO. 871.— RETAIL TRADE NET SALES, BY KIND OF BUSINESS GROUPS: 1932 TO 1939

KIND-OF-BUSINESS GROUP	NET SALES (MILLIONS OF DOLLARS)									Per- cent increase, 1939 from 1932
	1932	1933	1934	1935	1936	1937	1938	1939	1939	
Total.	25,597	25,037	29,188/33,161	37,940	39,930	35,425	37,950			7.0
Food group ¹	17,261	6,776	7,580							2.0
Beer and liquor stores.	17,506	7,086	7,734	8,362	8,981	9,340	8,920	9,095		6.0
Eating and drinking places	1,636	1,430	1,932	2,391	2,702	2,878	2,676	2,770		3.5
General-merchandise group:										
Farmers supply and country general stores	(1,218 - 973)	1,561 1,251	1,665 1,511	51,710	1,898	1,993	1,784	1,820		2.0
Department, dry-goods, and general-merchandise stores.	3,208	2,993	3,280	3,453	3,874	4,107	3,783	4,030		6.5
Mail order, catalog only-Variety stores.	201 660	220 678	300 754	386 781	460 851	490 885	463 858	519 905		12.0 5.5
Apparel group.	2,331	1,923	2,372	2,656	3,028	3,195	2,923	3,085		-5.5
Automotive group.	2,178	2,887	3,559	4,606	5,711	5,910	3,900	4,990		28.0
Filling stations.	1,665	1,532	1,750	1,968	2,263	2,478	2,404	2,428		1.0
Furniture and household group.	895	959	1,092	1,290	1,613	1,718	1,425	1,603		12.5
Lumber, building, and hardware group.	1,389	1,343	1,550	1,864	2,375	2,565	2,270	2,497		10.0
Drug stores.	1,182	1,066	1,156	1,233	1,344	1,411	1,376	1,410		2.5
Jewelry stores.	188	175	203	235	282	312	279	307		10.0
Other stores.	1,585	1,477	1,735	1,398	2,164	2,240	1,970	2,073		5.0

¹The 1935 figures for the food group include data for some stores classified as country general stores in prior censuses. Figures in italics are estimates by the Bureau of Foreign and Domestic Commerce, adjusted for these shifts in classification, for comparison with later years.

Source: and 1935, Dept. of Commerce, of the Census; Census of Business, 1935, Retail Distribution, Other years, estimates by Dept. of Commerce, Bur. Foreign and Domestic Commerce, * based on trends shown by currently published statistics; published in the Survey of Current Business, Feb. 1940, also in mimeographed reports.

No. 872.- RETAIL TRADE- NUMBER OF STORES AND NET SALES, BY BUSINESS GROUPS AND KIND OF BUSINESS: 1929, 1933, AND 1935

KIND OF BUSINESS	NUMBER OF STORES			NET SALES (THOUSANDS OF DOLLARS)		
	1929	1933	1935	1929	1933	1935
United States total.	1,543,158	1,526,119	1,653,961	49,114,653	25,037,225	33,161,276
Food stores ¹	481,891	470,149	532,010	10,837,421	6,776,280	8,362,425
Candy and confectionery stores.	63,265	54,243	55,197	571,549	271,213	314,467
Dairy-products stores (including egg, poultry, and milk dealers).	11,736	18,092	22,127	797,819	498,536	628,755
Grocery stores without meats).	191,876	163,538	188,738	3,449,129	1,803,242	2,202,607
Combination stores groceries and meats)	115,549	140,372	166,233	3,903,662	3,201,042	4,149,813
Meat and fish markets.	49,865	38,344	39,474	1,336,958	491,866	612,451
Other food stores.	49,600	55,560	60,241	778,304	510,381	454,332
General stores (with food) ²	104,086	85,839	66,701	2,570,744	1,097,437	1,110,403
General merchandise group.	54,636	249,703	44,651	6,444,101	23,884,570	4,619,751
Dry goods and general merchandise stores-	38,305	34,122	28,709	1,189,856	668,145	527,862
Department stores ³ .	4,221	23,535	4,201	4,350,098	2,538,258	3,311,070
Variety, 5-and-10, and to-a-dollar stores-	12,110	12,046	11,741	904,147	678,167	780,819
Apparel group.	114,296	286,557	85,968	4,240,893	1,930,035	4,656,248
Men's clothing and furnishings stores (including boys').	28,197	19,491	20,914	1,192,723	489,104	659,617
Family clothing stores.	10,551	5,765	7,881	552,353	185,371	358,849
Women's ready-to-wear stores.	18,253	217,768	21,975	1,087,501	2,575,094	794,992
Accessories and other apparel stores-	33,036	24,697	26,231	601,387	255,874	331,385
Shoe stores-	24,259	18,836	18,967	806,829	424,592	511,399
Automotive group.	136,172	134,999	116,702	7,828,387	2,887,525	4,606,650
Motor vehicle dealers (new and used)-	45,301	30,646	35,045	6,407,512	2,127,720	3,847,642
Accessories, tire, and battery dealers-	22,313	16,027	14,343	599,295	225,970	373,910
Garages ⁴	66,793	86,454	66,243	785,001	519,827	370,064
Other automotive ⁵	1,765	1,872	1,071	36,579	14,008	15,034
Filling stations ⁶	121,513	170,464	197,568	1,787,423	1,531,724	1,967,714
Furniture- household group.	58,941	42,976	45,215	2,754,721	958,780	1,289,896
Furniture stores.	25,153	17,418	17,043	1,509,815	553,503	694,578
Household appliance and radio stores.	8,931	29,761	14,100	379,704	2198,662	381,171
Radio dealers.	16,037	28,161	4,296	561,772	2113,899	57,152
Other home furnishings.	8,820	7,636	9,776	303,430	92,716	156,995
Lumber, building, and hardware group-	90,386	76,098	73,186	3,845,624	1,342,705	1,864,275
Lumber and building-material dealers-	26,377	21,015	21,149	1,981,284	603,416	866,865
Hardware and farm implement dealers-	37,572	32,802	36,633	1,224,560	488,486	758,979
Heating and plumbing equipment dealers ⁷	12,709	11,307	5,025	334,277	123,128	89,477
Paint, glass, and electrical stores ⁸	13,728	10,974	10,379	305,503	127,675	148,954
Eating and drinking places.	134,293	200,335	251,473	2,124,880	1,429,938	2,390,860
Eating places.	134,293	170,434	153,468	2,124,890	1,324,387	1,666,899
Drinking places.		29,901	98,005		105,551	723,961
Drug stores.	58,258	58,407	56,697	1,690,399	1,066,252	1,232,593
Other retail stores.	277,707	215,622	217,941	7,412,726	3,124,141	4,057,530
Cigar stores and stands.	33,248	20,175	15,350	410,064	189,756	182,950
Fuel and ice dealers ⁹	19,118	23,875	35,293	1,013,369	623,077	859,018
Jewelry stores.	19,998	14,313	12,447	536,281	175,066	234,893
News dealers.	10,285	6,629	7,071	149,866	58,071	61,655
Beer and liquor stores (packaged).		3,767	12,105		16,730	328,307
Other classifications.	90,972	61,024	68,974	2,732,402	964,004	1,280,304
Second-hand stores.	15,065	20,869	22,550	148,068	105,275	113,340

See note 1, table 871, regarding shifts in classifications between the food group and "General stores."

Revised.

Includes general merchandise mail-order houses.

¹ This classification includes in 1929, 3,379 body, fender, and shops with receipts of \$46,106,000 and 2,059 parking stations, parking garages, and lots with receipts of \$39,262,000, which are included under "Service establishments" in 1933 and 1935.

² Bicycle shops, included in this classification in 1929 and 1933, are included with "Other retail stores" in 1935.

³ Fuel-oil retailers, included in "Filling stations" in 1933 are included in "Fuel and ice dealers" under "Other retail stores" in 1935.

⁴ Figures for 1935 are not comparable with data for earlier years. Some heating, plumbing, and air-conditioning contractors, included in 1933, were transferred to the Construction Census in 1935.

⁵ The 1935 figures are not comparable with those for earlier years. A number of electrical contractors, included in this classification in 1933, were transferred to the Construction Census in 1935 and those electrical shops whose income from repairs was greater than the sale of merchandise were included under Service Establishments in 1935.

Source: Department of Commerce, Bureau of the Census; Census of Business, 1935, Retail Distribution, Vol. I.

No. 873.—RETAIL TRADE—SUMMARY, BY BUSINESS GROUPS AND KIND OF BUSINESS: 1935

KIND OF BUSINESS	Number of stores	Netsales (thousands of dollars)	Active proprietors and firm members	Employees (full-time and part-time), average for year	PAY ROLE (THOUSAND OF DOLLARS)		Operating expenses, incl. payroll (thousands of dollars)
					Total	Part-time	
United States total	1,653,961	33,161,276	1,611,734	8,961,478	3,623,289	235,127	591,912
Food stores.	532,010	8,362,425	489,966	745,103	663,418	46,723	1,385,052
Candy and confectionery stores.	55,197	314,467	53,973	37,191	23,125	2,860	76,059
Dairy products stores and milk dealers.	16,380	576,351	13,684	79,964	114,994	1,921	189,375
Egg and poultry dealers.	5,747	52,404	5,799	4,662	2,951	459	7,569
Delicatessen stores.	6,554	88,708	6,452	7,141	5,677	502	16,271
Fruit stores and vegetable markets.	32,632	215,965	33,246	23,217	16,770	1,854	39,194
Grocery stores (without meats).	188,738	2,202,607	170,415	156,031	125,802	10,974	281,962
Combination stores groceries and meats).	166,233	4,149,813	148,321	359,716	304,006	22,926	617,799
Meat markets.	32,555	565,640	31,978	45,258	44,551	3,271	97,042
Fish markets—sea food.	6,919	46,811	7,170	6,220	4,481	581	10,883
Bakeries and caterers.	14,150	99,908	12,335	16,604	12,836	983	31,840
Other food stores.	6,905	19,751	6,593	9,099	8,224	459	17,058
General stores (with food).	66,701	1,110,403	66,783	82,841	60,735	4,186	121,490
General merchandise group.	44,651	4,619,751	32,160	729,195	608,817	42,777	1,283,517
Dry goods and general merchandise stores.	28,709	527,862	25,558	65,730	48,612	4,630	109,331
Department stores.	4,201	3,311,070	756	492,090	468,910	25,040	966,104
Variety, b-and-10, and to-a-dollar stores.	11,741	780,819	5,846	171,375	91,295	13,107	208,082
Apparel group.	95,968	2,656,242	73,414	327,628	338,300	24,586	775,860
Men's furnishings stores.	7,716	143,668	6,010	12,704	15,110	1,045	39,806
Men's clothing and furnishings stores.	13,198	515,949	11,173	45,579	59,705	2,902	136,768
Family clothing stores.	7,881	358,849	6,060	46,777	47,205	2,296	103,173
Women's ready-to-wear stores.	21,975	794,992	17,068	107,469	103,047	6,573	228,873
Furriers and fur shops.	1,535	59,897	1,067	6,765	10,461	725	23,236
Millinery stores.	9,568	94,451	6,773	18,651	14,865	2,059	38,488
Custom tailors.	6,559	67,120	6,364	14,820	17,316	2,911	31,110
Accessories—other apparel stores.	8,569	109,917	7,231	17,733	13,968	1,300	31,522
Shoe stores.	18,967	511,399	11,668	57,131	56,623	4,775	142,884
Automotive group.	116,702	4,606,650	113,220	378,000	436,993	12,641	820,791
Motor vehicle dealers (new).	30,294	3,725,438	25,484	257,154	314,274	5,064	574,832
Used-car dealers.	4,751	122,204	4,735	9,868	10,769	644	22,405
Accessories, tire and battery dealers.	14,343	373,910	10,384	45,751	54,557	1,786	107,978
Garages.	66,243	370,064	71,626	63,220	55,122	5,015	111,274
Other automotive.	1,071	15,034	991	2,007	2,271	132	4,302
Filling stations.	197,568	1,967,714	179,870	203,753	177,128	11,400	356,727
Furniture—household group.	45,215	1,289,896	35,864	173,931	211,188	10,537	122,430
Furniture stores.	17,043	694,578	14,855	77,905	102,065	3,092	221,867
Floor coverings—drapery stores.	2,611	61,246	2,334	8,943	9,752	516	19,862
Household appliance and radio stores.	14,100	381,171	7,810	65,836	75,156	5,428	133,070
Radio dealers.	4,296	57,152	4,225	6,135	7,513	442	16,442
Other home furnishings stores.	7,165	95,749	6,640	15,112	16,702	1,059	31,189
Home—building—hardware group.	73,186	1,664,275	60,157	193,672	221,113	15,211	422,441
Lumber and building material dealers.	21,149	866,865	10,819	90,858	108,801	6,866	202,074
Hardware stores.	26,996	467,217	26,472	45,658	48,558	2,797	100,955
Hardware and farm implement dealers.	9,637	291,762	9,821	22,058	22,381	1,698	45,419
Heating and plumbing equipment dealers.	5,025	89,477	4,315	16,802	20,065	2,004	30,986
Paint, glass, wall paper stores.	8,910	127,049	7,423	14,907	17,250	1,536	36,163
Electrical supply stores.	1,469	21,905	1,307	3,389	4,058	310	6,844
Eating and drinking places.	251,473	2,390,860	257,566	646,935	413,720	30,224	1,000,041
Restaurants.	113,037	1,453,118	116,408	442,908	282,637	16,392	677,590
Lunch counters, cafeterias, tunchrooms.	40,431	213,781	40,174	52,844	29,595	3,045	76,498
Drinking places.	98,005	723,961	100,984	151,183	101,488	10,787	245,953
Drug stores.	56,697	1,232,593	43,363	159,130	143,354	9,035	227,070
Drug stores with fountain.	38,731	950,328	32,199	127,830	112,660	6,881	227,070
Drug stores without fountain.	17,966	282,265	16,164	31,300	30,694	2,154	64,699
Other retail stores.	151,240	2,947,127	131,822	300,295	331,410	26,034	678,205
Bicycle shops.	781	5,149	763	628	493	26,034	678,205
Book stores.	2,979	67,007	2,384	12,117	13,474	768	28,881
Cigar stores and cigar stands.	15,350	182,950	13,717	15,111	13,820	793	28,881
Florists.	11,242	98,718	10,976	17,320	15,964	1,331	36,825
Fuel and ice dealers.	35,2931	859,0181	31,6261	91,5731	106,0661	13,2571	206,521

1 Includes no compensation for proprietors and firm members of unincorporated businesses.

No. 873.— RETAIL TRADE SUMMARY, BY BUSINESS GROUPS AND KIND OF BUSINESS: 1935—Continued

KIND OF BUSINESS	Number of stores	Netsales (thousands of dollars)	Active proprietors and firm partners	Em- ployees (full- time and part- time) average per year	PAY ROLL (THOUSANDS OF DOLLARS)		Operating ex- penses, incl. pay roll (thousands of dollars)
					Total	Part- time	
Other retail stores—Continued.							
Gift, novelty, souvenir shops.							
Hay, grain, feed stores (without groceries)	5,512	31,502	5,370	4,285	3,366	445	9,097
Hay, grain and feed stores (with groceries)	10,350	317,390	8,720	17,418	16,284	1,037	33,729
Farm and garden supply stores.	782	29,277	612	1,626	1,397	89	2,822
Jewelry stores.	9,176	252,471	8,259	18,732	18,248	1,645	38,169
Luggage stores.	12,447	234,893	11,096	25,709	35,479	1,303	81,856
News dealers.	8295	16,230	670	1,721	2,124	103	5,125
Sporting goods stores.	7,071	61,655	5,590	13,843	6,491	1,127	13,992
Beer and liquor stores (packaged)	1,944	35,3151	1,741	3,692	4,252	199	9,193
Other classifications	12,105	328,307	8,922	16,312	19,458	1,007	41,555
	25,379	427,245	21,376	60,208	74,494	2,863	138,813
Second-hand stores.	22,550	113,340	22,549	20,994	17,113	1,769	33,588
Second-hand stores—clothing and shoe.	2,862	6,544	2,820	1,192	631	67	1,666
Second-hand furniture.	6,941	21,961	7,032	3,383	2,232	303	5,707
Second-hand tires, accessories, and parts.	6,433	29,988	6,859	7,121	5,392	545	9,396
Pawn shops.	1,142	20,489	1,004	2,258	3,096	91	6,150
Second-hand stores—other.	5,172	34,358	4,834	7,040	5,762	763	10,669

No. 874.— RETAIL CHAINS— SUMMARY: 1929, 1933, AND 1935

[Sales and pay roll in thousands of dollars]

	1929	1933	1935		1929	1933	1935
Number of chains.	7,061	5,546	6,079	Employees, full-time and part-time.			
Number of retail units (stores).	159,638	152,308	139,810	Stores.		1,104,408	1,171,671
Number of central offices.	(2)	(2)	1,914	Central offices.	8	985,984	1,071,694
Number of warehouses.	559	462	492	Warehouses.	26,442	118,422	73,655
Sales through stores, all chains.	10,740,385	7,677,668	8,460,611	Pay roll total.		1,061,990	211,066
Central-office sales	(2)	215,583	281,779	Stores.		868,368	1,023,125
Value (wholesale) of merchandise handled through chain-store warehouses en route to stores—				Central offices.	8	155,249	153,993
				Warehouses.	40,635	28,383	33,948
				Total pay roll per \$100 of total sales.	(2)	\$15.06	\$13.85
	1,929,681	1,431,563	1,864,221				

Includes besides the units classified as store chains in tables 875 and 876, leased-department chains (B. Ut for 1935), State liquor stores (2,053 for 1935), and lesser types (6,611 for 1935).
 No comparable data available. Other reported by 228 chains.
 Including merchandise sold at wholesale through the central offices. Figures do not represent the cost of goods sold. They relate only to merchandise billed through warehouses, which is but a small part of total quantity of goods sold by chain stores. This figure is sometimes regarded as part of the total of wholesale distribution, performed by the chains instead of by merchant wholesalers.

No. 875. RETAIL TRADE NUMBER OF STORES AND NET SALES, BY TYPE OF OPERATION: 1929, 1933, AND 1935

TYPE OF OPERATION	NUMBER OF STORES			NET SALES THOUSANDS OF DOLLARS		
	1929	1933	1935	1929	1933	1935
Total, all types.	1,543,158	1,526,119	1,653,961	49,114,653	25,037,225	33,161,276
Independents	1,375,509	1,349,356	1,474,149	38,081,504	17,846,332	24,246,112
Chains.	148,037	141,676	127,482	9,834,846	6,372,554	7,550,186
Leased departments.	4,271	0	7,181	154,024	0	156,111
Utility-operated	4,053	4,127	3,936	163,371	76,079	123,242
Mail-order.	271	311	378	515,237	244,381	420,027
Direct-selling.	1,661	6,934	6,349	93,961	107,813	125,316
State liquor.			2,053			160,665
Other types.	9,356	123,715	32,433	271,710	1390,066	379,617

1 "Leased departments" included with "Other types."

Source of tables 873, 874, and 875: Department of Commerce, Bureau of the Census; Census of Business, 1935, Retail Distribution, Vol. 1, for tables 873 and 875 and Retail Chains for table 874.

No. 876. - RETAIL TRADE- SUMMARY FOR 26 KINDS OF BUSINESS, BY TYPE OF OPERATION: 1935

TYPE OF OPERATION AND KIND OF BUSINESS	Number of stores	Net (thous- sands of dollars)	Active firm mem- bers 1	Employ- (full- time part- time), average for year	PAYROLL (THOUSANDS OF DOLLARS) 2		Operat- ing ex- penses, incl. pay roll (thou- sands of dollars)
					Total	Part- time	
United States total	1,653,961/33,	161,261,811	1,724,301	209,855	1,37,591,912		
Independents	1,474,149	24,246,119	1,471,938	2,838,801	2,558,615	164,449	15,387,686
Single-store.	1,419,865	21,634,240	1,447,242	2,521,921	2,226,042	151,067	14,736,210
Two-store.	40,897	1,740,849	21,014	209,019	219,913	9,116	426,303
Three-store.	13,054	771,246	3,645	93,614	97,296	3,875	195,871
Local branch systems.	343	90,771	65	14,247	15,364	391	29,302
Chains.	127,482	7,550,186	2,702	963,636	910,569	61,352	1,884,980
Local.	17,964	1,021,613	1,386	134,012	143,752	5,730	300,887
Sectional and national.	107,593	6,413,596	1,310	807,808	739,892	55,248	1,538,650
Manufacturer-controlled	1,925	114,977	6	21,816	26,925	374	45,443
All other types.	52,330	1,364,978	37,094	159,041	154,105	9,322	318,246
Leased departments, independent.	3,517	48,041	3,408	5,971	4,821	467	11,633
Leased departments, chain.	3,664	108,070	112	17,071	14,902	1,478	36,864
Utility-operated stores.	3,936	123,242	271	20,920	22,925	3,311	43,814
Mail-order houses.	378	420,027	195	40,969	39,888	851	106,281
Direct selling (house-to-house).	6,349	125,316	5,178	33,570	35,183	772	51,997
State liquor stores 3-	2,053	160,665	12	4,954	8,196	258	13,366
Military post canteens.	487	5,524	145	728	557	33	1,087
Commissaries or company stores.	1,888	113,126	528	9,334	9,844	346	16,269
Other types.	30,058	260,967	27,489	25,524	17,789	1,806	37,935
Grocery stores (without meats).	188,738	2,202,607	170,415	156,031	125,802	10,974	281,962
Independents.	164,404	1,330,524	168,794	81,193	54,566	5,111	146,709
Chains.	22,632	842,075	124	72,698	69,385	5,779	131,450
All other types.	1,702	21,008	1,497	2,140	1,851	84	3,803
Combination stores groc. and meats).	166,233	4,149,813	148,321	359,716	304,006	22,926	617,799
Independents.	139,994	2,509,867	147,462	206,746	157,635	11,657	331,225
Chains.	25,607	1,624,513	347	151,662	145,130	11,199	284,275
All other types.	632	15,433	5121	1,308	1,241	70	2,299
Beer and liquor stores (packaged).	12,105	328,307	8,922	16,312	19,458	1,007	41,555
Independents.	9,718	157,696	8,819	10,816	10,603	741	26,769
Chains.	226	6,020	18	428	563	3	1,215
State liquor stores 3-	2,053	160,665	12	4,954	8,196	258	13,366
All other types.	108	3,926	73	114	961	5	205
Motor-vehicle dealers.	35,045	3,847,642	30,219	267,022	325,043	5,708	597,237
Independents.	34,504	3,678,674	30,192	255,662	308,560	5,590	566,023
Chains.	535	168,337	24	11,247	16,422	118	30,956
All other types.	6	631	3	1131	61		258
Accessories-fire-battery dealers.	14,343	373,910	10,384	45,751	54,557	1,786	107,978
Independents.	10,885	186,808	10,325	21,967	26,764	947	50,291
Chains.	3,453	186,917	55	23,757	27,762	838	57,621
All other types.	5	185	4	27	31	1	66
Filling stations.	197,568	1,967,714	179,870	203,753	177,128	11,400	356,727
Independents.	177,520	1,530,994	179,381	145,527	106,904	10,075	228,711
Chains.	19,575	423,082	262	57,130	69,022	1,279	126,097
All other types.	464	13,638	227	1,096	1,202	46	1,919
Department stores.	4,201	3,311,070	756	492,090	465,910	25,040	966,104
Independents.	1,711	2,034,945	741	337,865	334,857	12,182	655,671
Chains.	2,423	883,101	11	116,366	99,342	12,145	217,712
Mail-order houses.	33	386,200		37,228	34,053	658	91,653
All other types.	34	6,824	3	631	681	55	1,068
Variety stores.	11,741	780,819	5,846	171,375	91,295	13,107	208,082
Independents.	6,056	71,944	5,683	12,532	6,715	893	15,033
Chains.	5,658	708,651	140	158,799	84,557	12,212	193,001
All other types.	27	224	23	44	23	2	48
Men's clothing and furnishings stores.	20,914	659,617	17,183	58,283	74,815	3,847	176,574
Independents.	19,018	514,640	16,867	46,477	57,570	3,104	131,299
Chains.	1,592	138,528	74	11,381	16,678	779	42,875
All other types.	304	6,449	242	425	567	64	2,400
Family clothing stores.	7,881	358,849	6,060	46,777	47,205	2,296	103,173
Independents.	6,915	282,955	5,998	36,304	36,001	1,796	78,574
Chains.	923	74,008	33	10,312	10,959	497	24,024
All other types.	431	1,8861	291	1611	2451	31	575

1 Figures for chains are active owners of unincorporated chains; they do not indicate the number of companies.

firm members of unincorporated businesses.

2 Includes no compensation for proprietors.

3 Includes county or municipal liquor stores in some States.

No. 876. RETAIL TRADE SUMMARY FOR 26 KINDS OF BUSINESS, BY TYPE OF OPERATION: 1935 Continued

TYPE OF OPERATION AND KIND OF BUSINESS	Number stores	Net sales (thousands of dollars)	Active proprietors and firm members	Employees (full-time and part-time): average for year	PAY ROLL (THOUSANDS OF DOLLARS)		Operating expenses, incl. pay roll (thousands of dollars)
					Total	Part-time	
Women's ready-to-wear stores.	21,975	794,992	17,068	107,469	103,047	6,573	228,873
Independents.	19,265	574,900	16,838	79,175	77,450	4,511	165,680
Chains.	2,407	200,077	122	25,768	23,426	1,810	57,491
All other types.	303	20,015	108	2,526	2,171	252	5,702
Shoe stores.	18,967	511,399	11,668	57,131	56,623	4,775	142,884
Independents.	13,027	221,712	11,452	22,920	24,162	1,731	56,951
Chains.	5,006	255,564	99	29,416	28,308	2,705	75,486
All other types.	934	34,123	117	4,795	4,153	339	10,447
Furniture stores.	17,043	694,578	14,855	77,905	102,065	3,092	221,867
Independents.	16,468	597,255	14,819	67,570	87,520	2,790	186,446
Chains.	561	93,821	26	9,893	13,825	295	34,014
All other types.	14	3,502	10	442	720	7	1,407
Household appliance and radio stores.	14,100	381,171	7,810	65,836	75,156	5,428	133,070
Independents.	8,392	183,279	7,748	24,558	28,020	1,713	51,867
Chains.	1,196	47,987	11	13,160	14,201	347	22,074
All other types.	4,512	149,905	51	28,118	32,935	3,368	59,129
Radio dealers	4,296	57,152	4,225	6,135	7,513	442	16,442
Independents.	4,176	43,233	4,209	5,238	5,337	390	11,735
Chains.	103	13,187	3	797	2,060	50	4,425
All other types.	17	732	3	100	116	2	282
Lumber and building material dealers.	21,149	866,865	10,819	90,858	108,801	6,866	202,074
Independents.	15,476	655,519	10,710	70,816	85,840	5,869	157,028
Chains.	5,619	206,097	100	19,549	22,443	9881	43,711
All other types.	54	5,249	9	493	518	9E	1,335
Hardware stores and implement dealers.	36,633	758,979	36,293	67,716	70,939	4,495	146,374
Independents.	35,956	724,306	36,202	64,910	67,464	4,372	138,935
Chains.	585	32,911	18	2,601	3,242	116	7,210
All other types.	92	1,762	73	205	233	7	229
Restaurants and eating places.	153,468	1,666,899	156,582	495,752	312,232	19,437	754,088
Independents.	146,747	1,399,785	154,035	412,640	252,718	16,844	610,730
Chains.	3,988	242,354	123	76,145	54,912	2,107	132,082
All other types.	2,733	24,760	2,424	6,967	4,602	486	11,276
Drinking places.	98,005	723,961	100,984	151,183	101,488	10,787	245,953
Independents.	97,205	718,215	100,338	149,787	100,621	10,677	243,874
Chains.	46	813	18	1,631	136	41	256
All other types.	754	4,933	628	1,233	731	106	1,823
Cigar stores and cigar stands.	15,350	182,950	13,717	15,111	13,820	793	35,675
Independents.	13,462	111,851	13,487	9,796	7,617	693	20,840
Chains.	1,608	65,525	17	4,987	5,824	81	13,876
All other types.	280	5,574	213	328	379	19	959
Fuel and ice dealers.	35,293	859,018	31,626	91,573	106,066	13,257	206,521
Independents.	32,720	710,707	30,366	77,974	87,010	10,640	1,68,232
Chains.	1,289	141,423	32	12,731	18,348	2,478	36,901
All other types.	1,284	6,888	1,228	868	708	139	1,388
Drug stores with fountain.	38,731	950,328	32,199	127,830	112,660	6,881	227,071
Independents.	35,581	676,103	32,119	92,759	77,527	6,314	154,428
Chains.	3,107	273,324	49	34,957	35,026	566	72,429
All other types.	43	901	31	114	107	1	214
Drug stores without fountain.	17,966	282,265	16,164	31,300	30,694	2,154	64,699
Independents.	17,274	237,285	16,107	27,151	25,613	2,038	53,978
Chains.	637	43,483	25	3,964	4,883	107	10,303
All other types.	55	1,4971	32	185	198	91	418
Hay, grain, and feed stores.	11,132	346,667	9,332	19,044	17,681	1,126	36,551
Independents.	9,590	248,126	9,228	14,456	12,606	937	26,980
Chains.	1,006	55,443	58	2,974	3,264	129	6,523
All other types.	536	43,098	46	1,614	1,811	60	3,048
Farm and garden supply stores.	9,176	252,471	8,259	18,732	18,248	1,645	38,169
Independents.	8,100	189,294	7,930	14,375	13,926	1,415	29,109
Chains.	191	11,891	7	1,088	1,189	245	2,577
All other types.	885	51,286	322	3,269	3,133	206	6,483
Jewelry stores.	12,447	234,893	11,096	25,700	35,479	1,303	81,856
Independents.	12,047	212,002	11,024	23,050	31,291	1,235	70,992
Chains.	323	20,890	311	2,399	3,916	62	10,201
All other types.	77	2,001	41	260	272	6	663
All other kinds of business.	469,461	5,616,340	451,061	695,084	662,558	47,878	352,554

Source: Department of Commerce, Bureau of the Census; Census of Business, 1935, Retail Distribution, Vol. I..

No. 877.- RETAIL TRADE SUMMARY,

[Sales, payroll, and expenses]

DIVISION AND STATE	NUMBER OF STORES			NET SALES			Percent change	Active proprietors and firm members, 1935	
				Amount					
	1929	1933	1935	1929	1933	1935			
United States.	1,543,158	1,526,119	1,663,961	49,114,653	26,097,-	293,161,276	-48	321,511,734	
New England.	108,764	105,646	114,044	3,785,869	2,167,760	2,721,911	-43	26	95,803
Maine.	11,091	11,429	12,766	307,627	184,386	232,599	40	261	11,384
New Hampshire.	6,557	6,368	7,225	184,285	111,799	152,583	-39	365	6,559
Vermont.	5,189	4,934	4,958	152,176	78,600	99,121	-48	261	4,545
Massachusetts.	54,183	52,430	55,536	2,054,976	1,195,161	1,461,180	-42	22	45,426
Rhode Island.	9,542	8,438	9,095	318,295	167,288	219,706	-47	31	7,684
Connecticut.	22,202	22,047	24,464	768,510	430,525	556,722	-44	29	20,205
Middle Atlantic.	385,302	358,489	402,028	12,717,899	6,633,819	8,460,817	-48	28	357,709
New York	190,017	178,614	204,511	7,070,414	3,739,992	4,749,708	-47	27	181,621
New Jersey.	60,010	64,190	67,798	1,843,545	1,015,928	1,220,299	45	20	58,755
Pennsylvania	135,275	115,685	129,719	3,803,940	1,875,899	2,490,910	51	33	117,333
East North Central.	317,667	327,771	340,303	11,262,958	5,314,073	7,170,586	-53	35	310,512
Ohio.	83,717	85,961	93,268	2,864,831	1,442,132	1,956,941	-50	36	83,458
Indiana.	41,618	41,256	42,471	1,222,384	569,972	780,508	-53	37	39,986
Illinois.	96,900	98,870	98,538	3,711,903	1,728,880	2,173,069	-53	26	89,533
Michigan	55,958	57,121	61,967	2,226,398	949,137	1,388,236	-57	46	56,552
Wisconsin.	39,474	44,563	44,154	1,237,442	623,952	871,832	-50	40	40,983
West North Central.	170,644	180,307	192,570	5,969,554	2,641,958	3,521,954	-50	33	182,871
Minnesota.	30,725	33,879	37,495	1,051,930	585,102	820,010	-44	40	35,367
Iowa.	32,716	34,643	38,979	972,136	479,695	650,029	-51	361	38,045
Missouri.	47,039	49,247	50,927	1,448,220	759,125	964,125	-48	25	47,645
North Dakota.	8,077	7,981	9,019	234,540	108,087	150,208	-54	39	8,451
South Dakota.	8,845	8,566	9,618	255,197	106,196	147,564	-58	39	8,985
Nebraska.	17,637	19,212	19,099	562,945	274,575	359,757	-51	31	17,979
Kansas.	25,605	26,779	27,433	744,586	329,178	448,261	-56	36	26,393
South Atlantic.	169,068	168,200	181,731	4,201,755	2,477,028	3,296,008	-41	33	163,509
Delaware.	3,688	3,420	4,390	103,512	57,910	76,877	-44	33	
Maryland.	21,082	23,487	23,349	619,573	384,384	462,874	-38	20	23,975
Dist. of Col.	5,931	6,156	6,472	336,262	241,515	330,813	-28	37	4,815
Virginia.	25,120	26,451	26,757	600,929	358,102	471,329	-40	32	23,901
West Virginia.	17,244	17,128	18,975	447,877	244,071	332,190	-46	36	16,982
North Carolina.	28,831	27,652	29,462	653,419	363,111	463,219	-44	28	27,303
South Carolina.	15,036	15,528	16,686	300,220	186,215	248,206	-38	33	14,672
Georgia	28,687	26,681	31,310	635,440	352,916	484,693	-45	37	28,625
Florida	22,449	21,697	24,330	504,523	288,804	425,807	-43	47	21,679
East South Central.	89,199	83,270	94,034	2,171,995	1,025,923	1,386,429	-53	35	89,689
Kentucky.	27,117	25,672	29,286	587,340	304,605	388,278	48	27	28,192
Tennessee.	23,384	22,777	27,445	643,817	330,079	482,586	49	46	26,087
Alabama.	21,442	20,049	22,167	527,101	250,384	337,217	-53	35	20,740
Mississippi.	17,256	14,772	15,136	413,737	140,855	178,348	-66	27	14,670
West South Central.	135,482	132,505	138,709	3,727,371	1,751,553	2,309,174	-53	32	133,233
Arkansas.	17,937	15,918	18,292	412,680	180,095	240,724	-55	341	18,162
Louisiana.	23,288	22,239	23,189	476,643	264,123	344,393			
Oklahoma.	27,339	25,434	26,022	795,028	431,774	434,793	-43	30	25,399
Texas.	66,918	67,914	71,206	2,043,020	965,561	1,289,264	-53	34	68,397
Mountain	44,661	44,301	49,140	1,548,650	739,614	1,100,728	52		
Montana.	6,951	5,732	7,944	243,828	112,382	189,457	-54	69	47,975
Idaho.	4,916	5,139	5,863	169,087	87,406	140,167		60	5,347
Wyoming.	2,983	3,169	3,486	103,437	55,970	82,681	-48	48	3,240
Colorado.	13,993	13,700	14,273	466,959	233,014	302,559	-46	30	13,231
New Mexico.	4,191	4,246	4,812	119,759	53,944	88,751	-50	65	4,612
Arizona.	5,068	4,749	5,214	198,620	76,250	121,083	65	59	4,904
Utah.	5,249	5,103	5,839	196,559	91,968	132,098			
Nevada	1,310	1,463	1,709	50,401	28,680	43,932	-43	44	5,603
Pacific.	122,371	125,630	141,312	4,428,602	2,285,487	3,193,569		40	133,433
Washington.	22,110	22,307	25,086	761,808	368,171	528,709	-48		
Oregon.	14,570	13,769	15,352	455,931	224,447	335,851	-52	46	24,343
California	85,691	89,554	100,874	3,210,863	1,692,879	2,329,009	-47	38	95,597

1 Includes no compensation for proprietors and firm members of unincorporated businesses.

BY STATES: 1929, 1933, AND 1935

in thousands of dollars!

EMPLOYEES (FULL-TIME AND PART-TIME), AVERAGE FOR YEAR				PAY ROLL				Operating expenses (including pay roll), 1935	DIVISION AND STATE
1929	1933	1935	1929 - 1933	1933	Total	Full-time	Part-time		
4,402,940	3,433,652	3,961,478	5,189,670	2,910,445	3,623,289	3,388,166	235,127	591,912	U.S.
360,979	290,649	330,467	422,040	268,852	322,456	300,257	22,199	658,074	N.E.
26,482	22,147	24,783	28,012	18,715	22,100	20,531	1,569	46,242	Maine.
16,209	13,469	16,249	16,786	11,377	14,881	13,870	1,011	31,065	N. H.
11,725	9,540	10,083	12,763	7,809	8,771	8,115	656	18,715	Vt.
206,478	166,385	186,136	241,100	156,224	182,065	169,047	13,018	369,408	Mass.
31,975	23,477	28,881	36,183	21,242	25,869	25,869	1,802	55,453	R. I.
68,110	55,632	64,335	87,196	53,485	66,968	62,825	4,143	137,191	Conn.
1,087,698	844,861	982,340	1,397,727	811,903	989,038	929,540	58,488	1,670,078	M.A.
575,145	449,141	527,564	792,285	464,707	568,833	537,237	31,594	258,441	N. Y.
146,145	119,733	136,907	193,503	119,927	140,660	131,839	8,821	305,129	N.J.
366,408	275,988	317,859	411,939	227,269	279,545	260,464	19,081	603,500	Pa.
1,012,427	769,440	873,507	1,247,467	633,401	800,496	742,483	58,013	1,657,670	E.N.C.
266,286	210,141	242,003	318,274	172,264	219,407	203,023	16,384	442,578	Ohio.
118,561	85,507	98,052	125,966	63,315	81,580	75,188	6,392	166,765	Ind.
338,926	252,865	272,784	440,280	221,323	263,232	247,287	15,945	557,477	Th.
183,473	134,688	163,278	241,870	108,969	152,323	141,873	10,450	308,229	Mich.
105,181	86,238	97,390	121,077	67,530	83,954	75,112	8,842	182,621	Wis.
469,698	367,129	413,954	497,830	281,835	340,260	315,321	24,939	727,455	W.N.C.
93,072	78,320	92,498	103,817	64,783	63,029	77,177	5,852	177,612	Minn.
85,549	66,144	73,273	86,094	47,020	55,814	50,832	4,982	122,676	Iowa.
140,727	112,597	124,849	153,142	90,182	104,127	97,432	6,695	218,600	Mo.
16,755	11,950	14,076	17,931	9,301	12,132	11,167	965	27,143	N.Dak.
20,423	13,171	15,687	20,556	9,393	12,152	11,221	931	27,255	S.Dak.
47,949	38,052	40,967	49,678	28,343	33,143	30,587	2,556	70,970	Nebr.
65,223	46,896	52,634	66,612	32,813	39,863	36,905	2,958	83,199	Kans.
411,751	357,880	423,911	419,553	268,958	344,069	324,917	19,152	684,782	S.A.
9,205	7,563	9,102	9,842	6,331	8,364	7,906	458	16,799	Del.
60,072	53,302	59,681	64,292	45,707	51,738	48,649	3,089	109,641	D.C.
34,519	32,905	42,069	44,385	33,681	43,905	42,102	1,803	87,853	D.C.
60,280	51,975	58,105	61,386	40,065	48,547	45,943	2,604	95,470	Va.
37,090	31,930	37,269	42,106	24,470	31,512	29,424	2,088	61,704	W.Va.
61,272	53,181	60,207	58,066	35,165	44,233	41,418	2,815	86,285	N.C.
30,363	27,662	33,327	26,128	16,961	22,688	21,223	1,465	42,425	S.C.
67,044	54,426	66,896	60,599	35,763	46,963	44,473	2,490	92,448	Ga.
51,902	42,937	57,255	52,749	30,815	46,119	43,779	2,340	92,157	Fla.
201,017	150,601	175,856	193,312	100,843	129,778	122,157	7,621	262,777	E.S.C.
53,971	42,350	48,481	53,266	30,220	36,931	34,548	2,383	73,831	Ky.
63,256	47,866	61,474	61,176	33,564	46,784	44,152	2,632	96,075	Tenn.
50,156	38,648	42,517	48,123	23,788	30,360	28,669	1,691	61,618	Ala.
33,634	21,737	23,384	30,747	13,271	15,703	14,788	915	31,253	Miss.
336,737	254,401	291,496	348,243	182,059	224,272	212,524	11,748	452,599	W.S.C.
34,658	23,917	28,046	33,034	15,299	19,427	18,209	1,218	38,793	Ark.
50,578	43,351	50,271	48,982	30,411	36,864	35,305	1,559	76,557	La.
68,154	48,776	53,809	74,266	34,629	41,181	38,584	2,597	85,308	Okla.
183,347	138,357	159,370	191,961	101,720	126,800	120,426	6,374	251,941	Tex.
131,984	94,230	114,904	155,952	80,163	109,178	101,549	7,629	225,558	Mt.
18,418	13,105	17,751	23,317	11,813	18,775	17,142	1,633	37,581	Mont.
13,021	9,849	13,064	15,386	7,940	12,659	11,791	868	26,143	Idaho.
7,588	6,155	7,335	9,669	5,777	7,426	6,981	445	16,104	Wyo.
44,760	32,439	34,049	50,731	27,174	29,971	28,020	1,951	63,745	Colo.
9,808	6,825	9,396	10,344	5,351	8,269	7,799	4701	16,488	N. Mex.
16,182	9,815	13,156	19,900	8,455	12,530	11,744	7861	25,337	Ariz.
18,689	12,866	15,891	21,509	10,336	14,611	13,403	1,208	30,051	Utah.
3,518	3,175	4,262	5,096	3,317	4,937	4,609	268	10,109	Nev.
390,649	304,461	355,013	507,546	282,431	363,742	339,418	24,324	755,927	Pac.
67,917	50,113	57,423	83,444	42,262	56,287	52,019	4,268	116,115	Wash.
40,514	28,775	35,056	48,154	24,0645	33,814	31,467	2,347	71,087	Oreg.
282,218	225,572	262,524	375,948	216,105	273,641	255,932	17,709	568,725	Calif.

Source: Department of Commerce, Bureau of the Census; Census of Business, 1935, Retail Distribution, Vol.I.

**No. 878.- RETAIL TRADE- SUMMARY FOR EACH CITY HAVING (IN 1930) 50,000
OR MORE INHABITANTS: 1935**

CITY	Num- ber of stores	Net sales (thou- sands of dol- lars)	Em- ploy- ees, avg. for year	Pay roll (thou- sands of dol- lars)	CITY	Num- ber of stores	Net sales (thou- sands of dol- lars)	Em- ploy- ees, avg. for year	Pay roll (thou- sands of dol- lars)
Akron, Ohio.	3,303	95,899	12,721	12,725	Highland Park, Mich.	611	20,293	2,275	2,207
Albany, N. Y.	2,256	79,742	9,620	9,663	Hoboken, N. J.	1,289	16,774	1,827	1,980
Allentown, Pa.	1,424	35,659	5,177	4,403	Holyoke, Mass.	731	17,963	2,310	2,119
Altoona, Pa.	1,152	25,545	3,714	2,953	Houston, Tex.	3,876	113,715	15,358	13,705
Asheville, N. C.	6681	19,351	2,806	2,322	Huntington, W. Va.	1,078	24,456	3,261	2,806
Atlanta, Ga.	3,833	136,842	19,570	16,343	Indianapolis, Ind.	4,757	139,084	20,712	18,911
Atlantic City, N. J.	1,734	37,107	5,525	5,092	Irrington, N. J.	936	14,348	1,444	1,418
Augusta, Ga.	9711	20,581	3,267	2,463	Jackson, Mich.	746	19,719	2,398	2,104
Austin, Tex.	969	26,605	3,695	3,080	Jacksonville, Fla.	1,901	50,745	8,027	6,507
Baltimore, Md.	13,557	301,137	41,495	37,587	Jersey City, N. J.	4,890	76,954	8,185	8,651
Bayonne, N. J.	1,217	17,129	1,714	1,591	Johnstown, Pa.	705	20,123	2,948	2,490
Beaumont, Tex.	8861	23,025	3,143	2,753	Kalamazoo, Mich.	804	26,880	3,105	2,996
Berkeley, Calif.	1,155	25,536	3,041	3,030	Kansas City, Kans.	1,706	27,782	3,445	2,830
Bethlehem, Pa.	869	15,507	1,958	1,645	KELDESSE City, Mo.	5,985	209,399	30,796	26,165
Binghamton, N. Y.	1,070	38,048	4,520	4,491	Kenosha, Wis.	673	15,969	1,810	1,604
Birmingham, Ala.	2,639	73,764	11,403	9,195	Knoxville, Tenn.	1,518	41,730	6,216	4,997
Boston, Mass.	10,649	139,121	60,968	65,746	Lakewood, Ohio.	583	15,717	1,968	1,773
Bridgeport, Conn.	2,451	57,030	7,237	7,506	Lancaster, Pa.	1,353	25,117	3,555	3,024
Brockton, Mass.	814	21,977	3,222	2,745	Lansing, Mich.	1,071	38,872	4,735	4,608
Buffalo, N. Y.	8,097	205,396	26,652	25,782	Lawrence, Mass.	1,415	30,834	3,710	3,443
Cambridge, Mass.	1,372	39,111	5,346	5,035	Lincoln, Nebr.	1,109	36,426	5,068	4,508
Camden, N. J.	2,089	38,705	4,665	4,613	Little Rock, Ark.	1,319	31,847	4,631	3,685
Canton, Ohio.	1,529	39,802	5,038	4,608	Long Beach, Calif.	3,054	63,181	7,163	7,201
Cedar Rapids, Iowa.	1,012	23,586	2,855	2,630	Los Angeles, Calif.	23,471	593,902	79,931	80,965
Charleston, S. C.	972	20,142	3,184	2,326	Louisville, Ky.	4,488	100,702	14,907	13,067
Charleston, W. Va.	1,020	33,731	4,415	4,402	Lowell, Mass.	1,314	30,962	4,089	3,639
Charlotte, N. O.	951	31,690	4,820	4,148	Lynn, Mass.	1,412	34,615	4,866	4,666
Chattanooga, Tenn.	1,826	44,065	6,195	5,296	Macon, Ga.	912	20,453	3,191	2,886
Chester, Pa.	1,018	17,343	2,233	2,127	Madison, Wis.	1,033	36,267	4,764	4,698
Chicago, Ill.	44,382	1,215,706	160,917	166,591	Malden, Mass.	749	19,775	2,571	2,312
Cicero, Ill.	990	14,268	1,363	1,341	Manchester, N. H.	1,058	28,537	3,511	3,222
Cincinnati, Ohio.	6,948	198,867	26,517	24,776	McKeesport, Pa.	672	19,297	2,549	2,053
Cleveland, Ohio.	13,924	355,210	47,601	48,830	Medford, Mass.	419	11,017	1,230	1,202
Cleveland Heights, Ohio.	314	10,408	1,313	1,393	Memphis, Tenn.	3,242	101,915	14,121	11,832
Columbia, S. C.	840	22,809	3,529	2,809	Miami, Fla.	2,641	75,326	10,113	9,513
Columbus, Ohio.	4,070	118,274	17,007	15,696	Milwaukee, Wis.	9,351	236,941	30,464	29,214
Covington, Ky.	1,109	16,424	2,122	1,820	Minneapolis, Minn.	6,446	220,834	30,114	30,032
Dallas, Tex.	4,116	123,550	17,301	15,967	Mobile, Ala.	1,127	23,457	3,554	2,718
Davenport, Iowa.	961	26,923	3,695	3,147	Montgomery, Ala.	1,011	21,425	3,361	2,624
Dayton, Ohio.	3,332	80,483	10,626	10,135	Mount Vernon, N. Y.	994	27,660	2,705	3,295
Dearborn, Mich.	512	15,060	1,643	1,581	Nashville, Tenn.	3,199	74,561	10,672	8,971
Decatur, Ill.	787	23,057	3,002	2,634	Newark, N. J.	8,593	197,527	25,256	27,980
Denyer, Colo.	4,184	127,497	15,741	14,783	New Bedford, Mass.	1,671	35,197	4,917	4,162
Des Moines, Iowa.	2,408	68,801	9,231	8,458	New Britain, Conn.	881	18,104	2,012	2,019
Detroit, Mich.	19,133	543,690	68,672	71,337	New Haven, Conn.	2,945	71,638	8,942	9,630
Duluth, Minn.	1,420	41,073	5,687	5,295	New Orleans, La.	6,835	123,524	20,917	15,823
Durham, N. C.	577	17,133	2,549	1,994	New Rochelle, N. Y.	825	25,328	2,739	3,340
East Chicago, Ind.	753	9,703	1,080	960	Newton, Mass.	521	17,391	1,999	2,071
East Orange, N. J.	885	22,724	2,442	2,639	New York, N. Y.	115,567	2,847,332	23,590	69,483
East St. Louis, Ill.	1,148	19,661	2,491	2,246	Bronx.	17,492	311,499	26,236	30,845
Elizabeth, N. J.	2,431	42,911	4,639	4,976	Brooklyn.	37,932	677,258	65,666	74,072
El Paso, Tex.	1,279	31,896	4,315	3,912	Manhattan.	82,327	3,822,022	38,237	42,022
Erie, Pa.	1,718	38,051	5,290	4,658	Richmond.	16,278	351,364	33,805	38,058
Evanston, Ill.	658	31,067	3,819	3,640		2,632	44,712	4,085	4,485
Evansville, Ind.	1,382	30,510	4,116	3,748	Niagara Falls, N. Y.	1,105	25,642	3,175	2,889
Fall River, Mass.	1,750	31,271	4,182	3,686	Norfolk, Va.	2,112	50,120	7,238	5,569
Flint, Mich.	1,872	58,303	6,675	5,456	Oakland, Calif.	5,256	141,781	16,068	16,903
Fort Wayne, Ind.	1,620	42,668	6,021	5,377	Oak Park, Ill.	582	23,799	3,020	3,191
Fort Worth, Tex.	2,441	64,503	8,610	7,201	Oklahoma City,	2,420	72,308	9,935	8,662
Fresno, Calif.	1,478	41,631	4,386	4,771		3,061	90,675	12,070	11,481
Galveston, Tex.	831	17,887	2,641	2,305	Omaha, Nebr.	1,566	45,003	5,336	
Gary, Ind.	1,239	23,277	3,625	3,378	Pasadena, Calif.	1,303	26,665	2,981	5,590
Glendale, Calif.	1,148	28,313	2,950	2,979	Passaic, N. J.	2,650	54,596	5,355	3,180
Grand Rapids, Mich.	2,375	59,784	7,988	7,116	Paterson, N. J.	1,020	28,224	3,520	3,669
Greensboro, N. C.	648	20,875	3,121	2,547	Fawtucket, R. I.	1,467	46,816		
Hamilton, Ohio.	886	18,088	2,068	1,920	Peoria, Ill.	20,604		90,974	8,262
Hammond, Ind.	816	24,192	2,811	2,809	Philadelphia, Pa.	7,400	256,534	39,617	85,262
Hamtramck, Mich.	765	13,774	1,637	1,565	Pittsburgh, Pa.	779	24,386	2,776	38,252
Harrisburg, Pa.	1,235	37,895	5,487	5,069	Pontiac, Mich.	611	14,355	1,862	2,672
Hartford, Conn.	2,6675	88,639	11,552	12,704	Port Arthur, Tex.	1,2231	37,122	4,627	4,865

1 Full-time and part-time,

2 See note 1, table 877.

No. 878.- RETAIL TRADE-SUMMARY FOR EACH CITY HAVING (IN 1930) 50,000 OR MORE INHABITANTS: 1935-Continued

CITY	Number of stores	Net sales (thousands of dollars)	Employees, avg. for year	Pay roll (thousands of dollars)	CITY	Number of stores	Net sales (thousands of dollars)	Employees, avg. for year	Pay roll (thousands of dollars)
Portland, Oreg.	5,109	147,413	18,079	18,066	Spokane, Wash.	1,953	58,403	6,683	6,549
Providence, R. I.	3,603	113,392	15,919	16,033	Springfield, Ill.	937	28,920	3,667	3,447
Pueblo, Colo.	733	15,776	2,136	1,655	Springfield, Mass.	2,195	71,557	1,729	9,639
Quincy, Mass.	827	24,097	3,072	2,832	Springfield, Mo.	1,053	21,406	2,819	2,350
Racine, Wis.	956	22,217	2,409	2,173	Springfield, Ohio.	1,083	25,914	3,297	3,270
Reading, Pa.	2,549	48,843	6,353	5,870	Syracuse, N. Y.	2,798	51,384	10,619	9,875
Richmond, Va.	2,506	79,837	11,363	10,737	Lacombe, Wash.	1,774	39,345	4,809	4,682
Roanoke, Va.	872	28,801	3,790	3,567	Tampa, Fla.	1,654	34,764	4,898	4,056
Rochester, N. Y.	4,745	132,420	16,438	16,527	Terre Haute, Ind.	1,124	26,790	3,527	3,259
Rockford, Ill.	1,212	31,651	4,045	3,782	Toledo, Ohio.	4,037	112,550	14,672	14,285
Sacramento, Calif.	1,868	54,815	5,901	6,662	Topeka, Kans.	1,053	26,365	3,595	3,035
Saginaw, Mich.	1,041	28,850	3,482	3,125	Trenton, N. J.	2,323	48,825	5,004	5,867
St. Joseph, Mo.	1,198	25,976	3,586	3,012	Troy, N. Y.	1,293	29,818	3,519	3,682
St. Louis, Mo.	12,790	316,398	45,519	42,755	Tulsa, Okla.	1,820	56,019	7,851	7,380
St. Paul, Minn.	3,581	137,155	16,854	16,567	Union City, N. J.	1,258	24,255	2,646	2,930
Salt Lake City, Utah.	1,649	59,229	8,242	7,907	Utica, N. Y.	1,644	41,151	1,927	4,733
San Antonio, Tex.	4,107	78,744	11,688	9,542	Waco, Tex.	898	18,561	2,427	1,925
San Diego, Calif.	3,107	75,549	8,836	9,191	Washington, D. C.	6,472	330,813	42,069	13,905
San Francisco, Calif.	10,251	298,371	39,020	43,541	Waterbury, Conn.	1,355	33,495	4,233	4,232
San Jose, Calif.	1,056	31,049	3,279	3,760	Wheeling, W. Va.	1,074	29,169	4,464	3,807
Savannah, Ga.	1,327	24,799	4,001	2,952	Wichita, Kans.	1,813	49,464	6,644	5,701
Schenectady, N. Y.	1,385	37,148	1,575	4,224	Wilkes-Barre, Pa.	1,460	37,945	5,601	5,209
Scranton, Pa.	2,125	54,993	7,418	7,382	Wilmington, Del.	2,2905	48,609	6,159	6,234
Seattle, Wash.	6,105	163,185	21,185	21,732	Winston-Salem, N. C.	935	23,317	3,359	2,774
Shreveport, La.	1,147	31,018	4,696	3,907	Worcester, Mass.	2,412	71,908	8,786	8,892
Sioux City, Iowa.	1,232	28,330	3,658	3,104	Yonkers, N. Y.	1,846	39,865	3,891	4,384
Somerville, Mass.	1,038	22,543	2,783	2,509	York, Pa.	933	25,562	3,273	2,800
South Bend, Ind.	1,379	36,214	4,642	4,369	Youngstown, Ohio.	2,379	62,883	7,952	7,471

Source: Department of Commerce, Bureau of the Census; Cens. of Business, 1935, Retail Distribution, Vol. II.

No. 879.-SALES BY DEPARTMENT STORES INDEXES OF VALUES, BY FEDERAL RESERVE DISTRICTS, 1922 TO 1939, AND BY MONTHS, 1937 TO 1940

NOTE:-1923-1925 average=100. Compiled from reports of about 240 560 firms (400 in 1939). Endexes for the United States have been adjusted for variations in number of firms reporting and monthly indexes for varying number of business days in the different months, for seasonal changes, and for the effect of the shifting date of Easter. These adjustments do not apply uniformly to the indexes by districts

YEAR	United States	Boston	New York	Philadelphia	Cleveland	Richmond	Atlanta	Chicago	St. Louis	Minneapolis	Kansas City	Dallas	San Francisco
1922.	88	92	89		87	86	91		90	105		91	82
1923.	98	98	96	101	101	97	101	99	99	105		96	97
1924.	99	100	99	99	99	99	98	98	98	106.	95	100	99
1925.	103	102	105	100	101	104	102	103	103	111	100	104	108
1926.	106	105	109	103	102	107	106	108	105	108	95	109	111
1927.	107	106	110	99	103	105	107	110	103	108	96	107	114
1928.	108	104	112	94	103	106	107	116	104	105	97	109	117
1929.	111	106	117	95	105	110	104	118	105	106	100	110	119
1930.	102	100	113	87	94	106	95	103	94	101	95	100	111
1931.	92	91	104	76	82	100	87	87	81	93	81	86	98
1932.	69	71	82	60	60	81	68	65	62	74	63	65	74
1933.	67	65	78	58	62	77	68	64	62	70	62	66	72
1934.	75	69	82	63	70	90	83	74	71	77	73	80	81
1935.	79	69	84	65	75	97	87	80	73	83	78	85	91
1936.	88	76	92	72	87	107	105	91	82	91	85	100	99
1937.	92	77	95	74	96	110	114	98	87	95	89	107	103
1938.	85	74	89	66	83	107	113	87	83	93	84	104	96
1939.	90	76	91	71	91	111	125	91	88	97	86	106	99
YEAR	Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.												
United States:													
1937.		93	95	93	93	93	93	92	93	94	93	91	89
1938.		90	88	86	83	78	82	83	83	86	84	89	89
1939.		88	87	88	88	85	86	86	89	91	90	95	96
1940.		92	89	89	89	87	91						

1 Beginning January 1931 computed by the Bureau of Foreign and Domestic Commerce based on percentage changes sales as reported by the Board of Governors the Federal Reserve System.

2 Indexes based on 1929-31=100.

3 Monthly average sales in 1925=100.

Sources: United States and, except noted, Boston and Richmond, Board of Governors of the Federal Reserve System; other districts, Federal Reserve banks.

No. 880.- SALES BY CHAIN STORES INDEXES OF VALUES, 1935 TO 1939, AND BY MONTHS, 1938, 1939, AND 1940

NOTE. The combined index for groups includes the apparel chains shown separately in the table, 5 grocery chains, 6 variety chains, and 3 (prior to January 1936, 2) shoe chains. Indexes are based on daily average sales. Each monthly index is expressed as a percentage of the average for the same month of the base period. Allowance for the fluctuating date of Easter is made in the case of apparel, variety, and shoe chains. No allowance has been made for changes in the number of stores operated. [1828-1931-100]

YEAR AND MONTH	Com- bined index, 20cos.1	Apparel index, 4cos.1	YEAR AND MONTH	Com- bined index, 20cos.1	Apparel index, 4cos.3	YEAR AND MONTH	Com- bined index, 26cos.1	Apparel index, 4cos.1
1935.	97.0	103.3	1938-Contd.		1939-Contd.			
1936.	106.9	117.9	September	109.0	122.0	August.	113.0	124.0
1937.	111.7	122.0	October.	108.0	120.0	September.	114.5	127.0
1938.	107.0	115.9	November.	109.5	121.2	October.	113.3	125.0
1939.	112.3	124.3	December.	112.9	127.0	November.	117.0	132.0
1938						December	120.0	142.0
January.	106.7	107.6	1939		1940			
February.	106.4	108.8	January.	107.5	118.0	January.	113.5	120.0
March.	103.3	116.0	February.	108.8	112.7	February.	114.0	119.0
April.	105.0	112.8	March.	109.8	130.0	March.	115.0	128.0
May.	103.3	109.4	April.	110.0	117.6	April.	115.0	122.0
June.	106.3	109.7	May.	110.0	119.0	May.	117.0	123.0
July.	108.0	120.0	June.	111.0	118.0	June.	119.0	120.0
August.	106.0	116.0	July.	113.0	126.0			

The combined index includes 18 companies and the apparel index 3 companies prior to January 1936.
Source: The Chain-Store Age.

No. 881.- SALES BY SELECTED GROUPS OF RETAIL OUTLETS- INDEXES OF DOLLAR VALUES, 1932 TO 1939, AND BY MONTHS, 1938, 1939, AND 1940

NOTE. Indexes of automobile sales are based on unit sales figures reported monthly to the Automobile Manufacturers Association, which represent over 95 percent of all dealer's sales. unit sales figures are converted to dollar volume by the use of a computed "average realized price" index of sales in small towns and rural areas are based on figures furnished by three mail-order companies for sales by mail only and by a large group of chain units operating in small towns and cities which serve the rural population. Sales of reporting concerns represent about one-fourth of all general merchandise sales in places less than 30,000 inhabitants. Indexes of both variety store and grocery chain store sales are based on figures furnished by chain organizations doing more than 1 per cent of business in the respective fields. For the variety store index adjustment has been made change in the number of stores operated by the companies so that the index reflects sales changes for constant number of stores. All indexes are computed from dollar sales reduced to a daily average basis. In computing the index of automobile sales, equal weight is given to all days of the month, while in computing the other three indexes, allowance is made for varying number of business days the months and the varying sales importance of the different days of the week. The monthly indexes all four series are adjusted for seasonal changes and, in addition, the variety-store index is adjusted for the changing date of Easter. Variety store sales, daily average basis-1935-39-100; other columns, monthly average basis-1829-31-100

YEAR AND MONTH	Auto- mobile retail sales	Variety store sales	Grocery chain store sales	Rural retail sales	YEAR AND MONTH	Auto- mobile retail sales	Variety store sales	Grocery chain store sales	Rural retail sales
1932.	35.5	31.9	85.7	63.1	1939				
1933.	43.3	33.6	80.3	69.2	January.	91.0	101.9	96.4	120.0
1934.	57.6	91.6	83.3	83.7	February.	26.0	101.9	98.2	123.7
1935.	83.8	92.9	89.6	99.4	March.	38.0	102.1	99.5	131.0
1936.	105.1	100.8	94.4	114.8	April.	79.5	99.9	99.0	130.8
1937.	108.0	103.6	95.7	121.7	May.	79.0	100.9	101.4	131.2
1938.	66.7	99.3	91.1	114.1	June.	79.0	101.1	99.3	131.7
1939.	90.7	103.5	102.5	127.5	July.	80.5	101.0	99.6	124.8
1938					August.	76.5	103.6	103.1	131.1
January.	65.0	09.2	96.2	113.8	September.	83.5	101.5	109.4	125.4
February.	74.0	100.4	93.6	111.7	October.	93.7	106.2	106.4	123.4
March.	61.0	99.0	94.7	112.1	November.	102.8	106.9	109.0	122.7
April.	60.0	96.8	91.7	117.4	December	108.5	104.7	108.8	132.4
May.	57.0	95.1	93.6	112.3	1940				
June.	50.5	95.5	92.2	116.6	January.	125.8	104.0	108.7	134.5
July.	56.5	97.7	91.0	116.2	February.	130.8	105.3	111.5	132.3
August.	54.5	98.5	92.2	120.1	March.	112.5	105.4	110.9	136.6
September.	60.0	99.4	94.9	114.6	April.	112.5	103.2	109.9	125.4
October.	85.0	100.7	94.4	108.5	May.	104.1	105.2	112.3	133.8
November.	100.0	100.7	96.7	113.1	June.	123.0	104.4	111.1	137.7
December.	92.5	100.6	98.1	114.8					

Source: Department of Commerce, Bureau of Foreign and Domestic Commerce. Indexes are published currently in the Survey of Current Business and in mimeographed reports.

NG. 882. RETAIL SALES OF GENERAL MERCHANDISE IN SMALL TOWNS AND RURAL AREAS INDEXES OF DOLLAR VALUES, BY REGIONS, 1932 TO 1939, AND BY MONTHS, 1938, 1939, AND 1940

NOTE. 1929-1931=1100. Comparable indexes for the United States as a whole and a brief description of the indexes are given in table 881. The States and geographic divisions, as shown in other tables (for example, table 877) included in the regions here shown are as follows: East-New England and Middle Atlantic divisions, Delaware, Maryland, Virginia, and West Virginia; South-East South Central division, North Carolina, South Carolina, Georgia, Florida, Arkansas, Louisiana, and Texas; Middle West-East North Central and West North Central divisions, Oklahoma, Montana, Wyoming, Colorado, and New Mexico; Far West-Pacific division, Idaho, Arizona, Utah, and Nevada.

YEAR AND MONTH	East	South	Middle West	Far West	YEAR AND MONTH	East	South	Middle West	Far West
1932.	64.5	63.9	61.3	67.0	1939				
1933.					January.	115.6	140.7	109.9	136.4
1934.	66.9	79.4	65.7	73.1	February.	119.6	147.8	112.1	142.9
1935.	80.4	95.9	79.6	90.1	March.	132.0	156.6	118.7	144.0
1936.	96.8	116.4	93.8	105.1	April.	122.4	164.3	118.0	140.9
1937.	115.1	138.9	103.4	123.8	May.	129.1	162.2	119.6	146.6
1938.	123.9	144.8	110.5	135.5	June.	133.8	165.8	116.4	144.1
1939.	115.2	134.0	103.8	128.9	July.	124.1	152.8	110.9	140.5
	127.9	153.7	115.5	142.1	August.	132.7	155.0	120.1	146.1
1938						123.6	150.0	113.5	138.7
January.	113.8	133.9	102.7	128.7	September.	120.7	145.4	113.3	133.7
February.	111.8	129.7	102.6	123.2	October.	129.5	151.6	108.9	135.8
March.	114.5	133.3	101.4	122.4	November.	137.7	157.4	121.9	148.8
April.	120.3	138.0	106.3	130.1	December.				
May.	113.8	134.1	101.5	132.7	1940				
June.	117.1	139.3	105.3	132.0	January.	130.6	152.6	126.3	147.5
July.	115.5	136.8	105.3	129.0	February.	129.6	150.1	121.8	155.1
August.	119.2	144.3	109.1	136.4	March.	133.6	167.9	125.1	146.0
September.	119.6	134.9	105.3	121.0	April.	120.8	152.8	112.5	142.2
October.	108.6	127.7	97.1	127.7	May.	137.3	160.1	120.4	153.9
November.	111.8	129.5	103.5	133.1	June.	145.0	164.9	123.3	153.9
December.	117.6	135.0	106.7	129.3					

Source: Department of Commerce, Bureau of Foreign and Domestic Commerce. See source of table 881 regarding current data.

No. 883.- SERVICE ESTABLISHMENTS SUMMARY, BY SERVICE GROUPS AND
KIND OF SERVICE: 1935

NOTE.—See headnote, table 884

[illegible]

No. 883. - SERVICE ESTABLISHMENTS- SUMMARY, BY SERVICE GROUPS AND KIND OF SERVICE: 1935- Continued

KIND OF SERVICE	Num-ber of estab-lish-ments	Receipts (thou- sandsof dollars)	Active proprie- tors and firm members	Em- ployees (full- time and part- time), average for year	PAY ROLL THOU- SANDS OF DOLLARS		
					Total	Full- time	Part- time
Business services-Continued.							
Court reporting and public stenographic agencies.	1,193	3,606	1,233	931	1,127	893	234
Dental laboratories.	1,800	17,990	1,806	5,061	6,224	6,076	148
Disinfecting and exterminating service	596	6,407	477	2,300	2,852	2,601	251
Duplicating, addressing, mailing, and mailing list service.	1,257	9,813	1,192	4,465	3,864	3,218	646
Employment agencies.	1,334	6,477	1,243	1,756	2,379	2,264	115
Freight forwarders and customhouse brokers, insurance claim adjustment offices independ- ently operate)	757	29,519	3831	9,596	13,184	12,768	416
Linen, coat, apron, and overalls supply service.	728	10,223	412	3,017	5,254	4,807	447
Photo finishing laboratories.	619	18,129	2931	3,784	4,892	4,841	51
Sign painting shops.	1,002	8,388	960	2,472	2,439	2,261	178
Licket agents and brokers, and travel bureaus.	5,035	14,048	5,326	3,754	3,584	2,856	728
Title and abstract companies.	939	12,493	710	2,682	4,513	4,411	102
Window cleaning service.	2,0421	22,642	1,170	8,527	11,968	11,544	124
Other business services.	749	9,588	701	5,907	6,197	5,626	571
	6,625	248,772	4,176	92,427	108,953	30,630	28,323
Repair services and custom industries:							
Automotive repairs and services (excluding general repair garages):							
Automobile laundries.	907	2,987	877	1,647	972	777	195
Automobile paint shops.	1,534	5,525	1,652	1,714	1,552	1,309	243
Automobile radiator shops.	1,109	3,850	1,153	919	874	799	75
Automobile rental service.	765	15,532	497	3,546	4,378	4,111	267
Automobile storage garages.	6,9051	68,040	5,853	17,296	17,381	16,601	780
Automobile top and body repair shops-	5,501	32,611	5,922	10,213	10,672	9,614	1,058
Battery and ignition repair shops-	2,377	8,487	2,467	1,559	1,338	1,221	117
Parking lots.	4,341	18,751	3,127	5,704	4,428	4,084	344
Tire repair shops.	2,065	6,490	2,101	1,144	927	833	94
Other automotive repairs.	7241	5,645	696	1,333	1,629	1,564	65
Other repair services (except apparel and shoes):							
Armature rewinding shops.	788	7,637	813	2,102	2,472	2,334	138
Bicycle repair shops.	1,313	2,462	1,326	428	265	236	29
Blacksmith shops.	20,325	23,154	21,142	4,534	2,829	2,328	501
Electrical appliance repair shops.	1,388	5,005	1,456	1,059	910	790	126
Harness and leather goods repair shops.	2,603	3,837	2,636	429	247	203	44
Locksmith and gunsmith shops.	2,173	4,160	2,222	737	636	580	56
Musical instrument repair shops.	459	7841	478	110	741	61	13
Piano and organ tuning and repair service.	443	652	455	94	866	69	17
Radio repair shops.	8,256	14,348	8,661	2,251	1,496	1,237	259
Refrigerator service and repair shops.	487	3,290	534	830	922	837	85
Saw and tool sharpening and repair shops.	714	1,501	729	315	331	306	25
Typewriter repair shops-	500	2,090	534	482	491	461	30
Uphoistery and turniture repair shops.	7,856	22,124	8,264	5,414	4,654	3,660	994
Watch, clock, and Weiry repair shops.	13,669	28,450	13,799	3,311	2,900	2,602	298
Other repair services.	10,452	28,441	10,904	6,744	6,602	5,763	839
Custom industries: 5							
Cabinetmaking shops (incl. woodworking).	2,245	3,950	2,380	811	630	447	183
Cider mills and presses-	404	2641	451	97	41	26	15
Grist mills.	9,318	8,556	9,193	3,516	1,085	849	236
Hemstitching, embroidering, and buttonhol- ing shops.	1,035	2,110	1,085	865	612	504	108
Machine shops.	2,983	7,251	3,182	1,927	1,548	1,311	237
Mattress renovating and repair shops.	920	3,171	949	849	6261	558	68
Molasses, sorghum, and sirup mills.	1,708	398	1,765	257	50	22	28
Printing and publishing shops.	12,640	31,891;	13,004	10,259	6,2711	5,308	963
Sawmills and planing, mills.	9,129	14,163	10,319	15,745	4,264	3,152	1,112
Threshing, corn shelling, hay balingmand other agricultural services.	22,051	15,745	25,973	9,335	3,272	1,821	1,451
Tinsmith shops.	2,318	5,826	2,426	1,407	1,048	745	303
Welding shops-	3,448	13,007	3,684	3,180	3,130	2,720	410
Other industries.	17,071	48,603	16,814	20,870	13,102	11,713	1,389
Miscellaneous services:							
Landscape gardening and treesurgery service.	881	9,165	* 861	3,525	4,169	3,635	584
Livery stables.	248	1,372	226	358	3181	305	13
Other miscellaneous services.	4,820	47,284	4,406	13,599	17,282	15,617	1,672

Includes custom industries and small manufacturing plants not included in the Census of Manufactures for the reason that the value of the products of such establishments is less than the minimum necessary to be classed as a manufacturing plant.

Source: Department of Commerce, Bureau of the Census; Census of Business, 1935, Service Establishments. Vol. I.

No. 884.- SERVICE ESTABLISHMENTS- SUMMARY, BY STATES: 1935

NOTE.-The census of service establishments covers a heterogeneous group of kinds of business (see table 883) primarily engaged in the sale of service, as distinguished from establishments dealing in merchandise. professional field, the financial, education, transportation, construction, and diverse other fields business activity, many of which are covered elsewhere, are not included. Owing to differences the scope of the 1933 and 1935 censuses of service establishments, the aggregates for 1935 are not comparable with the aggregates for 1933 published in the 1936 issue of the Abstract

[Receipts and payroll in thousands of dollars]

DIVISION AND STATE	Number of establishments	Receipts (thousands of dollars)	Active proprietors and firm members	Employees (full-time and part-time), average for year	PAY ROLL (THOUSANDS OF DOLLARS) 1		
					Total	Full-time	Part-time
United States.	574,708	2,023,302	580,840	634,232	567,517	497,118	70,399
New England.	39,649	133,121	39,327	37,541	34,086	29,708	4,378
Maine.	3,561	9,551	3,583	2,586	2,112	1,733	379
New Hampshire.	2,039	5,603	2,105	1,262	1,017	904	113
Vermont.	1,511	3,293	1,561	861	602	515	87
Massachusetts.	21,878	77,081	21,747	22,009	20,461	17,675	2,786
Rhode Island.	3,206	11,033	3,100	3,210	2,870	2,580	290
Connecticut.	7,454	26,560	7,231	7,613	7,024	6,301	723
Middle Atlantic.	149,418	662,462	148,984	179,682	191,979	168,778	23,201
NCW York.	86,479	458,474	86,539	121,522	140,014	123,987	16,027
New Jersey.	21,790	69,216	21,397	19,541	18,090	15,565	2,525
Pennsylvania.	41,149	134,772	41,048	38,619	33,875	29,226	4,649
East North Central.	118,289	429,462	120,033	122,009	113,804	102,929	10,875
Ohio.	32,004	106,694	32,215	31,944	28,977	26,186	2,791
Indiana.	15,354	37,914	16,130	11,871	8,846	7,939	907
Illinois.	36,760	172,615	37,108	44,553	46,807	42,918	3,889
Michigan.	20,278	71,582	20,325	22,019	19,552	17,672	1,880
Wisconsin.	13,893	40,657	14,255	11,622	9,622	8,214	1,408
West North Central.	69,472	172,938	72,299	54,237	41,140	36,618	4,522
Minnesota.	14,124	37,482	14,594	10,712	8,780	7,760	1,020
Iowa.	13,550	30,687	14,526	8,717	6,221	5,489	732
Missouri.	18,583	57,460	18,658	20,437	16,535	14,908	1,627
North Dakota.	2,576	5,002	2,535	1,272	895	789	106
South Dakota.	3,021	5,370	3,215	1,704	1,054	927	127
Nebraska.	8,328	17,153	8,906	5,070	3,571	3,171	400
Kansas.	9,290	19,784	9,665	6,325	4,084	3,574	516
South Atlantic.	50,485	155,694	49,866	68,490	46,550	41,045	5,505
Delaware.	1,256	4,052	1,240	1,066	848	755	93
Maryland.	7,058	22,743	6,958	7,801	6,594	5,157	1,437
District of Columbia.	2,962	19,363	2,765	6,589	6,743	6,468	275
Virginia.	6,643	20,732	6,574	9,373	5,992	4,991	1,001
West Virginia.	4,760	12,703	4,827	3,775	2,842	2,537	305
North Carolina.	8,141	19,877	8,254	10,493	5,941	5,295	646
South Carolina.	4,317	9,543	4,291	5,738	2,812	2,443	369
Georgia.	9,087	23,541	8,912	13,433	7,315	6,730	585
Florida.	6,261	23,140	6,045	10,222	7,463	6,669	794
East South Central.	32,664	70,997	33,265	32,770	18,650	16,478	2,172
Kentucky.	9,264	20,879	9,577	7,387	4,825	4,340	485
Tennessee.	9,967	25,318	10,187	10,936	6,741	6,166	575
Alabama.	7,620	16,077	7,563	9,472	4,837	4,068	769
Mississippi.	5,813	8,723	5,938	4,975	2,247	1,904	343
West South Central.	44,200	126,884	45,136	55,426	38,670	33,804	4,866
Arkansas.	5,427	11,206	6,616	5,405	2,905	2,650	255
Louisiana.	6,262	21,539	6,206	10,407	7,901	6,290	1,611
Oklahoma.	9,735	21,821	9,926	8,936	5,891	5,296	595
Texas.	22,776	72,318	23,390	30,678	21,973	19,568	2,405
Mountain.	16,860	47,237	17,277	14,343	11,829	10,551	1,278
Montana.	2,431	6,678	2,475	1,722	1,576	1,388	188
Idaho.	2,524	5,621	2,648	1,807	1,225	1,048	177
Wyoming.	1,079	2,825	1,118	773	633	578	55
Colorado.	5,466	15,790	5,476	4,980	4,125	3,727	398
New Mexico.	1,169	3,590	1,188	1,102	905	824	71
Arizona.	1,381	5,112	1,376	1,664	1,468	1,308	160
Utah.	2,409	6,229	2,587	1,970	1,547	1,344	203
Nevada.	401	1,392	409	325	350	324	26
Pacific.	53,671	230,507	54,651	69,734	70,809	57,207	13,602
Washington.	8,650	32,691	8,715	9,951	10,148	7,511	2,537
Oregon.	5,541	19,289	5,656	6,613	5,865	4,906	959
California.	39,480	178,527	40,280	53,170	54,796	44,690	10,106

1 Includes no compensation for proprietors and firm members of unincorporated businesses.

Source: Department of Commerce, Bureau of the Census; Census of Business, 1935, Service Establishments, Vol. I.

267706-41-58

No. 885. - POWER LAUNDRIES, CLEANING AND DYEING ESTABLISHMENTS, AND RUG-CLEANING ESTABLISHMENTS SUMMARY: 1919 TO 1935

NOTE.-All money figures in thousands of dollars. Statistics cover establishments reporting receipts of \$5,000 or more. Data for power laundries relate to commercial laundries. Data for cleaning and dyeing establishments are restricted to establishments using mechanical power; they include cleaning and dyeing departments of laundries where separate data could be obtained. Rug-cleaning, which was given a separate classification beginning with 1933, was treated in general as activity of the power laundry industry at prior censuses; statistics include rug-cleaning departments of laundries and of cleaning and dyeing plants so far as they were reported separately. Data for 1933 are incomplete, as about 25 percent of the cleaning and dyeing establishments that had reported for 1933 failed to supply any information as to their status or activities in 1933. The laundries that failed to report accounted for around 8 percent of the 1931 totals for number of wage earners and receipts for work done on all laundries, while the cleaning and dyeing establishments that did not report accounted for about 10 percent of the 1931 totals for these two items for cleaning and dyeing establishments.

	Number of laundries	Proprietors and firm members	Salaried employees	Wage earners (average for the year)	Salaries	Wages	Cost of supplies, fuel, and purchased electric energy	Cost of contract work	Receipts for work done
Power laundries:									
1919.	4,881	(2)	(2)	130,489	(2)	91,926	52,842	1,555	233,816
1925.	4,859	3,851	15,412	169,200	31,613	162,466	55,407	1,107	362,295
1927.	6,013	5,224	17,828	203,216	35,781	201,132	68,283	(3)	454,034
1929.	6,776	5,220	21,964	233,187	49,833	228,861	80,2651	(3)	541,158
1931.	6,400	(2)	(2)	217,138	(2)	202,197	67,267	2,372	465,969
1933.	5,122	3,416	13,767	175,545	17,858	126,838	47,706	1,971	295,641
1935.	6,316	4,244	19,920	208,354	34,586	154,791	62,796	2,356	369,452
Cleaning and dyeing establishments:									
1919.	1,748	(2)	(2)	18,408	(2)	17,866	11,511	461	53,183
1925.	2,406	2,263	5,769	29,386	10,550	37,590	15,188	814	102,394
1927.	3,175	3,106	7,332	40,251	14,474	52,542	18,829	1,340	142,814
1929.	5,296	4,912	9,244	59,148	20,390	75,931	26,837	(3)	201,255
1931.	4,568	(2)	(2)	50,643	(2)	57,829	20,250	1,234	147,514
1933.	3,594	3,000	4,981	43,619	5,048	36,894	15,470	695	93,314
1935.	5,510	4,980	9,334	57,286	12,483	49,792	21,656	1,129	4130,657
Rug-cleaning establishments:									
1933.	270	250	146	1,596	1865	1,404	772	28	4,400
1935.	506	3951	6701	2,344	1,1361	2,2601	1,2111	905	48,001

Figures for 1933 excluded data for salaried officers of corporations included in figures for other years.

Not available.

Included in figures for supplies, fuel, and purchased electric energy.

Figures for power laundries include \$876,000 receipts for rug cleaning and \$25,574,000 receipts for cleaning and dyeing; figures for cleaning and dyeing establishments include \$1,683,000 receipts for rug cleaning and \$1,365,000 receipts for laundry work; figures for rug-cleaning establishments include \$173,000 receipts for cleaning and dyeing.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures. The 1933 figures were collected in cooperation with the Laundry Owners National Association and the National Association of Dyers and Cleaners.

No. 886. HOTELS SUMMARY FOR HOTELS WITH 25 OR MORE GUEST ROOMS, 1929, 1933, AND 1935, AND FOR ALL HOTELS, BY SIZE, 1935

NOTE. Receipts and pay in thousands of dollars. The census includes principally establishments designating themselves as hotels and providing accommodations as their major business activity. Establishments reporting a total of less than six guest rooms or receipts from room rentals amounting to less than \$500 for a full year's operations, are excluded from the 1935 figures. Owing to differences in coverage for 1929, 1933, and 1935, comparable data for these years are available only for year-round hotels of 25 or more guest rooms.

ITEM	1923	1933	1935	SIZE (BASED ON NUMBER OF GUEST ROOMS)	Number	Receipts	Proprietors, etc.	Employees
YEAR-ROUND HOTELS WITH 25 OR MORE GUEST ROOMS:				All hotels, 1935.	28,822	720,145	24,573	291,165
Number of hotels.	11,873	10,680	11,373	Hotels having				
Number of guest rooms.	1,005,684	390,866	934,661	Less than 25 rooms.	13,092	54,671	112,912	22,365
Receipts.	873,508	308,674	565,317	25 to 49 rooms.	8,352	69,810	7,741	30,534
Employees (full-time and part-time). ²	267,903	190,183	234,491	50 to 99 rooms.	4,436	96,619	3,084	40,389
Total payroll	232,137	118,489	158,405	100 to 299 rooms.	2,423	212,836	813	88,682
				300 rooms and over—	519	286,209		23/109,195

Data for California are not included comparable figures for all years are not available.

Average number based on number of employees for April, July, October, and December. Includes no compensation for proprietors and members of unincorporated businesses.

² Active proprietors and firm members.

Arm Full-time and part-time, average for year.

Source: Department of Commerce, Bureau of the Census; Census of Business, 1935, Hotels.

No. 887.-- HOTELS SUMMARY, BY STATES: 1935

NOTE.—Receipts and payroll in thousands of dollars. See headnote, table 886

DIVISION AND STATE	Number of establishments	Number of guest rooms	Receipts	Active proprietors and firm members	Employees (full-time), average for year	Total payroll	ANALYSIS OF RECEIPTS				
							Hotels reporting	Total receipts	Room rentals and sale of meals	Sale of beverages	Sale of merchandise
United States.	28,822	4,286,646	720,146	24,573	281,165	91,845	27,971	606,210	66,747	2,082	11,727
Year-round hotels.	25,452	4,250,207	5,806	21,612	276,000	83,008	27,092	340,223	36	10,945	
Seasonal hotels.	3,370	150,634	45,249	2,961	15,159	8,837	3,175	42,861	38,901	1,677	782
New England.	1,935	83,740	48,368	1,589	19,076	12,639	1,850	46,922	36,381	7,344	801
Maine.	532	20,846	7,681	465	3,013	1,654	515	7,611	6,497	552	177
New Hampshire.	365	12,065	4,245	328	1,840	984	344	3,642	3,276	227	65
Vermont.	157	5,730	3,040	126	1,293	685	152	2,921	2,263	473	84
Massachusetts.	530	29,387	23,928	404	9,180	6,660	505	23,636	17,392	4,597	356
Rhode Island.	87	4,266	3,298	59	1,288	993	81	3,155	2,208	754	26
Connecticut.	264	11,446	6,176	207	2,462	1,663	253	5,957	4,745	741	93
Middle Atlantic.	4,325	294,097	212,589	3,559	77,019	58,613	4,099	201,550	155,252	29,419	2,301
New York.	2,207	188,303	146,261	1,748	50,728	41,785	2,127	137,203	105,424	19,844	1,107
New Jersey.	948	49,431	26,989	791	9,919	6,407	879	26,358	22,157	2,621	207
Pennsylvania.	1,170	56,363	39,339	1,020	16,372	10,421	1,093	37,989	27,676	6,954	987
East North Central.	4,034	253,464	134,044	3,238	57,916	39,979	3,898	131,439	101,937	16,236	2,739
Ohio.	859	52,927	32,064	693	14,681	9,681	839	31,582	24,371	4,374	499
Indiana.	502	25,188	11,237	404	5,397	3,030	491	11,171	9,025	1,077	293
Illinois.	1,210	102,113	53,991	888	22,179	17,890	1,184	53,050	40,863	5,989	1,141
Michigan.	8365	47,872	23,144	707	9,940	6,169	803	22,719	17,691	2,862	400
Wisconsin.	627	25,364	13,608	546	5,719	3,209	581	12,917	9,987	1,934	406
West North Central.	3,530	144,277	62,241	3,097	26,921	15,122	3,447	60,643	50,166	5,380	1,488
Minnesota.	794	35,032	16,074	698	6,557	3,884	776	15,960	12,691	1,945	388
Iowa.	501	21,470	8,505	448	3,717	1,960	499	7,608	6,477	484	199
Missouri.	906	42,974	20,279	742	9,353	5,557	886	20,121	16,382	1,916	434
North Dakota.	254	7,616	2,477	232	775	476	248			(2)	
South Dakota.	191	6,567	2,234	181	844	429	186	8	3	(4)	8
Nebraska.	364	14,265	7,056	326	2,821	1,546	352	6,864	5,677	579	221
Kansas.	515	16,353	5,616	470	2,652	1,270	500	5,521	4,994	122	122
South Atlantic.	3,159	144,059	79,038	2,530	33,443	18,993	3,069	76,310	66,071	4,100	1,160
Delaware.	331	1,253	1,186	29	442	267	32	(C)	802	272	5
Maryland.	217	9,177	6,267	185	2,719	1,600	205	6,251	4,546	1,192	141
Dist. of Col.	76	12,033	15,544	381	5,017	4,500	75	(4)	12,461	1,452	195
Virginia.	410	17,011	10,091	331	4,778	2,422	398	9,978	8,549	291	342
West Virginia.	282	11,720	5,619	237	2,755	1,535	273	5,563	4,796	1721	130
North Carolina.	391	16,660	7,469	306	4,019	1,838	3801	6,858	6,419	92	51
South Carolina.	203	7,654	3,435	161	1,864	767	198	3,267	3,074	57	39
Georgia.	374	16,158	7,666	313	4,301	1,762	3651	7,250	6,560	143	67
Florida.	1,173	52,393	21,761	9301	7,548	4,212	1,143	20,550	18,864	429	190
East South Central.	1,162	46,053	22,859	996	12,477	5,344	1,140	22,442	19,770	734	433
Kentucky.	355	12,633	6,757	313	3,487	1,711	350	6,642	5,581	523	163
Tennessee.	369	15,764	8,857	314	4,525	1,928	362	8,806	7,662	167	200
Alabama.	248	9,728	4,223	210	2,656	998	244	4,211	3,930	5	46
Mississippi.	190	7,928	3,022	159	1,809	707	184	2,783	2,597	39	24
West South Central.	3,079	110,102	46,363	2,757	21,651	11,005	3,005	44,371	38,390	1,405	939
Arkansas.	351	11,786	4,622	310	2,388	948	342	4,553	3,957	132	148
Louisiana.	284	11,389	7,580	242	3,483	1,905	282	(4)	(4)	(4)	(9)
Oklahoma.	720	24,774	7,177	671	3,663	1,831	701	6,456	5,805	1041	123
Texas.	1,724	62,153	26,984	1,534	12,117	6,321	1,680	(C)	(4)	(C)	(C)
Mountain.	2,456	85,743	28,710	2,253	11,151	7,223	2,389	27,664	24,291	1,521	611
Montana.	476	15,778	4,476	442	1,601	1,077	470	4,419	3,789	320	147
Idaho.	2805	8,570	2,744	257	962	585	273	2,684	2,350	101	92
Wyoming.	203	7,317	2,296	191	695	483	1975	2,259	2,002	159	48
Colorado.	696	25,788	7,682	652	3,249	1,950	675	7,026	6,184	376	144
New exico.	218	6,627	2,542	197	1,129	753	211	2,453	2,320	58	49
Arizona.	239	9,145	4,336	203	1,755	1,213	232	4,315	3,701	307	91
Utah.	208	8,072	2,884	187	1,256	756	206	2,865	2,520	59	33
Nevada.	136	4,446	1,750	124	504	397	125	1,633	1,425	141	7
Pacific.	5,142	267,111	85,933	4,554	31,511	23,017	5,074	83,869	71,484	5,943	1,255
Washington.	1,017	49,798	13,076	936	5,380	3,436	1,002	12,120	10,834	4961	248
Oregon.	553	25,557	6,626	508	2,628	1,674	543	6,725	6,131	186	103
California.	3,572	191,756	56,031	3,110	23,503	17,907	3,529	65,024	54,519	5,261	904

Includes no compensation for proprietors and firm members of unincorporated businesses.

Total includes miscellaneous receipts not shown separately, amounting to \$47,654,000 for United States. 9,029 hotels with total receipts of \$505,335,000 reported room rentals and sales of meals separately, as follows: Rentals, \$231,568,000; meals, \$162,322,000.

Figures withheld to avoid disclosing operations of individual seasonal hotels.

Source: Department of Commerce, Bureau of the Census; Census of Business, 1935, Hotels.

No. 888. ADVERTISING AGENCIES SUMMARY: 1935

NOTE.—All money figures thousands of dollars. Only those establishments that contract for space or other advertising media and place the advertising for the client on a commission or fee basis are included.

ITEM	AGENCIES REPORTING-				SIZE-OF-BILLINGS GROUP (IN THOUSANDS OF DOLLARS)	RATIOS BY SIZE OF BILLINGS GROUPS			
	Total	Billings in detail	Total billings	No billings		Number of companies	Percent	Percent	Percent
							total revenue	roll revenue	net revenue
Number establishments.	1,212	918	174	120	Total.	978	100.0	58.3	15.1
Number of companies.	1,089	820	158	111					
Revenue receipts.	70,40	60,801	7,636	2,403					
Active proprietors and firm members.	583	444	73	66	Billings Under 500.	867	24.2	57.2	18.4
Employees (average).	13,039	10,947	1,564	528	500 to 1,000.	41	6.5	65.5	15.5
Total pay roll	41,336	35,518	4,103	1,265	1,000 to 2,000.	31	3.8	64.5	15.1
Part-time.	41,336	35,518	4,103	1,265	2,000 to 5,000.	24	15.3	62.6	14.3
Total operating expenses	61,643	52,818	6,685	2,140	Over 5,000.	15	14.2	55.0	14.1
Total billings.	(3) 74	105,888	46,377	(3)					

Includes no compensation for proprietors and firm members of an incorporated businesses.

Including pay roll. 31 Not available.

Distribution of billings by type of media: Newspapers, \$153,152,000; general magazines, including agricultural and religious papers, \$107,330,000; trade and merchandising, industrial, and class and professional papers, \$15,758,000; radio networks, spot broadcasting, and radio talent (not billed through broadcasting systems), \$63,307,000; car cards, outdoor advertising, window display (through organizations), and other media billings, \$23,109,000; direct mail advertising, \$4,118,000; art and mechanical charges, \$26,124,000; all other, \$12,990,000.

No. 889. - RADIO BROADCASTING SUMMARY: 1935

NOTE. Figures cover only those radio stations and networks that sell time

		NET REVENUE (THOUSANDS OF DOLLARS)						PAY ROLL (THOUSANDS OF DOLLARS)			
		Number of networks or stations	From sale of time					Employees (full-time and part-time), average for year			
			Total	Total	National and regional		Local advertising		Total	Full-time	Part-time
					Net-work	Non-net-work					
Total networks and stations.			86,493	79,618	39,738	13,805	26,074	14,561	26,911		
Networks.											
Commercial broadcast stations.		8	30,199	27,216	27,216			22,001	25,420		
Experimental stations.		557	156,293	152,325	12,522	13,799	26,004	12,484	21,410	19,719	1,691
COMMERCIAL BROADCAST STATIONS BY POWER (IN WATTS) AND AFFILIATION											
United States:											
100 or less.		238		5,986	218	540	5,228	2,425	2,916	2,757	159
101 to 999.		131		8,466	1,371	1,366	5,729	2,406	3,623	3,389	234
1,000 to 4,999.		126		16,702	4,242	3,546	8,914	4,023	7,077	6,401	676
5,000 to 9,999.		16		1,902			1,065	509	880	800	80
10,000 to 49,999.		13		2,298	-6,691	8,347	883	408	751	696	55
50,000 and over.		33		16,971			4,185	2,713	6,163	5,676	487
Network affiliation.		194		38,999	12,522	11,893	14,584	7,265	14,380	13,161	1,219
100 or less.		17		885	218	110	557	231	255	241	14
101 to 999.		42		4,770	1,371	911	2,488	766	1,767	1,674	93
1,000 to 4,999.		77		12,942	4,242	2,964	5,736	2,770	4,911	4,418	493
5,000 and over.		58		20,402	6,691	7,908	5,303	3,498	7,447	6,828	619
No network affiliation.		363		13,326		1,906	11,420	5,219	7,030	6,558	472
100 or less.		221		5,101		430	4,671	2,194	2,661	2,516	145
101 to 999.		89		3,696		455	3,241	1,640	1,856	1,715	141
1,000 to 1,999.		49		3,760		582	3,178	1,253	2,166	1,983	183
5,000 and over.		4		769		439	330	132	347	344	3

Includes net revenue from sale of talent and other sources, not shown separately, as follows: Total, \$6,875,000; networks, \$2,983,000; broadcast stations, \$3,892,000 including 2,598,000 from sale of talent and \$1,294,000 from other sources.

2 Data for five networks. The other three networks allocated their personnel to affiliated stations.

Source of tables 888 and 889: Department of Commerce, Bureau of the Census; Census of Business, 1935, Advertising Agencies and Radio Broadcasting.

34. CONSTRUCTION AND HOUSING

No. 890. — CONSTRUCTION CONTRACTS AWARDED IN 37 STATES—VALUE OF CONSTRUCTION AND FLOOR SPACE OF BUILDINGS, BY CLASS OF CONSTRUCTION: 1925 TO 1939

NOTE—For figures, see table 891. Public works and public utilities covers some projects not measurable in terms of floor space, such as highways, pipe lines, subways, etc. Statistics for the 37 States were not compiled for years prior to 1925, but available figures covering a varying number of States for earlier years have been published in the 1932 and previous issues of the Statistical Abstract. Figures for the individual States and districts in table 891 represent the value of construction contracts awarded in the States and districts where the work was actually done.

(Values in millions of dollars; floor space in thousands of square feet)

YEAR	Total	Residential	Commercial	Industrial	Public works	Public utilities	Education	Hospital and institutional	Public buildings	Religious	Social and recreational	Miscellaneous non-residential
Value of construction:												
1925.	6,006.42	747.7	872.4	326.6	653.9	403.0	418.7	111.1	54.5	153.1	253.0	12.4
1926.	5,380.92	571.1	920.9	471.3	779.6	512.5	372.7	133.1	67.2	148.8	251.5	52.2
1927.	3,031.12	573.3	932.9	375.9	972.9	318.3	368.9	162.5	79.5	156.5	260.9	101.5
1928.	628.3/2,783.3	884.6	508.8	984.4	417.4	390.0	164.7	76.2	127.9	218.8	67.0	
1929.	750.81/915.7	929.2	545.9	940.1	469.6	369.6	152.2	120.8	106.1	146.6	54.9	
1930.	4,523.11/1,013.3	616.3	256.6	969.6	629.85	366.2	163.1	139.8	92.8	116.6	70.9	
1931.	3,092.8	811.4	311.1	116.2	880.9	259.9	223.4	121.2	181.3	53.1	98.7	35.8
1932.	1,351.2	280.1	122.7	43.5	521.1	62.4	80.7	48.4	118.01	27.3	33.9	13.2
1933.	1,255.7	249.3	99.4	127.5	504.5	84.55	38.9	37.3	50.9	17.7	27.2	18.7
1934 3	1,543.1	248.8	150.6	116.1	631.6	111.5	112.3	37.3	55.7	18.3	46.2	14.7
1935.	1,844.5	478.8	164.5	108.9	589.1	95.75	168.3	47.1	97.8	23.7	54.9	16.0
1936.	2,675.3	801.6	249.1	198.0	721.8	192.1	219.0	74.1	102.2	28.3	74.9	14.2
1937.	2,913.1	905.3	207.0	313.7	588.71	262.9	223.2	81.8	104.9	36.9	83.8	14.8
1938.	3,196.9	985.8	215.8	121.1	850.2	288.8	334.1	115.6	114.1	35.8	108.0	27.7
1939.	3,550.5/1,384.3	246.9	174.8	961.7	280.0	201.4	82.9	110.0	38.4	82.2	28.9	
Floor space of buildings:												
1925.	946,226/559,400	160,065	66,901	3,040.1	11,358	50,543	14,037	8,294	18,870	32,261	1,357	
1926.	583,794/521,062	152,307	75,705	596	6,412	53,757	14,790	7,857	15,370	30,434	4,454	
1927.	30,578X9X,006	241,816	38,131	918	4,535	53,917	18,802	9,943	17,192	33,520	7,240	
1928.	06,568/1565,352	160,102	92,902	609	3,496	31,490	20,004	11,288	15,398	28,012	5,785	
1929.	791,099/387,670	161,264	105,524	4501	5,353	58,639	19,496	12,626	12,818	21,457	5,802	
1930.	510,382/230,040	96,586	48,019	826	7,611	56,955	19,121	17,023	10,864	16,089	7,248	
1931.	365,841/190,274	50,037	20,109	496:	1,550	36,598	16,880	24,257	5,578	14,018	3,044:	
1932.	155,577	73,6071	23,884	9,048	575	1,219	13,710	7,319	16,198	3,518	5,535	964
1933.	147,053	72,783	22,551	18,985	170	1,491	5,523	5,598	9,474	2,633	5,606	2,239
1934.	152,394	64,255	28,261	17,566	292	1,804	16,775	4,222	9,425	2,650	6,532	612
1935.	251,558/135,416	35,391	20,638	915	1,077	26,046	6,176	13,522	3,534	7,909	934	
1936.	09,676/222,514	57,178	40,291	1,038	3,360	41,985	10,369	14,282	4,312	12,852	1,495	
1937.	446,084/235,515	62,283	50,816	1,301	5,197	36,489	11,411	12,454	5,730	13,544	1,334	
1938.	429,028/240,568	11,789	25,247	1,038	1,682	57,023	17,235	15,564	5,303	17,691	5,893	
1939.	513,380/332,656	48,798	44,268	607	1,324	34,418	11,593	15,121	6,213	12,371	6,020	

1 Owing to change in classification, data for airports have been excluded from "Commercial" class and included with "Public utilities" for 1930 and subsequent years. Separate figures for airports are not available for years prior to 1930.

2 Owing to change in classification, figures for "Industrial" exclude data for pipe lines for 1929 and subsequent years (separate figures not available for years prior to 1929), which data are included with those for "Public utilities."

3 Figures exclude data for 23 projects, valued at \$20,551,900, for which data class of construction are not available. These projects were under Civil Works Program, which was in existence after March 1934.

Source: The F. W. Dodge Corporation, New York, N. Y.: Statistical and Research Division historical record. Figures published currently in Statistical Research Service.

No. 891.- CONSTRUCTION CONTRACTS AWARDED IN 37 STATES- VALUE, BY DISTRICTS AND STATES: 1932 TO 1939

NOTE. Value in thousands of dollars. See headnote, table 890

DISTRICT AND STATE	1932	1933	1934	1935	1936	1937	1938	1939
Total (37 States)	1,351,159	1,255,708	1,543,109	1,844,646	1,676,298	2,913,060	3,106,928	3,560,543
New England.	114,053	120,696	144,861	148,040	215,364	199,587	255,210	255,223
Maine.	8,747	6,336	7,541	9,774	10,419	9,201	15,517	8,193
New Hampshire.	4,079	5,627	7,038	4,791	7,559	7,994	11,347	12,354
Vermont.	4,318	5,927	5,835	7,663	7,745	7,341	6,884	7,213
Massachusetts.	64,101	62,123	82,317	83,589	115,364	100,298	126,063	126,990
Rhode Island.	6,348	8,822	12,105	9,931	19,723	11,630	22,316	23,692
Connecticut.	26,461	31,862	30,026	32,291	54,554	63,122	73,083	76,781
Metropolitan New York and vicinity.	190,678	176,618	206,498	302,246	417,988	499,157	587,703	547,176
New York (New York City to Newburgh).	138,229	133,011	163,158	240,272	316,967	407,539	495,401	431,158
New Jersey (Northern).	52,449	43,607	43,339	61,973	101,021	91,619	92,302	116,018
Upstate New York.	75,955	76,671	82,414	63,763	120,460	116,444	127,026	138,691
Middle Atlantic.	227,615	136,101	319,018	228,157	321,060	377,968	364,762	433,455
Pennsylvania (Eastern).	83,837	52,609	66,244	70,090	128,413	138,501	133,917	158,572
New Jersey (Southern).	12,495	10,205	20,218	17,457	28,031	25,638	19,860	24,738
Maryland.	34,995	24,238	33,601	41,197	52,113	70,008	72,528	80,833
Delaware.	6,418	4,975	7,558	6,715	13,740	9,704	11,375	13,635
District of Columbia.	68,487	18,978	23,238	51,676	55,315	65,444	46,437	77,175
Virginia.	21,383	25,096	40,158	41,023	43,449	68,674	30,645	78,502
Pittsburgh.	151,612	146,866	320,085	216,567	284,556	386,089	382,479	553,101
Pennsylvania (Western).	34,883	24,447	37,405	47,969	67,521	112,148	92,469	104,837
West Virginia.	14,599	9,650	46,193	21,376	22,403	24,459	34,619	36,511
Ohio.	81,479	84,921	95,432	119,118	163,039	205,549	195,457	244,587
Kentucky.	20,652	27,848	21,055	28,105	31,593	43,933	59,934	187,166
Southeastern.	83,260	127,033	155,184	178,594	287,504	264,972	288,357	373,123
North Carolina.	12,507	19,655	34,373	32,050	51,790	55,741	61,638	68,402
South Carolina.	7,659	6,252	15,079	18,493	32,272	34,039	34,814	41,077
Georgia.	21,363	15,194	28,684	35,598	0,134	32,946	50,847	64,837
Florida.	19,292	28,727	41,823	53,843	72,674	86,913	74,729	92,223
Tennessee (Eastern).	11,935	31,442	14,003	20,227	42,430	26,303	31,769	64,232
Alabama.	10,503	25,762	21,223	18,383	48,204	29,030	34,560	42,352
Chicago.	152,842	121,885	176,174	228,821	822,240	307,824	319,294	395,384
Illinois (Northern).	66,649	55,489	80,826	102,810	143,974	137,384	119,954	191,559
Indiana.	25,769	29,590	41,023	46,281	70,257	69,037	78,671	87,155
Iowa.	25,352	18,254	28,151	39,542	46,857	44,001	57,213	55,206
Wisconsin (South and East).	35,071	18,553	26,174	40,187	61,153	57,402	63,466	61,464
Central Northwest.	61,516	44,072	58,599	64,553	89,388	92,387	93,659	100,916
Minnesota.	36,881	25,315	29,588	34,757	53,377	54,739	56,779	69,446
North Dakota.	7,620	2,948	6,918	6,727	10,626	6,877	8,258	8,364
South Dakota.	4,216	6,258	8,262	8,237	8,754	9,498	9,945	7,696
Michigan (No. Peninsula).	3,897	2,817	4,834	8,623	6,003	8,220	7,827	5,898
Wisconsin (North and West).	8,904	6,733	8,998	6,208	10,629	13,053	10,860	9,512
Southern Michigan (South Peninsula).	41,715	47,969	54,842	88,740	136,535	163,976	191,541	155,998
St. Louis.	81,771	80,303	95,504	114,128	177,831	154,607	187,429	196,930
Illinois (Southern).	27,705	23,052	36,882	33,262	54,210	60,702	74,861	78,380
Missouri (Eastern).	38,317	34,845	29,607	51,414	59,169	64,825	70,454	71,242
Arkansas.	11,327	17,550	22,212	22,783	29,128	17,777	27,683	29,172
Tennessee (Western).	4,422	4,856	6,802	6,669	35,324	11,304	14,431	18,136
Kansas City.	76,681	73,751	77,746	90,906	121,185	126,137	139,083	127,930
Kansas.	23,788	16,368	14,393	24,856	39,857	37,417	35,431	35,478
Oklahoma.	21,665	20,257	21,270	31,872	31,726	36,111	45,853	34,413
Nebraska.	14,659	18,357	23,278	16,959	21,472	28,567	32,126	33,938
Missouri (Western).	17,169	18,768	18,805	17,219	28,131	24,041	24,673	24,101
Texas (State only).	56,233	59,652	64,282	69,002	110,240	132,118	168,550	179,337
New Orleans.	37,227	44,093	55,902	51,030	70,946	91,794	91,825	93,279
Louisiana.	22,594	34,745	40,395	36,069	34,591	62,919	56,931	61,677
Mississippi.	14,633	9,348	15,507	14,961	36,355	28,875	34,894	31,602
Totals for States in more than one district:								
New Jersey.	64,944	53,813	63,557	79,430	129,052	117,256	112,162	140,756
New York.	214,184	209,682	225,572	304,035	377,426	523,982	522,427	569,849
Pennsylvania.	118,721	77,055	103,649	118,059	195,933	250,649	226,386	263,409
Tennessee.	16,358	36,298	20,805	26,896	77,755	37,607	46,200	82,368
Illinois.	94,354	78,541	117,709	136,072	198,184	198,085	194,815	269,939
Wisconsin.	43,975	25,286	35,172	46,396	71,781	70,456	74,316	70,976
Missouri.	55,486	53,613	48,412	68,633	87,300	88,866	95,127	95,343
Michigan.	45,612	50,787	59,676	97,363	142,537	172,196	199,368	161,896

New York City, Long Island, and Westchester, Orange, Putnam, and Rockland Counties, N. Y.

- All construction contracts awarded in New York City, Long Island, and Westchester, Orange, Putnam, and Rockland Counties, N. Y., and in the Middle Atlantic, \$28,668,900; Pittsburgh, \$883,000.

Source: The F. W. Dodge Corporation, New York, N. Y. Figures published currently in Statistical Research Service.

No. 892. CONSTRUCTION CONTRACTS AWARDED IN 37 STATES-VALUE, BY PUBLIC AND PRIVATE OWNERSHIP, AND FLOOR SPACE, BY MONTHS: 1936 TO 1940

NOTE.-See headnote, table 890

VALUE (THOUSANDS OF DOLLARS)

MONTH	Total					Public ownership				
	1936	1937	1938	1939	1940	1936	1937	1938	1939	1940
Total.	2,675,288	2,813,060	3,196,925	3,501,543		1,334,230	1,151,943	1,704,720	1,708,239	
January.	214,793	242,719	192,231	251,573	196,191	149,192	112,237	117,601	147,916	92,532
February.	140,419	188,257	118,945	220,197	200,574	78,831	69,381	51,054	110,975	81,666
March.	198,762	231,246	226,918	300,661	272,178	96,110	66,355	94,597	127,776	94,971
April.	234,632	269,534	222,016	330,030	300,504	104,559	74,164	99,219	159,656	103,450
May.	216,071	243,738	283,156	308,487	328,914	94,491	92,526	143,700	134,757	111,578
June.	232,665	317,742	251,006	288,316	324,726	116,390	137,458	107,777	127,595	147,316
July.	294,735	321,603	239,799	299,883	398,673	153,302	130,776	97,838	136,543	204,568
August.	275,281	281,217	313,141	312,328	414,941	153,018	103,641	171,099	158,459	195,293
September.	234,272	207,072	300,900	323,227	347,651	115,560	79,624	160,125	144,216	143,996
October.	225,768	202,081	357,698	261,796		101,231	77,839	203,359	91,604	
November.	208,204	198,401	301,679	299,847		89,086	92,889	178,948	143,647	
December.	199,696	209,450	389,439	354,098		82,460	115,053	279,403	225,095	

Value (thousands of dollars) - Continued

Total	Private ownership					Floor space of buildings (thousands of square feet)				
	1936	1937	1938	1939	1940	1936	1937	1938	1939	1940
Total	1,341,068	1,761,117	1,492,208	1,842,304		409,676	446,084	428,028	513,380	
January.	65,601	130,482	74,630	103,757	103,659	27,053	33,442	19,200	34,511	28,282
February.	61,583	118,876	67,891	109,222	118,908	20,857	28,942	18,904	32,055	31,598
March.	102,652	164,891	132,321	172,885	177,207	31,258	41,569	34,055	13,733	45,705
April.	130,073	195,370	122,797	170,374	197,054	37,468	48,240	32,569	45,162	50,263
May.	121,580	151,212	139,456	173,730	217,336	36,363	40,222	34,760	45,488	53,347
June.	116,275	180,284	143,229	160,721	177,410	36,881	46,302	35,882	43,115	51,736
July.	141,433	190,827	141,961	163,340	194,105	38,763	45,812	33,308	44,993	59,824
August.	122,263	177,576	142,042	153,869	219,648	40,285	40,880	38,527	43,605	62,903
September.	118,712	127,448	140,775	179,011	203,655	35,448	32,354	37,528	49,570	65,085
October.	124,537	124,242	151,339	170,192		36,719	30,266	50,609	45,176	
November.	119,118	105,512	122,731	156,200		34,948	29,337	45,138	46,547	
December.	117,236	94,397	110,036	129,003		33,633	28,718	48,548	34,424	

Source: The F.W. Dodge Corporation, New York, N. Y.; Statistical and Research Division, historical record. Figures published currently in Statistical Research Service.

No. 893.- CONSTRUCTION CONTRACTS AWARDED-INDEXES OF VALUE: 1919 TO 1940

NOTE.-1923-25 average-100. Indexes are derived from monthly figures of construction contracts awarded reported by the F. W. Dodge Corporation. Reports covered 37 States beginning with May 1924 and a varying number for earlier years. In order to obtain comparable figures from 1919 to date, the total value of construction contracts awarded in 37 States was estimated for January 1919 through April 1924. Seasonal adjustments were computed separately for "residential" and "all other" types of construction and the two series combined. The indexes are based on a 3-month moving average, centered at the middle month. For a more detailed description of the Indexes, see the Federal Reserve Bulletin for July 1931.

YEAR	Total	Residential	All other	YEAR AND MONTH	Total	Residential	All other	YEAR AND MONTH	Total	Residential	All other
1919.	63	44	79	1938:				1939-Con.			
1920.	63	30	90	January.	52	26	73	April.	67	58	74
1921.	56	44	65	February.	51	32	66	May.	63	55	68
1922.	79	68	88	March.	46	33	56	June.	63	58	67
1923.	84	81	86	April.	52	37	65	July.	67	62	71
1924.	94	95	94	May.	51	37	62	August.	73	67	78
1925.	122	124	120	June.	54	42	64	September.	73	68	76
1926.	129	121	135	July.	59	49	68	October.	76	68	82
1927.	129	117	139	August.	66	53	77	November.	83	61	101
1928.	135	126	142	September.	78	56	96	December.	86	60	107
1929.	117	87	142	October.	82	57	102	1940:			
1930.	92	50	125	November.	96	56	128	January.	75	53	93
1931	63	37	84	December.	96	57	128	February.	63	56	68
1932.	28	13	40	1939:				March.	62	57	66
1933	25	11	37	January.	86	55	111	April.	64	62	66
1934	32	12	48	February.	73	58	85	May.	64	64	65
1935.	37	21	50	March.	69	55	80	June.	74	69	77
1936.	55	37	70								
1937.	59	41	74								
1938.	64	45	80								
1939.	72	60	81								

Source: Board of Governors of the Federal Reserve System; figures published currently in Federal Reserve Bulletin.

No. 894. BUILDING PERMITS ISSUEDNUMBER AND COsT OF BUILDINGS, FÔR PRINCIPAL CITIES: 1935 TO 1939

NOTE. - Figures cover new buildings and repairs to old buildings, but exclude data for installation permits (those for installing boilers, signs, etc.) which are not strictly building operations. These permits are rather numerous, but in value they are of small amount. The number figures represent the number of buildings covered by permits issued (new construction and repairs, etc.), rather than the number permits. Buildings authorized by permit are not always actually constructed, and the actual cost of those constructed may differ considerably from that originally estimated. The cities shown had a population of 50,000 or over in 1930.

CITY	TOTAL NUMBER OF BUILDINGS					ESTIMATED COST OF BUILDINGS (THOUSANDS OF DOLLARS)				
	1935	1936	1937	1938	1939	1935	1936	1937	1938	1939
Akron, Ohio	1,387	1,781	1,869	1,393	1,878	1,338	2,416	3,350		
Albany, N. Y.	1,814	2,280	2,377	2,389	2,616	2,121	2,847	3,154	1,622	3,288
Allentown, Pa.	275	370	456	367	787	723	797	1,430	2,994	2,687
Altoona, Pa.	597	554	724	402	651	223	247	649	2,188	
Asheville, N. O.	246	605	492	418	420	300	664	723	734	895
Atlanta, Ga.										
Atlantic City, N. J.	2,324	2,346	2,148	2,205	4,370	5,622	4,789	4,675		14,968
Augusta, Ga.	845	876	874	721	846	2,186	751	980	3,956	2,174
Austin, Tex.	413	476	385	458	1,021	693	766	737	952	2,065
Baitimore, Md.	2,219	2,399	2,325	3,127	3,698	5,688	4,773			
Bayonne, N. J.	8,137	8,730	9,845	9,631	11,645	8,326	14,768	16,386	16,958	16,795
Beaumont, Tex.	269	274	272	252	223	1,502	491	671		834
Berkeley, Calif.	1,104	1,152	1,292	1,251	1,462	696	1,108	1,373	1,987	1,695
Bethlehem, Pa.	1,077	1,758	2,034	2,049	1,841	1,203	2,327	3,570	3,133	
Binghamton, N. Y.	166	203	272	215	307	301	2,520			
Birmingham, Ala.	2,290	1,684	1,323	1,187	1,325	1,149	1,784	1,735	1,688	1,250
Boston, Mass.	3,506	4,158	5,204	5,087	7,433	2,335	3,697	2,833		
Bridgeport, Conn.	6,241	6,370	5,919	5,421	5,221	15,416	17,882	21,947	2,732	8,185
Brockton, Mass.	658	785	706	766	2,201	1,153	1,591	2,555	1,433	10,766
Buffalo, N. Y.	374	344	316	287	303	400	336	390		399
Cambridge, Mass.	2,216	1,899	2,048	2,253	3,008	4,148	7,143	6,485	7,155	13,262
Camden, N. J.	678	684	694	665	656	845	2,939	3,600	3,221	2,978
Canton, Ohio	588	1,113	1,049	851	846				711	1,610
Cedar Rapids, Iowa.	628	945	1,519	1,343	1,382	1,601	3,391	1,871		
Charleston, S. C.	1,521	1,496	1,796	2,036	2,270	970	1,083	1,398	1,824	1,677
Charlotte, W. Va.	521	885	1,200	1,203	1,466	1,507	2,870	1,367	1,654	4,897
Charlotte, N. C.	944	1,292	910	789	1,495	1,344	2,065	2,408	2,948	5,386
Chattanooga, Tenn.	3,292	4,243	4,007	3,570	4,139	1,190	2,741	3,483	2,907	5,699
Chester, Pa.	124	98	108	94	126	360	2,869	2,384	3,001	1,890
Chicago, Ill.	4,237	5,670	5,830	5,676	7,699	17,839	35,911	35,957	29,350	52,135
Cicero, Ill.	86	156	249	146		200	351	725	555	624
Cincinnati, Ohio.	4,415	4,968	6,050	5,281	5,270					
Cleveland, Ohio.	3,549	4,800	4,729	4,567	6,750	9,919	24,039	15,105	12,086	12,372
Columbia, S. C.	542	629	555	495	1,013	12,657	8,887	11,334	7,390	20,862
Columbus, Ohio.	1,219	1,674	2,323	2,255	3,056	2,757	5,608	6,680	6,760	13,323
Covington, Ky.	178	205	181		472	136	632	787	345	3,055
Dallas, Tex.	3,330	4,304	4,066	4,794						
Davenport, Iowa.	1,535	1,674	1,625	1,923	5,009	5,487	11,594	7,534	8,853	10,877
Dayton, Ohio.	769	1,072	1,694	1,536	2,094			1,124	1,680	3,369
Decatur, Ill.	271	261	325	250	2,865	1,880	3,070	4,403	3,259	4,752
Denver, Colo.	3,470	3,930	4,461	4,848	5,573					
Des Moines, Iowa.	1,102	1,499	1,305	1,640	2,170	5,150	7,552	8,010	8,539	15,544
Duluth, Minn.	10,145	16,617	16,535	17,278	20,279	2,158	2,623	2,702	3,031	6,028
Durham, N. C.	1,630	1,919	1,735	1,990	1,959	22,218	43,052	56,543	51,770	62,323
East Chicago, Ind.	606	459	481	504	412	1,146	1,895	2,297	2,936	2,568
East Orange, N. J.	224	336	461	248	343		564	1,624	1,851	2,399
East St. Louis, m.	1,082	1,239	667	541	573	673	1,509	1,559	1,013	815
Elizabeth, N. J.	282	421	432	395	382	837	373	889	103	859
El Paso, Tex.	357	372	389	357	374	587	943	834	1,224	3,711
Erie, Pa.	462	618	732	717	1,208	1,183	959	1,707	1,700	2,631
Evansville, Ind.	533	621	802	705						
Fall River, Mass.	233	320	343	364	877	640	747	1,405	1,651	1,342
Flint, Mich.	1,227	1,605	2,140	1,195	421	848	2,108	3,022	2,703	2,653
Fort Wayne, Ind.	321	811	375	309	1,417	1,119	1,352	3,236	1,370	1,859
Fort Worth, Tex.	2,359	3,455	3,866	2,691	3,936	1,495	3,439	3,669	2,593	3,418
Fresno, Calif.	1,079	1,562	1,566							
Galveston, Tex.	1,224	2,010	1,918	2,486	1,346	1,208	1,793	2,563	2,695	4,017
Gary, Ind.	2,044	2,333	2,226	2,644	3,043	3,312	8,534	7,105	6,349	7,204
Grand Rapids, Mich.	1,144	1,136	1,243	1,604	2,611	2,068	2,155	3,020	2,791	3,566
Greensboro, N. C.	1,359	1,127	1,167	704	1,523	1,243	1,674	3,292	3,263	1,439
	999	1,530			625	1,319	1,738	1,000		2,741
	540	908	1,065	1,857	2,384	571	1,676	2,167	1,441	2,613
					834-	1,074	1,847-	2,121	1,872	2,163

1 Figures represent applications filed.

No. 894.- BUILDING PERMITS ISSUED- NUMBER AND Cost OF BUILDINGS, FOR PRINCIPAL CITIES: 1935 TO 1939-Continued

CITY	TOTAL NUMBER OF BUILDINGS					ESTIMATED COST OF BUILDINGS (THOUSANDS OF DOLLARS)				
	1935	1936	1937	1938	1939	1935	1936	1937	1938	1939
Familton, Ohio.	206	331	439	449	478	255	464	771	612	646
Hammond, Ind.	1,129	1,415	1,407	1,185	1,173	1,406	3,261	3,255	2,456	2,849
Hamtramck, Mich..	385	409	432	342	418	510	416	579	336	624
Earrisburg, Pa.	309	379	436	400	484	779	1,268	7,356	1,781	3,431
Hartford, Conn.	1,574	1,947	1,640	2,100	1,772	2,635	3,045	6,200	3,971	3,713
Highland Park, Mich.	244	250	262	188	227	440	569	1,622	411	850
Hoboken, N. J.	390	453	360	445	473	522	497	901	1,194	1,005
Holyoke, Mass.	204	162	186	174	148	336	674	423	467	346
Houston, Tex.	3,128	4,540	4,683	5,611	6,254	7,339	18,493	18,607	25,052	26,737
Huntington, W. Va.	231	343	478	450	844	613	1,519	1,288	1,553	3,877
Indianapolis, Ind.	2,268	2,558	2,910	3,120	3,641	6,334	8,260	7,558	9,416	11,233
Irrington, N. J.	248	324	290	290	293	446	387	982	521	436
Jackson, Mich.	298	359	523	307	382	163	377	586	390	365
Jacksonville, Fla.	4,913	4,746	4,414	4,749	4,588	3,107	4,843	5,037	9,528	7,373
Jersey City, N. J.	762	795	712	549	621	1,063	9,687	2,847	1,434	5,725
Johnstown, Pa.	322	901	704	452	419	123	875	1,315	376	405
Kalamazoo, Mich.	620	783	843	758	820	883	1,390	699	2,139	2,251
Kansas City, Kans.	367	445	421	377	422	1,924	671	881	2,044	3,681
Kansas City, Mo.	1,096	1,022	992	900	1,557	3,926	6,981	5,665	3,185	2,811
Kenosha, Wis.	298	431	418	271	409	389	558	569	393	710
Knoxville, Tenn.	640	837	914	872	2,337	1,888	2,698	2,086	1,679	4,943
Lakewood, Ohio.	237	327	292	200	281	421	740	601	1,168	689
Lancaster, Pa.	374	496	508	413	340	695	2,242	1,187	736	655
Lansing, Mich.	715	939	866	676	808	1,054	2,174	3,860	1,518	1,764
Lawrence, Mass.	321	344	368	292	315	367	908	1,022	630	820
Lincoln, Nebr.	1,382	1,554	1,577	1,997	2,404	991	1,078	1,645	1,508	2,896
Litlle Rock, Ark.	1,324	1,200	1,462	1,150	1,603	577	982	1,479	1,902	1,892
Long Beach, Calif.	5,621	7,611	8,454	10,326	12,453	6,828	8,083	8,130	11,573	12,066
Los Angeles, Calif..	21,559	30,571	32,884	35,563	39,141	32,519	64,105	64,614	70,969	75,637
Louisville, Ky.	1,297	1,674	1,452	1,472	2,512	3,262	5,963	4,745	3,944	8,677
Lowell, Mass.	411	626	448	362	681	253	553	720	424	2,425
Lynn, Mass.	486	585	658	500	499	796	633	1,113	1,986	1,059
Macon, Ga.	567	885	835	503	916	291	828	430	446	2,082
Madison, Wis.	682	937	1,023	912	997	1,150	1,952	2,428	4,156	5,046
Malden, Mass.	276	305	322	411	414	167	667	463	372	1,547
Manchester, N. H.	930	891	971	2,178	1,556	390	792	1,354	1,456	1,200
MLCKeesport, Pa.	556	741	967	684	1,015	284	681	693	520	1,561
Medford, Mass.	254	261	263	247	250	320	868	559	1,165	416
Memphis, Tenn.	2,854	3,040	3,574	3,540	4,978	2,772	10,233	6,589	6,102	10,354
Miami, Fla.	6,354	7,753	7,076	6,407	7,887	5,411	13,303	13,670	11,707	16,365
Milwaukee, Wis.	4,119	5,329	5,242	4,437	5,522	7,405	11,699	13,964	6,552	10,449
Minneapolis, Minn.	3,974	4,701	5,067	1,620	5,121	4,772	7,533	10,683	7,852	18,683
Mobile, Ala.	552	513	520	590	1,322	512	889	1,074	1,272	4,451
Montgomery, Ala.	1,483	1,732	1,799	1,334	1,655	1,748	1,556	1,347	2,148	2,757
Mt. Vernon, N. Y.	253	218	212	242	255	1,357	2,228	826	1,465	919
Nashville, Tenn.	1,194	2,019	1,409	1,192	1,236	3,545	7,635	4,567	3,346	3,601
Newark, N. J.	1,057	1,088	1,084	896	1,187	5,585	5,689	4,948	3,691	9,557
New Bedford, Mass.	443	604	704	947	786	337	361	780	517	864
New Britain, Conn.	552	904	928	944	894	715	1,039	1,037	978	942
New Faven, Conn.	588	727	772	890	981	1,079	1,272	3,998	2,994	3,917
New Orleans, La.	999	1,367	1,225	1,152	2,410	3,956	4,816	13,319	5,682	19,230
New Rochelle, N. Y.	233	343	351	291	307	591	1,761	3,117	1,777	1,226
Newton, Mass.	664	864	712	906	865	2,591	4,511	3,253	2,838	2,958
New York, N. Y.:										
Borough of Bronx	6,231	7,411	7,194	2,428	2,175	23,721	55,043	50,322	48,216	43,320
Borough of Brook- lyn I.	10,566	15,491	15,021	14,359	11,931	48,172	52,848	68,611	64,091	62,011
Borough of Man- hattan I.	4,239	4,753	5,531	4,483	4,432	47,148	63,336	90,289	71,155	55,570
Borough of Queens I.	13,517	17,604	17,666	17,327	16,190	29,462	49,220	100,814	149,534	82,182
Borough of Rich- mond I.	1,655	1,960	2,029	2,086	924	5,381	3,620	4,563	3,208	3,402
Niagara Falls, N. Y.	882	1,119	1,633	1,412	1,103	967	3,352	2,883	1,416	1,731
Norfolk, Va.	774	399	963	1,156	1,309	2,612	2,179	3,382	8,266	5,192
Oakland, Calif.	3,861	5,104	5,053	5,317	6,472	9,545	8,655	8,101	9,276	11,364
Oak Park, Ill.	225	346	359	329	302	626	1,498	991	715	783
Oklahoma City,										
Okla.	1,298	2,031	2,040	1,842	1,345	2,262	8,144	5,775	5,745	4,590
Omaha, Nebr.	1,157	1,327	1,449	1,598	2,183	1,642	4,349	3,842	1,926	5,454
Pasadena, Calif.	2,411	2,917	3,329	3,552	4,534	2,221	3,629	4,411	3,355	3,747
Passaic, N. J.	636	468	546	442	549	479	844	610	455	737
Paterson, N. J.	1,042	1,012	840	787	925	897	1,788	1,116	1,729	1,596
Pawtucket, R. I.	457	516	555	508	625	456	643	860	1,529	1,327

I Figures represent applications filed.

**No. 894.— BUILDING PERMITS ISSUED—NUMBER AND COST OF BUILDINGS, FOR
PRINCIPAL CITIES: 1935 TO 1939— Continued**

CITY	TOTAL NUMBER OF BUILDINGS					ESTIMATED COST OF BUILDINGS (THOUSANDS OF DOLLARS)				
	1935	1936	1937	1938	1939	1935	1936	1937	1938	1939
Peoria, Ill.	711	1,405	1,257	1,405	1,958	1,844	4,455	3,788	3,161	7,296
Philadelphia, Pa.	4,407	7,446	11,746	9,401	11,945	12,387	23,561	37,284	21,730	40,801
Pittsburgh, Pa.	2,448	2,755	3,144	3,000	3,406	5,911	7,673	8,597	11,440	18,460
Pontiac, Mich.	536	798	1,130	651	906	769	1,489	1,632	1,402	1,391
Port Arthur, Tex.	817	1,399	1,480	1,373	1,316	546	1,028	828	1,445	1,103
Portland, Me.	872	879	882	890	922	438	681	772	624	935
Portland, Oreg.	3,721	4,710	4,814	4,485	4,808	3,542	6,790	8,688	6,790	9,723
Providence, R. I.	3,662	3,974	3,927	3,654	2,976	2,663	5,085	3,028	4,726	3,484
Pueblo, Colo.	544	543	767	788	893	441	280	658	525	857
Quincy, Mass.	935	1,197	1,178	1,424	1,256	554	1,066	1,177	1,415	2,284
Racine, Wis.	263	377	367	483	551	428	1,174	861	1,000	1,059
Reading, Pa.	646	1,328	1,427	1,170	1,625	360	1,875	1,088	1,379	2,344
Richmond, Va.	1,468	1,666	1,529	1,594	1,535	1,743	3,725	4,269	1,595	7,702
Roanoke, Va.	432	480	586	761	849	624	983	2,095	1,561	1,215
Rochester, N. Y.	1,393	1,695	1,827	1,714	1,736	2,798	5,778	5,040	3,753	4,938
Rockford, Ill.	539	842	894	761	1,004	586	1,228	1,321	1,310	3,461
Sacramento, Calif.	1,229	1,859	2,310	2,922	2,458	1,916	7,216	9,166	9,125	7,004
Saginaw, Mich.	2844	1,221	1,341	1,105	1,307	21,288	1,529	1,433	1,035	2,952
St. Joseph, Mo.	199	325	235	183	212	311	324	207	789	1,389
St. Louis, MO.	4,091	4,236	3,995	3,916	4,344	15,151	10,231	9,788	9,979	13,874
St. Paul, Minn.	2,704	3,210	3,183	3,458	4,048	3,182	6,235	6,196	7,016	8,115
Salt Lake City, Utah.	1,788	1,781	2,196	2,333	2,187	1,926	3,456	4,128	4,186	5,608
San Antonio, Tex.	6,097	2,907	3,028	3,076	5,585	6,056	4,731	5,201	6,251	8,509
San Diego, Calif.	3,065	3,949	4,210	4,539	4,957	5,327	9,456	9,306	13,996	10,215
San Francisco, Calif.	4,064	5,663	5,861	6,557	7,614	12,345	19,930	20,359	25,728	29,294
San Jose, Calif.	839	1,173	1,237	1,280	1,442	1,323	2,346	2,320	2,940	3,047
Savannah, Ga.	226	314	433	561	1,061	389	1,523	1,052	976	2,952
Schenectady, N. Y.	1,156	1,295	1,457	1,184	1,212	965	1,791	2,538	1,628	1,074
Scranton, Pa.	653	595	463	523	509	581	1,796	758	1,823	790
Seattle, Wash.	3,474	4,172	4,046	4,147	5,220	3,827	6,798	7,183	8,408	12,471
Shreveport, La.	1,447	1,432	1,513	1,703	1,838	1,305	2,511	2,886	5,073	6,090
Sioux City, Iowa.	360	409	357	438	554	529	887	756	1,120	1,132
Somerville, Mass.	301	295	347	286	274	305	538	431	259	363
South Bend, Ind.	887	1,234	1,680	1,113	2,181	559	1,103	1,392	1,058	2,160
Spokane, Wash.	1,752	2,803	3,264	3,468	3,938	1,668	3,946	2,880	3,380	3,790
Springfield, Ill.	412	433	468	387	740	490	2,587	1,767	1,721	1,670
Springfield, Mass.	529	610	796	690	713	582	1,300	2,807	2,371	3,559
Springfield, Mo.	687	746	798	778	1,005	580	976	1,455	1,968	1,078
Springfield, Ohio.	437	583	749	734	755	574	844	977	1,407	1,233
Syracuse, N. Y.	613	802	727	673	389	1,967	3,137	3,248	1,733	3,450
Tacoma, Wash.	949	1,779	1,753	1,482	1,529	676	1,448	1,453	1,595	2,222
Tampa, Fla.	2,114	1,990	2,134	3,032	3,344	962	1,410	2,037	1,351	2,767
Terre Haute, Ind.	619	719	652	440	647	322	912	533	2,596	1,452
Toledo, Ohio.	1,060	1,714	1,873	1,363	2,241	1,762	5,913	4,607	2,357	6,077
Topeka, Kans.	631	881	830	757	743	979	2,238	2,125	2,214	1,087
Trenton, N. J.	396	590	530	489	823	549	888	983	1,028	4,701
Troy, N. Y.	513	542	591	590	575	1,254	994	951	588	615
Tulsa, Okla.	989	1,138	1,100	1,492	1,813	1,569	2,588	6,013	3,261	4,557
Union City, N. J.	424	372	391	310	310	435	392	594	249	368
Utica, N. Y.	197	178	177	138	267	289	521	995	656	1,244
Waco, Tex.	308	410	427	402	477	1,837	920	784	890	888
Washington, D. C.	6,792	7,777	6,873	6,672	7,199	47,216	51,113	43,295	51,578	71,050
Waterbury, Conn.	359	554	533	525	450	471	1,320	1,362	1,608	1,053
Wheeling, W. Va.	458	747	689	536	619	570	1,227	2,293	941	961
Wichita, Kans.	1,867	1,938	2,236	2,936	2,701	1,251	2,350	2,306	3,160	2,828
Wilkes-Barre, Pa.	646	1,175	1,043	1,117	1,104	752	1,205	1,010	998	934
Wilmington, Del.	1,059	1,243	1,184	985	1,121	2,430	4,101	4,270	2,280	4,444
Winston-Salem, N. C.	829	1,422	1,367	1,230	1,329	1,066	1,499	2,121	2,516	2,285
Worcester, Mass.	1,156	1,212	1,227	2,377	1,347	1,959	1,960	3,426	3,426	3,550
Yonkers, N. Y.	660	692	752	779	650	2,368	4,132	5,043	9,794	5,284
York, Pa.	855	1,104	1,270	1,213	1,242	414	715	1,051	653	1,102
Zionsville, Ohio.	914	1,059	1,191	867	1,310	740	1,558	1,882	1,293	6,197

2Data for 11 months only; March records destroyed by fire.

Source: Department of Labor, Bureau of Labor Statistics; reports No. 650 and 668, Statistics of Building Construction, 1920 to 1938, and official records; figures published currently in monthly report, Building Construction.

No. 895. BUILDING PERMITS ISSUED- NUMBER AND COST OF BUILDINGS, BY CLASS: 1938 AND 1939

NOTE.- See headnote, table 894. Figures cover 2,323 identical cities

CLASS OF BUILDING	NUMBER OF BUILDINGS		Percent increase or decrease	ESTIMATED COST (1,000 DOLLARS)		Percent increase or decrease
	1938	1939		1938	1939	
Grand total, all buildings.	678,385	775,754	+14.41	782,976.2	1,35,682	+19.8
Total, new buildings.	282,613	367,528	+30.01	459,520.1	784,075	+22.2
New residential buildings.	161,636	233,125	144.2	882,266.1	1,69,696	+32.6
1-family dwellings.	150,466	217,150	+44.3	592,256	836,724	+41.3
2-family dwellings.	5,836	7,919	35.7	29,613	40,130	+35.5
1-family and 2-family dwellings with stores.	983	922	-6.2	3,808	4,154	+9.1
Multifamily dwellings.	3,871	6,594	+70.3	240,332	267,239	+11.2
Multifamily dwellings with stores.	145	179	23.4	5,904	4,866	-17.7
Hotels.	65	109	+67.7	2,612	8,232	+215.2
Lodging houses-	371	511	+37.8	174	266	+52.9
Other.	233	201	-13.7	7,566	8,090	+6.9
New nonresidential buildings.	120,977	134,403	+11.1	577,655	614,379	+6.4
Amusement buildings.	1,772	1,653	-5.7	27,620	25,108	-9.1
Churches.	9365	9871	+5.4	16,194	16,177	-0.1
Factories and workshops.	2,463	2,682	+8.9	45,726	47,456	+3.8
Public garages.	850	1,109	4-30.5	7,346	8,452	+15.1
Private garages.	77,411	87,168	+12.6	19,840	21,886	+10.3
Service stations.	4,390	4,765	-8.5	15,495	18,206	+17.5
Institutions.	331	301	-9.1	51,4425	48,694	-5.3
Office buildings.	474	501	-5.7	18,094	20,332	+12.4
Public buildings.	762	554	-27.3	109,932	100,330	-8.7
Public works and utilities.	6811	765	-12.3	35,604	56,986	+60.1
Schools and libraries.	949	904	-4.7	129,143	143,472	+11.1
Sheds.	16,446	16,892	+2.7	4,758	5,172	+8.7
Stables and barns.	5861	654	+11.6	482	718	+49.0
Stores and warehouses.	10,564	12,261	+16.1	93,005	98,953	+6.4
All other.	2,362	3,207	+35.8	2,279	2,436	+18.2
Additions, alterations, and repairs.	395,772	408,226	+3.11	323,056	351,607	+8.8

No. 896. BUILDING CONSTRUCTION-COSTS, FAMILIES PROVIDED FOR, AND POPULATION, FOR 257 IDENTICAL CITIES: 1923 TO 1939

[Estimated-cost figures are based on permits issued for new buildings and for repairs to old buildings but do not include data for installation permits. See headnote, table 894.]

YEAR	ESTIMATED COST OF BUILDINGS (THOUSANDS OF DOLLARS)				FAMILIES PROVIDED FOR			PERCENTAGE OF FAMILIES PROVIDED FOR			
	Total building opera- tions	Now res- idential build- ings	New non- residen- tial build- ings	Addi- tions, altera- tions, and repairs	Esti- mated popu- lation (thous- and)	Num- ber	Ratio to each 10,000 inhab- itants	Index	1-fam- ily dwell- ings	2-fam- ily, dwell- ings 1	Multi- family dwell- ings 2
					num- ber ad- justed topopu- lation (1921= 100)						
1923.	3,398,884	1,998,393	1,065,624	334,867	39,076	453,673	116.1	193.4	45.3	21.2	33.0
1924.	3,503,267	2,038,427	1,125,291	344,548	39,909	142,096	110.8	184.6	17.4	21.4	31.2
1925.	4,028,066	2,390,390	1,300,494	337,182	40,742	E91,032	120.5	200.8	45.9	17.5	36.6
1926.	3,826,927	2,222,875	1,262,738	341,315	41,575	162,208	111.2	185.2	40.7 ¹	13.9	45.4
1927.	3,478,604	1,906,003	1,231,786	340,315	42,409	106,C95	95.8	159.5	38.3	13.4	48.3
1928.	3,304,700	1,859,424	1,135,570	309,706	43,242	388,678	89.9	149.7	35.2	11.1	53.7
1929.	2,933,212	1,433,716	1,147,797	351,700	44,075	244,394	55.4	92.4	40.2	11.2	48.6
1930.	1,697,725	601,276	849,387	247,068	34,908	125,315	27.9	46.5	45.7	12.1	42.2
1931.	1,237,458	426,270	622,830	183,357		98,158	21.9	36.4	49.2	11.5	39.3
1932.	481,219	103,445	275,509	102,265	2	27,380	6.1	10.2	71.3	12.4	15.3
1933.	382,279	91,345	183,006	107,928	0	25,835	5.8	9.6	55.8	8.2	36.0
1934.	379,231	76,622	166,351	136,248	(57)	20,952	4.7	7.8	60.0	6.9	33.1
1935.	655,518	211,896	260,426	183,196	(4)	55,190	12.4	20.6	55.9	5.4	38.7
1936.	1,042,331	458,068	347,024	237,239		113,645	25.3	42.2	52.0	4.61	43.4
1937.	1,177,488	475,949	124,172	277,366		117,307	26.1	43.5	56.5	6.2	37.3
1938.	1,173,922	577,820	369,398	226,704		157,008	35.0	58.3	50.1	4.9	45.0
1939.	1,396,827	754,941	396,402	245,484	2	203,625	45.3	75.5	58.9	5.5	35.6

Including 1- and 2-family dwellings with stores. 2 Including multifamily dwellings with stores.
: Based on enumeration. 4 No estimate made; ratios based on Census of 1930.

Source: Tables 895 and 896. Department of Labor, Bureau of Labor Statistics; figures published currently in the Monthly Labor Review.

No. 897. CONSTRUCTION AND OTHER PROJECTS FINANCED FROM FEDERAL FUNDS—VALUE, BY TYPE, 1936 TO 1939, AND BY FUND, 1939

NOTE: In thousands of dollars. In the case of Federal projects financed from Public Works Administration funds, the entire amount is allotted to Federal departments or other Federal agencies. The work is performed by commercial firms under contracts or, in force-account, by day labor hired directly by the Federal agencies for construction work. In the case of allotments to States and local governments for non-Federal projects, the Public Works Administration makes a direct grant of not more than 30 percent of the total labor and material cost on projects financed from funds appropriated under the National Industrial Recovery Act, and of not more than 45 percent of the total labor and material cost on projects financed by funds provided under the Emergency Relief Appropriation Acts of 1935, 1936, and 1937, or the Public Works Administration Act of 1938. The State or local government finances the other 70 or 55 percent, in some cases through loans at interest through the Public Works Administration. Commercial allotments are in the form of loans and for the most part have been made to: railroads

FEDERAL FUND AND YEAR	All types of projects	Building	Electrification	Forestry	Heavy engineering	Hydroelectric power plants	Plant, crop, and livestock	Professional, technical, and clerical projects
Total all funds:								
1935.	21,512,252	24,979,929	24,685	17,924	40,218	2,980	9,153	25,010
1937.	31,255,980	33,444,566	62,342	4,710	35,331	12,054	6,647	5,996
1938.	42,079,125	46,764,542	104,981	991	70,337	31,952	9,041	5,285
1939.	2,212,137	56,298,882	119,659	13,300	97,287	23,955	8,995	4,510
1939, BY FUNDS								
Federal agency projects financed by The Work Projects Adm.	90,896	28,390	232	13,288		620	8,978	4,485
Regular Federal appropriations.	1,256,527	107,218	98,517	12	22		17	
Public Works Adm.: Federal.	43,163	29,840	2,139					25
Non-Federal:								
N. I. Recovery Act.	9,750	241	311		3,971	1,281		
E. R. Appropriation Acts of 1935, 1936, and 1937—	33,283	5,366	3,487		3,494	17,584		
P. W. A. A. 19387.	597,135	277,449	14,973		89,800	4,4701		
PUBLIC ROADS								
FEDERAL FUND AND YEAR	Grade crossing construction	Roads and repair	Railroad construction	Reclamation	River, harbor, flood control	STREETS AND ROAD PAVING	Water and sewer systems	Miscellaneous
Total all funds:								
1936.	100,350/350,801	5,040	73,797	115,913/108,3149	1,488	39,048	154,796	34,806
1937.	23,055/299,845	84	59,051	73,959/181,467	7,362	28,602	75,558/103,351	
1938.	4,289,311,717		175,382	123,402/201,514	5,108	3,124/2116,314/9	116,314/906,060	
1939.	1,062/253,374		1,172/3214,205	280,205	7,704	31,525/7216,340	2240,92	
1939, BY FUNDS								
Federal agency projects financed by The Work Projects Adm.	1,062	1,204	20,552	1,811		2,344	585	7,345
Regular Federal appropriations.	230,246		84,559	109,388/380,208		4	7,179	1,531
Public Works Adm.: Federal.		824	2,136	2,200	100		935	830
Non-Federal:								
N. I. Recovery Act.			1,380			1,207	849	510
E. R. Appropriation Acts of 1935, 1936, and 1937			97			8	474	2,773
P. W. A. A. 19387.	21,100		2,449	866		6,485	58,744/110,117	5,682

Figures include data for construction projects in the Housing Division, P. W. A., as follows: Total, 554,797,000; I. R. A. fund, 762,000; E. R. Appropriation Acts of 1935 and 1936 funds, 554,035,000.
 N. I. R. A. fund, \$5,699,000; E. R. Appropriation Acts of 1935, 1936, and 1937 funds, \$11,540,000.
 4 Includes \$31,200,000 for low-cost housing projects; of this amount 30,572,000 is for United States Housing Authority projects and \$67,000 for P. W. A. projects (Eousing Division, P. W. A.), made up as follows:
 E. R. A. \$188,000; E. R. A. 1935, \$449,000.

\$181,378,000 for housing projects under the U. S. Housing Authority.
 Prior to July 1939, administered by the Public Works Program. S Program started July 1938.
 Reported by Pub. Rds. Adm. b Except projects reported by Pub. Rds. Adm. headed "Public roads."
 Includes amounts for ship construction and repair of other than naval vessels as follows: For 1937, \$15,800,000; 1938, \$83,194,000; 1939, total, \$192,361,000; Regular Federal Appropriations, \$192,281,000; P. W. A. Federal, \$80,000. Amounts are also included for sewing, canning, and gardening, as follows: For 1938, 99,000; 1939, W. P. A., \$51,000. Amounts are included for airports (exclusive of building and hangars) as follows: 1939, total, \$4,909,000; Regular Federal Appropriation \$826,000; P. W. A., Federal \$1,563,000; W. P. A., \$2,520,000.

Source: Dept. of Labor, Bureau of Labor Statistics; published currently in Monthly Labor Review.

No. 898. CONSTRUCTION IN THE UNITED STATES ESTIMATED EXPENDITURES FOR PUBLIC AND PRIVATE CONSTRUCTION: 1916 TO 1939

NOTE.—The estimates represent the value of work performed during the year, as measured by expenditures for labor, material, and other items. They consequently differ from building permit and construction contract data which measure the value of work started. In addition, they have a generally broader coverage than permit and contract data. Figures include value and cost of installation of equipment which is an integral part of a structure, but not that of machinery, shipbuilding, or land costs.

PRIVATE CONSTRUCTION (VALUE IN MILLIONS OF DOLLARS)

YEAR	New									
	Residential building (non-farm)	Non-residential building 1	Farm construction 2	Railroad and street railway	Light and power	Telephone and telegraph	Other public utility	Total new construction	Maintenance	Total
1916.	1,110	639	334	390	117	60	78	2,728	1,024	3,752
1917.	940	712	472	515	123	83	59	2,904	1,083	3,937
1918.	720	638	591	472	102	70	47	2,610	1,342	3,982
1919.	1,600	956	680	329	156	73	104	3,898	1,549	5,447
1920.	1,610	1,743	578	266	262	120	111	4,690	1,829	6,519
1921.	1,760	1,329	395	243	163	99	83	4,072	1,665	5,737
1922.	2,833	1,373	359	261	229	115	148	5,318	1,670	5,988
1923.	3,757	1,560	409	435	412	155	154	6,882	1,810	8,692
1924.	4,300	1,528	459	421	463	192	223	7,586	1,908	9,494
1925.	4,584	1,938	471	445	421	206	185	8,250	1,994	10,244
1926.	4,591	2,381	471	542	380	222	223	8,810	2,107	10,917
1927.	4,289	2,414	474	539	383	208	273	8,580	2,175	10,755
1928.	3,951	2,425	464	523	353	242	212	8,180	2,200	10,330
1929.	3,424	2,432	464	592	387	348	236	7,883	2,296	10,179
1930.	2,195	1,867	367	606	409	334	163	5,941	2,140	8,081
1931.	1,396	1,110	259	361	258	164	164	3,712	1,553	5,265
1932.	641	539	125	168	121	86	87	1,767	1,128	2,895
1933.	314	357	175	115	52	45	33	1,091	1,016	2,107
1934.	272	453	200	158	57	48	44	1,232	1,194	2,426
1935.	533	450	284	156	73	53	56	1,605	1,413	3,018
1936.	1,101	658	328	194	108	67	95	2,551	1,742	4,293
1937.	1,530	933	360	238	152	105	125	3,443	1,854	5,297
1938.	1,515	712	345	160	182	92	66	3,072	1,763	4,835
1939.	1,860	760	340	191	160	95	85	3,491	1,820	5,311

PUBLIC CONSTRUCTION (VALUE IN MILLIONS OF DOLLARS)

YEAR	New						Work-relief construction	Maintenance	Total	total, public and private (millions of dollars) 5
	High-way	Sewers and water supply	Resi-dential and nonresidential building	Military and naval	All other 8	Total new construction				
1916.	308	95	207	21	72	703		269	972	4,724
1917.	313	91	192	608	69	1,273		290	1,563	5,550
1918.	288	94	227	1,555	67	2,231		310	2,541	6,523
1919.	415	124	260	1,089	75	1,963		375	2,338	7,785
1920.	640	153	283	161	97	1,334		469	1,803	8,322
1921	840	178	387	49	96	1,550		528	2,078	7,875
1922.	851	201	481	25	99	1,657		548	2,205	9,193
1923.	783	203	481	16	115	1,598		565	2,163	10,855
1924.	951	263	494	9	145	1,862		633	2,495	11,989
1925.	1,056	278	573		193	2,108		655	2,763	13,007
1926.	1,039	285	603	11	175	2,113		692	2,505	13,722
1927.	1,190	312	596	12	258	2,368		758	3,126	13,881
1928.	1,270	300	638	15	239	2,462		796	3,258	13,638
1929.	1,248	253	642	19	249	2,411		816	3,227	13,406
1930.	1,481	343	647	29	277	2,777		871	3,648	11,729
1931	1,323	270	591	40	353	2,577		776	3,353	8,618
1932.	916	156	408	34	280	1,794		624	2,418	5,313
1933.	575	81	191	36	233	1,216	114	527	1,857	3,964
1934.	821	116	181	47	294	1,459	578	599	2,636	5,062
1935.	622	137	248	37	384	1,428	406	640	2,474	5,492
1936.	876	208	582	29	459	2,154	1,130	710	3,994	8,287
1937.	850	174	533	37	433	2,027	775	725	3,527	8,824
1938-	900	179	553	62	423	2,117	1,202	739	4,058	8,893
1939.	950	255	793	125	475	2,598	1,032	747	4,377	9,688

Excludes nonresidential building by utilities.

1 Includes expenditures for residential and nonresidential construction and repairs. Excludes labor performed by farm operators (owners or tenants) and regularly employed farm laborers.

3 Largely expenditures for rivers and harbors, flood control and reclamation work and public service enterprises.

4 In addition to the work-relief expenditures shown in this column, a small amount of work-relief is included in new construction.

5 Includes new construction, maintenance, and work-relief construction.

Source: Dept. of Commerce, Bureau of Foreign and Domestic Commerce; Construction Activity in the U.S., 1915-37; also published in certain issues of the Survey of Current Business; later revisions from official records.

No. 899. CONSTRUCTION INDUSTRY- SUMMARY, BY CLASS OF CONTRACTOR: 1935

NOTE.-The 1935 Census covered reporting contracting establishments that did work valued at \$500 or more. Figures do not cover all construction work done in the United States, as some contractors failed to make returns. No data for force-account construction (no contracts let) are included. In reporting work done, each contractor accounted for only the work performed by his own organization, excluding value of work sublet to other contractors.

[Value of work performed and pay roll in thousands of dollars]

KIND OF BUSINESS GROUP	ALL REPORTING ESTABLISHMENTS, TOTAL		ESTABLISHMENTS PERFORMED, PERSONNEL,		REPORTING WORK AND PAY ROLL		ESTABLISHMENTS REPORTING WORK PERFORMED ONLY		
	Num-ber of estab-lish-ments	Value of work per-formed	Num-ber of estab-lish-ments	Value of work per-formed	Active pro-prietors and firm mem-bers	Em-ploy-ees (average for year)	Pay roll	Num-ber of estab-lish-ments	Value of work per-formed
United States.	75,047	1,622,862	69,838	1,457,710	69,193	409,137	470,275	5,209	165,152
General contractors.	11,491	944,279	9,883	834,391	8,286	258,344	277,912	1,608	109,888
Building.	8,337	398,980	7,241	356,512	6,433	106,356	120,316	1,096	42,468
Highway.	2,116	280,332	1,723	240,949	1,298	87,242	76,403	393	39,383
Heavy construction.	1,038	264,967	919	236,930	555	64,736	81,193	119	28,037
Specialtrade contractors.	63,556	678,583	59,955	623,319	60,907	150,793	192,363	3,601	55,264
Carpentering.	7,853	31,993	7,633	30,123	8,078	5,974	6,894	220	1,870
Concreting.	981	11,311	946	10,884	971	3,736	3,897	35	427
Electrical.	8,473	104,774	7,457	93,229	7,300	21,014	30,993	1,016	11,545
Elevator installation.	404	23,538	351	21,394	138	4,182	7,919	53	2,144
Excavating and/or founda-tion.	375	13,646	364	11,913	339	4,005	4,417	11	1,733
Glass and glazing.	141	2,432	140	2,425	1155	509	806	1	7
Heating and plumbing group.	23,856	284,679	22,947	269,031	23,238	58,249	72,362	909	15,648
Heating and piping.	1,809	58,625	1,607	52,423	1,262	10,181	15,351	202	5,202
Heating and piping with sheet metal.	1,790	27,144	1,733	26,284	1,801	6,513	8,036	57	860
Heating, piping, plumbing, with sheet metal.	8,441	111,803	8,181	107,413	8,299	23,228	28,288	260	4,390
Plumbing.	1,339	24,200	1,329	24,020	1,373	5,754	7,027	10	180
Plumbing with sheet metal.	9,984	60,017	9,612	56,162	9,968	11,960	13,042	372	3,855
Roofing and sheet metal group.	493	2,890	485	2,729	535	613	618	8	161
Roofing.	5,927	70,860	5,591	63,385	5,700	16,094	18,479	336	7,475
Sheet metal.	1,931	30,960	1,813	28,311	1,726	7,301	8,329	118	2,649
Roofing and sheet metal.	2,526	16,410	2,376	13,612	2,572	3,196	3,483	150	2,798
Masonry.	1,470	23,490	1,402	21,462	1,402	5,597	6,667	68	2,028
Ornamental iron.	1,288	13,653	1,031	10,722	1,098	3,167	3,856	257	
Painting, paperhanging, and decorating.	158	1,517	152	1,385	138	320	403	6	2,932
Plastering.	11,078	56,406	10,633	52,456	11,441	16,229	20,469	445	3,950
Steel erection.	899	10,110	888	9,878	906	3,278	4,368	11	232
Stone setting.	1181	7,582	105	6,384	67	1,498	2,389		1,198
Tile and mantel.	76	1,567	63	1,109	54	3381	535	13	458
Wrecking and demolition.	891	16,713	727	14,136	620	3,908	4,847	164	2,577
Other.	129	2,652	128	2,644	119	1,025	1,060		8
	909	25,150	799	22,221	585	6,267	8,669	110	2,929

- Does not include construction for proprietors and firm members of an incorporated business.

Source: Department of Commerce, Bureau of the Census; Census of Business, 1935, Construction Industry, Vol. I.

No. 900. CONSTRUCTION INDUSTRY- SUMMARY, BY STATES: 1935

NOTE.—Value of work performed and roll in thousands of dollars. The figures for each State cover the activities, including work done by other States, of contracting establishments located in the given State. See also headnote, table 899.

DIVISION AND STATE	ALL REPORTING ESTABLISHMENTS, TOTAL		ESTABLISHMENTS REPORTING WORK PERFORMED, PERSONNEL, AND PAY ROLL				ESTABLISHMENTS REPORTING WORK PERFORMED ONLY		
	Number of establishments	Value of work performed	Number of establishments	Value of work performed	Active proprietors and firm members	Employees (average for year)	Pay roll	Number of establishments	Value of work performed
United States.	75,047	1,622,862	69,838	1,457,710	69,193	409,137	470,275	5,209	165,152
New England.	6,889	115,901	6,439	105,275	6,200	28,991	36,020	450	10,626
Maine.	668	6,424	638	6,029	630	1,898	2,014	30	395
New Hampshire.	443	5,691	428	5,439	462	1,450	1,672	15	252
Vermont.	314	2,294	295	1,874	323	598	591	19	420
Massachusetts.	3,393	60,774	3,161	54,122	2,991	13,904	18,445	232	6,652
Rhode Island.	389	8,473	347	7,821	314	2,299	2,835	42	652
Connecticut.	1,682	32,245	1,570	29,990	1,480	8,833	10,463	112	2,255
Middle Atlantic.	21,418	416,302	20,188	379,315	19,145	91,601	126,730	1,230	36,987
New York.	10,990	266,088	10,309	241,074	9,214	55,957	83,138	681	25,014
New Jersey.	4,131	51,680	3,944	48,133	3,767	11,712	15,314	187	3,547
Pennsylvania.	6,297	98,534	5,935	90,108	6,164	23,932	28,278	362	8,426
East North Central.	15,809	339,774	14,565	299,067	14,405	81,417	100,595	1,244	40,707
Ohio.	4,282	77,879	3,949	63,735	3,895	17,662	22,276	333	9,144
Indiana.	2,320	31,773	2,197	27,860	2,201	7,612	7,949	123	3,913
Illinois.	3,883	130,470	3,557	115,174	3,395	31,507	41,341	326	15,296
Michigan.	2,294	58,926	2,105	52,331	2,115	14,436	18,584	189	6,595
Wisconsin.	3,030	40,726	2,757	34,967	2,709	10,200	10,445	273	5,759
West North Central.	8,940	182,364	8,293	165,072	8,633	52,070	49,384	642	17,282
Minnesota.	2,083	47,660	1,951	45,119	2,101	16,372	13,719	132	2,541
Iowa.	1,916	28,993	1,701	24,219	1,817	6,616	6,455	215	4,774
Missouri.	2,412	66,509	2,267	61,392	2,184	18,239	19,601	145	5,117
North Dakota.	232	3,585	215	3,217	235	1,082	873	17	368
South Dakota.	271	4,644	261	4,358	270	1,210	1,115	10	286
Nebraska.	972	18,659	912	16,386	960	5,303	4,915	60	2,273
Kansas.	1,054	12,314	991	10,381	1,066	3,243	2,706	63	1,933
South Atlantic.	6,759	177,455	6,376	159,527	6,198	50,591	50,033	383	17,928
Delaware.	229	4,597	222	4,548	201	1,455	1,640	7	49
Maryland.	1,166	22,680	1,080	19,831	1,075	5,776	6,137	86	2,849
Dist. of Columbia.	414	28,127	376	25,787	271	6,459	8,684	38	2,340
Virginia.	1,234	22,883	1,183	20,957	1,223	6,125	6,225	51	1,926
West Virginia.	649	9,588	618	8,575	647	3,437	2,858	31	1,013
North Carolina.	849	25,319	801	20,840	818	7,036	6,189	48	4,479
South Carolina.	379	10,534	364	10,124	353	3,736	3,205	15	410
Georgia.	896	24,774	858	21,960	828	7,681	6,578	38	2,814
Florida.	943	28,953	874	26,905	782	8,886	8,517	69	2,048
East South Central.	3,068	53,843	2,937	47,621	3,107	17,665	13,715	131	6,222
Kentucky.	1,427	16,953	1,392	15,391	1,480	5,367	4,443	35	1,562
Tennessee.	829	22,005	794	21,149	831	7,969	6,039	35	856
Alabama.	448	12,049	398	8,436	415	3,217	2,503	50	3,613
Mississippi.	364	2,836	353	2,645	381	1,112	730	11	191
West South Central.	3,275	83,843	3,050	76,576	3,105	27,440	22,287	225	7,267
Arkansas.	326	5,059	308	4,750	330	2,301	1,292	18	309
Louisiana.	537	17,086	503	15,696	478	4,724	4,320	34	1,390
Oklahoma.	608.	14,489	567	12,496	575	3,684	3,262	41	1,993
Texas.	1,804	47,209	1,672	43,634	1,722	16,731	13,413	132	3,575
Mountain.	2,243	54,971	2,052	45,101	2,192	13,846	14,532	191	9,870
Montana.	287	7,657	249	6,578	260	2,001	2,006	38	1,079
Idaho.	296	8,891	271	8,208	308	2,815	3,072	25	683
Wyoming.	287	3,180	282	3,083	305	873	873	5	97
Colorado.	564	13,713	503	9,332	512	2,763	3,059	61	4,331
New Mexico.	114	3,660	97	3,050	110	717	778	17	610
Arizona.	204	5,373	188	4,327	197	1,443	1,502	16	1,046
Utah.	430	10,391	408	8,425	447	2,634	2,484	22	1,966
Nevada.	61	2,106	54	2,048	53	600	758	7	58
Pacific.	6,646	198,409	5,933	180,156	6,208	45,516	56,979	713	18,253
Washington.	1,060	35,879	938	33,302	933	7,608	10,241	122	2,577
Oregon.	654	24,239	595	20,404	626	5,542	6,852	59	3,835
California.	4,932	138,291	4,400	126,450	4,649	32,366	39,886	532	11,841

1 Does not include compensation for proprietors and firm members of unincorporated businesses.

Source: Department of Commerce, Bureau of the Census; Census of Business, 1935, Construction Industry, Vol. I.

No. 901.- CONSTRUCTION INDUSTRY- SUMMARY FOR 46,429 ESTABLISHMENTS,
BY CLASS OF CONTRACTOR, AND BY STATES: 1935

NOTE.-This table covers only establishments that furnished detailed reports. See also headnote, table 899

KIND OF BUSINESS GROUP, DIVISION, AND STATE	Number of estab- lish- ments	WORK PERFORMED					Active pro- pri- etors, age aver- age for year	Em- ploy- ees, aver- age for year	Pay roll (1,000 dol- lars)	Cost of mate- rial in- cluded (1,000 dol- lars)	PERCENT OF TOTAL WORK PERFORMED	
		Value (1,000 dollars)	Percent per- formed-			Pay- roll					Ma- terial	
			In home city	In home State	Out- side home State							
United States.	46,429	1,330,835	57.5	27.4	15.1	44,531	379,067	436,802	559,441	32.8	42.0	
General contractors.	9,753	829,058	44.7	34.3	21.0	8,171	256,971	275,928	325,603	33.3	41.7	
Building3	7,139	352,329	66.1	21.4	12.5	6,337	105,302	118,618	162,641	33.7	46.2	
Highway.	1,711	240,458	21.9	58.8	19.3	1,290	87,066	76,250	97,587	31.7	40.6	
Heavy construction.	903	236,271	36.1	28.5	35.4	544	64,603	81,060	85,375	34.3	36.1	
Special trade contrac- tors.	36,676	501,777	78.5	16.1	5.4	36,360	122,096	160,874	213,838	32.1	42.6	
New England.	4,350	92,104	63.0	28.9	8.1	4,044	25,853	32,319	38,324	35.1	41.6	
Maine.	536	5,553	75.7	22.0	2.3	526	1,783	1,897	2,274	34.2	41.0	
New Eampshire.	218	4,237	54.3	38.9	6.8	229	1,215	1,415	1,962	33.4	46.3	
Vermont.	141	1,327	74.9	21.9	3.2	163	447	436	546	32.9	41.1	
Massachusetts.	2,284	48,279	67.1	27.1	5.8	2,093	12,516	16,731	20,309	34.7	42.1	
Rhode Island.	190	6,388	50.6	38.8	10.6	162	1,867	2,294	2,794	35.9	43.7	
Connecticut.	981	26,320	56.8	30.1	13.1	871	8,025	9,546	10,439	36.3	39.7	
Middle Atlantic.	13,053	336,697	66.4	21.4	12.2	11,784	82,455	115,637	140,299	34.3	41.7	
New York.	6,462	215,569	68.6	18.9	12.5	5,291	50,768	76,391	88,840	35.4	41.2	
New Jersey.	2,712	43,309	58.4	33.9	7.7	2,524	10,766	14,224	18,209	32.8	12.0	
Pennsylvania.	3,879	77,819	64.9	21.0	14.1	3,969	20,921	25,022	33,250	32.2	42.7	
East North Central.	9,843	274,832	57.9	25.7	16.4	9,351	75,352	93,820	112,300	34.1	40.9	
Ohio.	2,649	62,137	58.2	24.2	17.6	2,492	16,167	20,475	24,563	33.0	39.5	
Indiana.	1,402	24,966	56.8	29.6	13.6	1,439	6,901	7,252	11,677	29.0	46.8	
Illinois.	2,391	107,957	55.5	23.9	20.6	2,170	29,590	39,102	43,315	36.2	10.1	
Michigan.	1,255	47,638	57.9	30.2	11.9	1,175	13,225	17,251	18,962	36.2	39.8	
Wisconsin.	2,146	32,134	66.7	24.5	8.8	2,075	9,469	9,740	13,783	30.3	42.9	
West North Central.	5,157	152,660	40.6	27.7	31.7	5,280	49,167	46,253	63,865	30.3	41.8	
Minnesota.	1,492	41,938	43.5	27.1	29.4	1,597	15,658	12,668	16,376	30.2	30.0	
Iowa.	881	21,752	38.9	32.9	28.2	932	6,058	5,977	10,049	27.5	46.2	
Missouri.	1,530	58,365	40.4	18.8	40.8	1,419	17,430	18,739	24,194	32.1	41.5	
North Dakota.	104	2,617	43.5	43.7	12.8	118	946	739	1,084	28.2	41.4	
South Dakota.	157	3,876	40.8	43.2	16.0	159	1,117	1,019	1,709	26.3	44.1	
Nebraska.	495	15,056	30.8	39.7	29.5	518	4,981	4,612	6,461	30.6	42.9	
Kansas.	498	9,056	48.6	44.3	7.1	537	2,977	2,499	3,992	27.6	44.1	
South Atlantic.	4,154	147,586	59.5	25.5	15.0	3,845	47,199	46,909	67,556	31.8	45.8	
Delaware.	150	4,328	68.8	28.0	3.2	123	1,395	1,598	1,716	36.9	39.6	
Maryland.	710	17,703	59.0	26.0	15.0	680	5,227	5,594	8,135	31.6	46.0	
Dist. of Columbia.	305	24,746	88.5		11.5	202	6,197	8,339	11,151	33.7	45.1	
Virginia.	673	18,114	57.4	30.9	11.7	663	5,376	5,539	8,983	30.6	49.6	
West Virginia.	338	7,525	36.2	46.8	17.0	355	3,169	2,607	2,757	34.6	36.6	
North Carolina.	499	18,924	61.0	29.3	9.7	493	6,446	5,707	9,255	30.2	48.9	
South Carolina.	276	9,774	42.6	31.3	26.1	258	3,593	3,101	4,733	31.7	48.4	
Georgia.	533	20,711	40.6	31.6	27.8	492	7,278	6,244	8,954	30.1	43.2	
Florida.	670	25,761	59.2	29.3	11.5	579	8,518	8,180	11,872	31.8	46.1	
EastSouth Central.	2,045	44,367	53.7	28.8	17.5	2,138	16,612	12,886	20,056	29.0	45.2	
Kentucky.	934	13,903	57.8	30.0	12.2	992	4,921	4,052	5,608	29.1	40.3	
Tennessee.	582	20,187	49.5	27.9	22.6	591	7,642	5,796	9,568	28.7	47.4	
Alabama.	267	7,830	58.1	23.3	18.6	272	3,006	2,350	3,747	30.0	47.9	
Mississippi.	262	2,447	51.6	46.4	2.0	283	1,043	688	1,133	28.1	46.3	
WestSouth Central.	1,953	71,479	40.9	46.4	12.7	1,935	25,998	20,987	29,774	29.4	41.7	
Arkansas.	214	4,417	39.8	57.3	2.9	230	2,203	1,219	1,985	27.6	44.9	
Louisiana.	254	14,315	44.7	33.9	21.4	215	4,290	3,955	6,071	27.6	42.4	
Oklahoma	351	11,476	27.5	62.7	9.8	343	3,432	2,990	4,642	26.1	40.4	
Texas.	1,134	41,271	43.3	45.1	11.6	1,147	16,073	12,823	17,076	31.1	41.4	
Mountain.	1,478	41,667	36.5	42.1	21.4	1,591	13,117	13,702	15,655	32.9	37.6	
Montana.	160	5,951	41.0	56.4	2.6	169	1,871	1,853	2,292	31.1	38.5	
Idaho.	163	7,742	15.3	25.1	59.6	191	2,709	2,946	2,188	38.1	28.3	
Wyoming.	236	2,837	43.0	38.6	18.4	253	820	809	1,145	28.5	40.4	
Colorado.	367	8,704	43.3	42.9	13.8	371	2,615	2,894	3,058	33.2	35.1	
New Mexico.	67	2,857	27.7	60.0	12.3	81	678	729	1,279	25.5	44.8	
Arizona.	121	3,560	41.3	58.4	.3	127	1,287	1,321	1,515	37.1	45.4	
Utah.	322	8,115	15.7	28.9	25.4	358	2,554	2,422	3,469	29.8	42.7	
Nevada	42	1,901	31.9	67.3	.8	41	583	728	609	38.3	32.0	
Pacific.	4,396	169,443	62.5	30.9	6.6	4,563	43,314	54,289	71,612	32.0	42.3	
Washington.	631	31,781	68.3	22.9	8.8	611	7,234	9,867	14,207	31.0	44.7	
Oregon.	446	19,518	53.1	28.5	18.4	471	5,369	6,636	7,307	34.0	37.4	
California.	3,319	118,144	62.6	33.4	4.0	3,481	30,711	37,786	50,098	32.0	42.4	

1 Outside home city.

2 See note 1, table 900.

3 Includes operative builders.

Source: Department of Commerce, Bureau of the Census; Census of Business, 1935, Construction Industry, Vol. I.

No. 902. CONSTRUCTION INDUSTRY VALUE OF WORK DONE, BY CLASS OF CONSTRUCTION, AND BY CLASS OF CONTRACTOR: 1935

NOTE.—All figures in thousands of dollars. Data relate to establishments included in table 901

KIND OF BUSINESS GROUP	NEW					REPAIRS					
	Total	NEW		REPAIRS		Total	NEW		REPAIRS		
		Private	Public	Private	Public		Private	Public	Private	Public	
All construction						Building, total					
United States.	1,330,835	405,473	555,548	327,775	42,039	812,064	336,463	143,359	312,470	19,772	
General contractors.	829,058	223,606	490,289	85,661	29,502	339,658	166,313	91,668	73,475	8,202	
Building L.	352,329	167,365	104,206	73,100	7,658	332,856	163,317	89,694	72,396	7,449	
Highway and heavy.	476,729	56,241	386,083	12,561	21,844	6,802	2,996	1,974	1,079	753	
Special trade contractors.	501,777	181,867	65,259	242,114	12,537	472,406	170,150	51,691	233,995	11,570	
Residential building						Other building					
United States.	386,327	151,850	9,817	220,964	3,696	425,737	184,613	133,542	91,506	16,076	
General contractors.	111,621	66,633	4,849	38,926	1,213	228,037	99,680	86,819	34,549	6,989	
Building I	110,350	66,020	4,653	38,543	1,134	222,506	97,297	85,041	33,853	6,315	
Highway and heavy.	1,271	6131	196	383	795	5,531	2,383	1,778	696	674	
Special trade contractors.	274,706	85,217	4,968	182,038	2,483	197,700	84,933	46,723	56,957	9,087	
Highway						Heavy					
United States.	245,252	13,6495	216,640	2,239	12,724	273,519	55,361	195,549	13,066	9,543	
General contractors	241,707	12,747	214,740	1,880	12,340	247,693	44,546	183,881	10,306	8,960	
Building I	4,317	618	3,532	72	95	15,156	3,430	10,980	632	114	
Highway and heavy.	237,390	12,129	211,208	1,808	12,245	232,537	41,116	172,901	9,674	8,846	
Special trade contractors.	3,545	902	1,900	359	384	25,826	10,815	11,668	2,760	583	

I Includes operative builders.

Source: Department of Commerce, Bureau of the Census; Census of Business, 1935, Construction Industry, Vol. I.

No. 903. CONSTRUCTION INDUSTRY- SUMMARY, BY STATES: 1929 AND 1935

NOTE.—See headnote, table 899. Census statistics for 1929 and 1935 for all reporting construction establishments are not comparable

ESTABLISHMENTS REPORTING BUSINESS OF 25,000 OR MORE IN 1929

KIND OF BUSINESS GROUP, DIVISION, AND STATE	Num-ber of estab-lish-ments	Value of work per-formed in 1929 (1,000 dolis.)	DIVISION AND STATE	Num-ber of estab-lish-ments	Value of work per-formed in 1929 (1,000 dolls.)	DIVISION AND STATE	Num-ber of estab-lish-ments	Value of work per-formed in 1929 (1,000 dolis.)
United States.	30,597	4,734,773	E. N. Cen. Con. Wisconsin.	1,147	119,868	ES. Central-Con. Tennessee.	314	53,065
General contractors.	15,516	2,976,873	W. N. Central. Minnesota.	2,490	367,544	Alabama.	197	38,841
Special trade contractors.	15,081	1,817,900	Iowa.	486	68,660	Mississippi.	95	10,873
New England.	2,780	370,192	Missouri	759	120,296	W. S. Central. Arkansas.	1,609	258,850
Maine.	142	11,593	N. Dakota.	81	7,428	Louisiana.	118	14,557
N. Hampshire.	113	9,135	S. Dakota.	705	7,591	Ollahoma.	312	49,212
Vermont.	61	5,612	Nebraska	243	40,314	Texas.	1,001	164,482
Massachusetts.	1,434	229,778	Kansas.	290	35,144			
Rhode Island.	226	25,290						
connecticut.	804	88,784	South Atlantic. Delaware.	2,184	338,238	Mountain. Montana.	708	74,203
			Maryland.	911	14,789	Idaho.	119	10,208
Middle Atlantic.	8,546	1,608,973	Dist. of Col.	407	82,030	Wyoming	44	6,268
Now York.	4,372	938,100	Virginia.	253	39,846	Colorado.	40	2,765
New Jersey.	1,483	235,061	W. Virginia	337	41,682	New Mexico.	211	23,040
Pennsylvania	2,691	435,812	N. Carolina.	169	20,053	Arizona.	411	5,744
E. N. Central.	7,834	1,224,664	S. Carolina.	293	47,800	Utah.	105	10,323
Ohio.	2,043	310,519	Georgia.	116	14,833	Nevada.	129	12,899
Indiana.	746	86,760	Florida.	230	46,490		20	2,956
Illinois.	2,497	454,524		288	30,715	Pacific. Washington.	3,409	417,009
Michigan.	1,5015	252,993	E. S. Central. Kentucky.	336	137,100	Oregon.	404	55,263
				330	34,321	California.	249	26,315
							2,756	335,431

No. 903. CONSTRUCTION INDUSTRY SUMMARY, BY STATES: 1929 AND 1935-Continued

ESTABLISHMENTS REPORTING BUSINESS OF \$25,000 OR MORE IN 1929 AND REPORTING FOR BOTH 1929 AND 1935

KIND OF BUSINESS GROUP, DIVISION, AND STATE	Number of establishments	WORK PERFORMED		ACTIVE PROFESSIONAL AND FIRM MEMBERS	EMPLOYEES, AVERAGE FOR YEAR		PAYROLL (1,000 DOLLARS)		COST OF MATERIAL INSTALLED (1,000 DOLLARS)	
		1929	1935							
		Value (1,000 dollars)	Per cent of total for 1929		1929	1935	1929	1935	1929	1935
United States.	8,899	877,437	39.2	7,698	6,434	76,163	22,567	256,619	780,903	387,149
General contractors.	3,653	1,185,641	39.8	3,124	2,549	259,958	62,120	468,954	76,278	455,903
Special trade contractors.	5,246	691,796	38.1	4,574	3,885	115,195	56,898	253,613	82,241	325,095
New England.	870	141,758	38.3	725	591	31,870	15,359	62,111	20,090	55,121
Maine.	63	4,929	42.5	59	51	1,355	705	2,215	841	1,849
N. Hampshire.	33	3,863	42.3	321	331	1,015	672	1,613	745	1,715
Vermont.	16	1,291	23.0	429	19	330	144	461	145	581
Massachusetts.	450	78,073	34.0	366	294	16,635	7,015	34,128	10,000	31,168
Rhode Island.	63	9,601	38.0	42	35	2,261	1,337	4,277	1,652	3,582
Connecticut.	245	44,001	49.6	207	159	10,274	5,486	19,417	6,707	16,226
Middle Atlantic.	2,358	538,202	33.5	1,773	1,478	101,918	43,519	227,723	62,782	204,411
New York.	1,252	350,173	37.3	746	598	63,778	26,949	53,296	1,546	125,151
New Jersey.	358	52,485	26.5	247	214	10,821	5,455	24,385	7,556	27,257
Pennsylvania.	748	125,544	28.8	780	666	27,319	11,115	50,042	13,680	52,003
E. N. Central.	2,165	465,846	38.0	1,783	1,495	85,248	46,102	179,333	68,794	200,000
Ohio.	546	114,774	37.0	396	364	22,011	9,745	41,968	12,903	52,654
Indiana.	233	39,236	45.2	223	176	8,058	4,583	13,992	4,921	19,912
Illinois.	680	172,815	38.0	573	466	29,917	16,747	70,616	22,224	55,407
Michigan.	312	88,007	34.8	266	227	15,283	9,219	34,429	12,393	38,770
Wisconsin.	394	51,014	12.6	325	262	9,979	5,808	18,328	6,353	23,257
W. N. Central.	942	169,177	46.0	868	741	36,811	29,840	60,477	27,808	72,517
Minnesota.	235	50,633	57.5	226	199	11,440	10,819	18,805	8,194	18,643
Iowa.	170	29,289	42.7	187	148	5,521	4,069	9,023	4,153	14,839
Missouri.	321	54,871	45.6	221	190	11,975	9,483	21,784	10,587	22,763
North Dakota.	291	3,704	49.9	321	321	771	516	1,121	406	1,897
South Dakota.	165	2,632	34.7	121	8	630	416	783	388	1,069
Nebraska.	96	17,179	12.6	100	90	3,980	3,148	5,323	2,833	3,275
Kansas.	75	10,869	30.95	90	74	2,494	1,389	3,638	1,247	5,031
South Atlantic.	772	134,492	39.8	703	544	35,583	25,176	48,840	24,460	60,141
Delaware.	48	6,371	13.1	41	31	1,366	910	2,312	1,075	2,864
Maryland.	106	24,608	30.0	90	68	5,741	3,003	9,191	3,355	10,071
Dist. of Col.	87	16,445	11.3	65	46	4,081	3,111	6,789	4,102	6,965
Virginia.	142	20,267	18.6	168	118	1,905	2,794	7,786	3,052	9,049
West Virginia.	62	7,809	38.9	71	63	2,109	1,982	3,074	1,602	2,694
N. Carolina.	911	12,478	26.1	88	69	3,487	3,832	4,311	3,272	5,363
S. Carolina.	55	10,709	72.2	47	39	3,263	1,872	3,195	1,597	6,311
Georgia.	89	23,424	50.4	82	67	7,559	3,698	7,582	2,940	11,778
Florida.	92	12,381	40.3	51	43	3,072	3,974	4,476	3,465	5,046
E. S. Central.	308	46,282	33.8	318	284	11,010	8,571	15,286	6,814	20,287
Kentucky.	110	13,334	38.9	115	106	3,154	2,638	4,823	2,135	5,209
Tennessee.	127	23,434	44.2	126	108	5,350	4,052	7,201	3,387	10,813
Alabama.	501	7,034	18.1	49	43	1,848	1,514	2,463	1,092	3,136
Mississippi.	211	2,480	22.8	28	27	658	367	799	200	1,129
W. S. Central.	369	74,325	28.9	360	309	18,600	12,203	25,074	9,805	33,849
Arkansas.	28	3,208	22.0	29	30	680	649	793	495	1,789
Louisiana.	53	12,878	45.0	42	33	2,888	1,711	3,868	1,754	5,364
Oklahoma.	67	12,639	25.7	69	54	3,207	1,617	4,248	1,472	5,713
Texas.	221	45,600	77.5	220	192	11,825	8,226	16,165	6,084	20,983
Mountain.	224	29,110	39.25	245	207	5,961	8,058	9,864	8,402	10,213
Montana.	40	4,677	45.8	46	40	825	891	1,363	817	2,080
Idaho.	14	3,309	52.8	17	17	836	2,333	1,194	2,613	487
Wyoming.	181	1,385	50.1	23	18	271	423	518	379	511
Colorado.	63	6,890	29.9	58	52	1,521	1,895	2,522	2,124	2,713
New Mexico.	10	2,635	15.9	11	8	463	153	762	171	917
Arizona.	191	1,751	17.0	21	18	411	264	558	302	903
Utah.	55	6,469	50.2	62	52	1,298	1,819	2,343	1,631	2,235
Nevada.	5	1,994	57.5	7	2	371	280	574	365	367
Pacific.	858	154,016	36.9	913	775	30,013	20,430	53,653	24,642	66,180
Washington.	129	22,678	41.0	119	93	4,503	3,028	8,646	3,657	9,776
Oregon.	61	10,305	39.2	57	57	2,411	2,307	3,768	2,301	4,188
California.	668	121,031	36.1	737	625	23,099	15,095	41,239	18,684	52,216
Consolidated reports	33	124,229.	40.505	10	10	18,104	9,760	40,206	14,922	58,279

For 1929 total, see first section of this table, p. 905.

2 See note 1, table 900.

: Figures are from single reports for organizations with establishments in 2 or more States.

Source: Department of Commerce, Bureau of the Census; Census of Business, 1935, Construction Industry, Vol. II.

No. 904. - RESIDENTIAL STRUCTURES SUMMARY FOR 64 CITIES: 1934

NOTE. - The cities included in the real-property inventory were selected from every State in the Union as a representative sample of urban housing in the United States. The cities chosen vary in size from a population of 11,000 to more than 1,000,000. The total population of the areas canvassed constituted about one-seventh of the total urban population of the United States. The survey covered all buildings with residential units except hotels, clubs, rooming houses, and summer cottages. Data for the individual cities included in this summary are shown in table 815 of the 1935 issue of the Statistical Abstract

ITEM	Number	Per cent	ITEM	Number	Per cent	ITEM	Number	Per cent
Persons inventoried.	8,074,783	100.0	Dwelling units by type.	2,633,135	100.0	Owner-occupied.	1,035,927	39.3
Families	2,612,107	100.0	Single-family.	1,536,806	58.4	Owned free.	390,537	37.7
Structures by type	1,931,055	100.0	2-family.	501,340	19.0	Mortgaged	498,382	48.1
Single-family	1,536,806	79.6	3-family.	79,302	3.0	Not reported.	147,008	14.2
2-family.	250,670	13.0	4-family.	86,676	3.3	Rental units.	1,597,208	60.7
3-family.	26,434	1.4	Row house.	34,218	1.3	Under \$15-	540,852	33.9
4-family.	21,669	1.1	Apartment	246,946	9.4	\$15 to \$30-	697,695	43.7
Row house.	7,051	.4	Other	147,847	5.6	\$30 and over.	358,661	22.5
Apartment.	22,053	1.1	Occupied.	2,428,907	92.2	Dwelling units equipped with		
Other	66,372	3.4	Very spacious	703,635	29.0	Furnace or boiler.	1,141,142	43.3
Condition of structure:			Spacious.	655,106	27.0	Mechanical refrigeration.	447,135	17.0
Good.	726,245	37.6	Adequate.	651,840	26.8	Gas for cooking.	1,823,463	69.4
Minor repairs.	857,326	44.4	Crowded.	379,434	15.6	Electricity for lighting-	2,385,880	90.6
Major repairs.	301,740	15.6	Over-crowded	29,283	1.2	Tub and/or shower.	12,627,849	99.8
Unfit for use.	43,901	2.3	Greatly over-crowded.	6,120	.3			
Not reported.	1,843	.1	Not reported.	3,489	.1			
			Vacant.	204,228	7.8			

Source: Department of Commerce, Bureau of Foreign and Domestic Commerce; Real Property Inventory, 1934.

No. 905.- BUILDING-MATERIAL PRICES AND CONSTRUCTION COSTS-INDEXES: 1914 TO 1939

[Monthly average, 1923-1925=100]

WHOLESALE PRICE INDEXES 1

YEAR	All building materials	Lumber	Brick and tile	Portland cement	Structural steel	Paint and paint materials	Other building materials	Construction costs	Factory building costs
1914.	50.6	48.0	37.9	52.2	52.9	49.0	57.8	41.8	50.4
1915.	51.3	46.9	38.2	48.4	57.6	53.0	63.0	43.7	
1916.	64.9	53.0	41.4	62.0	113.7	74.6	85.0	61.1	
1917.	84.6	69.5	49.0	76.2	168.3	92.2	110.4	85.4	
1918.	94.6	80.4	65.1	80.8	135.1	117.9	117.1	89.2	
1919.	110.9	108.8	89.7	97.1	113.5	135.7	113.1	93.5	
1920.	144.0	159.0	115.6	111.2	127.3	143.2	130.7	118.5	
1921	93.5	85.6	103.2	105.1	92.1	81.1	107.6	95.1	86.2
1922.	93.4	95.4	97.1	98.2	78.0	90.7	92.3	82.3	87.4
1923.	104.3	107.6	101.2	102.4	109.1	98.0	102.1	100.9	102.1
1924.	98.2	95.6	101.0	100.3	100.7	96.4	100.7	101.6	99.7
1925.	97.6	96.8	97.8	97.3	90.1	105.7	97.2	97.5	98.2
1926.	96.0	96.2	97.7	94.9	88.2	96.7	96.8	98.1	99.2
1927.	90.9	89.6	93.5	90.5	83.5	93.1	92.4	97.3	96.7
1928.	90.3	87.1	93.4	87.8	84.0	90.0	93.6	97.5	96.2
1929.	91.6	90.3	92.1	84.4	86.5	91.8	94.6	97.6	795.7
1930.	86.3	82.6	87.7	85.2	77.0	87.5	90.3	95.7	893.7
1931.	76.0	66.9	81.6	71.0	73.3	76.8	82.1	85.5	888.6
1932.	68.5	56.3	75.5	70.5	71.3	68.8	77.0	74.0	884.6
1933.	73.9	68.0	77.3	83.6	73.3	70.9	80.1	80.2	885.6
1934.	82.7	81.3	88.1	88.3	80.1	76.9	87.4	93.4	888.8
1935.	81.9	78.1	87.3	88.0	81.1	77.2	87.2	92.6	888.9
1936.	83.2	81.3	86.6	87.5	83.8	77.5	87.3	97.3	892.8
1937.	91.4	95.3	91.3	84.4	99.8	80.7	95.9	110.7	8100.4
1938.	86.7	87.0	88.9	85.7	97.9	78.6	89.7	111.2	96.2
1939.	86.9	89.9	89.3	86.6	94.6	80.1	87.4	111.0	95.4

1 Beginning/1926 the indexes, except for Portland cement and structural steel, have been revised to include additional items not previously included; the : All building materials" index also includes plumbing and heating equipment (not shown separately in this table) for which data are not available prior to 1926.

: Excludes prices prior to 1926. plant prices for years prior to 1926, and on delivered prices for subsequent years. on Pittsburgh district. 5 Excludes paint prior to 1926.

Based upon the cost of lumber, steel, cement, and the rates paid common labor.

Average January, February, May, September, and December.

: Average of March, June, September, and December.

Sources: Wholesale prices, Department of Labor, Bureau of Labor Statistics; December 1939 issue of Wholesale Prices. Construction costs, Engineering News-Record. Standard factory building costs, Aberthaw Construction Co.

No. 906.- URBAN HOUSING, FINANCIAL SURVEY UNITS SURVEYED, VALUE OF

NOTE.-The Financial Survey Urban Eousing is a study of financial and related economic data for a Statistical Abstract and table 1 of the 1935 issue and of family income and other factors relating to the acquisition, cost, value, and type of dwellings, rents, mortgages, family income, and families and persons

CITY AND GEOGRAPHIC AREA	OCCUPIED DWELLING UNITS SURVEYED				AVERAGE VALUE 1-FAMILY DWELLINGS, JAN. 1, 1934		AVERAGE ANNUAL RENTAL PER DWELLING UNIT, RENTED PROPERTIES, 1933		PERCENT OF PROPERTIES MORTGAGED	
	rentant-occu-pied units		Owner-occupied units		Own-er-occu-pied	Rent-ed	Total, all dwell-ings	1-fam-ily dwell-ings	Own-cr-occu-pied	Rent-ed
	Num-ber 1	Per-cent of total a	Num-ber 1	Per-cent of total 2						
1 Total 52 cities.	157,738	12.1	128,521	15.1	84,447	\$3,142	\$263	248	58.3	42.8
2 New England.	12,600	7.7	6,756	7.4	6,214	4,832	294	348	68.6	53.8
3 Portland, Maine.	2,757	24.1	1,448	24.5	6,051	4,445	328	363	46.7	41.3
4 Worcester, Mass.	2,818	9.6	1,423	9.3	6,642	6,133	305	428	83.6	69.3
5 Providence, R. I.	5,892	5.4	3,290	6.3	5,903	4,706	287	329	63.2	50.2
6 Waterbury, Conn.	1,133	7.7	595	7.5	8,001		293	457	31.1	
7 Middle Atlantic	7,311	10.7	7,394	13.2	5,223	4,457	290	827	66.9	55.9
8 Binghamton, N. Y.	774	7.0	590	7.5	6,163		330	445	15.3	
9 Syracuse, N. Y.	1,526	5.0	1,314	5.9	5,901	5,436	296	354	76.9	67.1
10 Trenton, N. J.	2,083	15.7	2,365	17.5	4,200	3,135	273	265	68.8	39.8
11 Erie, Pa.	2,928	21.4	3,125	25.2	4,576	3,786	264	289	49.7	36.5
12 East North Central.	36,871	12.5	32,406	16.5	5,669	4,306	297	307	65.3	51.2
13 Cleveland, Ohio.	27,485	14.0	22,036	17.9	6,249	5,464	311	363	57.0	53.2
14 Indianapolis, Ind.	3,183	5.2	2,780	7.5	4,890	3,126	300	277	63.8	51.2
15 Peoria, Ill.	2,330	18.4	2,740	22.2	4,405	3,087	283	258	54.0	40.3
16 Lansing, Mich.	977	9.2	1,149	12.3	3,813	2,970	204	200	57.4	36.5
17 Kenosha, Wis.	1,002	17.0	1,145	19.4	5,069	4,969	226	251	65.3	48.2
18 Racine, Wis.	1,894	23.3	2,556	29.8	4,961	4,342	219	230	67.1	53.5
19 West North Central	24,896	13.3	24,757	15.7	3,662	2,713	282	266	51.5	39.4
20 Minneapolis, Minn.	9,284	13.9	7,519	14.4	4,204	3,375	318	338	55.9	46.3
21 St. Paul, Minn.	1,830	5.3	1,899	5.7	3,766	3,285	290	316	48.0	41.4
22 Des Moines, Iowa.	3,118	14.8	3,422	18.7	3,157	2,486	285	262	49.5	35.4
23 St. Joseph, Mo.	1,282	12.0	1,262	16.2	3,296	2,483	235	223	42.9	24.7
24 Springfield, Mo.	1,197	14.9	1,594	21.5	2,651	1,940	183	173	50.1	25.4
25 Fargo, N. Dak.	909	21.3	845	30.9	4,811		337	340	58.5	
26 Sioux Falls, S. Dak.	1,525	30.5	1,224	31.0	4,101	3,291	299	288	53.4	10.8
27 Lincoln, Nebr.	1,295	12.0	1,715	16.1	3,548	2,524	268	257	48.2	36.5
28 Topeka, Kans.	2,078	23.0	2,518	27.5	3,186	2,258	243	224	44.0	26.2
29 Wichita, Kans.	2,378	14.1	2,759	20.9	2,722	2,066	200	188	53.5	38.8
30 South Atlantic.	26,729	14.2	12,987	15.2	4,323	3,128	218	214	50.5	34.5
31 Hagerstown, Md.	1,275	25.3	740	27.5	4,601	2,535	232	242	49.6	26.2
32 Richmond, Va.	4,176	15.0	2,285	16.4	5,218	3,640	283	274	49.7	34.2
33 Wheeling, W. Va.	2,219	8.7	2,350	12.2	3,768	3,519	227	234	35.3	21.9
34 Asheville, N. C.	1,644	21.6	898	25.4	3,807	3,234	169	173	16.9	14.5
35 Greensboro, N. C.	1,225	15.2	569	16.0	5,226	3,382	200	184	56.8	29.3
36 Charleston, S. O.	2,537	19.1	647	19.5	5,023	2,723	177	198	32.9	23.6
37 Columbia, S. C.	1,583	18.9	598	18.8	4,779	2,907	187	189	58.4	33.7
38 Atlanta, Ga.	9,543	13.9	4,274	15.9	4,339	2,793	223	233	58.3	40.7
39 Jacksonville, Fla.	2,527	10.4	626	6.9	3,499		172	157	47.6	
40 East South Central.	9,199	10.5	5,218	15.4	3,213	2,566	159	153	52.4	22.5
41 Paducah, Ky.	1,313	23.9	782	25.8	2,106	1,188	145	130	30.7	7.1
42 Birmingham, Ala.	7,178	9.6	3,989	14.7	3,198	2,703	151	148	52.4	22.9
43 Jackson, Miss.	768	9.3	447	12.5	4,462		232	213	61.5	
44 West South Central.	13,083	13.1	10,516	18.0	3,643	2,488	248	234	53.4	37.4
45 Little Rock, Ark.	2,615	23.0	1,995	27.9	3,230	1,794	192	183	43.8	23.9
46 Baton Rouge, La.	865	18.0	381	15.9	3,806		227	217	53.3	
47 Oklahoma City, Okla.	3,697	13.9	2,944	18.4	3,833	2,580	251	235	61.7	43.1
48 Austin, Tex.	1,018	13.0	1,082	17.5	3,732	2,529	260	244	89.2	30.6
49 Dallas, Tex.	3,831	9.0	3,220	13.9	3,635	2,796	277	270	53.3	39.6
50 Wichita Falls, Tex.	1,057	16.5	894	26.0	2,933	1,970	153	149	41.4	21.2
51 Mountain.	10,060	22.8	9,639	27.2	2,956	2,465	249	223	49.3	39.1
52 Butte, Mont.	2,010	40.7	1,989	48.7	2,355	1,719	248	220	24.2	15.1
53 Boise, Idaho.	1,114	34.3	1,318	45.3	3,147		286	248	45.1	
54 Casper, Wyo.	698	24.1	708	35.0	2,594		222	218	44.1	
55 Pueblo, Colo.	917	15.7	1,039	17.8	1,830	1,503	187	171	40.9	22.5
56 Phoenix, Ariz.	1,667	18.0	998	24.4	4,143	3,368	243	245	55.6	43.6
57 Salt Lake City, Utah.	3,654	20.3	3,587	21.7	3,224	2,677	260	232	54.0	42.9
58 Pacific.	16,989	9.8	18,848	13.5	3,231	2,727	251	240	50.5	37.1
59 Seattle, Wash.	5,992	8.0	6,705	11.1	3,043	2,587	255	233	49.2	36.4
60 Portland, Ore.	4,023	9.0	5,065	11.7	3,104	2,655	204	198	51.0	33.8
61 Sacramento, Calif.	2,168	15.4	2,343	21.7	3,995	3,255	319	326	54.5	45.0
62 San Diego, Calif.	4,806	12.4	4,735	19.1	3,568	2,872	276	275	50.6	38.3

1 Sample surveyed in the 52 cities shown in this table. In 9 other cities included in the study the field enumeration was only partly completed, and only simplified tabulations of the data were made.

2 Financial Survey reports as percentage of reports by Real Property Inventory. See also headnote.

1-FAMILY DWELLINGS, RENTS, MORTGAGES, AND FAMILY INCOME, FOR 52 CITIES

sample of the same properties covered by the Real Property Inventory (see table 904 of this issue of the occupants. This table presents selected statistics from the Financial Survey. Additional data relating to occupying the dwellings, are published for 22 cities in the report, "Financial Survey of Urban Housing"

AVERAGE RATIO OF MORTGAGE DEBT TO VALUE		INTEREST RATES (PERCENT)				AVERAGE ANNUAL FAMILY INCOME							AVERAGE RATIO RENT TO INCOME
OF PROPERTY (PERCENT)		Contract rate (weighted)		Effective rate (weighted)		Owner occupants			Tenants				31
Owner-occupied	Rented	Owner-occupied	Rented	Owner-occupied	Rented	1929	1932	1933	1929	1932	1933	1933	
55.6	60.4	6.18	6.25	6.54	6.76	\$2,304	\$1,654	\$1,465	\$1,589	\$1,183	\$1,082	24.2	1
54.6	60.6	5.93	5.88	6.17	6.20	2,505	1,869	1,710	1,659	1,260	1,171	25.2	2
50.5	53.4	6.00	6.04	6.10	6.11	2,773	2,188	1,842	1,744	1,415	1,290	25.4	3
67.1	69.3	5.64	5.47	5.71	5.76	2,784	2,089	1,907	1,686	1,306	1,221	24.9	4
49.4	58.7	6.06	6.00	6.45	6.40	2,339	1,733	1,606	1,630	1,239	1,124	25.5	5
60.0	5.90	5.93	5.84	6.06	6.06	3,086	2,233	2,073	1,742	1,286	1,223	24.0	6
55.9	62.8	5.65	5.72	5.81	6.03	2,212	1,576	1,394	1,571	1,196	1,071	27.5	7
45.9	5.80	6.35	6.18	6.18	6.18	2,421	2,051	2,019	1,694	1,439	1,408	23.4	8
57.0	62.7	5.46	5.54	5.69	5.83	2,450	1,714	1,507	1,665	1,231	1,082	27.3	9
58.4	59.7	5.92	5.77	6.03	6.29	1,917	1,377	1,174	1,317	1,010	902	30.3	10
57.7	64.5	5.94	5.95	6.36	6.48	1,943	1,281	1,080	1,549	1,050	924	28.6	11
56.8	64.2	6.18	6.15	6.45	6.46	2,478	1,683	1,430	1,774	1,253	1,149	25.9	12
57.2	67.7	6.14	6.09	6.42	6.35	2,463	1,669	1,391	1,757	1,240	1,138	27.2	13
56.2	57.0	6.34	6.34	6.52	6.76	2,899	2,078	1,821	1,896	1,422	1,289	23.1	14
50.4	52.5	6.56	6.39	6.88	6.76	2,203	1,614	1,454	1,691	1,220	1,131	24.9	15
59.5	57.0	6.20	6.35	6.41	6.75	2,146	1,337	1,204	1,632	1,016	966	21.0	16
53.8	58.4	6.09	6.24	6.38	6.59	1,855	1,067	959	1,378	831	803	28.1	17
58.9	59.8	5.95	5.96	6.34	6.47	1,939	1,052	918	1,589	913	837	26.3	18
52.0	55.3	6.09	6.08	6.54	6.72	2,173	1,659	1,443	1,611	1,248	1,141	24.5	19
52.4	56.7	5.92	5.91	6.31	6.68	2,304	1,742	1,530	1,730	1,349	1,220	26.0	20
50.0	53.7	5.93	5.94	6.46	6.50	2,060	1,633	1,469	1,454	1,139	1,056	27.6	21
53.2	52.2	5.91	6.18	6.48	6.64	2,138	1,653	1,455	1,660	1,307	1,174	24.2	22
52.5	54.5	6.21	6.12	6.80	6.69	2,196	1,727	1,473	1,555	1,261	1,176	19.9	23
52.9	48.2	7.04	7.00	7.51	7.58	1,753	1,288	1,162	1,365	1,003	899	20.2	24
50.4		6.38	6.64	6.40	6.92	2,399	1,932	1,682	1,679	1,420	1,304	25.8	25
46.5	48.8	6.12	6.01	6.57	6.71	2,283	1,748	1,545	1,635	1,309	1,229	24.3	26
53.6	63.3	6.22	6.14	6.52	6.66	2,294	1,630	1,404	1,591	1,251	1,153	23.2	27
50.4	52.0	7.03	6.86	7.51	6.99	1,981	1,512	1,373	1,492	1,172	1,070	22.6	28
56.8	57.4	6.48	6.34	7.11	7.23	2,112	1,471	1,271	1,652	1,149	1,035	19.3	29
56.6	65.5	6.25	6.32	6.91	7.25	2,270	1,730	1,620	1,268	1,028	958	23.3	30
60.9	67.4	5.87	5.75	6.12	5.64	2,064	1,435	1,315	1,312	1,029	920	25.2	31
59.4	62.6	5.97	6.00	6.72	6.83	2,715	2,154	1,999	1,508	1,352	1,285	22.2	32
49.4	51.1	5.93	6.05	6.39	6.15	1,594	1,121	1,073	1,379	982	925	24.4	33
66.3	79.7	5.95	5.83	6.39	6.35	2,126	1,544	1,393	1,155	900	821	20.6	34
61.9	61.2	5.97	5.98	6.35	7.75	2,915	2,208	2,000	1,462	1,226	1,217	16.3	35
50.3	51.9	6.71	6.42	7.12	6.87	2,454	2,060	1,927	880	745	734	24.0	36
57.4	62.6	6.87	6.94	7.39	6.72	2,315	1,829	1,787	1,015	879	812	22.8	37
57.3	70.0	6.40	6.35	7.25	7.60	2,701	2,088	1,906	1,377	1,124	979	22.7	38
52.2		6.78	6.80	7.35	7.14	1,593	1,291	1,224	873	680	626	27.5	39
59.4	51.1	6.59	6.39	7.09	7.17	2,275	1,425	1,275	1,349	889	778	20.3	40
58.7	48.2	5.93	6.16	7.29	6.70	1,667	1,231	1,134	1,019	731	680	21.5	41
61.1	52.0	6.63	6.37	7.10	7.19	2,267	1,390	1,211	1,385	880	769	19.6	42
50.4		6.52	6.60	6.93	7.11	2,703	1,891	1,707	1,250	965	899	25.4	43
55.4	56.7	6.99	7.07	7.45	7.50	2,500	1,809	1,647	1,641	1,244	1,128	21.8	44
62.9	62.2	6.26	6.32	6.88	7.34	2,591	1,763	1,502	1,445	1,063	940	26.3	45
45.0		7.17	6.78	7.55	7.61	2,153	1,707	1,532	1,371	1,118	1,009	22.5	46
58.2	55.5	6.82	7.02	7.38	6.98	2,580	1,791	1,617	1,627	1,172	1,096	22.9	47
46.4	50.9	7.41	7.59	7.52	9.16	2,070	1,710	1,534	1,450	1,282	1,163	22.0	48
53.5	56.7	7.22	7.21	7.63	7.76	2,564	1,883	1,712	1,751	1,350	1,233	22.4	49
66.3	72.4	7.22	7.12	7.48	8.02	2,706	1,832	1,650	1,612	1,114	1,048	14.7	50
55.7	57.5	7.02	7.06	6.60	7.36	2,146	1,463	1,341	1,595	1,135	1,027	23.3	51
41.3	52.2	7.82	7.45	8.32	8.71	2,257	1,261	1,155	1,732	1,038	986	25.1	52
43.2		6.95	7.64	7.91	8.17	1,812	1,395	1,266	1,493	1,259	1,194	24.0	53
56.9		6.93	5.85	7.31	7.05	2,064	1,602	1,441	1,569	1,213	1,099	20.0	54
59.2	58.9	6.62	7.04	7.08	7.16	1,570	1,043	933	1,290	843	783	23.8	55
56.3	53.3	7.31	7.39	7.60	7.94	2,880	1,919	1,590	1,681	1,204	1,114	21.8	56
58.0	59.8	6.97	6.86	5.83	6.97	2,270	1,600	1,417	1,603	1,193	1,094	23.7	57
55.9	57.4	6.34	6.42	6.92	7.06	2,098	1,491	1,307	1,626	1,198	1,092	22.8	58
54.7	57.2	6.25	6.26	6.95	6.79	2,122	1,453	1,278	1,693	1,206	1,125	22.7	59
56.6	54.9	6.09	6.20	6.45	7.10	1,994	1,381	1,218	1,423	1,017	905	22.5	60
61.8	64.2	6.58	6.82	7.14	7.23	2,465	1,914	1,712	1,805	1,456	1,344	23.7	61
54.4	57.6	6.79	6.88	7.48	7.66	2,047	1,583	1,371	1,670	1,336	1,192	23.1	62

Totals for 52 cities and geographic areas, and interest rates for individual cities are weighted averages.

Data omitted for certain cities because of insufficient number of reports.

: Metropolitan area; other cities, city proper.

Source: Department of Commerce, Bureau of Foreign and Domestic Commerce; Financial Survey of Urban Housing.