

CHAPTER VII.—FUEL AND PURCHASED ELECTRIC ENERGY CONSUMED

INTRODUCTION

Table 1 gives detailed statistics on quantities and cost of fuel and purchased electric energy consumed in manufacturing industries in 1929, with such comparative figures for 1927, 1923, 1919, and 1914 as are available. Data on the quantities but not the cost of the principal kinds of fuel consumed were collected at the censuses for 1919, 1914, and 1909 and the quantities but not the cost of anthracite and of bituminous coal consumed were reported for 1923 and 1927, but with these exceptions no data on quantities and none showing separately the cost of fuel consumed were collected for any year between 1909 and 1929. The data for fuel consumed, as reported for 1929, cover not only the quantities applied to the generation of factory power and heat (including the heat used in processing), but also the quantities used as production materials, particularly in the following industries: "Coke, not including gas-house coke," "Fuel: Briquettes and boulets," "Gas, manufactured, illuminating and heating," and "Bone black, carbon black, and lampblack." Likewise, the data for electric energy comprise those for kilowatt-hours purchased for plant power and light and also those for use in electrochemical processes in the plants.

The difference between the total cost of fuel and purchased energy as shown in Tables 2, 4, and 5, \$1,973,863,329, and the corresponding total as given elsewhere (ch. 2) \$1,866,165,719, is found in the fact that the figure given in this report represents the total cost of all fuel actually consumed in manufacturing industries, including that *produced and consumed* in the petroleum-refining, manufactured-gas, and coke industries, whereas the figure in chapter 2 covers only the cost of fuel purchased.

The figures for natural gas do not include data for 25,425,014 M cubic feet used in mining and quarrying nor for considerable quantities consumed in the so-called "service industries," which are not covered by the census of manufactures. To determine the total consumption of natural gas in manufactures it would be necessary to add to the total shown in this report the quantity used as a material in the "Bone black, carbon black, and lampblack" industry, but data therefor are incomplete, some of the manufacturers having failed to report their consumption of gas.

The consumption of manufactured gas as reported for the United States as a whole and for certain States, industry groups, and industries appears abnormal in

comparison both with the published figures for manufactured gas produced and sold by commercial gas companies and with those for gas consumption reported by the census of manufactures for 1919. The reason for the first condition is found in the inclusion of data for blast-furnace, coke-oven, and petroleum gases, the consumption in 1929 of these gases in steel works and rolling mills, coke and gas plants, cast-iron pipe plants, and structural and ornamental iron manufacturing establishments having aggregated 1,215,451,259 M cubic feet, at a cost of \$97,931,850. This cost—in many instances merely a transfer charge between plants or departments—reduced the average unit price of the aggregate amount consumed in manufactures to a point far below the usual market rate for manufactured gas. The reasons for the increase in reported gas consumption for 1929 as compared with 1919 are found largely in improved methods of recovering, purifying, and utilizing what were formerly waste by-product gases, permitting the transfer of greatly increased quantities of gas from coke ovens and blast furnaces to steel works and rolling mills and to other steel-fabricating plants, and in the inclusion in the recent figures of data for gases produced and consumed in the same plants or in plants under the same ownership.

The cost of "Other fuels," amounting in total to \$22,391,453, covers the cost both of fuels not specified on the schedules, such as wood, and of fuels specified in the classification but for which some of the manufacturers reported cost without specifying kind or quantity. It will be noted that the undistributed part of the combined cost of fuel and purchased electric energy amounts to little more than 1 per cent of the total.

The aggregate expenditure for fuel and purchased electric energy may be accepted as representing the direct cost of factory motive power, exclusive of wages in factory power plants (which are not reported separately). Although this is the smallest of the major costs of manufacturing, having amounted in 1929 to 2.8 per cent of the gross value of products manufactured, fuel and energy take on considerable importance in modern machine production.

Manufacturing industries constitute in general the largest single market for fuel and for electric energy generated in public-utility plants. Statistics covering the consumption of three selected items of fuel and of purchased electric energy, the combined cost of which amounted in 1929 to approximately 77 per cent of the

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aggregate cost to manufacturing industries of fuel and energy, are given in the table below. The quantities consumed in "Manufactures, direct" are those reported as purchased by the manufacturers. The quantities assigned to "Manufactures, indirect" represent fuel consumed by electric public utilities in the genera-

tion of energy sold to manufacturing establishments, the items having been estimated by assigning to manufactures that percentage of the total consumption of each fuel item which corresponds to the share of all distributed energy which was sold to manufacturing establishments.

CONSUMPTION OF FUEL (SELECTED KINDS) AND OF PURCHASED ELECTRIC ENERGY, BY QUANTITIES AND BY CLASSES OF CONSUMERS: 1929

	BITUMINOUS COAL		FUEL OILS		NATURAL GAS		PURCHASED ELECTRIC ENERGY	
	Tons (2,000 lbs.)	Per cent of total	Barrels	Per cent of total	M cubic feet	Per cent of total	Kilowatt-hours	Per cent of total
Aggregate.....	1 510,555,000	100.0	1 371,999,000	100.0	1 1,917,451,000	100.0	2 75,294,407,000	100.0
Industrial and business, total.....	462,451,000	89.0	364,841,000	98.1	1,557,598,000	81.2	65,521,679,000	87.0
Manufactures, direct and indirect, total.....	236,359,000	45.5	161,775,000	43.5	746,950,000	39.0	37,393,833,000	46.7
Manufactures, direct, not including carbon black.....	214,019,000	41.2	156,710,000	42.1	429,827,000	22.4	37,388,576,000	46.7
Manufacture of carbon black.....	6,000	(³)	33,000	(³)	261,107,000	13.6	5,257,000	(³)
Manufactures, indirect ⁴	22,334,000	4.3	5,032,000	1.4	56,016,000	2.9	-----	-----
Electric-power utilities ⁵	44,937,000	8.6	10,124,000	2.7	112,707,000	5.9	-----	-----
Mines and quarries.....	8,825,000	1.7	4,047,000	1.1	25,536,000	1.3	5,382,178,000	7.1
Steam railroads ⁶	113,894,000	21.9	73,066,000	19.6	-----	-----	-----	-----
Other industrial and business users.....	1 80,770,000	15.5	1 120,861,000	32.5	1 728,421,000	38.0	2 22,745,668,000	30.2
Domestic.....	1 57,104,000	11.0	1 7,158,000	1.9	1 359,853,000	18.8	2 9,772,788,000	13.0

¹ Source: Bureau of Mines.

² Source: National Electric Light Association.

³ Less than one-tenth of 1 per cent.

⁴ See third paragraph, p. 158. Source: Bureau of Mines.

⁵ Source: United States Geological Survey.

⁶ Exclusive of steam railroad construction and repair shops the operation of which are classified as a manufacturing industry.

⁷ Source: Interstate Commerce Commission.

Two noteworthy developments in fuel and energy utilization which were particularly pronounced following the World War were (a) the increased general demand for fuel oils, natural gas, and purchased electric energy, and (b) improved methods of fuel consumption.

Bituminous coal furnished 64.6 per cent of the total energy supplied by mineral fuels and water power in 1919¹; but by 1929 the corresponding percentage had dropped to 52.8 on account of the relatively greater increase in the demand for other forms of energy than that derived from coal. Between 1919 and 1929 the average amount received per ton for bituminous coal at the mines declined 28 per cent, a rate of decrease slightly less than that for the general wholesale price level, 30 per cent.²

The trend of bituminous-coal consumption in manufacturing industries, which in 1929 consumed directly 41.2 per cent, and directly and indirectly 45.5 per cent, of all bituminous coal used, reflects the competitive relation between coal and the other mineral fuels. The increase in the factory consumption of bituminous coal in 1929 over that of 1919 amounted to approximately 10,500,000 tons, or 5 per cent. Seven of the eight industries which utilized 5,000,000 or more tons each in 1929 increased their combined consumption 27,600,000 tons, the coke industry alone having used 18,100,000 tons more in 1929 than 10 years before; but the eighth, the steel-works and rolling-mills industry,

reported the consumption of 3,700,000 tons less in 1929 than in 1919, despite an increase of 59 per cent³ in physical volume of manufactured products. The next largest group of coal-consuming industries, composed of 13 industries which used between 1,000,000 and 5,000,000 tons each in 1929, reported a combined decrease of 4,300,000 tons in 1929 as compared with 1919. A third group of eight industries, each of which consumed more than 1,000,000 tons of coal in 1919 but less than that amount in 1929, reduced their combined consumption from 11,400,000 tons to 6,800,000 tons. The rest of the net decrease was distributed among numerous industries below the 1,000,000-ton class. The figures indicate a general reduction in tonnage consumed in all groups except the first.

The use of fuel oils and gasoline and kerosene (the figures for which are combined to permit comparison with those for 1919 as collected and published) in manufacturing industries increased nearly 72 per cent during the 10-year period 1919 to 1929. The proportion of the aggregate number of gallons represented by gasoline and kerosene (amounting to less than 1 per cent) was so small that the inclusion of data for those items with the figures for fuel oils had no material effect on the computations.

The combination of the 1919 data for natural and manufactured gases makes it impracticable to attempt to measure at all accurately the increase in consumption of natural gas, but available data indicate that the

¹ As measured in terms of British thermal units by the Bureau of Mines.

² Source: Bureau of Labor Statistics, Department of Labor.

³ Source: National Bureau of Economic Research, New York City.

amount of natural gas alone consumed in manufactures in 1929 was twice as large as the combined amount of natural and manufactured gases consumed a decade earlier, if to the 1929 manufactures data are added Bureau of Mines figures for consumption in the carbon-black industry. (See table above.)

The substitution of purchased electric energy for fuels for consumption in manufacturing establishments will have no pronounced effect on the aggregate consumption of fuels except as the public-utility generating stations resort to hydro generation of energy to a greater extent than do manufactures, and except as central-station generation is more economical of fuels than is individual-plant generation. As a matter of fact, the amount of energy generated by fuels in public-utility plants was larger by 158 per cent in 1929 than in 1919, while the amount generated by water power increased about 138 per cent during the decade.

No data for 1919 covering the consumption of purchased electric energy are available, but some indication of the increased use of that type of energy in manufacturing establishments between 1919 and 1929 is

afforded by the figures for motors on purchased energy, the rated capacity of such motors having increased 145 per cent between 1919 and 1929, as against an increase of less than 1 per cent in the rated capacity of prime movers.

Increased economy in fuel consumption in the modernized manufacturing plants, in central light and power stations, and in railroad locomotives has been particularly marked in recent years, largely on account of improved boiler construction, the adoption of mechanical stokers, the substitution of turbines for reciprocating engines, and the use of superheating equipment. Between 1919 and 1929 the consumption of coking coal per ton of pig iron decreased 11 per cent,⁴ the amount of coal consumed per kilowatt-hour of energy generated in central power stations declined 47 per cent,⁵ and the consumption of coal per thousand gross ton-miles by Class I railroads dropped about 24 per cent.⁶

⁴ Source: American Iron and Steel Institute.

⁵ Source: United States Geological Survey.

⁶ Source: Interstate Commerce Commission.

TABLE 1.—CONSUMPTION OF FUEL AND PURCHASED ELECTRIC ENERGY, BY QUANTITY AND COST, 1929, AND OF FUEL, BY QUANTITY, 1927, 1923, 1919, 1914, AND 1909

KIND	1929		1927 ¹	1923 ¹	1919 ¹	1914 ¹	1909 ¹
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
Fuel:							
Coal, total ² (tons, 2000 pounds).....	224, 410, 940	\$708, 052, 692	216, 442, 337	239, 706, 753	210, 518, 152	182, 315, 430	177, 852, 984
Anthracite (tons, 2,240 pounds).....	9, 281, 416	43, 543, 316	10, 423, 500	13, 103, 619	14, 334, 402	14, 041, 123	14, 339, 220
Bituminous (tons, 2,000 pounds).....	214, 024, 754	754, 509, 376	204, 768, 017	225, 030, 700	203, 463, 622	166, 589, 372	161, 793, 058
Coke (tons, 2,000 pounds).....	52, 391, 839	243, 649, 015	(³)	(³)	42, 595, 019	32, 539, 325	37, 925, 338
Fuel oils, including crude oil and gas oils used as fuel (gallons) ⁴	6, 583, 193, 995	212, 639, 372	(³)	(³)	3, 766, 779, 366	2, 044, 947, 744	1, 441, 928, 544
Gasoline and kerosene (gallons) ⁴	48, 473, 195	7, 556, 341	(³)	(³)	98, 467, 698		
Gas, natural and manufactured (M cubic feet).....	1, 688, 276, 888	213, 940, 579	(³)	(³)	341, 921, 022	284, 047, 880	269, 640, 535
Gas, natural (M cubic feet).....	⁵ 429, 826, 790	⁵ 86, 369, 465	(³)	(³)	(⁶)	(⁶)	(⁶)
Gas, manufactured (M cubic feet).....	⁷ 1, 258, 450, 089	⁷ 127, 571, 114	(³)	(³)	(⁶)	(⁶)	(⁶)
Other fuels.....		22, 301, 453	(³)	(³)	(³)	(³)	(³)
Purchased electric energy (kilowatt-hours).....	37, 393, 833, 046	475, 633, 877	(³)	(³)	(³)	(³)	(³)

¹ No data on cost of fuel, by kinds, were collected for years prior to 1929.

² Calculated by adding the number of tons of bituminous coal and the number of tons of anthracite reduced to a 2,000-pound basis.

³ No data.

⁴ For years prior to 1929, reported in barrels; converted on basis of 42 gallons per barrel.

⁵ See third paragraph of text, p. 153.

⁶ Not called for separately on schedule.

⁷ See fourth paragraph of text.

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TABLE 2.—CONSUMPTION OF FUEL, BY KIND, QUANTITY, AND COST, AND OF PURCHASED ELECTRIC ENERGY, BY QUANTITY AND COST, BY INDUSTRY GROUPS: 1929

INDUSTRY GROUPS	Total cost of fuel and purchased electric energy (dollars)	COAL				COKE		FUEL OILS (including crude oil and gas oils used as fuel)	
		Anthracite		Bituminous		Tons (2,000 lbs.)	Cost (dollars)	Gallons	Cost (dollars)
		Tons (2,240 lbs.)	Cost (dollars)	Tons (2,000 lbs.)	Cost (dollars)				
All industries, total.....	1,973,863,329	9,281,416	43,543,316	214,024,754	754,509,376	52,391,839	243,649,015	6,583,198,995	212,639,372
1. Food and kindred products.....	161,443,793	1,387,545	8,080,006	12,144,289	46,702,044	623,348	5,411,507	331,610,932	11,403,673
2. Textiles and their products.....	121,104,813	1,250,725	5,922,407	7,642,549	37,110,515	36,151	81,358	273,433,344	9,460,302
3. Forest products.....	35,810,049	126,577	736,384	2,968,064	12,391,875	20,903	110,607	65,537,717	2,269,256
4. Paper and allied products.....	81,695,791	1,181,764	5,262,763	10,247,091	42,728,436	3,198	15,851	136,871,533	4,571,267
5. Printing, publishing, and allied industries.....	25,735,159	101,305	806,980	402,842	2,223,373	7,173	54,795	17,189,700	954,732
6. Chemicals and allied products.....	99,437,320	728,958	3,409,898	10,440,086	37,410,769	200,267	1,506,989	295,838,021	8,854,457
7. Products of petroleum and coal.....	510,923,133	587,953	2,560,164	95,886,128	324,437,827	3,193,941	14,751,200	3,098,786,710	81,639,557
8. Rubber products.....	19,677,375	84,269	380,987	2,305,542	8,279,167	472	2,056	19,093,678	543,440
9. Leather and its manufactures.....	13,777,901	78,983	485,262	1,434,015	6,284,347	4,092	10,347	10,263,045	353,870
10. Stone, clay, and glass products.....	157,530,670	709,745	3,701,227	22,045,960	73,968,001	154,105	807,684	344,495,539	11,965,101
11. Iron and steel and their products, not including machinery.....	463,127,847	685,004	2,553,613	26,151,552	87,158,774	46,270,251	198,158,259	1,181,165,011	47,015,826
12. Nonferrous metals and their products.....	64,784,985	1,074,617	4,268,118	3,517,241	13,767,132	726,552	5,937,936	269,807,072	12,395,034
13. Machinery, not including transportation equipment.....	110,296,800	400,611	2,061,943	5,989,924	24,745,430	1,830,182	14,972,293	190,413,278	9,122,004
14. Transportation equipment, air, land, and water.....	53,957,118	97,711	443,181	3,991,008	14,873,691	184,913	1,272,221	141,159,919	6,239,836
15. Railroad repair shops.....	31,133,731	638,054	1,302,244	7,125,779	14,886,160	26,084	151,126	159,670,176	4,001,370
16. Miscellaneous industries.....	23,376,179	147,505	968,139	1,732,684	7,536,835	50,207	392,186	46,956,860	1,798,733

INDUSTRY GROUPS	GASOLINE AND KEROSENE		GAS				OTHER FUELS	PURCHASED ELECTRIC ENERGY	
	Gallons	Cost (dollars)	Natural		Manufactured		Cost (dollars)	Kilowatt-hours	Cost (dollars)
			M cubic feet	Cost (dollars)	M cubic feet	Cost (dollars)			
All industries, total.....	48,473,195	7,556,341	2,429,826,799	86,369,465	1,258,450,089	127,571,114	22,391,453	37,398,833,046	475,633,877
1. Food and kindred products.....	4,140,554	648,193	34,752,338	8,666,105	8,572,968	6,610,633	3,150,941	4,171,254,936	70,170,086
2. Textiles and their products.....	1,468,447	217,594	1,750,325	364,202	1,703,774	1,536,455	632,121	4,032,019,344	65,776,859
3. Forest products.....	5,177,419	977,970	2,402,916	522,400	493,761	306,870	926,540	820,277,136	17,568,741
4. Paper and allied products.....	173,735	29,795	12,411,249	1,092,428	104,323	95,265	1,852,380	2,979,398,234	20,047,597
5. Printing, publishing, and allied industries.....	474,321	75,489	1,705,525	711,855	2,055,372	1,794,528	708,509	690,333,145	18,404,898
6. Chemicals and allied products.....	1,631,208	225,869	11,973,198	2,318,331	1,472,869	1,090,956	3,284,387	6,905,135,933	41,335,064
7. Products of petroleum and coal.....	530,504	71,390	129,902,410	17,545,308	298,213,785	54,842,325	3,117,803	1,128,874,465	11,957,564
8. Rubber products.....	172,719	30,000	1,290,559	167,059	32,152	32,585	906	882,449,734	10,240,575
9. Leather and its manufactures.....	99,030	14,140	95,579	38,363	133,044	128,957	80,191	227,718,474	5,373,415
10. Stone, clay, and glass products.....	2,953,680	461,898	121,038,585	24,452,853	2,900,370	1,913,389	3,568,754	2,845,290,055	30,601,763
11. Iron and steel and their products, not including machinery.....	3,565,192	554,949	68,298,915	20,013,680	925,688,163	47,708,452	2,695,860	4,986,174,207	57,268,434
12. Nonferrous metals and their products.....	1,826,395	259,976	24,609,575	4,099,339	3,022,557	2,185,461	503,118	2,147,087,553	21,368,871
13. Machinery, not including transportation equipment.....	11,464,833	1,450,297	9,004,736	3,797,719	8,103,422	5,275,651	1,362,216	2,822,563,455	47,508,407
14. Transportation equipment, air, land, and water.....	11,987,431	2,174,035	3,816,274	1,135,248	4,503,933	2,837,818	229,994	1,625,161,989	24,690,095
15. Railroad repair shops.....	1,663,258	188,997	6,345,839	1,093,058	137,965	18,913	45,296	618,311,763	9,397,461
16. Miscellaneous industries.....	1,155,469	176,644	832,776	351,617	1,251,626	1,092,866	232,422	454,942,503	10,826,847

¹ See second paragraph of text, p. 158.

² See third paragraph of text, p. 158.

³ See fourth paragraph of text, p. 158.

CENSUS OF MANUFACTURES: 1929

TABLE 3.—CONSUMPTION OF FUEL, BY KIND, QUANTITY, AND COST, AND OF PURCHASED ELECTRIC ENERGY, BY QUANTITY AND COST, BY INDUSTRIES: 1929

INDUSTRY	Total cost of fuel and electricity purchased (dollars)			COAL				COKE		FUEL OILS (including crude oil and gas oils used as fuel)		GASOLINE AND KEROSENE		GAS				OTHER FUELS		PURCHASED ELECTRIC ENERGY	
	Tons (2,240 lbs.)	Cost (dollars)	Bituminous	Tons (2,000 lbs.)	Cost (dollars)	Tons (2,000 lbs.)	Cost (dollars)	Gallons	Cost (dollars)	Gallons	Cost (dollars)	M cubic feet	Cost (dollars)	M cubic feet	Cost (dollars)	M cubic feet	Cost (dollars)	Kilowatt-hours	Cost (dollars)	Kilowatt-hours	Cost (dollars)
Agricultural implements	3,245	19,276	1,583,567	67,277	543,044	16,608	563	717,133	565,864	79,101	26,233	866,106	440,671	81,025	874	27,045	1,212,024				
Aircraft and parts	1,748	13,115	110,141	112	770	1,985	276	79,990	193,196	33,583	65,127	34,854	18,964	12,560	248	3,574	317,563				
Alcohol, ethyl, and distilled liquors	48	230	283,434	92,047	400	40,101	487	908,861	56	56	120,606	24,121	240	8,818	328	240,828	141,293				
Aluminum manufactures	513	4,386	495,537	41,345	330,287	9,552	053	520,371	53,564	7,323	947,940	212,786	149,066	102,486	370	4,730	1,193,108				
Ammunition and related products	1,006	11,136	371,021	1,144	9,838	963,553	43,969	13,303	93,469	13,303	47,881	34,706	10,948	175	968	10,948,175	171,968				
Artificial and presorted flowers and plants	251	2,438	12,174	27	280	12,374	851	3,123	2,213	3,123	8,089	7,579	588	600	5,578	838,600	47,196				
Artificial leather	12,909	72,025	186,803	42,362	186,803	860,294	29,355	33,304	33,304	33,304	11,266	624	182,005	11,266	624	182,005	182,005				
Artists' materials	348	8,768	56,213	19	193	105,552	6,758	2,704	13,525	2,704	2,982	1,340	65,427	2,982	53	2,742,705	65,427				
Asbestos products, other than packing or pipe and boiler covering	7,021	35,838	785,426	56	471	3,764	326	144,236	4,800	725	28,402	8,764	5,467	44,918	551	6	683,585				
Asphalted felt-base floor	2,860	11,717	330,150	461	4,063	2,029	620	56,271	4,063	56,271	16,014	3,532	2,971	6,769	141	1,416	108,894				
Awnings, tents, sails, and canvas covers	4,489	36,366	45,386	298	2,694	161,542	13,349	9,399	51,459	9,399	16,014	3,532	2,971	4,707	205	1,416	177,787				
Bags, other than paper, not made in textile mills	3,466	18,468	124,421	6	48	523,313	18,365	18,365	18,682	2,331	24,219	2,579	2,134	7,904	787	5,804	235,682				
Bags, paper, exclusive of those made in paper mills	835	4,704	65,228	14,433	65,228	254,241	12,819	12,819	2,300	506	1,228	1,722	1,875	3,499	16,746	494	289,786				
Baking powders, yeast, and other leavening compounds	2,072	7,340	790,528	217,773	790,528	4,405,572	135,666	135,666	2,300	506	1,228	1,722	1,875	20,159	189	289,062	289,062				
Baskets and rattan and wicker ware, not including furniture	752	5,560	50,024	124	572	8,780	589	589	6,760	1,244	150	2,114	2,152	3,896	778	2,926	123,938				
Belted other than leather and rubber, not made in textile mills	1,756	8,876	12,964	2,969	12,964	29,800	1,090	1,090	6,540	295	220	1,993	1,471	647	387	3,462	16,194				
Belted leather	3,711	27,045	75,829	28	323	33,162	1,997	1,997	6,540	295	7,384	2,473	2,401	2,821	895	3,462	97,115				
Beverages	33,619	278,938	2,078,927	3,387	28,566	9,926,164	493,762	493,762	624,072	103,734	389,761	73,311	52,500	61,558	090	78,302	2,166,828				
Billiard and pool tables, bowling alleys, and accessories	475	3,418	39,158	10	118	400,172	43,484	43,484	400,172	43,484	400,172	43,484	371	1,641	552	1,641,552	37,200				
Blacking, stains, and dressings	3,425	18,913	47,277	60	704	23,689	1,479	1,479	600	120	1,742	11,804	10,687	1,631	658	755	47,622				
Bluing	316	3,198	1,071	6	80	23,689	500	500	600	120	1,742	11,804	10,687	1,631	658	40	2,445				
Bolts, nuts, washers, and rivets, not made in plants operated in connection with rolling mills	2,008	17,193	342,211	3,738	30,800	10,483,295	468,766	468,766	41,608	7,154	1,045,091	139,940	81,781	57,041	950	1,558,596	901,906				
Bone black, carbon black, and lampblack	518	7,273	27,227	54	497	1,890,131	29,572	29,572	1,700	205	1,264,850	15,720	35,682	5,257	130	1,558,596	81,082				
Bookbinding and blank-book making	4,997	34,122	111,454	54	497	543,847	33,582	33,582	8,261	1,437	19,725	40,972	35,682	22,050	083	15,669	673,352				
Boot and shoe cut stock, not made in boot and shoe factories	11,527	55,806	116,952	20	300	99,104	4,164	4,164	50	8	150	8,265	3,448	9,801	897	3,298	210,010				
Boot and shoe findings, not made in boot and shoe factories	2,792	22,332	125,964	26	245	662,458	27,124	27,124	15,928	1,907	2,973	14,621	12,448	13,754	340	1,036	455,456				
Boots and shoes, other than rubber	29,122	183,423	1,054,837	910	4,176	4,476,527	158,982	158,982	15,606	2,176	38,461	56,718	59,986	112,556	805	32,164	3,255,712				
Boots and shoes, rubber	4,932	34,214	444,360	50,318	345	5,617,574	159,030	159,030	15,606	2,176	38,461	56,718	59,986	69,059	707	91,402	856,313				
Boxes, cigar, wooden	1,806	9,823	28,186	37	345	35,618	3,186	3,186	4,788	980	1,152	1,751	1,033	2,319	481	412	91,402				
Boxes, paper, not elsewhere classified	18,371	112,024	794,666	947	5,129	2,486,486	127,780	127,780	60,817	11,634	141,743	77,817	39,209	72,870	312	28,540	1,812,397				
Boxes, wooden, except cigar boxes	1,603	11,931	168,386	177	548	122,115	8,206	8,206	23,403	4,788	35,881	4,874	4,537	38,868	109	26,804	987,790				
Bread and other bakery products	334,342	499,593	2,974,916	421,049	4,012,417	31,476,973	1,696,267	1,696,267	212,214	32,125	6,560,014	5,299,972	4,037,333	404,710	648	10,045,464	945,462				
Brooms	1,589	6,466	127,216	36	356	60,949	4,554	4,554	5,363	817	6,577	7,063	1,490	2,119	349	1,490	10,458				
Brushes, other than rubber	1,285	11,417	22,059	84	828	134,512	10,022	10,022	32,511	6,597	4,844	15,128	13,647	4,742	958	26,737	195,455				
Butter	22,330	155,612	2,601,626	2,319	15,365	12,379,948	465,312	465,312	248,134	40,626	839,797	1,944	1,561	293,005	463	3,135,098	3,135,098				

FUEL AND ELECTRIC ENERGY CONSUMED

Buttons	510,834	533	6,325	38,930	196,568	6	80	129,547	7,732	4,994	749	7,798	7,364	3,639	11,071,301	288,377
Candles	76,645	538	4,069	11,208	52,115			46,132	2,738	60	12	201	211		684,765	17,458
Canning and preserving	807,579	1,708	16,638	32,737	205,808	2,884	13,886	5,223,555	166,252	61,130	11,683	26,949	26,972	83,449	9,208,482	208,986
Fish, crabs, shrimps, oysters, and clams																
Onions and vegetables																
Beans and peas																
Pickles, hollies, preserves, and sauces	6,002,322	16,414	117,300	666,345	2,666,240	10,162	61,525	31,716,967	931,182	548,533	87,486	93,708	84,632	197,664	69,729,413	1,735,693
Oil and general construction and repairs, electrical and mechanical	1,449,963	12,068	70,648	77,534	302,222	1,272	7,803	899,891	26,024	11,219	1,675	9,601	8,421		88,361,127	1,014,031
Car and general construction and repairs, steam-railroad repair shops	29,738,768	625,866	1,231,596	7,048,245	14,583,868	24,812	143,323	158,860,235	3,975,852	1,682,089	186,422	128,364	110,492	45,296	529,950,666	8,383,430
Railroad repair shops																
Carbon paper and inked ribbons	115,257	354	3,654	5,180	29,547	38	488	68,894	5,212			1,737	1,840	6,769	1,661,638	61,082
Cardboard, not made in paper mills	46,699			5,943	30,268			32,079	1,684						476,148	14,737
Card cutting and designing	105,160	282	2,821	4,842	21,270	748	2,922	72,437	4,188	1,095	219	1,947	1,464	2,851	2,276,706	68,123
Carpets and rugs, rag	101,321	4,851	28,675	2,684	15,676	34	330	28,207	1,783	5,500	905	401	363	121	1,910,106	53,057
Carpets and rugs, wool																
Other than rag	2,229,901	31,853	133,773	304,340	1,513,774			3,136,409	125,969			1,199	1,153		19,393,703	455,282
Carriage, wagon, sleigh, and sled materials	50,204			2,860	13,301	9	90	64,397	3,856	10,000	1,750	35			982,738	31,672
Carriages and sleds, dilapidated	367,814	7,271	35,491	26,656	120,090	314	2,139	53,501	3,654	36,930	7,049	14,127	9,170	6,417	6,265,903	169,049
Carriages, wagons, sleighs, and sleds	262,213	2,476	11,681	30,254	110,143	379	3,400	527,848	24,477	37,772	5,369	532	329	3,042	4,001,904	101,892
Cars electric and steam	4,723,322	1,088	5,868	696,075	1,853,365	47,841	405,022	19,323,453	803,223	331,810	51,240	154,507	75,362	158	79,120,489	1,389,211
Railroad not built in																
Railroad repair shops																
Cash registers and adding machines	480,586	7,132	29,491	59,125	207,335	31	383	672,077	39,095	12,178	1,916	56,795	44,410		7,721,968	156,139
Caskets, coffins, burial cases, and other morticians' goods	849,865	5,745	33,227	76,029	336,349	854	3,654	331,871	22,726	13,592	2,690	17,403	16,345	12,651	14,776,584	411,723
Cast-iron pipe	3,958,763	15,018	99,464	115,921	400,928	350,716	2,162,974	730,097	45,549	54,730	8,717	1,177,448	185,279	69,182	42,249,992	900,247
Cement	52,680,969	317,548	1,719,121	9,246,108	30,027,084	7,230	30,924	124,425,778	3,033,498	85,154	13,440	8,010	8,010	161	385,192,739	12,838,944
Cereal preparations	2,124,021	13,220	96,875	145,928	555,430	2,280	18,062	1,201,780	61,498	4,800	921	159,231	102,302	5,304	103,409,044	1,274,244
Cheese	1,442,597	9,614	79,220	139,538	877,693	747	4,843	835,351	33,779	125,192	17,511	1,213	1,037	189,052	9,489,300	292,374
Chemicals, not elsewhere classified	50,257,483	259,261	1,202,192	5,139,821	17,522,813	173,376	926,672	156,845,575	4,577,930	345,866	44,767	887,801	684,204	645,497	5,817,023	787,937
China, for	233,692	163	2,010	26,174	98,480										5,839,320	129,569
China, for and decorating, not done in potteries	36,713	65	941	1,232	8,026	136	1,573	17,439	1,331	15,790	2,236	16,761	15,664	1	301,731	6,677
Chocolate and confectionery, not including confectionery	1,605,423	17,585	123,837	121,930	526,193	539	3,688	5,554,086	227,157	12,862	2,368	20,612	18,355	62,872	42,680,917	634,518
Cigars and cigarettes	1,633,977	24,304	139,621	134,856	625,317	147	1,603	1,244,537	56,888	22,055	4,723	6,140	3,479	6,060	33,901,190	769,907
Clay products (other than pottery) and nonclay refractories	45,071,632	154,479	792,340	8,123,404	26,759,971	56,086	268,943	100,267,948	3,929,239	1,097,981	157,717	138,591	57,771	1,077,884	368,622,270	6,892,708
Cleaning and polishing preparations	354,767	1,977	16,816	13,338	69,546	227	2,281	377,216	21,635	174,100	19,270	11,973	10,599	25,433	8,969,722	183,709
Clocks, clock movements, time-recording devices, and time stamps	357,624	1,766	15,773	40,540	195,135	2	20	129,353	9,031	6,208	886	11,115	11,444		4,725,767	134,787
Clothing (except work clothes), men's, youths', and boys', not elsewhere classified	3,439,743	17,082	143,687	116,863	554,495	1,604	10,815	1,749,409	95,177	37,143	3,248	429,972	411,021	85,439	54,107,023	2,084,479
Clothing, men's, button-holes																
Clothing, women's, not elsewhere classified	2,049	30	438	5	53					375	75	302	302		39,748	2,163
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's	4,627,259	6,087	66,423	13,717	83,137	350	2,833	591,446	38,678	27,745	2,491	140,311	140,406	5,822	81,046,306	4,263,367
Cloth sponging and refri-ising																
Coffee and spice, roasting																
Oil and grinding, gas-burners, etc.	1,934,763	6,145	50,709	32,714	128,901	2,858	18,506	850,331	26,734	55,682	6,271	876,229	653,086	32,326	29,007,865	891,920
Cokes, not including gas-burners, etc.	284,764,800	15,327	42,484,82	246,921	265,513,859	1,747,641	3,992,591	6,005,857	262,043	111,588	16,826	440,117	812,628	1,647,060	170,027,067	4,476,866
Collapsible tubes	94,689	5,993	24,102	9,241	49,241	120	1,036	119,454	7,742			14,276	13,989		689,747	50,237
Collars, men's	56,672	4,413	14,269	1,377	8,583							2,907	3,025		1,440,554	30,795
Combs and hairpins, not made from metal or rubber	32,718	154	1,761	2,284	17,200					108	21	1,222	1,158		268,758	12,163

* See second paragraph of text, p. 158

* See third paragraph of text, p. 158

CENSUS OF MANUFACTURES: 1929

TABLE 3.—CONSUMPTION OF FUEL, BY KIND, QUANTITY, AND COST, AND OF PURCHASED ELECTRIC ENERGY, BY QUANTITY AND COST, BY INDUSTRIES: 1929—Continued

INDUSTRY	Total cost of fuel and purchased electric energy (dollars)		COAL		FUEL OILS (including crude oil and gas oils used as fuel)		GASOLINE AND KEROSENE		GAS				OTHER FUELS		PURCHASED ELECTRIC ENERGY	
	Tons (2,240 lbs.)	Cost (dollars)	Anthracite		Bituminous		Gallons	Cost (dollars)	Gallons	M cubic feet	Cost (dollars)	Manufactured		Cost (dollars)	Kilowatt-hours	Cost (dollars)
			Tons (2,000 lbs.)	Cost (dollars)	Tons (2,000 lbs.)	Cost (dollars)						M cubic feet	Cost (dollars)			
Compressed and liquefied gases	5,533	29,419	26,010	117,402	3,062,609	121,999	10,800	1,626	118,133	31,218	12,689	8,182	186,395	236,682,416	2,876,289	
Concrete products	5,728	48,488	78,945	366,939	1,363,276	69,362	594,948	92,913	33,760	14,486	6,998	6,384	9,906	21,008,462	2,883,152	
Condensed and evaporated milk	27,905	144,837	572,221	2,576,129	8,925,251	290,895	181,160	33,410	263,268	60,381	553	263	89,991	28,909,785	646,621	
Confectionery	4,691,156	49,109	280,001	1,179,861	4,414,913	157,366	135,814	19,491	407,902	187,976	741,969	563,979	60,021	36,684,109	117,413	
Copper pipe and sheet-iron pipe, including galvanized iron pipe, AOT elsewhere classified	4,588,664	18,490	40,337	184,178	656,491	24,176	70	15	14,791	5,165	27,740	16,004	45,159	7,161,563	2,193,948	
Cork partitions, cork, cork stoppers, cork gaskets, cork oil, and starch	3,801,679	4,836	56,885	244,529	3,513	51,173	8,570	1,435	79,037	19,629	7,378	6,964	23,068	1,747,248	30,887	
Crossed and allied garments	297,240	4,870	16,393	1,422	1,160,092	11,382	2,124	8,729	875,226	80,886	30,054	22,572	520	3,754,115	166,576	
Cotton goods	84,240	458,122	2,572,647	11,677,111	52,391,848	1,924,400	50,877	8,749	375,226	3,179	3,700	3,584	17,319	2,749,508,685	83,175,665	
Cotton small wares	6,493	41,966	45,666	287,519	3,445,635	143,816	1,735	257	6,326	3,179	3,700	3,584	16,679	28,353,704	585,346	
Crucibles	1,599	18,000	4,768	19,437	3,313,943	17,829	1,735	257	28,773	13,463	---	---	1	475,774	14,235	
Cutlery (not including silver and edge tools)	2,365	27,860	69,286	295,160	2,394,066	121,007	27,742	4,772	244,050	65,934	55,910	47,471	12,818	29,542,852	646,019	
Dairymen's supplies; creamery, cheese-factory, and butter-factory equipment; and poultrymen's and apiculturists' supplies	467,781	3,113	36,437	172,985	13,162	19,663	11,371	2,333	5,998	3,084	30,141	30,309	8,975	6,562,299	197,811	
Dental goods and equipment	279,219	6,397	11,495	60,616	4,941	25,298	159,433	21,042	26,930	15,327	13,048	11,783	32,717	3,712,369	101,098	
Doors, shutters, and window sash and frames, metal	3,037	17,647	17,409	78,702,700	9,206	92,418	15,675	2,717	28,105	12,075	91,695	39,627	25,007	16,968,375	372,675	
Druggists' preparations	11,051	77,219	73,703	343,309	1,713	674,984	44,896	31,001	4,981	8,178	21,394	19,210	25,007	9,141,769	264,810	
Drug grinding	24,375	92,747	5,919	26,536	3,025	209	55	8	12,931	8,178	600	600	461	1,734,145	33,470	
Dyeing and finishing textiles	174,051	92,747	5,919	26,536	3,025	209	55	8	12,931	8,178	600	600	461	1,734,145	33,470	
Dyes	476,431	136,748	1,400,206	6,914,790	27,362	116,483,601	958,852	141,969	64,714	25,496	614,391	507,806	351,236	130,655,550	2,682,011	
Electrical machinery, apparatus, and supplies	99,870	502,194	1,545,869	5,905,063	313,048	30,432,244	569,000	80,522	659,874	862,548	2,833,256	2,008,643	722,066	889,239,302	11,776,085	
Electroplating	2,650	21,815	16,422	90,362	709,733	41,859	78,851	8,228	83,071	33,243	50,673	40,123	12,242	18,315,262	692,794	
Embroideries	2,565	32,401	1,636	11,872	2,416	315,946	9,379	813	4,511	1,972	4,711	4,443	2,972	2,721,759	156,470	
Emery wheels and other abrasive and polishing appliances	9,895	81,234	49,878	289,068	28,468	1,867,055	7,200	1,739	4,762	2,881	36,490	32,863	608	16,088,709	266,118	
Engines, turbines, tractors, and water wheels	2,128	16,839	422,690	1,735,173	1,147,664	829,880	4,929,449	524,563	1,985,855	311,635	730,773	421,813	170	207,477,807	2,477,329	
Engravers' materials	48,904	64	483	2,784	2,540	---	---	---	184	34	1,050	1,152	---	1,120,119	41,861	
Engraving (other than steel, copperplate, or wood), chasing, etching, and die-sinking	119,176	11,546	528	4,170	112	7,356	3,955	433	414	283	18,775	14,208	4,382	1,981,792	76,737	
Engraving, steel and copperplate, and plate printing	340,483	10,544	6,210	45,978	397	16,287	20,735	2,863	12,499	2,130	13,195	9,085	3,885	6,373,496	249,304	
Engraving, wood	3,072	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Envelopes	1,943	14,325	22,360	121,662	602	10,770	300	60	6,906	3,121	12,744	6,734	1,421	9,488,111	276,064	
Excelsior	117,491	30	370	19,638	---	---	---	---	---	---	---	---	---	3,978,390	86,369	
Explosives	1,797,617	142,770	174,244	668,739	1,129	16,599,133	500	2,100	46,251	10,922	---	---	567	38,002,735	533,761	
Explosives and miscellaneous articles not elsewhere classified	688,488	28,425	19,896	123,415	460	16,500	15,841	2,672	7,897	3,533	38,156	38,828	6,345	10,512,694	418,310	
Feathers, plumes, and manufactures thereof	6,727	---	177	885	---	228	---	---	931	790	315	296	---	75,472	4,527	
Feeds prepared for animals and fowls	2,515	19,562	128,502	484,045	2,106	146,297	81,695	13,872	55,028	24,989	35,675	27,824	6,828	115,998,089	2,202,072	
Felt goods, wool, hair, or jute	2,775	18,711	94,837	452,584	51	70,220	23,006	4,035	25,583	4,683	746	895	---	13,973,517	287,737	
Fertilizers	2,781,137	40,604	124,397	577,241	995	217,012	88,064	16,629	168,592	33,990	1,145	1,145	---	97,862,565	1,887,249	
Films	441,070	9,276	23,800	98,104	263	177,367	1,500	27	11,033	6,588	16,711	16,661	---	6,463,940	131,244	

FUEL AND ELECTRIC ENERGY CONSUMED

Pneumatics.....	8, 503	35, 851	261, 146	220	893, 387	47, 299	15, 725	2, 445	19, 088	17, 756	2, 597	12, 632, 513	227, 683
Fire-extinguishers, chemical	910	5, 373	1, 496	12	60, 133	3, 698	6, 400	70	13, 819	11, 269	130	812, 560	40, 560
Fireworks.....	2, 207	17, 373	41, 786	75	11, 781	5, 834	7, 710	1, 190	1, 833	1, 833	515	1, 106, 969	39, 980
Flags and banners.....	2, 218	2, 683	2, 156	6	67, 191	5, 780	5, 780	38	1, 806	1, 806	515	410, 149	18, 201
Fishing extracts and flavoring extracts.....	13, 532	79, 638	262, 903	4, 531	5, 165, 504	178, 426	18, 036	3, 022	39, 202	36, 522	3, 301	14, 401, 105	314, 805
Rice and hemp, dressed	50	366	42				200					38, 419	2, 167
Flour and other grain-mill products.....	21, 876	89, 261	1, 997, 275	1, 280	14, 836, 259	761, 590	606, 996	89, 358	8, 863	6, 853	29, 428	591, 215, 721	6, 998, 183
Food preparations, not elsewhere classified.....	3, 775	33, 532	511, 981	8, 301	2, 148, 720	84, 451	124, 586	16, 656	307, 768	245, 738	61, 467	19, 238, 105	536, 511
Forgings, iron and steel, not made in plants op- erated in connection with rolling mills.....	7, 960, 034	2, 591	1, 777, 275	9, 371	71, 292, 512	3, 390, 375	69, 315	13, 574	267, 612	248, 402		121, 416, 813	2, 019, 661
Foundry and machine- shop products, not else- where classified.....	60, 555, 544	187, 942	12, 314, 579	1, 497, 329	107, 819, 268	5, 292, 661	4, 060, 422	613, 370	2, 791, 465	1, 712, 552	568, 761	1, 238, 557, 657	24, 562, 949
Foundry supplies.....	208, 963	2, 473	20, 106	764	126, 277	3, 485	6, 660	870	9, 260	7, 610	468	6, 504, 126	158, 492
Fuel: Brickets and bon- nets.....	2, 586, 130	178, 618	2, 094, 725	675	69, 194	3, 647	4, 700	941	10, 480	10, 276	10, 784	12, 788, 492	199, 909
Furnishing goods, men's, not elsewhere classified.....	685, 413	13, 657	12, 654	71	112, 265	9, 127	7, 000	720	10, 852	10, 477	3, 829	10, 372, 714	885, 283
Furniture, including store and office fixtures.....	599, 622	2, 516	50, 152		366, 251	13, 257	7, 000	941	10, 852	10, 477	3, 829	12, 375, 760	467, 041
Furs, dressed.....	10, 894, 364	245, 067	4, 701, 732	10, 092	3, 476, 391	152, 468	338, 146	53, 396	168, 694	172, 354	29, 094	215, 224, 678	5, 345, 692
Galvanizing and other coating, not done in plants operated in con- nection with rolling mills.....	435, 487	5, 553	135, 079	140	31, 080	2, 216	5, 935	591	7, 247	6, 434	102	6, 319, 892	248, 141
Gas and water and other li- quid meters.....	263, 356	50	28, 423	6, 677	478, 156	24, 192	14, 213	2, 132	30, 336	28, 579		2, 454, 356	64, 171
Gas and electric fixtures; lamps, lanterns, and re- flectors.....	1, 707, 228	45, 508	229, 029	1, 899	2, 819, 753	119, 500	42, 787	6, 977	309, 130	205, 001	5, 668	45, 002, 670	1, 039, 388
Gas machines, gas meters, and water and other li- quid meters.....	490, 003	1, 814	48, 659	1, 496	559, 387	25, 168	15, 414	2, 395	82, 025	67, 129		10, 826, 498	233, 358
Glass, manufactured, blum- making and heating.....	130, 993, 094	196, 706	49, 580, 574	1, 445, 030	923, 888, 569	38, 834, 021	410, 898	53, 409	91, 985, 663	95, 024, 161	57, 708	282, 464, 292	3, 504, 379
Glass products (except mirrors) made from pur- chased glass.....	30, 179, 377	97, 470	483, 684	1, 585	57, 083, 770	2, 423, 752	323, 715	69, 191	1, 634, 921	1, 353, 515	1, 634, 921	502, 312, 691	5, 559, 159
Gloves and mittens, cloth or cloth and leather com- bined, made from pur- chased fabrics.....	177, 751	66	43, 071	49	36, 765	2, 398	3, 898	604	2, 989	1, 782	319	2, 844, 823	126, 927
Gloves and mittens.....	192, 012	18, 594	59, 556	170	137, 122	10, 248	6, 953	843	4, 957	5, 174	467	2, 152, 717	94, 138
Glue and gelatin.....	1, 593, 129	11, 693	1, 191, 497	369	918, 222	24, 639	1, 872	322	8, 597	6, 170	81, 139	6, 337, 626	147, 439
Gold leaf and foil.....	23, 753	640	57	114	30, 771	2, 064	18, 776	12	3, 594	3, 609	1, 163	810, 156	13, 530
Gold, silver, and platinum, reducing and refining, not from the ore.....	245, 355	331	26, 358	1, 988	964, 997	48, 360	30	3	4, 228	2, 455	3, 228	2, 598, 540	72, 777
Graphite, ground and re- fined.....	91, 352	112	33, 837		3, 450	207			20, 590	10, 744	1	1, 799, 127	43, 811
Grease and tallow, not in- cluding lubricating greases.....	2, 083, 967	13, 491	1, 276, 601	1, 527	1, 945, 386	68, 293	174, 071	28, 030	108, 698	21, 312	114, 066	15, 710, 662	450, 739
Haircloth.....	47, 409	1, 145	17, 736		16, 020	801	100	14	3, 650	1, 961		748, 741	21, 647
Hair work.....	8, 656	31	485	7	112, 680	5, 984	740	61	6, 640	6, 992		89, 248	4, 910
Handkerchiefs.....	116, 681	2, 034	12, 740		112, 680	5, 984	740	61	6, 640	6, 992		1, 782, 026	76, 278
Hand stamps and stencils and brands.....	157, 769	253	14, 349	179	114, 435	7, 161	2, 331	378	21, 341	19, 853	6, 046	2, 682, 457	99, 449
Hardware not elsewhere classified.....	3, 863, 014	15, 894	139, 939	16, 663	4, 057, 098	241, 545	122, 973	20, 664	662, 490	311, 400	2, 057	88, 818, 391	1, 718, 295
Hat and cap materials, men's.....	216, 313	6, 926	83, 001	529	16, 000	960			522	600	281	1, 876, 053	75, 015
Hats and caps, except felt and straw, men's.....	173, 153	186	2, 047		13, 600	910	6	1	13, 761	13, 545	1, 064	8, 170, 227	148, 319
Hats, fur-felt.....	994, 652	3, 139	20, 692		6, 718, 730	180, 468	5, 200	836	34, 240	36, 292	544	8, 078, 007	296, 294
Hats, wool-felt.....	106, 455	9, 863	53, 445		17, 415	957			4, 088	3, 813	1, 324	1, 094, 933	46, 627
Hones, whetstones, and similar products.....	153, 197	405	117, 257		1, 700	145			1, 090	761	4, 010	569, 645	26, 879
Horse blankets, fly nets, and related products.....	26, 236		18, 897		10, 000	700			260	259		193, 941	6, 219
House-furnishing goods, not elsewhere classified.....	33, 295	245	1, 759		10, 873	786	1, 140	190	835	957	588	116, 754	5, 875
Ice cream.....	624, 754	2, 172	16, 866	36	221, 919	12, 921	761	147	6, 763	5, 645		11, 574, 663	460, 506
Ice manufactured.....	7, 815, 619	20, 019	222, 698	2, 343	6, 286, 214	293, 061	300, 139	43, 744	75, 830	326, 217	26, 485	236, 918, 809	5, 851, 994
Ice cream, not elsewhere classified.....	26, 557, 229	99, 125	526, 578	7, 805	47, 192, 789	1, 045, 568	369, 540	59, 598	43, 480	38, 716	165, 101	1, 600, 018, 072	5, 665, 710
Ink printing.....	661, 120	3, 376	179, 674	58	1, 300, 044	51, 843	18, 756	2, 858	6, 110	3, 605	84	14, 569, 235	98, 412
Ink, writing.....	33, 726		14, 963									204, 811	11, 228

* See second paragraph of text p. 158.

CENSUS OF MANUFACTURES: 1929

TABLE 3.—CONSUMPTION OF FUEL, BY KIND, QUANTITY, AND OF PURCHASED ELECTRIC ENERGY, BY QUANTITY AND COST, BY INDUSTRIES: 1929—Continued

INDUSTRY	Total cost of fuel and electric energy purchased (dollars)		COAL		CORE		FUEL OILS (including crude oil and gas oils used as fuel)		GASOLINE AND KEROSENE		GAS			OTHER FUELS		PURCHASED ELECTRIC ENERGY	
	Total cost of fuel and electric energy purchased (dollars)	Electric energy purchased (kilowatt-hours)	Anthracite		Bituminous		Tons (2,000 lbs.)	Cost (dollars)	Gallons	Cost (dollars)	M cubic feet	Cost (dollars)	Manufactured		Cost (dollars)	Kilowatt-hours	Cost (dollars)
			Tons (2,240 lbs.)	Cost (dollars)	Tons (2,000 lbs.)	Cost (dollars)							M cubic feet	Cost (dollars)			
Instruments, professional and scientific	918,370		5,565	43,886	41,357	203,940	1,583	466,995	29,964	15,980	16,370	9,765	283,249	156,490	6,470	21,726,275	450,272
Iron and steel: Blast furnaces	103,671,870		9,087	22,741	800,470	2,340,729	187,759,908	335,179	1,202	1,400	37,742	11,140	1,629,770	774,022	1,675,108	79,732,684	751,837
Iron and steel, processed	354,085		68	972	1,766	7,291	11,312	1,662,279	94,738	2,402	141,459	69,286	585,342	78,486	4,142,587	88,484	
Iron and steel: Steel works and rolling mills	208,279,022		493,746	1,418,520	230,632	72,641,889	4,364,775	987,140	150,926	158,247	2,208,16	404,132	915,007	750,42	314,563	3,466,883,998	32,224,582
Ivory, shell, and bone work, not including buttons, combs, or hairpins	25,443				1,455	8,903		8,588	687				167	150		380,656	15,655
Jewelry	867,065		3,712	29,571	8,589	45,502	1,800	1,455,188	71,373	491	8,206	5,024	133,285	125,242	2,074	15,442,404	586,048
Jewelry and instrument cases	78,501		410	4,580	1,702	10,425	385	36,292	2,407	8	680	488	7,393	7,625		1,102,484	51,863
Knife goods	281,882		5,985	22,955	16,965	58,727	3,537	293,870	11,834	1,301	8,038	5,038	90,633	926		9,691,701	151,139
Labels and tags	7,994,752		51,992	292,280	662,949	2,995,414	3,537	6,629,033	323,307	8,367	192,231	45,526	90,633	89,119	5,566	172,940,810	4,228,588
Lace goods	226,822		592	5,104	6,901	31,281	383	160,055	11,686	2,542	6,562	3,038	7,888	7,651		5,630,879	164,983
Lapidary work	396,264		23,269	64,068	40,375	212,824	30	1,051,435	42,856	13	216	70	1,192	1,125	2,469	2,954,472	82,567
Leather goods, not elsewhere classified	20,971		33	435	435	7		3,065	214	7	3,166	362	2,537	3,143		305,212	17,102
Leather, tanned, curried, and finished	186,651		505	5,302	7,012	36,940	26	31,316	2,919	160	2,057	1,848	8,904	10,425	780	2,712,235	128,801
Line goods	6,740,633		32,791	189,233	1,064,283	4,668,048	10,600	4,661,063	133,227	3,714	15,686	8,481	4,791	4,314	35,625	74,186,894	1,682,371
Linoleum	217,269		7,364	40,177	14,384	94,159	343,961	10,289,954	424,213	56,315	419,718	121,237	287,154	195,023	682,036	62,574,070	1,169,883
Liquors, various	1,248,490		108,406	393,129	73,875	383,017	3,613	110,931	6,062	2,000	18,068	7,297	46,111	44,922	8,595	3,896,433	79,509
Lithography	30,650		4,434	32,060	36,100	170,285	8,360	2,422,087	96,031	1,244	25,842	8,213	46,111	44,922		44,080,692	508,974
Machine tools, not made in United States, not made in foreign countries, and accessories	1,065,823		51,272	186,449	174,493	678,773	103,888	8,567,153	411,483	4,093	56,508	30,503	28,433	17,967	5,802	23,262,750	720,816
Machine-tool accessories and small metal-working tools, not elsewhere classified	1,880,743		6,548	30,561	57,725	221,445	3,881	4,663,064	142,784	1,152	27,996	12,032	12,832	5,286	1,209	2,969,326	108,251
Machine tools	598,611		6,573	37,807	577,791	2,438,943	4,527	42,902,024	1,440,144	4,095,328	788,331	19,297	1,883	1,411	517,869	275,580,173	3,287,261
Machinists' shops, not elsewhere classified	8,527,124		14,419	104,070	19,291	101,077	10,645	1,064,332	60,150	2,043	58,961	27,804	33,239	20,193	2,650	27,727,541	679,884
Macaroni, spaghetti, vermicelli, and noodles	1,008,216																
Machinery, electrical, and other stone products	2,185,193		7,607	53,051	55,565	255,867	15,140	1,858,519	127,802	15,528	169,374	52,009	263,730	199,417	15,608	64,935,592	1,450,796
Mats and matting, grass and cork	3,385,377		11,839	46,945	187,464	858,538	25,229	3,290,839	186,146	18,947	131,650	66,666	179,166	119,068	15,491	92,003,374	1,834,656
Mats and matting, grass and cork	839,914		19,867	143,848	76,957	325,507	29,585	51,810	1,745	18,947	15,027	4,175	112,128	101,353		11,933,480	158,300
Mats and matting, grass and cork	5,089,825		10,617	81,337	170,825	804,391	1,601	1,232,485	70,719	45,455	34,074	12,761	15,051	12,080	3,496	151,906,038	4,040,001
Mats and matting, grass and cork	384,987		2,178	10,252	59,165	213,618		74,063	4,165				220	180		8,556,936	166,772
Mattresses and bed springs, not elsewhere classified	28,425		27	192	3,531	20,937		2,137	149		30	15				155,581	7,132
Mattresses and bed springs, not elsewhere classified	1,169,911		1,793	19,483	78,008	307,864	748	3,713,626	104,297	8,707	52,738	17,527	39,457	31,407	1,009	21,514,213	678,869
Meat packing, wholesale	20,149,248		147,792	729,982	2,945,372	10,210,936	256,197	24,608,371	657,625	12,369	8,769,688	1,394,429	515,169	374,596	299,585	475,382,995	6,207,529
Millinery	1,087,992		3,469	24,874	15,501	89,097	888	383,706	21,648	1,626	88,579	18,070	112,128	101,353	2,222	17,913,802	6,828,264
Minerals or earths, ground or otherwise treated	1,119,116		43,132	114,436	23,349	91,761	134	2,235,722	108,882	134	170,272	36,296	4,639	3,137	637	74,219,548	750,981
Mirror and picture frames	226,209		1,584	15,339	9,326	48,963	2,017	26,453	1,787	713	1,124	560	3,484	3,302		3,822,732	153,528
Mirrors, framed and unframed	362,482		3,522	28,694	17,295	82,313	1,185	249,664	11,370	542	41,575	15,826	21,167	19,621	766	5,402,779	202,165
Models and patterns, not including paper patterns	371,049		789	9,622	5,348	33,797	1,011	186,295	12,364	2,829	21,401	10,973	14,578	13,473	3,583	6,405,785	273,377
Motion pictures, not including projection theaters	762,657		368	7,290	5,158	33,991	327	676,770	32,092	39,111	89,506	30,283	2,174	1,649	2,229	32,589,180	607,685
Motor-vehicle bodies and motor-vehicle parts	19,803,613		21,176	105,455	1,184,796	4,690,480	116,746	47,869,811	2,385,002	1,057,804	1,018,633	640,884	1,447,830	896,533	55,722	731,557,632	10,585,990
Motor vehicles, not including motorcycles	22,013,674		1,578	12,090	1,705,292	6,333,189	555,095	49,103,457	2,048,114	9,604,725	1,808,191	1,472,682	2,387,529	1,593,471	108,630	621,996,318	9,285,462

FUEL AND ELECTRIC ENERGY CONSUMED

Motorcycles, bicycles, and parts.	344, 120	125	1, 466	19, 884	96, 246	40	339	431, 087	22, 329	64, 570	7, 206	5, 664	3, 429	58, 278	37, 155	9, 815, 740	175, 950
Mudage, paste, and other adhesives, except glue and rubber cement.	87, 672	587	4, 177	8, 972	38, 543	30	270	6, 220	430	855	129	429	228	7, 834	6, 027	1, 833	36, 585
Musical instrument parts and materials: Piano and organ.	302, 750	2, 226	15, 854	24, 412	144, 481	1, 820	17, 310	612, 822	21, 245	2, 713	527	6, 662	4, 041	4, 220	4, 230	5, 601	89, 461
Musical instruments and parts and materials, not elsewhere classified.	210, 438	809	5, 587	10, 505	55, 606	353	2, 949	40, 923	4, 142	2, 455	375	2, 049	2, 062	14, 602	13, 470	6, 775	110, 479
Musical instruments: Organs.	103, 573	860	3, 672	5, 622	33, 770	53	532	203, 189	7, 402	7, 185	1, 425	4, 844	2, 779	7, 226	6, 866	1, 286	45, 841
Pianos.	694, 645	8, 058	62, 662	96, 271	405, 543	722	6, 466	24, 900	1, 845	4, 744	906			9, 375	10, 779	7, 400, 953	186, 462
Nails, spikes, etc., not made in wire mills or in plants operated in connection with rolling mills.	294, 042	196	2, 502	13, 741	65, 354	82	762	630, 948	24, 955	15, 560	2, 118	15, 842	8, 066	2, 302	2, 087	13, 268	174, 940
Needles, pins, hooks and eyes, and snap fasteners.	252, 619	212	1, 957	17, 998	108, 370	8	45	132, 972	7, 952	27, 625	4, 025	4, 007	2, 429	12, 901	8, 938	4, 259, 317	118, 556
Nets and seines.	36, 309	103	3, 497	3, 497	18, 309			3, 848	275	515	112			2, 206	183	489, 684	17, 048
Nonferrous-metal alloys and products, not including aluminum products.	17, 541, 631	75, 192	715, 259	660, 217	3, 153, 829	66, 293	571, 752	71, 176, 650	3, 885, 337	950, 542	131, 123	2, 509, 820	797, 760	1, 111, 121	785, 159	554, 437, 739	7, 354, 696
Oil, cake, and meal, cottonseed.	5, 567, 626	3, 249	14, 298	536, 013	1, 993, 689			12, 920, 817	384, 434	21, 227	1, 541	4, 098, 220	705, 960	27, 315	27, 315	191, 829, 310	2, 440, 358
Oil, cake, and meal, linseed.	991, 094			31, 757	347, 807	1, 350	6, 481	5, 524, 494	146, 675				6, 578			42, 755, 457	4, 463, 553
Oils, essential.	85, 330	4, 435	13, 220	5, 921	28, 905			1, 122, 000	4, 435				19, 821	40	1, 050	788, 891	13, 859
Oils, not elsewhere classified.	582, 490	554	2, 367	31, 854	177, 053	4	54	4, 679, 592	149, 773	7, 795	1, 185	41, 219	9, 140	3, 407	2, 871	14, 418, 311	214, 005
Oleioleth.	276, 097	11, 809	52, 930	36, 732	165, 376			150, 617	8, 881						926	2, 614, 787	47, 984
Oleomargarine, not made in meat-packing establishments.	330, 145	8, 728	29, 044	37, 331	123, 320	202	1, 812	1, 483, 179	39, 755	5, 500	1, 300	10, 871	5, 539	1, 855	1, 851	5, 060, 529	118, 003
Optical goods.	617, 788	618	5, 703	7, 341	38, 234	44	461	2, 104, 763	71, 335	1, 279	205	2, 838	1, 638	268, 633	262, 036	6, 756, 304	236, 817
Paints and varnishes.	6, 860, 268	82, 582	455, 949	538, 993	2, 255, 467	47, 841	299, 690	16, 313, 175	690, 979	115, 984	17, 096	344, 010	127, 323	334, 224	202, 507	7, 951	149, 610, 040
Paper.	64, 526, 517	865, 997	3, 660, 491	7, 985, 109	33, 389, 478	1, 290	6, 447	108, 704, 808	3, 824, 469	52, 724	8, 737	7, 563, 274	674, 567	9, 315	7, 180	1, 124, 469	2, 826, 016, 927
Paper goods, not elsewhere classified.	1, 831, 575	19, 870	92, 652	116, 215	583, 294	32	408	2, 944, 744	112, 410	27, 636	4, 003	203, 638	67, 266	47, 687	27, 538	40, 884, 528	979, 038
Patent or proprietary medicines and compounds.	1, 536, 402	27, 081	170, 806	108, 796	496, 029	996	9, 133	3, 721, 249	168, 827	284, 369	31, 625	32, 441	22, 682	36, 027	31, 964	20, 276, 155	565, 389
Printing materials: Asphalte, fat, crushed slag, and mixtures.	836, 046	2, 689	19, 759	93, 625	339, 697	230	1, 438	3, 299, 652	117, 314	114, 784	20, 147	14, 726	4, 513	1, 311	1, 315	12, 369, 283	286, 633
Peanuts, walnuts, and other nuts, processed or shelled.	212, 412	608	3, 822	8, 153	44, 040	65	907	78, 046	3, 566	4, 340	895	17, 098	5, 884	8, 439	8, 103	4, 796, 771	133, 310
Pencils, lead (including mechanical).	367, 546	9, 075	56, 317	15, 937	95, 738	425	4, 103	127, 495	8, 050			16, 537	5, 930	53, 834	47, 349	6, 632, 946	150, 059
Pens, fountain and stylographic; pen points, gold, steel, and brass.	151, 782	116	1, 398	4, 853	27, 551	28	373	259, 644	10, 795	100	20	3, 970	2, 387	7, 678	7, 601	3, 728, 667	101, 657
Perfumes, cosmetics, and other toilet preparations.	581, 277	11, 948	66, 892	22, 073	135, 235	308	2, 051	837, 250	40, 370	4, 513	716	9, 559	4, 892	46, 404	36, 019	6, 454, 173	280, 747
Petroleum refining.	92, 067, 568	190, 754	785, 087	2, 897, 450	7, 087, 224			2, 164, 118, 959	42, 397, 062			118, 652, 292	15, 728, 689	88, 318, 120	18, 000, 300	660, 625, 238	6, 698, 159
Photographs.	738, 441	11, 023	35, 826	98, 786	432, 027	575	5, 060	528, 211	14, 040	1, 525	243	85	39	60, 193	52, 533	10, 753, 764	196, 064
Photo-engraving, not done in printing establishments.	839, 223	2, 032	24, 430	2, 867	15, 417	6	70	437, 450	23, 099	3, 544	688	73, 956	19, 189	78, 997	63, 368	15, 969, 534	740, 165
Photographic apparatus and materials.	1, 313, 206	421	5, 695	199, 375	748, 522	1, 042	9, 370	183, 225	12, 079	6, 500	1, 476	6, 120	3, 520	44, 546	29, 102	34, 833, 145	501, 965
Pipes (cobacco).	69, 384	1, 025	6, 446	2, 062	10, 925	69	992	2, 700	167	310	63			10	150	1, 943, 582	50, 632
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.	6, 881, 902	16, 059	106, 372	404, 091	1, 731, 352	1, 585	6, 503	2, 113, 601	78, 282	190, 408	32, 204	84, 942	35, 333	29, 413	17, 380	165, 725, 668	4, 834, 164
Plated ware.	793, 636	3, 596	23, 962	51, 341	281, 406	66	672	840, 200	43, 212	23, 318	3, 328	4, 178	2, 559	64, 866	64, 622	11, 993	18, 588, 584
Plumbers' supplies, not including pipe or vitreous-china sanitary ware.	4, 321, 353	2, 285	28, 098	182, 051	695, 514	75, 130	613, 272	13, 031, 582	604, 626	96, 406	17, 081	1, 464, 890	678, 671	90, 760	66, 586	131, 735, 853	1, 613, 004
Pocketbooks, purses, and cardcases.	170, 633	857	7, 177	1, 598	10, 980	27	256	48, 008	3, 515	12, 383	972	5, 123	2, 291	3, 135	2, 937	2, 711, 656	142, 085
Pottery, including porcelain ware.	7, 338, 334	20, 064	110, 171	626, 262	2, 522, 133	600	4, 281	18, 944, 132	928, 505	78, 667	12, 221	6, 606, 580	2, 585, 062	216, 542	114, 942	42, 663, 034	980, 137
Poultry killing, dressing, and packing, wholesale.	690, 495	2, 704	14, 536	31, 494	169, 118	84	598	635, 504	27, 107	51, 427	7, 818	86, 480	24, 962	10, 890	9, 807	15, 766, 240	433, 353
Printing and publishing, book and job.	9, 126, 392	29, 753	250, 769	150, 834	796, 588	3, 722	25, 474	4, 431, 427	273, 258	263, 565	42, 252	408, 379	179, 651	430, 212	300, 572	272, 411, 763	6, 938, 191
Printing and publishing, music.	38, 686	12	200	694	3, 609	8	113	17, 648	1, 206	165	37	396	245	59	67	816, 564	33, 209

* The figures for "Purchased electric energy" for "Paper" include those for "Pulp (wood and other fiber)."

* See second paragraph of text, p. 158.

CENSUS OF MANUFACTURES: 1929

TABLE 3.—CONSUMPTION OF FUEL, BY KIND, QUANTITY AND COST, AND OF PURCHASED ELECTRIC ENERGY, BY QUANTITY AND COST, BY INDUSTRIES: 1929—Continued

INDUSTRY	Total cost of fuel and purchased electric energy (dollars)	COAL				CORE		FUEL OILS (including crude oil and gas oils used as fuel)		GASOLINE AND KEROSENE		GAS				OTHER FUELS		PURCHASED ELECTRIC ENERGY Kilowatt-hours	Cost (dollars)
		Anthracite		Bituminous		Tons (2,000 lbs.)	Cost (dollars)	Gallons	Cost (dollars)	Gallons	Cost (dollars)	Natural		Manufactured		Cost (dollars)			
		Tons (2,240 lbs.)	Cost (dollars)	Tons (2,000 lbs.)	Cost (dollars)							M. cubic feet	Cost (dollars)	M. cubic feet	Cost (dollars)				
Printing and publishing, newspaper and periodical	12,128,860	49,836	394,560	166,780	997,361	1,954	18,695	8,483,738	469,710	152,071	23,854	1,055,727	450,199	1,258,078	1,106,456	424,685	328,883,620	8,243,330	
Printing materials, not including type or ink	121,592	1,552	12,939	3,319	22,322	20	210	216,000	12,323	1,565	314	3,096	1,833	5,201	3,568	1,994	1,739,438	66,989	
Pulp goods	635,201	20,330	76,586	64,487	300,658			2,619,961	96,813	1,588	300			2,879	2,928	29	9,978,288	157,624	
Pulp (wood and other fiber)	10,740,084	269,831	1,348,944	1,826,413	7,475,143			21,540,600	926,995	12,708	1,995	4,484,245	310,549			676,468	(*)	(*)	
Pumps (hand and power) and pumping equipment	2,169,102	13,935	68,977	121,857	517,702	28,399	281,731	4,120,085	213,835	370,851	42,356	323,693	83,073	44,556	34,248	6,256	45,049,569	920,834	
Rayon and allied products	4,319,040	8,300	36,935	766,688	2,720,746			2,694,473	97,047	107,610	14,469	753	479	315	344	3,140	152,364,940	1,445,880	
Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment	829,814	2,956	16,610	68,900	340,581	31	442	1,543,136	92,254	15,945	3,137	40,847	10,428	5,896	6,212	756	12,739,414	359,394	
Refrigerators, mechanical	1,482,470	2,333	8,370	52,520	154,109	1,807	10,024	2,471,918	137,064	125,821	12,277	112,481	59,847	78,499	66,424	3,296	94,801,563	1,031,039	
Regalia, badges, and emblems	62,779	114	1,495	4,428	21,971	14	178	21,476	1,300	4,114	497	1,970	1,130	6,048	5,886	1,017	707,778	29,605	
Rice cleaning and polishing	222,245	92	496	4,554	22,302	30	196	876,641	33,394	500	75	23,743	4,736	25	23	35,267	6,525,615	125,756	
Roofing, built-up and roll; asphalt shingles; roof coatings other than paints	2,019,236	17,895	107,708	181,408	635,967	3,010	16,887	20,055,153	689,177			122,131	30,928	16,878	14,277	1,606	37,724,523	522,686	
Rubber goods other than tires, inner tubes, and boots and shoes	7,859,569	79,337	346,773	584,608	2,536,024	472	2,656	12,814,195	345,070	74,153	11,763	93,191	26,558	31,368	31,801	906	321,774,595	4,558,018	
Rubber tires and inner tubes	10,323,913	1,120	8,478	5,298,807	25,298,807	42	345	1,627,609	39,340	98,566	18,237	1,203,368	140,501	784	784	2,959	491,615,432	4,826,244	
Saddlery and harness	138,465	3,171	21,386	34,082	111,766	200	1,688	20,432	2,063	9,932	3,567	10,880	3,667	1,622	1,394	1,360	2,270,420	83,700	
Sails and vaults	217,414	264	3,171	21,386	78,149	2,346	16,907	92,553	4,270	6,260	1,131	2,342	2,153	894	1,360	6,635,136	124,588		
Salt	3,183,961	76,097	274,607	1,880,874	621,904	2,346	16,907	7,064,159	230,960	57,032	8,516	1,975,093	445,780			2,700	15,353,687	324,317	
Sand-lime brick	236,885			23,159	137,096			113,995	5,571	5,760	804						2,836,253	90,354	
Sandpaper, emery paper, and other abrasive paper and cloth	222,684	674	3,633	30,329	140,737									7,726	6,979		5,016,351	71,335	
Sausage, meat puddings, headcheese, etc., and made in meat-packing establishments	1,140,311	8,080	73,410	27,850	167,014	1,147	11,441	822,953	52,898	214,785	34,706	121,624	22,636	186,116	124,217	20,573	22,237,377	624,416	
Saws	595,588	5,257	25,275	28,207	111,766	669	3,019	1,373,446	69,179	30,990	6,072	17,953	9,176	118,064	116,141	239	10,942,203	253,721	
Scales and balances	347,235	805	8,226	14,885	81,348	3,879	41,147	190,039	11,784	36,715	6,273	5,989	3,723	20,002	19,414	2,568	7,738,331	172,402	
Screw-machine products and wood screws	2,024,809	1,473	15,954	68,671	320,900	247	2,510	2,665,619	180,536	82,153	12,351	80,785	45,055	69,274	59,952	1,468	71,940,685	1,386,083	
Sewing machines and attachments	602,577	44,469	177,258	30,616	123,912	35	271	1,630,765	51,655	6,802	1,166	13,260	9,257	20,181	18,885	277	13,855,508	220,196	
Ship and boat building, steel and wooden, including repair work	4,104,407	10,977	71,566	206,744	863,943	10,338	84,672	13,233,906	508,257	623,643	98,253	67,962	14,714	357,813	188,812	52,451	117,733,059	2,221,729	
Shirts	1,076,221	12,926	84,380	42,780	203,828	286	2,042	3,353,010	18,713	6,451	1,529	15,643	7,646	41,888	42,433	4,422	16,565,901	711,218	
Shortenings (not including lard) and vegetable cooking oils	1,420,770	186	1,127	156,250	538,572	4,789	18,977	6,555,076	162,198			687,987	118,803	2,044	1,962		48,334,845	579,131	
Signs and advertising	1,212,329	3,690	37,265	47,802	226,788	6,383	33,462	3,173,228	147,289	93,819	12,668	167,645	85,634	74,356	62,943	1,033	19,793,630	605,247	
Slit and rayon manufactures	8,496,559	194,558	796,637	235,451	1,222,841	22,804	6,782	8,534,956	326,144	78,467	13,756	26,137	18,416	25,751	23,435	34	280,456,407	6,088,514	
Sliversmithing and silverware	259,054	799	5,529	11,951	71,373	53	536	1,260,470	47,810	4,618	706	3,329	377	37,902	37,621	2,310	2,895,667	92,742	
Smelting and refining, copper	14,737,115	53,806	248,782	958,274	4,358,482	165,173	1,602,180	133,379,956	5,547,349	29,414	4,157	698,581	124,479	5,873	6,490	153,469	503,950,375	2,691,638	
Smelting and refining, lead	4,683,414	1,911	6,314	173,555	638,352	304,059	2,671,669	9,697,540	356,022	4,290	1,109	398,858	84,028	39,629	23,172	11,947	101,859,850	890,611	
Smelting and refining, metals other than gold, silver, or platinum, not from the ore	1,752,399	20,225	163,047	85,551	268,422	37,495	236,793	13,542,366	538,553	32,495	5,287	292,366	99,037	92,908	57,267	10,217	27,785,651	378,776	

FUEL AND ELECTRIC ENERGY CONSUMED

Smelting and refining, zinc.....	10,600,916	558,747	2,710,588	90,628	391,680	6,129,619	8,738	1,459	17,218,570	2,142,808	3,413	2,452	600,589,169	2,586,724
Soap.....	3,529,218	124,597	464,590	6,153	21,978	3,753,572	18,014	3,084	178,233	28,607	9,482	8,916	50,588,452	766,728
Soda-water apparatus.....	184,477		6,232	11,835	370	69,892	600	1,102	4,507	3,609	24,175	20,017	43,237	100,877
Sporting and athletic goods, not including fire-arms or ammunition.....	672,613	4,466	28,641	8	105	541,092	62,106	13,005	13,094	7,068	43,300	43,580	14,984,800	367,401
Springs, steel, except wire, not made in plants operated in connection with rolling mills.....	1,470,585	952	9,022	3,445	13,115	9,812,032	28,525	4,353	884,081	362,977	117,901	114,762	23,564,847	390,235
Stamped ware, enamelled ware, and metal stamping, enameling, japanning, and lacquering.....	4,566,002	23,377	151,289	5,860	52,266	16,810,061	298,088	44,449	605,288	244,871	629,579	425,251	74,966	97,709,556
Stationery goods, not elsewhere classified.....	517,143	2,160	16,342	51	481	1,051,852	6,995	1,163	39,755	11,510	11,188	10,754	4,644	9,115,647
Stationary goods, not elsewhere classified.....	89,296	996	12,301	346	3,574	45,761	875	153	5,822	4,442	7,484	7,552	10	882,049
Steam and other packing, pipe and boiler covering, and gaskets, not elsewhere classified.....	1,461,906	15,646	88,023	25,980	210,132	3,194,771	105	12	28,118	10,330	30,151	23,117	749	40,342,245
Steam fittings and steam apparatus.....	5,460,883	10,230	116,720	179,514	1,583,906	7,961,775	360,264	43,517	573,126	253,316	639,782	286,898	10,789	132,113,614
Stoves and ranges (other than electric) and warm-air furnaces.....	440,135	2,700	9,956	365	3,121	1,026,093	10,539	1,852	82,859	11,751	43,319	27,204		10,329,503
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	868,510	2,789	17,908	136	856	236,977	19,761	2,363	104,401	40,358	135,439	101,865	15,267	15,505,099
Stoves and ranges (other than electric) and warm-air furnaces.....	5,018,868	17,008	87,121	104,084	897,755	8,556,832	304,134	54,067	484,803	176,331	729,792	464,471	71,924	102,716,096
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	4,761,609	17,013	102,120	33,201	269,672	7,657,241	411,733	127,618	1,825,304	298,500	1,065,122	84,919	67,663	133,332,803
Sugar, beet, not including products of refineries.....	4,573,825	369	4,053	44,208	511,650	18,220,327	430,704	3,579	991,439	149,918	36	16		5,246,818
Sugar, cane, not including products of refineries.....	784,979	960	5,117			23,781,978	33,500	5,591	208,965	34,811			1,000	272,449
Sugar refining, cane.....	6,778,926	444,400	6,067,767			60,438,117	3,233	454	6,987,094	1,121,981				11,617,050
Surgical and orthopedic appliances, including artificial limbs.....	524,748	2,933	18,324	40	412	2,494,463	19,864	3,186	2,140	1,180	11,728	10,921	2,580	15,468,022
Suspenders, garters, and other elastic woven goods, made from purchased webbing.....	85,748	277	4,028			95,220	490	49	12	9	464	569	1,768	1,417,539
Tanning materials, natural dyes, mordants, and assistants, and sizes.....	792,170	6,279	32,621	110	1,110	768,643	36,727	9,880	79,087	1,363	14,383	9,277	8,087	5,411,301
Textile machinery and parts.....	1,730,307	7,457	49,164	13,014	127,947	1,675,804	84,282	18,096	594	346	41,969	46,468	1,828	45,625,862
Theatrical scenery and stage equipment.....	28,789	69	980	30	378	12,576	50,444	7,250	800	659	2,818	2,661		329,341
Tin and other foils, not including gold foil.....	277,341	1,200	4,220	702	5,641	62,645	3,405							12,550,750
Tin cans and other tinware, not elsewhere classified.....	2,475,149	8,153	46,020	757	5,187	3,247,371	95,415	16,504	303,667	112,345	1,097,493	684,461	37,979	56,045,223
Tobacco: Cheewing and smoking, and snuff.....	498,368	6,179	26,435	173	1,519	4,157	8,818	1,721	2,752	1,219	1,615	2,024	2,240	3,989,966
Tools, not including edge tools, machine tools, files, or saws.....	2,531,676	9,403	59,017	4,711	40,622	12,379,497	676,739	83,005	13,232	134,774	165,552	160,060	134	49,058,154
Toys (not including children's wheel goods or sleds), games, and playground equipment.....	841,387	3,181	26,226	2,669	23,268	288,806	17,970	33,341	91,128	36,611	69,079	72,140	8,045	15,782,648
Trimmings (not made in textile mills) and stamped art goods for embroidering.....	357,750	177	2,354	28	261	87,490	6,808		60,840	13,428	52,461	52,854		4,304,967
Trunks, suitcases, and bags.....	389,983	2,008	17,882	23	1,403	84,623	4,640	2,188	11,065	6,328	27,399	26,320		5,450,605
Turpentine and rosin.....	251,493					326,295	20,728	65,545					187,534	8,960
Type founding.....	49,145	3,274	17,429	560	5,826	486,016	26,483	29	306	192	28,183	23,833		168,097
Typewriters and parts.....	531,140	9,948	41,028	560	5,826	172,072	27,556	4,463	717	619	57,066	45,039		14,829,244
Umbrellas, parasols, and canes.....	134,937	1,512	12,884	417	3,969	317,969	11,456	1,952	1,539	959	3,612	3,745		1,253,610
Upjohning materials, not elsewhere classified.....	136,520	100	484			23,725	21,282	3,698	70	50	6,304	2,582	1,187	1,707,793

* The figures for "Purchased electric energy" for "Paper" include those for "Pulp (wood and other fiber)."

TABLE 3.—CONSUMPTION OF FUEL, BY KIND, QUANTITY, AND COST, AND OF PURCHASED ELECTRIC ENERGY, BY QUANTITY AND COST, BY INDUSTRIES: 1929—Continued

INDUSTRY	Total cost of fuel and electric energy purchased (dollars)		COAL				COKE		FUEL OILS (including crude oil and gas oils used as fuel)		GASOLINE AND KEROSENE		GAS				OTHER FUELS		PURCHASED ELECTRIC ENERGY	
	Tons (2,240 lbs.)	Cost (dollars)	Anthracite		Bituminous		Tons (2,000 lbs.)	Cost (dollars)	Gallons	Cost (dollars)	Gallons	Cost (dollars)	M cubic feet	Cost (dollars)	Manufactured		Cost (dollars)	Kilowatt-hours	Cost (dollars)	
			Tons (2,240 lbs.)	Cost (dollars)	Tons (2,000 lbs.)	Cost (dollars)									M cubic feet	Cost (dollars)				
Vinegar and cider.....	1,194	12,927	18,169	70,195	1,917	11,505	401,105	13,641	9,225	1,410	3,262	1,210	430	224	2,462,741	88,765	5,008,129	141,800		
Wall paper.....	4,133	21,698	62,827	286,206	2,738	32,705	1,096,316	38,467	4,085	6,005	284,977	7,738	855	620	17,792,620	366,842	11,263,167	299,607		
Insulating board, and floor composition.....	8,377	44,085	322,138	1,946,511	11,235	93,911	21,375,534	630,492	54,655	7,979	1,776,460	284,991	6,779	4,226	157,912,188	2,044,161	69,009			
Washing machines, wringers, driers, and ironing machines, for household use.....	77	1,040	45,238	174,028	2,738	32,705	646,392	46,250	284,977	28,981	16,423	7,738	25,425	28,942	1,580,600	51,369	1,855,421	44,377		
Watches and watch movements.....	3,225	23,245	27,359	164,367	30	347	152,634	8,090	3,500	5,539	14,770	5,539	1,714	1,388	1,855,421	44,377	35,453	1,669		
Waste.....	41	653	130	1,200	200	1,926	26,678	2,271	90	17	10,257	3,464	519	1,065	154,059	7,552	1,580,600	51,369		
Watch and clock materials and parts, except watches.....	10,965	40,716	14,921	81,188	4,117	36,156	91,667	5,125	14,562	1,440	10,257	3,464	15,497	15,169	998,931	23,437	1,855,421	44,377		
Watches.....	105	305	32,791	147,747	200	1,926	4,475	233	4,475	233	12	9	33,787	24,734	998,931	23,437	1,855,421	44,377		
Whips.....	40	236	125	368	4,117	36,156	111,182	4,459	2,175	343	180	77	2,518	2,798	998,931	23,437	1,855,421	44,377		
Windmills and windmill towers.....	10	101	10,942	45,064	4,117	36,156	111,182	4,459	2,175	343	180	77	2,518	2,798	998,931	23,437	1,855,421	44,377		
Window and door screens and weatherstrip.....	353	5,100	12,220	65,907	15	75	32,682	2,176	59,355	9,300	21,405	9,347	1,439	1,651	3,508,685	130,308	4,395	3,160,701		
Window shades and fixtures.....	718	7,050	35,006	147,948	37	462	155,917	8,566	4,040	780	3,375	2,390	4,085	3,424	3,160,701	113,553	4,395	3,160,701		
Wire, drawn from purchased bars or rods.....	22,354	92,787	328,341	1,344,166	6,917	52,776	11,032,505	527,842	85,993	12,668	311,580	135,012	943,730	554,881	202,082,502	2,634,998	131,111	202,082,502		
Wire, drawn from purchased bars or rods, not elsewhere classified.....	4,965	36,604	89,946	391,032	1,816	10,735	2,059,663	106,849	120,575	18,704	62,855	23,668	596,506	190,174	58,253,835	1,061,049	26,809	58,253,835		
Wood and wood manufacture.....	5,260	26,692	292,249	1,087,201	119	1,097	2,993,542	102,116	8,700	1,365	523,348	119,652	268	214	16,990,591	217,823	252,386	16,990,591		
Wood preservative.....	4,936	26,111	382,174	1,311,610	2,816	5,387	10,298,698	269,272	49,940	7,129	1,533,622	221,770	110,684	21,752	14,867,418	322,567	40,668	14,867,418		
Wood turned and shaped and other wooden goods, not elsewhere classified.....	2,332	18,346	54,458	235,231	166	628	220,246	16,473	31,088	5,205	14,068	4,620	5,371	4,393	21,335,305	589,454	13,728	21,335,305		
Woolen goods.....	48,161	262,813	650,411	3,549,648	1,097	1,097	9,599,848	356,740	13,226	2,229	23,174	8,088	9,371	8,088	92,599,317	1,893,985	34,854	92,599,317		
Wool pulling.....	3,399	1,272	9,417	46,094	91	428	91,428	2,809	13,226	2,229	23,174	8,088	9,371	8,088	1,345,625	35,212	7,035	1,345,625		
Wool scouring.....	3,567	25,106	35,837	183,896	4,437	502	145,232	7,783	4,437	502	14,068	4,620	5,371	4,393	3,723,182	71,074	7,035	3,723,182		
Wool shoddy.....	4,659	29,466	33,851	173,763	516	2,380	18,006	1,386	1,386	1,386	1,386	1,386	2,169	2,034	7,905,049	205,544	6,661	7,905,049		
Wrought goods.....	71,914	297,786	789,813	3,787,571	516	2,380	52,460,878	1,661,415	9,489	1,526	15,404	4,644	2,169	2,034	118,308,357	2,320,478	6,470	118,308,357		
Wrought pipe, welded and heavy riveted, not made in plants operated in connection with rolling mills.....	29,111	111,738	337,537	1,070,835	4,330	23,274	4,075,707	183,612	52,612	6,951	474,106	157,862	323,675	302,535	62,026,262	719,544	5,627	62,026,262		

CENSUS OF MANUFACTURES: 1929

TABLE 4.—CONSUMPTION OF FUEL, BY KIND, QUANTITY, AND COST, AND OF PURCHASED

DIVISION AND STATE	Total cost of fuel and purchased electric energy (dollars)	COAL				COKE	
		Anthracite		Bituminous		Tons (2,000 pounds)	Cost (dollars)
		Tons (2,240 pounds)	Cost (dollars)	Tons (2,000 pounds)	Cost (dollars)		
1 UNITED STATES.....	1,973,863,329	9,281,416	43,543,316	214,024,754	754,509,376	52,391,830	243,649,015
2 GEOGRAPHIC DIVISIONS:							
3 New England.....	149,658,856	692,329	4,784,727	10,435,839	58,544,326	732,256	5,866,468
4 Middle Atlantic.....	635,325,577	6,889,004	30,536,858	72,933,441	235,547,544	21,434,499	97,379,053
5 East North Central.....	678,017,830	945,384	4,598,703	84,789,989	310,525,862	21,607,985	102,908,612
6 West North Central.....	98,688,781	221,507	1,109,749	10,128,065	40,431,523	862,804	6,301,963
7 South Atlantic.....	146,278,970	312,793	1,574,518	16,254,686	53,036,549	2,586,748	10,934,085
8 East South Central.....	76,523,010	67,588	221,862	13,534,679	35,827,570	3,903,005	11,285,318
9 West South Central.....	75,508,184	87,896	436,931	821,176	2,905,325	115,139	870,950
10 Mountain.....	44,319,031	59,537	223,371	4,351,155	14,206,245	1,012,755	6,505,547
	69,648,140	5,318	56,597	775,724	3,484,432	136,048	1,507,039
11 NEW ENGLAND:							
12 Maine.....	12,744,888	31,342	247,480	1,218,401	7,505,924	9,434	100,326
13 New Hampshire.....	8,784,005	265,096	1,500,938	553,596	3,436,390	12,026	122,240
14 Vermont.....	3,301,988	23,885	145,752	244,163	1,292,782	12,548	182,792
15 Massachusetts.....	75,519,468	233,495	1,046,628	5,089,493	27,963,729	477,370	3,594,747
16 Rhode Island.....	14,664,268	36,628	203,404	850,821	4,476,753	31,756	321,013
	34,554,239	101,883	980,465	2,479,365	13,869,748	189,122	1,595,350
17 MIDDLE ATLANTIC:							
18 New York.....	198,256,514	1,729,585	9,740,654	16,061,287	69,768,323	3,555,150	19,727,096
19 New Jersey.....	89,031,253	1,996,020	9,312,582	5,610,464	26,577,538	548,105	4,240,975
20 Pennsylvania.....	348,037,810	3,163,459	11,483,622	51,261,690	139,201,683	17,331,244	73,410,082
21 EAST NORTH CENTRAL:							
22 Ohio.....	221,974,423	140,657	598,538	29,843,144	96,632,054	10,691,089	44,536,573
23 Indiana.....	131,904,881	105,178	554,294	16,724,109	67,110,343	4,420,219	22,095,619
24 Illinois.....	163,925,234	358,536	1,803,083	19,919,108	69,150,422	5,018,738	27,583,690
	113,668,077	119,529	676,970	12,763,015	53,006,238	1,205,929	6,685,822
	46,545,165	226,484	965,818	5,540,613	24,626,805	272,010	2,006,908
25 WEST NORTH CENTRAL:							
26 Minnesota.....	26,884,058	82,662	449,619	2,872,719	14,294,233	464,538	2,068,606
27 Iowa.....	17,804,999	24,074	141,995	2,365,724	9,366,079	103,287	987,404
28 Missouri.....	30,082,748	71,131	279,800	3,242,658	10,691,482	156,925	1,226,487
29 North Dakota.....	1,112,891	2,019	16,955	230,629	697,551	1,965	24,323
30 South Dakota.....	1,497,826	5,478	126,148	126,148	645,643	5,341	69,340
31 Nebraska.....	6,777,227	3,586	27,862	690,082	2,831,791	99,877	785,251
	14,428,979	32,557	167,362	600,105	1,904,744	30,871	240,462
32 SOUTH ATLANTIC:							
33 Delaware.....	4,395,198	23,666	193,056	438,244	1,961,913	15,087	119,862
34 Maryland.....	37,789,914	134,048	598,497	3,501,777	14,210,318	1,451,396	6,459,988
35 District of Columbia.....	3,104,534	6,692	66,467	84,727	460,087	74,012	476,124
36 Virginia.....	16,018,179	30,916	112,959	2,640,913	8,185,752	203,080	1,244,900
37 West Virginia.....	29,374,831	32,096	128,430	5,805,118	12,072,075	742,217	1,884,693
38 North Carolina.....	23,024,463	33,473	179,952	1,552,430	6,731,571	21,591	157,019
39 South Carolina.....	12,358,509	25,503	122,720	852,445	3,220,093	8,706	62,947
40 Georgia.....	15,413,937	24,228	152,626	1,153,514	4,660,342	34,942	246,474
	4,795,305	2,231	10,812	225,512	934,398	34,817	282,058
41 EAST SOUTH CENTRAL:							
42 Kentucky.....	13,643,274	9,484	40,672	2,008,641	5,624,532	259,477	1,134,811
43 Tennessee.....	17,355,976	14,684	63,237	2,624,769	6,780,924	285,386	1,545,217
44 Alabama.....	41,512,058	39,492	95,227	8,387,329	21,381,862	3,349,047	8,544,426
	4,011,672	3,928	22,826	514,003	2,040,252	9,095	60,864
45 WEST SOUTH CENTRAL:							
46 Arkansas.....	4,409,498	2,871	15,842	113,366	451,069	6,158	44,910
47 Louisiana.....	16,664,368	4,598	38,098	204,274	895,217	10,344	84,892
48 Oklahoma.....	12,884,458	22,978	123,504	142,048	401,068	43,442	210,102
	41,489,860	67,449	259,487	361,488	1,157,971	55,195	531,046
49 MOUNTAIN:							
50 Montana.....	7,393,737	1,722	9,366	430,406	1,861,165	45,043	617,621
51 Idaho.....	1,638,048	1,648	15,348	137,612	656,632	23,755	279,955
52 Wyoming.....	3,729,173	134	1,303	150,371	435,861	4,057	49,726
53 Colorado.....	14,192,839	42,526	140,684	2,270,429	6,560,856	578,333	2,410,024
54 New Mexico.....	729,504	2,043	14,517	79,349	240,330	4,522	24,016
55 Arizona.....	8,210,782	336	3,223	230,821	1,217,379	53,831	684,674
56 Utah.....	7,655,709	8,453	29,673	1,004,270	3,002,228	303,089	2,527,457
	799,739	2,675	9,257	41,897	231,794	125	2,074
57 PACIFIC:							
58 Washington.....	13,278,034	2,350	24,369	674,892	2,879,094	43,964	447,083
59 Oregon.....	7,301,916	911	12,010	68,149	351,696	4,894	63,344
	49,068,140	2,057	20,218	32,683	253,143	87,790	996,612

¹ The differences between the items in this column and the corresponding ones in other tables are due to the inclusion here of the cost of fuel produced and consumed in the same establishments.

FUEL AND ELECTRIC ENERGY CONSUMED

ELECTRIC ENERGY, BY QUANTITY AND COST, BY GEOGRAPHIC DIVISIONS AND STATES: 1929

FUEL OILS (INCLUDING CRUDE OIL AND GAS OILS USED AS FUEL)		GASOLINE AND KEROSENE		GAS				OTHER FUELS	PURCHASED ELECTRIC ENERGY	
Gallons	Cost (dollars)	Gallons	Cost (dollars)	Natural		Manufactured		Cost (dollars)	Kilowatt-hours	Cost (dollars)
				M cubic feet	Cost (dollars)	M cubic feet	Cost (dollars)			
6,583,198,995	212,639,372	48,473,195	7,556,341	2,429,826,799	86,369,465	1,258,450,089	127,571,114	22,391,453	37,393,833,046	475,633,877
583,082,007	22,527,387	3,585,263	524,838	74,049,524	21,020,418	14,805,746	7,212,419	1,488,898	3,106,289,469	48,709,793
1,735,193,657	63,022,204	9,506,818	1,337,035	43,754,374	15,002,200	530,656,188	46,574,752	3,680,054	11,424,212,264	135,627,059
1,303,988,914	51,092,649	20,835,193	3,418,166	39,117,792	6,739,078	517,368,451	48,043,043	7,288,310	9,227,299,844	133,940,285
818,059,166	10,043,763	3,310,500	456,949	25,507,398	1,792,112	23,505,478	3,741,424	1,097,224	1,838,252,340	28,670,061
847,580,367	12,480,984	3,117,908	549,537	5,510,436	1,482,794	39,330,646	6,178,669	1,948,443	4,533,700,255	52,779,133
84,024,725	2,817,433	1,846,025	331,036	163,768,241	23,323,097	33,389,620	3,721,870	926,351	2,074,450,455	19,908,107
988,042,488	18,908,131	2,269,488	294,800	27,195,749	3,024,856	40,913,893	7,004,852	3,336,828	1,256,053,825	17,467,270
199,971,897	7,529,391	920,762	183,547	50,863,345	7,187,913	50,972,842	2,314,160	348,431	1,233,832,031	9,296,483
1,023,285,774	23,620,450	3,081,238	450,183			7,514,225	1,810,920	2,276,914	2,699,783,533	29,235,686
33,627,515	1,382,757	140,506	23,350			110,443	90,945	148,208	328,959,106	3,245,838
12,805,358	553,411	171,970	32,240			79,597	73,104	286,026	361,058,733	2,780,656
3,296,842	198,584	80,898	14,036			32,150	30,401	89,837	60,228,469	1,487,734
330,643,517	12,336,265	1,112,664	161,039			8,488,014	3,977,596	592,889	1,409,874,874	25,245,975
116,816,020	3,770,428	367,899	49,811			43,811	76,128	350,823	306,310,560	5,372,848
81,423,755	4,270,962	1,711,326	249,792			5,681,807	2,709,400	205,760	634,837,747	10,870,742
423,851,874	10,033,718	3,723,528	532,790	1,886,471	1,007,878	118,641,235	12,012,017	899,180	6,871,738,664	65,534,258
608,180,180	20,757,829	1,904,940	292,138			21,899,219	7,687,129	665,529	1,051,187,141	19,497,541
613,125,603	23,230,600	3,818,350	512,712	72,163,083	20,012,840	390,115,734	26,875,600	2,115,346	3,501,286,409	50,595,260
283,786,543	12,627,051	4,639,683	663,929	36,087,845	13,475,597	221,136,594	10,294,690	1,052,123	3,080,039,500	41,523,862
308,154,975	10,642,998	999,490	155,608	3,181,102	1,260,405	204,579,000	12,580,978	2,240,001	1,063,583,055	15,258,635
408,362,543	15,835,739	3,621,010	459,104	472,806	181,846	55,061,887	14,858,343	1,059,896	2,120,370,599	32,993,252
175,272,244	9,404,884	7,873,497	1,692,025	4,032,501	678,353	28,504,942	3,324,899	1,457,280	2,028,421,094	31,741,606
68,412,600	3,181,977	3,701,613	447,500			8,016,028	2,014,127	879,100	934,848,936	12,422,930
31,829,859	1,689,391	342,447	51,326			14,384,487	950,634	386,160	388,944,690	6,093,993
31,064,185	1,424,355	1,133,120	131,714			374,054	297,533	120,765	392,866,735	5,345,164
100,800,512	3,420,945	1,109,107	168,503	6,780,284	1,404,703	3,737,336	1,662,770	357,950	670,869,818	10,881,108
774,928	51,203	10,880	1,812	61,743	7,925	14,493	15,417	72,978	17,280,009	224,697
2,539,249	133,688	56,807	9,670	830,799	138,109	22,580	25,491	34,320	47,378,430	415,442
22,625,798	898,050	463,302	63,524	1,707	1,136	109,393	81,783	76,017	137,027,900	2,011,202
128,364,635	2,417,125	186,137	30,400	31,483,259	5,184,202	4,896,226	717,701	68,428	221,312,750	3,098,465
32,252,521	980,798	63,261	10,405			65,297	61,005	8,897	66,864,785	1,059,292
181,269,216	5,723,778	307,815	49,742	92,540	47,155	23,248,636	3,797,653	533,040	463,044,743	6,369,143
25,868,018	1,272,141	95,018	14,238			209,450	3,573	40,514,200	665,539	34
18,470,793	955,713	514,901	81,065			118,300	110,382	65,012	407,852,292	5,261,497
10,058,549	297,823	301,716	60,917	25,474,798	6,744,057	14,323,404	1,553,067	569,185	575,932,126	5,463,684
6,198,987	405,133	533,099	92,013			40,786	42,764	139,201	1,572,917,543	15,276,810
13,749,169	431,003	241,571	42,208			728,553	114,092	660,456,632	8,201,316	38
32,167,801	1,236,304	835,897	157,148			521,626	226,734	292,290	646,917,748	8,441,119
27,536,313	1,178,351	224,333	41,801			82,594	77,339	220,783	98,600,142	2,040,763
27,055,917	842,834	100,855	31,028	5,142,483	1,324,640	5,599,198	622,382	122,822	271,700,501	3,899,653
11,024,209	631,004	445,058	77,285	342,507	143,533	1,135,684	286,801	286,801	1,050,496,981	7,634,534
37,807,841	1,064,306	801,520	152,210			26,672,435	2,805,832	231,084	682,440,509	7,147,141
7,536,758	279,299	408,692	71,163	25,446	14,621	9,303	10,024	285,844	60,812,404	1,226,779
14,014,017	309,036	954,918	108,131	11,658,806	1,459,051	840,011	80,054	112,062	135,009,962	1,889,343
189,646,864	4,262,044	636,639	72,486	39,707,702	4,835,543	7,833,260	1,702,843	1,372,677	252,675,040	3,400,568
189,079,005	3,480,296	187,363	22,641	43,954,745	5,398,411	3,915,218	767,675	90,528	140,278,496	2,384,233
595,302,002	10,866,755	610,663	91,542	68,446,988	11,630,092	28,325,404	5,414,280	1,755,561	728,090,318	9,793,126
14,359,277	605,986	192,126	51,266	2,919,370	516,200	5,421	6,129	51,034	818,476,124	3,674,950
1,193,077	59,341	17,191	18,860			3,400	3,853	23,963	61,855,526	580,096
20,838,434	511,965	21,413	3,254	14,711,293	1,689,002	3,813,304	547,670	105,247	22,509,462	385,145
10,796,844	372,371	174,887	29,502	9,446,313	1,379,513	44,696,511	1,544,751	43,030	84,081,808	1,711,608
8,679,871	249,815	46,145	9,330	66,918	25,343	65,811	9,312	6,464	9,349,040	150,377
100,319,157	4,832,606	338,213	62,210			24,806	24,728	51,012	131,192,858	1,334,950
21,865,142	517,394	29,901	6,017	51,876	14,798	2,362,483	176,467	54,137	192,696,546	1,927,538
12,920,495	376,913	20,886	3,118			1,106	1,260	13,544	6,670,667	131,780
71,199,227	2,184,024	410,820	66,638	3,658	2,977	213,321	166,758	1,451,110	782,921,745	6,055,431
88,418,805	2,749,056	324,593	55,775			133,473	102,935	548,435	315,759,337	3,418,766
863,667,742	18,087,370	2,345,825	336,770	50,859,687	7,184,936	7,167,431	1,550,233	277,369	1,601,102,481	19,761,489

² See third paragraph of text, p. 158.

³ See fourth paragraph of text, p. 158.

CENSUS OF MANUFACTURES: 1929

TABLE 5.—CONSUMPTION OF FUEL, BY KIND AND QUANTITY, AND COMBINED COST OF FUEL AND PURCHASED ELECTRIC ENERGY, BY STATES: 1929, 1927, 1923, AND 1919

STATE	COST OF FUEL AND PURCHASED ELECTRIC ENERGY (dollars)		COAL						
			Total ¹ (tons, 2,000 pounds)				Anthracite (tons, 2,240 pounds)		
	1929	1919	1929	1927	1923	1919	1929	1923	1919
United States.....	1,973,863,320	1,645,986,556	224,419,940	216,442,337	239,706,753	219,518,152	9,281,416	13,103,619	14,334,402
Alabama.....	41,512,088	51,688,889	8,431,560	8,036,554	8,660,419	7,054,537	39,492	7,860	4,891
Arizona.....	8,210,782	8,371,565	231,197	205,326	129,810	45,154	336	60	150
Arkansas.....	4,469,498	2,931,567	116,682	128,193	205,860	204,604	2,871	10,125	7,824
California.....	49,068,140	37,726,290	34,987	37,953	48,828	121,567	2,057	2,562	4,002
Colorado.....	14,192,339	14,666,215	2,318,058	2,757,337	2,773,367	2,984,030	42,526	48,567	33,331
Connecticut.....	34,554,239	29,164,320	2,593,474	2,334,098	2,476,760	2,727,026	101,833	176,950	398,121
Delaware.....	4,395,198	3,970,775	464,683	452,157	473,285	550,121	28,606	39,186	38,185
District of Columbia.....	3,104,534	3,477,734	92,222	79,094	151,730	223,429	6,692	57,728	87,731
Florida.....	4,795,305	4,231,373	228,011	141,771	110,491	268,800	2,231	2,269	5,110
Georgia.....	15,413,037	12,058,540	1,180,649	1,277,846	1,596,459	1,456,226	24,228	34,174	3,368
Idaho.....	1,638,043	1,602,959	139,458	141,026	141,380	152,409	1,648	532	353
Illinois.....	163,925,284	125,889,392	20,315,068	18,053,799	19,122,421	16,769,792	353,536	214,506	238,461
Indiana.....	131,004,881	90,194,103	16,841,908	16,740,185	17,120,843	13,612,411	105,178	85,724	31,099
Iowa.....	17,504,999	14,205,336	2,392,687	2,226,595	2,458,070	2,171,655	24,074	90,070	15,400
Kansas.....	14,428,979	15,541,055	636,669	871,706	979,650	1,410,002	32,557	30,406	0,213
Kentucky.....	13,643,274	11,229,937	2,019,293	2,227,436	2,268,129	2,202,449	0,484	17,212	1,566
Louisiana.....	16,664,365	10,256,726	209,424	571,661	277,432	479,683	4,598	14,736	4,955
Maine.....	12,744,888	13,483,662	1,253,604	1,047,749	1,201,786	1,306,045	31,342	54,378	43,234
Maryland.....	37,789,914	21,651,071	3,651,911	3,160,249	2,878,753	2,083,235	134,048	151,695	65,239
Massachusetts.....	78,619,468	72,359,279	5,351,007	5,478,838	5,806,754	6,411,711	233,495	446,378	693,759
Michigan.....	113,668,077	66,337,153	12,896,887	12,981,765	10,887,871	8,298,455	119,529	60,700	59,510
Minnesota.....	26,884,058	22,482,478	2,965,300	2,653,235	3,259,794	2,529,596	82,662	102,303	41,074
Mississippi.....	4,011,672	2,996,245	518,402	468,743	420,284	468,865	3,928	0,830	0,870
Missouri.....	30,082,748	26,644,354	3,322,325	3,537,194	4,222,137	4,133,992	71,131	61,582	14,662
Montana.....	7,393,737	4,556,972	432,335	449,465	560,581	539,564	1,722	1,511	234
Nebraska.....	6,777,227	7,137,697	694,058	678,715	724,637	920,908	3,586	26,600	2,946
Nevada.....	799,739	1,492,710	44,893	213,877	149,501	117,444	2,475	638	15
New Hampshire.....	8,784,005	7,928,171	850,504	862,061	756,109	860,716	205,096	223,749	286,885
New Jersey.....	80,031,253	75,960,830	7,846,006	8,746,880	8,618,444	10,712,320	1,996,020	2,746,046	3,581,497
New Mexico.....	729,504	1,753,362	81,637	97,753	387,785	573,187	2,043	104	589
New York.....	198,256,514	162,256,967	17,998,422	17,412,576	17,514,958	15,796,088	1,720,585	3,129,462	3,805,793
North Carolina.....	23,024,463	13,910,881	1,589,926	1,369,612	2,090,723	1,407,778	33,473	43,288	43,425
North Dakota.....	1,112,891	1,012,246	232,890	166,949	189,704	104,378	2,019	916	1,736
Ohio.....	221,974,423	182,914,254	30,000,680	28,507,532	28,735,698	25,621,508	140,657	202,038	108,006
Oklahoma.....	12,884,458	11,066,013	167,733	312,844	321,717	528,490	22,978	23,478	44,433
Oregon.....	7,301,916	4,851,320	69,169	59,537	104,501	74,739	911	1,118	1,825
Pennsylvania.....	348,037,810	342,090,821	54,804,767	51,675,926	70,699,159	63,334,005	3,163,459	4,578,958	4,252,192
Rhode Island.....	14,664,268	13,783,311	891,844	887,972	859,193	1,091,114	39,628	23,384	60,628
South Carolina.....	12,358,509	7,569,770	881,008	841,250	849,001	835,032	25,503	12,194	14,451
South Dakota.....	1,497,829	1,104,857	132,283	140,079	142,724	99,960	5,478	52,445	2,784
Tennessee.....	17,855,976	14,214,702	2,641,152	2,504,531	2,547,719	2,744,706	14,684	24,520	5,675
Texas.....	41,489,860	22,892,256	425,831	411,444	638,340	897,463	57,449	29,274	38,600
Utah.....	7,655,709	7,047,950	1,013,737	946,274	980,800	1,032,190	8,453	1,360	1,224
Vermont.....	3,391,988	3,548,145	270,914	207,552	301,555	288,739	23,885	29,478	46,627
Virginia.....	16,018,179	10,481,261	2,675,539	2,489,605	3,313,073	3,258,680	30,916	53,457	23,475
Washington.....	13,278,084	11,281,255	677,524	665,451	480,700	647,907	2,350	14,011	4,502
West Virginia.....	29,374,831	20,747,869	5,841,066	5,956,798	5,552,313	4,082,175	32,096	60,344	66,558
Wisconsin.....	40,645,165	42,406,892	5,794,275	5,130,814	5,447,071	5,387,834	226,484	99,476	103,525
Wyoming.....	3,729,173	1,740,231	160,521	115,580	122,428	116,035	134	374	90

¹ Calculated by adding the number of tons of bituminous coal and the number of tons of anthracite reduced to a 2,000-pound basis.

² See second paragraph of text, p. 158.

FUEL AND ELECTRIC ENERGY CONSUMED

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TABLE 5.—CONSUMPTION OF FUEL, BY KIND AND QUANTITY, AND COMBINED COST OF FUEL AND PURCHASED ELECTRIC ENERGY, BY STATES: 1929, 1927, 1923, AND 1919—Continued

STATE	COAL—continued			COKE		FUEL OILS		GASOLINE AND KEROSENE		GAS, NATURAL AND MANUFACTURED	
	Bituminous (tons, 2,000 pounds)			(tons, 2,000 pounds)		(including crude oil and gas oils used as fuel) (gallons)		(gallons)		(M cubic feet)	
	1929	1923	1919	1929	1919	1929	1919	1929	1919	1929	1919
United States.....	214,024,754	225,030,700	203,463,622	52,391,839	42,595,019	6,583,198,995	3,766,779,366	48,473,195	98,407,698	91,688,276,888	341,921,022
Alabama.....	8,387,329	8,652,176	7,049,059	3,349,047	3,556,934	37,807,841	7,742,406	801,520	500,556	20,672,435	216,135
Arizona.....	230,821	120,736	44,976	53,831	143,567	100,319,167	87,846,276	338,213	65,940	24,800	10,676
Arkansas.....	113,366	194,520	285,741	6,158	10,397	14,014,017	1,753,584	964,918	233,646	12,498,817	6,723,496
California.....	32,683	45,959	117,085	87,790	194,643	863,667,742	608,717,970	2,345,825	14,053,284	58,027,118	7,587,674
Colorado.....	2,270,429	2,718,972	2,940,699	578,333	530,304	10,706,344	4,753,476	174,887	1,653,960	54,142,824	114,840
Connecticut.....	2,479,305	2,278,570	2,281,130	189,122	163,288	81,423,755	60,798,612	1,711,326	1,369,956	5,681,807	627,462
Delaware.....	438,244	420,397	507,354	15,087	16,712	32,252,521	8,149,974	63,261	100,758	65,297	80,062
District of Columbia.....	84,727	87,081	125,170	74,912	15,579	25,868,018	16,767,912	95,018		209,460	964,794
Florida.....	225,512	116,953	202,577	34,817	36,384	27,536,313	16,537,668	224,333	1,200,192	82,594	20,725
Georgia.....	1,153,514	1,498,184	1,452,454	34,942	45,215	32,167,801	8,433,620	835,597	2,228,688	521,026	81,153
Idaho.....	137,612	140,784	23,756	24,429	54,599	1,193,677	991,998	97,191	38,514	3,400	3,751
Illinois.....	19,919,108	18,882,174	16,502,727	5,018,738	3,903,043	408,302,543	204,813,042	3,621,010	4,798,710	55,534,753	3,557,698
Indiana.....	16,724,109	17,024,832	13,577,580	4,420,219	2,093,061	308,154,975	114,307,032	999,490	2,907,450	207,740,102	2,308,659
Iowa.....	2,365,724	2,359,520	2,154,407	103,287	134,841	31,004,185	24,106,236	1,133,120	1,110,522	37,374,084	181,957
Kansas.....	600,105	945,595	1,403,043	30,871	60,523	128,304,635	133,069,360	195,137	899,136	36,319,485	13,022,876
Kentucky.....	2,008,641	2,248,852	2,200,601	259,477	252,519	27,655,917	3,455,928	190,855	642,472	8,602,772	3,567,698
Louisiana.....	204,274	200,928	474,133	10,344	101,008	189,646,864	119,931,588	536,639	2,234,568	47,540,962	24,181,161
Maine.....	1,218,401	1,140,863	1,267,623	0,434	21,972	33,627,515	23,856,168	140,606	313,866	110,443	45,503
Maryland.....	3,501,777	2,708,855	2,030,167	1,451,395	436,704	181,209,216	45,629,898	307,815	1,394,568	23,341,176	1,270,901
Massachusetts.....	5,089,493	5,306,811	5,634,701	477,370	501,293	336,643,517	163,849,234	1,112,064	3,800,286	8,488,014	1,222,444
Michigan.....	12,763,015	10,819,887	8,241,877	1,205,929	812,041	175,272,244	73,123,638	7,873,497	6,317,598	32,597,603	2,105,985
Minnesota.....	2,872,719	3,145,215	2,483,593	464,538	440,452	31,829,850	12,291,762	342,447	1,471,890	14,384,487	1,438,853
Mississippi.....	514,003	409,274	446,676	9,095	4,861	7,536,758	2,742,706	408,592	203,700	84,749	4,395
Missouri.....	3,242,658	4,153,165	4,117,582	156,923	194,758	100,860,512	77,278,656	1,108,107	1,315,524	10,517,020	1,658,684
Montana.....	430,406	558,889	539,302	45,043	64,705	14,369,277	945,714	192,126	73,038	2,924,800	97,410
Nebraska.....	690,082	694,744	917,605	99,877	56,904	22,625,798	18,062,688	463,302	541,068	106,010	75,956
Nevada.....	41,597	148,736	117,427	125	26,104	12,620,495	10,302,138	20,886	12,078	1,106	5,859
New Hampshire.....	553,596	505,510	539,405	12,026	30,964	12,866,358	24,292,716	171,970	1,161,552	70,597	20,910
New Jersey.....	5,610,464	5,542,872	6,701,052	548,105	693,502	698,186,180	274,134,462	1,064,940	4,047,540	21,899,219	1,969,277
New Mexico.....	79,349	387,508	572,527	4,522	831	8,670,371	3,648,708	46,145	29,106	132,720	1,056
New York.....	16,061,287	14,009,072	11,533,633	3,555,150	3,019,517	423,861,874	288,621,858	3,723,628	5,251,050	120,527,906	4,712,772
North Carolina.....	1,552,436	2,042,240	1,359,142	21,591	14,980	6,198,987	1,626,828	533,066	523,950	40,736	9,050
North Dakota.....	230,629	188,678	192,434	1,065	1,498	774,928	107,478	10,580	97,608	66,235	6,451
Ohio.....	20,843,144	28,509,415	25,499,869	10,091,089	8,640,711	283,786,543	77,156,226	4,639,583	7,910,226	257,224,439	45,014,790
Oklahoma.....	142,048	295,422	478,734	43,442	37,409	189,079,605	132,852,384	167,363	332,536	47,869,063	40,523,914
Oregon.....	63,149	103,249	72,695	4,894	10,970	88,418,805	56,719,278	324,593	834,666	133,473	402,457
Pennsylvania.....	51,261,600	65,567,723	58,571,552	17,331,244	13,247,923	613,125,603	387,025,632	3,813,350	14,150,544	462,278,787	117,636,190
Rhode Island.....	850,821	827,403	982,891	31,756	51,853	115,315,020	58,568,496	367,899	799,134	413,735	616,995
South Carolina.....	852,445	835,344	818,847	8,708	17,346	13,749,169	1,607,130	241,871	313,866	726,553	35,583
South Dakota.....	126,148	83,986	96,832	5,341	9,103	2,539,249	3,085,068	56,807	216,930	853,379	11,992
Tennessee.....	2,624,706	2,520,257	2,738,350	285,386	475,310	11,024,209	4,195,768	445,058	465,234	1,478,191	161,850
Texas.....	361,483	605,553	854,231	55,195	158,983	595,302,002	434,675,682	610,568	1,273,566	96,772,392	4,883,550
Utah.....	1,004,270	979,288	1,030,819	303,089	169,969	21,865,142	10,832,550	29,901	64,974	2,414,369	24,675
Vermont.....	244,163	268,540	236,517	12,543	18,549	3,266,842	1,008,252	80,898	209,622	32,160	106,306
Virginia.....	2,640,913	3,253,201	3,232,388	203,080	603,617	18,479,793	12,294,492	514,901	405,048	118,300	44,046
Washington.....	674,892	464,336	642,365	43,964	68,205	71,199,227	72,775,500	410,820	1,520,154	216,079	215,511
West Virginia.....	5,305,118	5,484,728	4,007,630	742,217	341,030	10,058,549	1,455,090	301,716	256,452	39,798,202	48,247,748
Wisconsin.....	5,540,613	5,335,658	5,271,886	272,010	542,938	68,412,609	25,905,558	3,701,013	0,008,454	8,016,028	1,270,809
Wyoming.....	150,371	122,009	115,957	4,057	2,660	20,838,434	53,825,520	21,413	89,544	18,524,567	4,793,519

* See third and fourth paragraphs of text, p. 158.

CENSUS OF MANUFACTURES: 1929

TABLE 6.—CONSUMPTION OF SELECTED KINDS OF FUEL AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY, BY QUANTITY, FOR INDUSTRIAL AREAS: 1929

[See GENERAL EXPLANATIONS—Industrial area, p. 11]

AREA	COAL		Coke (ton, 2,000 pounds)	Fuel oils (including crude oil and gas oils used as fuel) (gallons)	Purchased electric energy (kilowatt- hours)
	Anthracite (ton, 2,240 pounds)	Bituminous (ton, 2,000 pounds)			
United States.....	9,281,416	214,024,754	52,301,830	6,583,198,905	37,393,833,046
Industrial areas, total.....	5,506,736	124,934,209	40,558,794	3,865,997,192	18,488,181,114
New York City area.....	2,446,463	7,324,553	605,980	797,015,477	1,073,904,784
Chicago area.....	200,553	22,721,048	8,550,185	461,342,478	1,852,915,109
Philadelphia area.....	336,662	5,391,916	907,891	418,166,725	991,793,627
Detroit area.....	27,004	7,999,768	935,277	132,750,014	1,071,062,925
Boston area.....	80,882	3,195,770	360,121	202,766,052	480,442,275
Pittsburgh area.....	180,242	24,646,924	10,577,623	90,493,608	1,011,317,922
Providence-Fall River-New Bedford area.....	50,476	1,169,483	67,092	155,778,710	532,207,466
Cleveland area.....	25,683	7,021,066	3,220,388	97,196,418	573,537,114
St. Louis area.....	31,728	4,637,977	593,722	187,930,210	508,443,114
Milwaukee area.....	52,729	3,102,335	185,833	47,723,395	575,025,080
Bridgeport-New Haven-Waterbury area.....	67,927	1,598,484	188,976	50,927,262	327,265,739
Buffalo area.....	90,639	4,418,514	2,806,721	60,591,200	3,268,664,281
Los Angeles area.....	743	1,514	26,368	121,715,304	555,828,441
Cincinnati area.....	19,851	2,357,897	271,284	9,652,352	484,322,301
Baltimore area.....	123,316	2,788,450	1,439,163	178,410,435	371,018,031
San Francisco-Oakland area.....	790	14,782	31,806	450,072,533	550,104,676
Worcester area.....	24,245	549,484	48,014	51,768,278	281,369,738
Youngstown area.....	11,482	3,466,332	5,909,440	83,853,260	546,288,579
Akron area.....	4,053	1,821,255	33,986	2,984,490	307,267,264
Hartford area.....	19,027	380,224	33,772	18,253,265	226,600,360
Minneapolis-St. Paul area.....	10,655	1,263,278	76,954	24,221,859	180,035,385
Rochester area.....	10,636	813,186	64,879	6,086,780	118,231,761
Albany-Schenectady-Troy area.....	69,561	1,009,210	101,179	11,433,679	263,934,711
Allentown-Bethlehem area.....	545,974	3,801,496	1,099,418	18,059,285	248,615,824
Springfield-Holyoke area.....	40,940	429,787	21,202	16,237,200	160,367,472
Toledo area.....	5,024	1,158,394	461,409	18,156,075	197,070,479
Indianapolis area.....	10,901	1,301,046	74,321	6,289,930	138,478,226
Kansas City area.....	27,410	521,333	23,476	64,368,623	224,232,160
Seattle-Tacoma area.....	598	353,594	41,133	44,402,948	293,260,729
Reading area.....	115,667	472,914	253,763	11,022,860	123,190,434
Whealing area.....	5,278	3,990,462	1,558,661	1,776,971	156,270,845
Dayton area.....	6,660	205,789	16,901	3,327,070	101,867,291
Scranton-Wilkes-Barre area.....	345,569	49,944	22,866	6,125,548	93,054,921

FUEL AND ELECTRIC ENERGY CONSUMED

TABLE 7.—CONSUMPTION OF SELECTED KINDS OF FUEL AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY, BY QUANTITY, BY COUNTIES: 1929

[Because of the fact that some of the very small establishments were canvassed by means of an abbreviated schedule which did not call separately for data on fuel consumption, no consumption of fuel or purchased electric energy was reported from a few counties from which returns were received at the census of manufactures, and therefore the names of these counties do not appear in this table.]

COUNTY	COAL			FUEL OILS (including crude oil and gas oils used as fuel) (gallons)	PURCHASED ELECTRIC ENERGY (kilowatt- hours)	COUNTY	COAL			FUEL OILS (including crude oil and gas oils used as fuel) (gallons)	PURCHASED ELECTRIC ENERGY (kilowatt- hours)
	Anthra- cite (tons, 2,240 lbs.)	Bitumi- nous (tons, 2,000 lbs.)	COKE (tons, 2,000 lbs.)				Anthra- cite (tons, 2,240 lbs.)	Bitumi- nous (tons, 2,000 lbs.)	COKE (tons, 2,000 lbs.)		
ALABAMA						ARKANSAS—Contd.					
Autauga	39,492	8,387,329	3,349,047	37,807,841	682,449,569	Boone	4	34	2		753,960
Baldwin	2,661	1,210		1,141	1,657,800	Bradley	12	4,620		860,847	96,501
Barbour		270	40	52,705	1,251,678	Calhoun			5		3,000
Bibb	3	5,416	12	1,300	945,388	Carroll	25	110		6,600	195,966
Blount		1,420			158,987	Chicot			10	950	62,700
Bullock		0,515			785,092	Clark			500	720	1,621,680
Butler	3	204			238,225	Cleburne			142	4,022	156,224
Calhoun	2	439			1,109,584	Cleveland					76,774
Chambers	2	30,159	30,117	476,776	151,370,835	Columbia					4,000
Cherokee	10	20,047			35,494,896	Conway	3	2,454		15,930	771,323
Chilton		84			2,000	Craighead	118	4,438		371,911	185,984
Choctaw	2	560			520,300	Crawford			30	545,484	550,087
Clarke	8	3,075		21,941	243,158	Crittenden					862,912
Clay		9,986			9,538	Cross					192,100
Coffee		48		8,259	46,000	Dallas		28			117,181
Colbert	04	3,869			751,222	Desh		1,726			414,863
Conaugh		11,709	1,070		731,053	Drew		4,538			673,591
Coosa				15,285	45,100	Faulkner		1,440		41,000	1,077,905
Covington		7,878		0,144	10,900	Franklin		68			110,345
Crenshaw					4,198,397	Garland		50	28	120,941	4,013,942
Cullman	128	2,017	40	10,000	76,066	Grant					41,947
Dale	12	2,844		23,722	119,859	Greene		5,084		84,665	359,480
De Kalb	7,406	17,495	314	7,778	9,335,019	Hempstead				6,000	91,732
Etowah		878	30		4,734,417	Hot Spring				229,950	3,756,035
Escambia		2,414	40	14,280	1,448,071	Howard	12	2,867		22,162	22,162
Fayette	141	522,700	210,616	48,227	343,004	Independence	190	2,854		141,850	424,209
Franklin		2,276			21,930,072	Jackson	32	2,727		1,500	337,761
Geneva		4,806		7,500	887,005	Jefferson		4,000	695	1,845,656	8,928,225
Greene		1,352			1,393,000	Johnson				15,380	
Hale		3,085			652,744	Lafayette				22,000	15,212
Henry		121			8,350	Lawrence	93	1,758		1,064	326,856
Houston	83	4,786	68	57,402	108,000	Lincoln				24,000	72,842
Jackson		2,301			50,430	Little River		2,218			45,000
Jefferson	566	0,970,509	2,970,857	35,163,047	643,226	Logan		1,328		12,266	10,000
Lamar		1,144			776,355	Lonoke		1,150		20,000	214,576
Lauderdale		8,256	730		2,225,540	Madison					15,500
Lee	26	1,576	150		2,043,815	Marion		20			
Limestone	12	6,085	40		5,425,781	Miller				61,400	1,121,607
Macon	440	3,417			43,323	Mississippi	5	4,607	19	27,149	1,234,912
Madison	16	23,631	370	917	78,400	Monroe		56		1,000	75,305
Marango	466	33,751	57		37,213,899	Nevada				628,000	460,965
Marion		354			10,622,254	Ouachita		3,537	60		43,601,176
Marshall		678			373,020	Perry					1,207
Mobile	2,700	50,277	1,547	1,420,179	2,133,330	Phillips	38	10,551	234	241,617	6,002,339
Monroe		10			11,936,510	Pike					87,500
Montgomery	200	61,919	1,331	184,491	10,061	Poinsett		3			464,308
Morgan	2,319	37,083		7,000	22,622,427	Polk	20			500	131,577
Perry	1	3,505			0,816,646	Pope	12	14,305			1,424,309
Pickens		610		1,728	3,348,254	Prairie		1,688			72,021
Pike		1,614	30	60,000	688,493	Pulaski	1,058	11,038	4,259	4,239,468	26,260,976
Randolph	211	2,311			765,935	Randolph	5	500			53,000
Russell		15,800	1,100	11,000	0,490,278	St. Francis		8,017		4,000	574,514
St. Clair		70,064			10,755,420	Saline	6				485,942
Shelby		15,036			21,366,520	Scott					41,575
Sumter	300	1,367			2,381,429	Sebastian	516	4,904	31	6,084	9,868,962
Talladega		26,654	2,577	1,970	242,100	Sevier	8	355		31,103	184,139
Tallapoosa	15	5,305	1,806	10	35,316,613	Union		551	70	3,893,002	10,421,659
Tuscaloosa	21,678	328,194	110,372	63,220	17,690,070	Van Buren	5				
Walker		12,572	22	6,000	3,168,826	Washington	199	3,925		143,410	1,110,223
Wilcox				24,000	9,500,950	White		78		111,660	88,135
Winston		304			10,000	Woodruff				200,288	304,100
					688,233	Yell		12			191,269
ARIZONA						CALIFORNIA					
Apache				2,000,000		Alameda	240	4,540	11,016	84,563,542	130,266,401
Cochise	336	3,020	8,870	48,812,335	618,492	Amador	4	67		443,511	340,213
Cocconino		4			90,349	Butte	19		7	801,095	3,721,402
Gila		206	300	20,051,834	104,247,192	Calaveras			12	5,438,448	15,804,069
Graham		5		68,536	137,046	Colusa				343,265	299,279
Greenlee		30	368	2,548,009	42,480	Contra Costa	9	617	15,307	225,056,893	231,563,285
Maricopa		2,364	1,780	9,683,072	19,347,290	Del Norte				9,960	52,660
Mohave		0		7,833	91,890	Eldorado		16		985,829	530,026
Navajo		13,875		1,300,233	735,738	Fresno	19	297	173	14,260,978	21,522,308
Pima		625	229	5,170,150	2,989,623	Glenn		1		561,670	678,506
Pinal		23,682	7,940	6,665,380	84,584	Humboldt	24	698	124	6,902,911	3,228,172
Santa Cruz		133		313,280	647,690	Imperial		338		1,867,154	15,014,989
Yavapai		186,053	34,335	2,553,746	1,251,764	Inyo		76	2,122	2,865,639	9,128,830
Yuma		318		1,144,949	908,741	Kern		40		2,817,107	42,413,529
ARKANSAS						ARKANSAS					
Arkansas	2,871	113,366	6,153	14,014,017	135,009,962	Lake				622	88,855
Ashley	38	1,170	80		1,610,402	Lassen		25		587,760	1,390,986
Baxter		977		40,000	27,779	Los Angeles	743	1,514	26,368	121,715,304	555,828,441
Benton	200	1,154			3,100	Madera		10		689,677	2,233,023
	272	1,134	691	1,500	894,407	Marin	41	1,725	2	7,671,168	3,437,455
						Mendocino		154		190,111	323,945

CENSUS OF MANUFACTURES: 1929

TABLE 7.—CONSUMPTION OF SELECTED KINDS OF FUEL AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY, BY QUANTITY, BY COUNTIES: 1929—Continued

[See note at head of table]

COUNTY	COAL		COKE (tons, 2,000 lbs.)	FUEL OILS (including crude oil and gas oils used as fuel) (gallons)	PURCHASED ELECTRIC ENERGY (kilowatt-hours)	COUNTY	COAL		COKE (tons, 2,000 lbs.)	FUEL OILS (including crude oil and gas oils used as fuel) (gallons)	PURCHASED ELECTRIC ENERGY (kilowatt-hours)
	Anthracite (tons, 2,240 lbs.)	Bituminous (tons, 2,000 lbs.)					Anthracite (tons, 2,240 lbs.)	Bituminous (tons, 2,000 lbs.)			
CALIFORNIA—Contd.						CONNECTICUT—Continued.					
Merced.....		20		8,485,631	2,531,900	Litchfield.....	9,580	95,355	6,450	5,001,873	14,653,715
Modoc.....				135,880	52,615	Middlesex.....	1,514	49,176	2,276	1,506,494	12,290,822
Monterey.....			2,038	6,021,628	51,391,724	New Haven.....	29,020	1,133,456	101,132	25,335,407	203,824,532
Napa.....		4		529,608	1,540,029	New London.....	3,140	220,042	4,614	8,287,421	32,080,564
Nevada.....	18		24	3,795,485	6,323,348	Tolland.....	222	40,130	616	155,352	3,700,306
Orange.....	19	462	1,708	1,022,339	7,711,460	Windham.....	467	59,945	2,418	2,202,088	18,150,251
Placer.....		2	5	4,954,998	12,671,784	DELAWARE.....					
Plumas.....	6			989,073	513,896		23,606	438,244	15,087	32,252,521	66,864,785
Riverside.....	15	40	6,091	8,267,518	7,162,157	Kent.....	673	7,582	765	379,412	323,473
Sacramento.....	17	1,264	5,744	23,875,861	33,907,902	New Castle.....	22,607	419,816	13,572	31,665,558	65,162,266
San Benito.....	2			6,783,911	9,117,973	Sussex.....	426	10,849	750	207,551	1,379,046
San Bernardino.....	44	270	1,400	66,674,949	96,408,217	DISTRICT OF CO-LUMBIA.....					
San Diego.....	9	234	207	20,280,861	22,346,213		6,692	84,727	74,912	25,868,018	40,514,290
San Francisco.....	491	7,355	4,584	106,877,857	119,356,508	FLORIDA.....					
San Joaquin.....	38	1,371	1,376	18,706,798	21,343,518		2,281	225,512	34,817	27,536,313	98,600,142
San Luis Obispo.....		10		3,363,482	2,515,139	Alachua.....		8,047	1,000	168,000	1,719,282
San Mateo.....	9	509	897	34,903,073	65,482,027	Bay.....	9			35,770	54,150
Santa Barbara.....		15	160	324,133	3,163,230	Bradford.....		6		25,050	4,800
Santa Clara.....	150	2,259	1,033	17,683,376	20,046,616	Brevard.....		3		2,575	875,951
Santa Cruz.....		97	27	18,178,975	27,149,023	Broward.....	10	208		93,379	1,288,278
Siasta.....		263	31	472,526	625,533	Calhoun.....					18,150
Sierra.....				94,526		Charlotte.....					516,028
Siskiyou.....	6	321		950,797	4,397,009	Clay.....				13,000	21,400
Solano.....	8	126	184	3,519,320	10,105,263	Collier.....				163,880	
Sonoma.....	1	558		832,304	5,559,610	Columbia.....		40		1,600	850,124
Stanislaus.....	108	891	71	10,024,733	15,284,052	Dade.....		7,751	820	3,320,350	14,952,123
Sutter.....		166		101,767	350,247	De Soto.....		474	50	362,546	
Tahama.....		8		473,448	1,331,773	Dixie.....				121,000	
Tulare.....	5	1,245		3,668,456	3,522,808	Duval.....	235	38,588	7,236	8,122,245	15,781,765
Tuolumno.....		18	30	4,007,932	2,207,143	Escambia.....	1,078	70,287	594	428,636	4,022,097
Ventura.....		141	6,976	896,676	2,605,545	Flagler.....				8,334	
Yolo.....	4	11	20	142,789	1,558,569	Franklin.....	8	141		180,511	177,165
Yuba.....		4,856		1,228,623	1,408,320	Gadsden.....	16	311	45	59,113	123,000
COLORADO.....						FLORIDA.....					
	42,526	2,270,429	578,333	10,796,844	84,081,808	Glades.....			28	7,820	2,100
Adams.....	5	35,348	404		1,299,496	Gulf.....			800	259,000	6,793
Alamosa.....	85	7,728			534,473	Hamilton.....				20,000	110,380
Arapahoe.....		3,855	1,457	128,910	1,546,010	Hardee.....			28	27,454	192,752
Archuleta.....		66		11,927	740,550	Hendry.....				235,820	
Bent.....	28	1,657	50		698,023	Hernando.....				88,702	
Boulder.....	940	47,978	2,648	113,086	1,149,033	Highlands.....		12		47,240	67,240
Chaffee.....		7,700		416	698,023	Hillsborough.....	30	68,748	8,337	5,061,129	14,176,033
Conejos.....		384			69,700	Holmes.....		350			
Costilla.....		24	238		11,200	Indian River.....			2	2,290	170,740
Crowley.....	12	7,484			694,084	Jackson.....	11	55			170,740
Delta.....	24	9,444		2,690	136,726	Jefferson.....					232,709
Denver.....	14,460	309,631	10,229	2,579,159	37,253,147	Lake.....		0		43,102	998,806
Douglas.....		11,220	52		1,663	Lee.....	633	891	220	137,990	1,792,069
Eagle.....		27,847	1,682	63,649	1,796,410	Leon.....	119	2,902	737	125,860	499,585
El Paso.....	3,978	108,630	286	2,459,237	5,716,817	Levy.....		437		960,000	8,505
Fremont.....	19,629	2,192			69,877	Liberty.....				700	
Garfield.....	172				24,933	Madison.....				25,000	183,333
Grand.....	80				96,160	Manatee.....			722	898,458	386,515
Gunnison.....	25	366			2,163,588	Marion.....	42	875	377	68,570	1,032,267
Huerfano.....		993			8,740	Martin.....				24,000	19,250
Jefferson.....		13,940		178,812	3,571,207	Monroe.....		2,539	700	269,173	274,744
Kit Carson.....		9			3,702,176	Nassau.....		160	52	204,300	613,610
Lake.....	1,911	2,957	10,670		2,205,797	Okaloosa.....				158	106,995
La Plata.....	509	16,244	7,058	207,816	42,788	Okeechobee.....					731,865
Larimer.....	15	91,020	3,499	2,000	578,967	Orange.....		248	3,066	990,135	4,240,021
Las Animas.....		271,376	241	44,093	808,088	Osceola.....				36,260	85,497
Lincoln.....	0	355			267,753	Palm Beach.....		1,697	2,928	871,979	3,444,870
Logan.....	98	26,761	1,099	20,560	95,000	Pasco.....				600	260,393
Mesa.....		11,349	108		104,623	Pinellas.....		1,998	5,815	1,597,943	6,980,723
Moitaf.....		212			390,832	Polk.....		5,030	886	1,166,930	5,207,981
Montezuma.....		9,000		1,676,598	1,098,747	Putnam.....	5	239	60	144,633	599,945
Montrose.....		616			17,000	St. Johns.....		1,531	452	244,118	2,237,915
Morgan.....	111	44,069	1,540	2,175	1,063,228	St. Lucie.....		404		71,498	1,783,270
Otero.....	38	69,268	1,178	36,623	12,060,618	Santa Rosa.....		2,400			39,000
Phillips.....		60			2,665	Sarasota.....			90	5,000	196,286
Prowers.....	30	11,414		46,938	72,625	Seminole.....		3,452	442	107,359	6,134,545
Pueblo.....	284	963,540	532,281	1,669,721	44,900	Sumter.....		2,080		220,000	75,125
Rio Blanco.....		55			20,800	Suwannee.....			50		67,253
Rio Grande.....	10	1,083	68		6,601	Taylor.....		30		556,240	
Routt.....		2,905			15,700	Volusia.....	35	1,781	70	881,847	3,217,812
Saguache.....			11		14,073	Walton.....		117			19,647
San Miguel.....					15,700	Washington.....					214,901
Sedgwick.....		25,545	900	297	1,504,095	GEORGIA.....					
Teller.....		145			27,833		24,228	1,153,514	34,942	32,167,801	646,917,748
Washington.....			26			Appling.....					6,800
Weld.....	73	126,602	3,127	1,562,940	1,504,095	Atkinson.....		29		100	
Yuma.....	6	42		290	27,833	Baldwin.....	8	10,908			577,022
Other counties (Clear Creek, Custer, Ouray, and Pitkin).....		135			13,638	Barrow.....	70	2,265			1,599,553
CONNECTICUT.....						CONNECTICUT.....					
	101,883	2,479,365	189,122	81,423,755	634,837,747	Barwick.....		1,630			6,464,536
Fairfield.....	38,907	405,028	37,844	25,591,795	123,441,207	Ben Hill.....		43,854		2,225	66,428
Hartford.....	19,027	386,224	38,772	18,253,265	226,600,350						

* See footnote, p. 193.

FUEL AND ELECTRIC ENERGY CONSUMED

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TABLE 7.—CONSUMPTION OF SELECTED KINDS OF FUEL AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY, BY QUANTITY, BY COUNTIES: 1929—Continued

(See note at head of table)

COUNTY	COAL		COKE (tons, 2,000 lbs.)	FUEL OILS (including crude oil and gas oils used as fuel) (gallons)	PURCHASED ELECTRIC ENERGY (kilowatt- hours)	COUNTY	COAL		COKE (tons, 2,000 lbs.)	FUEL OILS (including crude oil and gas oils used as fuel) (gallons)	PURCHASED ELECTRIC ENERGY (kilowatt- hours)
	Anthra- cite (tons, 2,240 lbs.)	Bitumi- nous (tons, 2,000 lbs.)					Anthra- cite (tons, 2,240 lbs.)	Bitumi- nous (tons, 2,000 lbs.)			
GEORGIA—Contd.						GEORGIA—Contd.					
Barren		10			4,400	Putnam		1,173			3,186,600
Bibb	427	85,021	2,274	2,088,308	31,051,829	Randolph		7			12,477
Bleckley		1,578			13,781	Richmond	584	68,770	1,974	802,129	28,205,398
Brantley				10		Rockdale		715			1,047,012
Brooks		4,580	13	26,000	492,454	Schley					22,400
Bryan				110		Screven		25		16,738	16,250
Bulloch		16		285		Seminole		127		1,800	3,680
Burke		14	30	1,000	146,990	Spalding		23,274	52	49,970	18,000,611
Butts		706			1,434,600	Stephens		2,240		20,000	1,506,275
Calhoun		65			73,812	Stewart					6,848
Camden		25		121,000		Sumter	5				365,761
Campbell		778		3,600	1,083,600	Talbot	55	6,674	50		28,525
Carroll	8	12,061		360	5,389,733	Taliaferro					3,125
Charlton				39,500		Tattnall				5,580	3,900
Chatham	802	37,261	4,175	14,187,742	25,990,761	Taylor		79			1,248,100
Chattooga		9,283			19,505,755	Telfair		641		23,020	200,183
Cherokee		7,370			7,839,295	Terrell		4,593		2,500	18,769
Clarke	68	10,915	544		12,263,517	Thomas		3,522	409		942,225
Clay		413			3,850	Tift	216	1,600	29		1,514,328
Clayton		75			8	Toombs		1,307		1,200	167,253
Clinch		40			97,734	Towns		20			8,333
Cobb	53	6,235	1,225	76,560	5,993,197	Trautman					45,709,497
Coffee		2,334			7,839,295	Troup		25,923	1,456	142,300	60,260
Colquitt		12,775	40	17,820	1,191,119	Turner	61				40,473,285
Columbia	100	6,672			135,125	Upson	2,270	3,597			7,700,517
Cook					11,445,049	Walker	5	68,604	475	14,000	8,523,328
Coweta	1,680	10,850	325	500	289,293	Walton		3,133			4,129,062
Crisp	73	4,913	26	3,067	990,434	Ware		9,074	95		806
Decatur		90	160		2,440,992	Warren					26,900
De Kalb	155	9,262	46	28,000	1,420,077	Washington		1,240		3,450	1,900
Dodge	2,000	450		475	17,072	Wayne	5			300	
Dooly		24		800	3,306,803	Wheeler				240	
Dougherty	15	7,319	1,605	240,169	10,730	Whitfield	85	14,150	14	40,600	13,435,544
Douglas		4,551			3,600	Wilcox		60		1,990	30,010
Early	93				6,600	Wilkes		1,553			7,500
Effingham					3,902,147	Wilkinson	2				472,260
Elbert		4,331			53,841	Worth					700,000
Emanuel		21		53,841	18,820	IDAHO					
Evans		10		2,567	16,250	Ada	36	7,782	219	24,000	3,177,561
Fayette				300		Adams	4				59,640
Floyd	60	38,682	2,288	117,206	28,717,182	Bannock	362	26,755	252	42,542	8,993,074
Forsyth	4			2,500		Bear Lake	9	1,260			186,140
Franklin		1,999			4,693,626	Benewah	8	1,977		50,000	362,896
Fulton	9,921	275,823	11,624	5,377,510	86,859,390	Bingham		10,699	696		448,000
Gilmer		225		39,893		Bonner		2,800		197,000	1,401,029
Glynn	8	12,129	33	6,936,608	749,448	Bonneville		12,962	747		603,604
Gordon	5	14,240			1,020,554	Boundary		100			42,050
Grady		94		10	17,822	Butte	2	103			45,492
Greene		2,408			4,657,550	Canyon	24	7,768	107	12,612	4,429,694
Gwinnett	6	6,421			2,454,372	Cassia	5	3,370	107		500,575
Habersham		439			14,370	Clearwater		2,200			241,936
Hall		7,874	75	314,375	24,285,387	Elmore		3,239			500,660
Hancock		939			46,700	Franklin	334	8,042		4,726	126,750
Haralson		5,000			1,200	Fremont	100	150			19,970
Hart	11	1,875			54,649	Gem		282			303,583
Henry	536	92	320		1,630,522	Gooding		448			126,869
Houston		58,769			7,940	Idaho					194,722
Irwin		3,500		1,600	161,340	Jefferson		2,894	111		126,300
Jackson		958			2,652,541	Jerome		1,658			540,690
Jasper		99		400	162,753	Kootenai		165			264,299
Jeff Davis				800	180,000	Latah	50	9,699			710,283
Jefferson		30		7,000	28,768	Lemhi		160			83,242
Jenkins		2,557			25,444	Lewis	6				800
Johnson				50,000	4,000	Lincoln		13			10,533
Jones		135		5,300		Madison	180	8,926	481	240	303,500
Lamar		2,551			5,910,164	Minidoka		291			160,587
Laurens		3,525	90	300	428,916	Nez Perce	95	4,243		53,600	22,294,834
Liberty		355		19,590	625	Oneida		120			261,466
Lincoln		1,030			2,398,557	Payette		3,253		36,340	475,040
Lowndes	71	8,098	583	820	10,160	Power		65			11,720
McDuffie	300	1,885			3,000	Shoshone	223	10,899	21,075	726,107	12,223,631
McIntosh		700			215,002	Teton	200	125			22,983
Macon	720	2,259			63,240	Twin Falls	10	4,107	60	40,500	1,802,211
Madison		210			2,045	Valley		652			17,787
Marion		12,644	200	70,000	295,498	Washington		450			689,000
Mertwether	39	11,554			689,680	ILLINOIS					
Mitchell		200			3,267,900	Adams	762	129,426	6,475	524,404	14,370,780
Monroe	492	300			7,000	Alexander		13,708	356	54,678	3,021,314
Montgomery					28,768	Bond	430	8,922	130	248,300	1,448,370
Morgan					25,444	Boone	972	23,534	1,062	240,579	488,530
Murray					4,000	Other counties (Blaine, Camas, Caribou, Clark, and Custer)¹					
Muscogee	1,058	61,493	4,738	585,130	88,701,146			49		3,000	41,300
Newton		3,240	56		28,533,886		353,536	19,919,108	5,018,738	468,362,543	2,120,376,599
Oglethorpe	280			25,000							
Paulding		1,717			1,059,935						
Peach	87	1,077		178,000	63,315						
Pickens		796			5,215,000						
Pierce					172,545						
Pike	10	204		18,950	27,691,393						
Polk	1,742	47,842	28		22,325						
Pulaski	8	1,575		90							

¹ See footnote, p. 193.

TABLE 7.—CONSUMPTION OF SELECTED KINDS OF FUEL AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY, BY QUANTITY, BY COUNTIES: 1929—Continued

[See note at head of table]

COUNTY	COAL			FUEL OILS (including crude oil and gas oils used as fuel) (gallons)	PURCHASED ELECTRIC ENERGY (kilowatt-hours)	COUNTY	COAL			FUEL OILS (including crude oil and gas oils used as fuel) (gallons)	PURCHASED ELECTRIC ENERGY (kilowatt-hours)
	Anthracite (tons, 2,240 lbs.)	Bituminous (tons, 2,000 lbs.)	Coke (tons, 2,000 lbs.)				Anthracite (tons, 2,240 lbs.)	Bituminous (tons, 2,000 lbs.)	Coke (tons, 2,000 lbs.)		
ILLINOIS—Contd.						ILLINOIS—Contd.					
Brown		34	20		18,575	Will	695	1,778,603	312,730	10,713,286	36,024,654
Bureau	14,872	109,203	8,290	58,956	4,571,702	Williamson		10,504	200		1,377,307
Calhoun					650	Winnebago	5,785	320,945	9,820	3,617,533	40,962,457
Carroll	16	10,182	600	128,600	1,420,331	Woodford	5	4,087		12,000	142,710
Cass		12,633		18,298	1,493,355	INDIANA					
Champaign	92	47,488	1,071	2,227,210	4,585,062	Adams	90	19,401	3,012	7,000	3,458,251
Christian		28,703		536	2,006,196	Allen	401	243,255	9,520	4,140,930	87,950,015
Clark	16	1,419	140		245,916	Bartholomew	41	10,124	831	233,586	3,944,866
Clay		6,428	100		132,976	Benton		649			136,580
Clinton	625	44,203	512	563,500	593,790	Blackford		67,442	506	490,230	3,488,109
Coles	29	31,575	1,144	409,272	2,530,364	Boone	12	11,585	186		780,438
Cook	168,939	9,632,892	4,026,377	203,547,318	1,895,257,709	Carroll	5	1,461	70	32,500	84,644
Crawford		35,544	188	4,059,416	1,910,889	Cass	247	20,834	2,658	29,167	2,371,340
Cumberland		58		12,450	23,300	Clark	84	135,570	1,943	701,948	3,579,004
De Kalb	73	57,403	2,897	486,320	4,751,407	Clay		210,281	145	340,767	4,800,631
De Witt	10	19,847	26	118,586	760,081	Clinton	140	24,554	626	743,927	3,806,700
Douglas		4,152	483		223,401	Crawford		24,453			17,825
Du Page	54	28,535	263	58,589	3,574,232	Daviess	20	19,977	27		1,305,398
Edgar		6,454	147	1,130	999,037	Dearborn	1,407	53,774	1,363	94,551	1,541,100
Edwards		20,356	40		491,754	Decatur		5,012	20	82,732	817,503
Efingham	12	5,247	193		2,311,519	De Kalb	88	14,394	2,012	184,583	2,411,207
Fayette		13,920	161	1,638	1,109,407	Delaware	8	197,170	5,945	2,067,594	50,883,212
Ford	6	2,892	410	70,050	483,557	Dubois		20,168	90	730	1,507,655
Franklin	20	4,609	5		935,903	Elkhart	970	122,354	3,837	898,437	20,209,052
Fulton	15	32,866	1,657	2,134,862	1,363,457	Fayette		2,122		870,382	3,708,235
Gallatin		107		3,000	7,600	Floyd	250	68,378	1,319	277,906	3,120,230
Greene	15	26,410	30	6,484	1,706,308	Fountain	5	29,788	362	1,446,513	25,007
Grundy	28	48,066	750		1,503,147	Franklin	2	10,137			801,035
Hamilton		4,009		15,400	81,176	Fulton	125	4,724	210	48,066	1,580,576
Hancock		1,566		20,955	168,489	Gibson	348	24,695	443	227,101	19,501,337
Henderson		24	8	200	8,358	Grant	8,233	134,701	6,774	2,322,501	822,753
Henry	1,136	34,562	0,142	2,305,329	2,264,678	Greene		14,193	213	1,000	1,347,748
Iroquois	100	61,478		53,220	874,007	Hamilton		30,560	1,591	777,926	1,347,748
Jackson	40	40,208	165		2,768,980	Hancock		8,691	30	24,000	77,503
Jasper		43			62,200	Harrison		15,058		14,700	1,997,524
Jefferson	12	34,026	5,636	789,519	3,730,210	Hendricks		740			103,624
Jersey		17,710			648,729	Henry	162	82,656	2,643	3,700,859	23,748,999
Jo Daviess		10,273	502	39,966	5,825	Howard	8,490	250,172	10,090	13,508,051	40,126,240
Johnson	56	10,473			5,825	Huntington	1,158	19,129	584	1,203	3,416,500
Kane	1,635	136,310	12,855	3,232,163	17,802,065	Jackson	621	33,872	900	35,060	1,424,080
Kankakee	396	80,400	1,719	966,014	6,450,505	Jasper	15	140			80,050
Kendall		458	513	150,600	494,643	Jefferson	128	52,500	175	1,095,330	6,573,950
Knox	704	89,906	2,530	2,938,751	15,991,959	Jennings	3,028	8,952	169	591,232	252,896
Lake	563	476,018	23,093	4,146,327	36,285,777	Johnson		815	42	18,356	1,760,004
La Salle	75,185	1,161,704	10,096	8,357,817	10,142,429	Knox	200	11,005	2,179	18,550	1,958,126
Lawrence		67,626	455	24,737,888	6,025,661	Kosciusko	72	17,614	1,518	2,423	1,322,723
Lee	200	122,891	682	679,141	2,761,221	Lake	28,080	10,668,630	4,174,886	239,644,315	363,970,672
Livingston	18,583	28,733	204	10,561	785,010	La Porte	969	87,401	14,133	3,008,051	8,940,619
Logan	8	12,651	102	26,618	1,964,839	Lawrence	22	143,580	194	176,854	15,543,038
McDonough	340	44,285	481	203,713	3,748,330	Madison	450	308,779	22,906	4,498,399	20,090,604
McHenry	1,779	19,893	713	149,611	5,648,502	Marion	10,961	1,801,046	74,321	6,289,930	138,478,226
McLean	221	49,568	2,185	1,567,131	14,763,786	Marshall	12	6,801	3,350	62,793	1,803,603
Macon	176	362,085	8,853	7,899,018	409,353	Martin		2,354			368,500
Macoupin	90	3,442	199	54	122,196,131	Miami	13	24,310	112	62,230	2,056,221
Madison	379	1,868,528	464,797	121,890,651	122,196,131	Montgomery	213	50,371	3,894	42,803	12,792,286
Marion	564	34,927	821	467,199	2,503,731	Morgan	15	33,899	50	3,180	4,885,464
Marshall	20	14,299		9,600	833,901	Morgan	60	6,801			2,111,765
Mason	8	1,377	329	307,962	731,606	Noble	26	9,433	1,207	2,640	99,100
Massac	4	1,805	276	3,600	466,800	Ohio		6,826		6,000	1,361,089
Menard		3,242			65,704	Orange		144			20,389
Mercer		17,167		3,600	405,150	Parke		81,616			18,419
Monroe	136	2,764	12	10,813	355,338	Perry	302	35,483	96		103,728
Montgomery	32,623	47,179	3,815	318,581	4,530,504	Pike	85	1,107	30	350	780,885
Morgan	211	0,648	1,108	154,551	2,133,970	Porter	14	4,123	69	367,812	92,753
Moultrie	5	84			145,085	Posey	23	38,844	93		2,039,196
Ogle		16,079	741	145,440	5,154,550	Pulaski	212	620	57		188,830
Peoria	180	509,300	14,954	14,420,523	57,711,025	Putnam	3,586	111,768	20		32,501,140
Perry		11,209	60	679,842	2,210,999	Randolph	17,300	6,698	382	400,051	1,542,661
Platt		1,870		4,760	82,363,651	Ripley	65	46,291	450	37,024	1,599,788
Pike	8	1,641		54,616	903,024	Rush	3	321,043	32,433	11,487,025	40,920,129
Pope		1,172			13,768,383	St. Joseph	3	5,876	60	8,500	323,568
Pulaski	80	10,340		82,675	1,067,673	Scott	55	23,792	1,791	240,281	2,520,421
Putnam		16,816		20,000	160,128	Shelby		13,305		160	162,788
Randolph	324	4,492			6,258,832	Spencer		1,417	199	244,950	144,573
Richland		214			31,319,323	Starke		4,491	135		402,162
Rock Island	285	218,177	22,024	8,801,933	1,432,251	Steuben		4,323		5,500	10,000
St. Clair	15,823	899,884	30,636	27,647,991	11,130,679	Sullivan	4	72,543	784	895,487	10,496,236
Saline		4,626			317,915	Switzerland	5	8,988	125	6,000	1,081,325
Sangamon	639	89,333	2,034	1,987,372	426,523	Tipton	45	542	94	25,239	44,250
Schuyler	9	1,154			318,285	Union	405	249,909	5,466	2,683,721	25,695,203
Scott	20	12,787			232,985	Vanderburg	2,622	31,932	4,694	1,714,863	643,176
Shelby		4,140	520	60,609	524,843	Vermillion		729,721	4,694		10,287,650
Stark		823			3,198,505	Vigo	11,356	38,616	1,500	8,466	6,553,113
Stephenson	172	51,921	3,125	599,861		Wabash		20			8,506
Tazewell		279,978	2,458	2,305,831		Warren					
Union		1,995	60	4,470							
Vermilion	6,665	291,365	1,883	999,293							
Wabash	20	27,494	890	79,471							
Warren	31	18,697	100	9,840							
Washington	5	1,011	350	4,270							
Wayne		2,011		31,796							
White	41	1,641									
Whiteside	37	65,974	3,880	1,284,468							

CENSUS OF MANUFACTURES: 1929

TABLE 7.—CONSUMPTION OF SELECTED KINDS OF FUEL AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY, BY QUANTITY, BY COUNTIES: 1929—Continued

[See note at head of table]

COUNTY	COAL		COKE (tons, 2,000 lbs.)	FUEL OILS (including crude oil and gas oils used as fuel) (gallons)	PURCHASED ELECTRIC ENERGY (kilowatt-hours)	COUNTY	COAL		COKE (tons, 2,000 lbs.)	FUEL OILS (including crude oil and gas oils used as fuel) (gallons)	PURCHASED ELECTRIC ENERGY (kilowatt-hours)
	Anthracite (tons, 2,240 lbs.)	Bituminous (tons, 2,000 lbs.)					Anthracite (tons, 2,240 lbs.)	Bituminous (tons, 2,000 lbs.)			
KANSAS—Continued.					KENTUCKY—Contd.						
Russell.....		15		74,400	83,640	Meade.....		458		12,500	214,903
Saline.....	303	4,893	116	406,619	9,436,450	Mercer.....		765		2,200	
Sedgwick.....	99	3,237	1,319	8,128,105	21,009,111	Monroe.....					279,970
Seward.....		200		283,302	283,302	Montgomery.....		99	128		483,493
Shawnee.....	283	20,139	432	3,567,521	10,480,820	Muhlenberg.....		3,721		10,000	7,103
Sherman.....		8,551		2,000	91,241	Nelson.....		113	24		109,070
Smith.....		55		3,120	248,650	Nicholas.....		110		1,200	5,293
Stafford.....	10	53		89,543	162,497	Ohio.....		485	190	0,000	16,200
Sumner.....	4	654		158,062	112,402	Pendleton.....		50			316,154
Thomas.....		6		13,902	13,902	Perry.....		1,070	50		158,283
Wabunsee.....		17		2,010	15,600	Pike.....		8,999			
Washington.....		474	30	1,220	244,118	Powell.....		550			
Wilson.....		1,772	992	8,866,052	1,755,756	Pulaski.....	134	11,557			2,012,326
Woodson.....				6,019	6,019	Rockcastle.....		3,406			55,740
Wyandotte.....	988	234,806	6,386	21,219,520	67,538,479	Rowan.....	55	46,198		850	949,160
Other counties (Gove, Haskell, Grant, Meade, Ness, Sheridan, Trego, Wallace, and Wichita) 1	54	1,525	60	1,000	76,503	Scott.....		95		9,000	12,178
						Shelby.....		2,501		7,335	107,472
						Simpson.....	200	37			277,715
						Taylor.....		142			110,130
						Todd.....		3,922			103,330
						Trigg.....				2,000	20,000
						Union.....		510		15,123	117,800
						Warron.....	1,893	10,796		8,520	875,000
						Washington.....		84		0,883	140,640
						Wayne.....		12		8,335	420
						Webster.....		300		8,000	0,000
						Whitley.....		18,429	90		1,083,540
						Woodford.....	17	1,010			39,450
						Other counties (Boone, Livingston, Oldham, Owen, Robertson, Spencer, and Trimble) 1			34	220	16,117
											13,050
KENTUCKY	9,484	2,008,641	259,477	27,655,917	271,700,501						
LOUISIANA						4,598	204,274	10,344	189,646,864	252,675,049	
Acadia.....						Acadia.....	14	96	32	374,403	451,826
Allen.....						Allen.....					9,251,207
Ascension.....						Ascension.....	303	525	30	614,807	78,724
Assumption.....						Assumption.....	264	842		2,797,560	103,248
Avoynes.....						Avoynes.....	114	1,750		229,080	700,663
Beauregard.....						Beauregard.....		2,292	100	226,134	804,923
Bienville.....						Bienville.....		2,200			291,250
Bossier.....						Bossier.....		1,200			5,740,060
Caddo.....						Caddo.....	100	171	941	2,037,073	13,432,871
Calcasieu.....						Calcasieu.....	6	1,849	2,029	1,711,072	2,024,320
Caldwell.....						Caldwell.....				720,005	
Catahoula.....						Catahoula.....				40,425	5,000
Claborn.....						Claborn.....				157,800	601,540
Concordia.....						Concordia.....		1,602		62,000	
De Soto.....						De Soto.....			297	108,260	56,742
East Baton Rouge.....						East Baton Rouge.....	123	0,018	577	43,381,290	4,166,135
East Carroll.....						East Carroll.....		3,680			31,034
East Feliciana.....						East Feliciana.....		300			
Franklin.....						Franklin.....		1,090			169,425
Grant.....						Grant.....		203			1,980
Iberia.....						Iberia.....	54	552	75	3,887,334	2,011,932
Iberville.....						Iberville.....	3	1,427		2,941,642	44,050
Jackson.....						Jackson.....		110		70,000	1,400,000
Jefferson.....						Jefferson.....		8,104	2,873	23,945,800	53,475,650
Jefferson Davis.....						Jefferson Davis.....				80,855	87,258
Lafayette.....						Lafayette.....		47	661	2,084,075	422,010
Lafourche.....						Lafourche.....	125	1,003	25	5,070,258	58,537
La Salle.....						La Salle.....		500		759,686	10,800
Lincoln.....						Lincoln.....				37,500	217,080
Livingston.....						Livingston.....					66,350
Madison.....						Madison.....		15			291,796
Morehouse.....						Morehouse.....		754			66,868,599
Natchitoches.....						Natchitoches.....	7	124		67,204	136,481
Orleans.....						Orleans.....	1,762	38,880	2,203	25,982,886	73,441,893
Ouachita.....						Ouachita.....		2,250	41	1,391,788	1,529,735
Plaquemines.....						Plaquemines.....		203		11,247,600	11,100
Pointe Coupee.....						Pointe Coupee.....		513		333,770	2,750
Rapides.....						Rapides.....		332	219	527,090	1,410,205
Richland.....						Richland.....		630		26,493	142,849
Sabine.....						Sabine.....				48,000	5,400
St. Bernard.....						St. Bernard.....		5,988		13,747,976	3,325,201
St. Charles.....						St. Charles.....		211		27,092,429	3,153,711
St. James.....						St. James.....	103	3,067		834,094	5,000
St. John the Baptist.....						St. John the Baptist.....	8	16,942	2	812,817	626,050
St. Landry.....						St. Landry.....	8	209	160	865,173	210,204
St. Martin.....						St. Martin.....		40		1,080,416	54,480
St. Mary.....						St. Mary.....	60	2,229	77	5,123,423	1,102,683
St. Tammany.....						St. Tammany.....		8,695	12	713,450	665,390
Tangipahoa.....						Tangipahoa.....	10	1,238		310,000	1,933,029
Tensas.....						Tensas.....					103,172
Terrebonne.....						Terrebonne.....	800	400		4,043,549	218,250
Union.....						Union.....		1,039		123,000	
Vermillion.....						Vermillion.....	17	2		455,043	108,694
Vernon.....						Vernon.....				400,000	82,280
Washington.....						Washington.....		80,927			915,194
Webster.....						Webster.....		2,172		30,109	116,149

1 See footnote, p. 193.

CENSUS OF MANUFACTURES: 1929

TABLE 7.—CONSUMPTION OF SELECTED KINDS OF FUEL AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY, BY QUANTITY, BY COUNTIES: 1929—Continued

[See note at head of table]

COUNTY	COAL		COKE (tons, 2,000 lbs.)	FUEL OILS (including crude oil and gas oils used as fuel) (gallons)	PURCHASED ELECTRIC ENERGY (kilowatt-hours)	COUNTY	COAL		COKE (tons, 2,000 lbs.)	FUEL OILS (including crude oil and gas oils used as fuel) (gallons)	PURCHASED ELECTRIC ENERGY (kilowatt-hours)
	Anthracite (tons, 2,240 lbs.)	Bituminous (tons, 2,000 lbs.)					Anthracite (tons, 2,240 lbs.)	Bituminous (tons, 2,000 lbs.)			
MINNESOTA—Contd.						MISSISSIPPI—Contd.					
Jackson	30	2,117	32		179,063	Lafayette		110		22,320	126,000
Kanabec	38	344		49,276	119,393	Lamar		2,800			203,260
Kandiyohi	85	7,102	207	32,043	351,007	Lauderdale	434	30,322	407	64,000	4,338,562
Kittson	8	318			53,800	Leake		250			27,140
Koochiching	9	117,295	20		12,109,635	Lee	24	6,250	373		3,503,551
Lac qui Parle	32	873		29,954	222,712	Leflore	173	23,800	28	20,000	901,289
Lake	30	11,696	110	33,381	44,500	Lincoln	330	5,572			1,219,182
Lake of the Woods		56			4,032	Lowndes		21,722	106	48,000	1,185,448
Le Sueur	193	21,509	56	185,000	1,684,167	Madison		1,883		60,850	76,185
Lincoln	171	164		9,055	49,113	Marion		62	8		1,004,722
Lyon	91	5,516	94		465,216	Marshall	250			19,180	33,530
McLeod	10	3,844	246	14,800	534,412	Mourou	6	2,459		24,000	152,070
Mahnomen		243			34,550	Montgomery		4,708	16		123,640
Marshall		464			170,301	Neshoba		6,309			278,200
Martin	226	3,210	308	170,423	1,139,528	Newton		6,125		14,000	202,084
Meeker	318	1,986	60	1,820	236,097	Noxubee		3,002			156,880
Miller Lacs	276	653			207,633	Oktibbeha		3,368	45		286,238
Morrison		9,892	50	4,833	7,261,652	Panola		3,013	18	7,120	120,300
Mower	80	36,695	1,549	250,695	578,373	Pearl River		3,425		600	272,898
Murray		427		4,550	14,290	Ferry					153,000
Nicollet	70	1,755	37	200	201,812	Pike	280	27,785		120,440	2,292,078
Nobles		1,295	131		232,848	Pontotoc	433	3,510		2,000	32,300
Norman	159	734		155	114,702	Prentiss		1,315		10,264	66,446
Olmsted	182	17,146	2,125	283,845	1,084,554	Quitman				12,680	60,000
Oter Tail	337	4,083	167		1,264,764	Rankin		6,695			520,409
Pannington	71	3,083			181,770	Scott		4,497			
Pipestone	170	1,146	20	18,153	314,217	Sharkey		1,010		20,749	10,438
Polk	445	10,626	737	26,000	467,055	Simpson		2,700			108,700
Pope	170	3,273	100	40,046	1,466,258	Smith				45,000	100,000
Ramsey	1,870	795,729	23,877	2,885,475	283,725	Stone		3,443		18,660	73,281
Rad Lake	118	256			49,236,480	Sunflower		3,169	143	29,000	1,532,474
Redwood	10	2,673	106	55,468	55,468	Tallahatchie		9,606		94,286	68,080
Renville	220	1,221			299,683	Tate		23			63,200
Rice	653	21,843	517	12,240	1,013,413	Tippah		110			
Rock		436	52		1,298,940	Tishomingo	4	2,000			2,500
Rosau		204			163,816	Tunica		1,257			300,000
St. Louis	701	905,898	367,094	2,474,847	15,234	Union		1,175		41,860	110,274
Scott	85	1,160	850		77,739,698	Walthall	3			456	4,000
Sherburne		1,273			2,022,009	Warren	41	23,201	1,755	366,504	1,523,963
Sibley	357	1,510	37		128,170	Washington	35	22,751	63	324,802	2,287,608
Stearns	2,393	19,582	257	591,885	256,161	Wayne		779		500	8,150
Steele	365	3,862	797	167,797	11,850,379	Wilkinson		22			7,800
Stevens	21	459	60		528,759	Winston		12,521	8		904,274
Swift	2,077	884	75		160,018	Yalobusha		3,844	315	18,338	130,804
Todd	265	9,681		6,112	290,744	Yazoo	7	4,220		62,108	827,815
Traverse		239			494,746						
Wabasha	340	3,877	1,079	13,788	71,930						
Wadena	306	1,062	40		2,383,962						
Waseca	128	3,334	24	80,130	331,579						
Washington	465	30,531	390	315,479	3,006,984						
Watsonwan	40	3,196	29		12,761,675						
Wilkin		5,481			828,654						
Winona	413	46,023	1,554	69,633	267,410						
Wright	418	3,211		20,280	8,725,368						
Yellow Medicine	51	487			516,240						
					88,124						
MISSISSIPPI						MISSOURI					
Adams	3,928	514,003	9,095	7,536,758	69,812,404	Adair		4,244	329	106,065	296,604
Alcorn		1,199	20	81,000	530,026	Andrew	12	30			10,484
Amite		13,510	134	21,000	830,659	Atchison	26			1,140	126,020
Attala	7	2,400			625,000	Audrain		95,654	528	3,944,520	8,476,148
Bolivar		12,580			935,161	Barry		821		12,000	723,798
Calhoun		5,160	100	60,360	129,560	Barton		708	40	689,919	491,876
Carroll					5,640	Bates	24	1,909		150	100,609
Chickasaw		5			20,000	Benton		7			16,750
Choctaw		2,753		4,000	94,381	Bollinger		1,215		12,000	12,000
Claiborne		11		480	10,176	Boone	298	9,416	436	363,710	1,761,015
Clarke		3,262		25,260		Buchanan	1,120	146,243	1,800	2,704,228	39,441,643
Clay		8,441		590	4,149,590	Butler	20	162	112	260	1,008,675
Coahoma		4,488	100		205,754	Caldwell		16			36,860
Copiah		13,323	129	74,760	1,568,445	Callaway		11,125		32,000	279,931
Covington		4,685		43,985	10,750	Cape Girardeau	224	135,945	660	73,718	1,862,583
Forrest		16,665	397	43,000	4,000	Carroll		465		10,500	630,576
Franklin		8,000			2,769,821	Cass	18	2,482	500	350	621,083
George		908			49,540	Cedar		62			127,409
Greene	38	25		250	42,817	Chariton	12	1,293		3,750	141,727
Grenada	18	13,024	30		58,800	Christian	18	434		10,000	96,400
Hancock	1,150				3,467,606	Clark	30	711	99	9,600	4,310
Harrison	313	25,072	2,138	589,228	8,463,001	Clay	629	83,778	1,075	1,205,012	14,980,132
Hinds	345	31,855	2,294	750,747	42,447	Clinton	193	465			114,673
Holmes		4,990			168,444	Cole	10	10,676	344	361,769	2,312,467
Humphreys		3,373	65		86,026	Cooper	8	5,207	244		400,743
Jackson		27,374	63	4,275,472	40,125	Crawford				7,800	900
Jasper		4,949		20,000	1,875	Dade					30,000
Jefferson				100		Dallas		90			11,400
Jefferson Davis		3			1,800	Davies		225	45	9,530	93,790
Jones	37	28,055	151	41,333	19,559,617	Dent				18,938	37,778
Kemper		11,381			2,250	Douglas		100			
						Dunklin	38	2,377	50	17,288	327,176
						Franklin	118	8,585	60	37,300	2,630,972
						Gasconade		2,362	53	60,999	294,825
						Gentry	13	2,982	35		64,130
						Greene	7,542	41,637	4,615	3,973,498	14,553,897
						Grundy	56	12,137	26	69,800	661,316
						Harrison		20			40,690
						Henry	5	8,364	60	3,787,512	515,836
						Hickory					18,000
						Holt		4			13,500
						Howard		6,014		312	263,587

FUEL AND ELECTRIC ENERGY CONSUMED

TABLE 7.—CONSUMPTION OF SELECTED KINDS OF FUEL AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY, BY QUANTITY, BY COUNTIES: 1929—Continued

[See note at head of table]

COUNTY	COAL		COKE (tons, 2,000 lbs.)	FUEL OILS (including crude oil and gas oils used as fuel) (gallons)	PURCHASED ELECTRIC ENERGY (kilowatt-hours)	COUNTY	COAL		COKE (tons, 2,000 lbs.)	FUEL OILS (including crude oil and gas oils used as fuel) (gallons)	PURCHASED ELECTRIC ENERGY (kilowatt-hours)
	Anthra-cite (tons, 2,240 lbs.)	Bitumi-nous (tons, 2,000 lbs.)					Anthra-cite (tons, 2,240 lbs.)	Bitumi-nous (tons, 2,000 lbs.)			
MISSOURI—Contd.						MONTANA—Contd.					
Howell	10	63		11,066	298,940	Lake		126		10,500	63,138
Iron					1,200	Lewis and Clark	81	39,736	36,573	409,425	19,494,124
Jackson	25,798	202,749	16,015	41,944,091	141,713,549	Lincoln		1,913		88,708	40,432
Jasper	895	53,467	9,738	287,076	16,943,365	Madison		72			1,560
Jefferson	220	120,638	16,242	373,384	49,451,945	Meagher		107			25,117
Johnson		9,645		35,090	133,423	Missoula	190	15,795	175	270,000	3,155,402
Knox	34	330		11,608	11,608	Musselshell	24	166	40		64,466
Laclede	46	306		1,017	124,042	Park	55	17,074			671,338
Lafayette	408	2,008	324	57,143	1,420,205	Pondera		72			68,055
Lawrence	61	6,879		8,000	749,182	Powell	82	1,316		344,943	1,746,117
Lewis		1,123	30		105,193	Ravalli		762			290,024
Lincoln	50	442		26,160	143,564	Richland		7,408	414	66,863	32,240
Linn	104	3,146	289	140,776	795,735	Roosevelt		40	25		16,300
Livingston	006	11,393	117	92,870	1,141,162	Sanders		4,074		30	112,359
McDonald		398			4,125	Sheridan		305			34,285
Macon	18	1,180	215	16,246	161,321	Silver Bow	105	18,707	910	614,220	3,583,177
Madison		310		120	3,360	Stillwater	2				8,034
Maries		150				Sweet Grass	8		47		12,000
Marion	47	44,225	2,094	11,883	6,704,776	Teton		80			58,500
Mercer		13			5,080	Toole		12		44,520	57,881
Miller		3,000		10,000	207,623	Valley		111	44		20,000
Mississippi		126	100		132,646	Wheatland		4,273		38,500	34,794
Moniteau	222	2,218		12,600	749,284	Yellowstone	160	44,286	1,107	2,013,112	2,911,902
Monroe		633		200	295,678	Other counties (Broadwater, Glacier, McCone, Golden Valley, Petroleum, Phillips, Prairie, Rosebud, and Wibaux) 1	6	854		2,000	1,967,942
Montgomery	13,700	6,220		96,088	96,088						
Morgan		463		8,000	86,918						
New Madrid		1,628		15,200	1,800						
Newton		8,071	72	1,600	591,979						
Nodaway	80	1,742	63	17,971	195,624						
Oregon		600			82,300						
Osage		301	31		48,000		3,586	690,082	99,877	22,625,798	127,627,506
Ozark					48,000						
Pemiscot	10	109	60		1,046,049	Adams	109	10,394	1,947	307,215	1,460,777
Perry	2	1,984	20		23,627	Antelope		117	26		103,303
Pettis	946	35,323	8	515,400	1,575,495	Boone	26	189			119,715
Phelps		927		2,100	101,180	Box Butte	50	2,288	100	1,317,000	546,841
Pike	372	23,849	438	59,227	262,303	Brown	57	123	68	218,463	192,708
Platte		104		10,810	335,450	Buffalo	185	847	625	141,651	1,048,679
Polk	83	197		4,520	170,438	Burt		1,156			104,100
Pulaski				4,520	8,400	Butler	24	412		4,825	144,450
Putnam		57			6,220	Cass		49,371	349	57,064	11,813,270
Ralls	10	106,453			45,410,283	Cedar		384	63	6,476	43,481
Randolph		16,895		180,760	2,232,363	Chase					6,080
Ray	5	1,352	16		86,633	Cherry					46,320
Reynolds		12			907	Cheyenne	4	2,664		61,462	246,663
Ripley				3,800	214,295	Clay	4	1,130		20,690	51,906
St. Charles	180	17,559	1,036	281,907	1,485,605	Colfax	20	1,373	5	21,834	40,912
St. Clair		11	960	2,400	203,750	Cuming		37	95	2,480	113,698
St. Francois	15	5,739	635	44,073	1,183,056	Custer	44	86	38	520	150,897
St. Louis	750	322,538	20,167	8,360,821	76,261,378	Dakota		51			7,254
St. Louis (city)	14,776	1,447,047	72,122	30,036,747	227,621,054	Dawes		584		1,049,846	488,475
St. Genevieve	160	83,894	3,700	12,000	1,395,685	Dawson	42	290	80		166,489
Saline	505	15,615	127	65,405	1,989,389	Deuel		11			1,102
Schuyler		20			3,100	Dixon		28	18		4,704
Scotland	10		50		15,020	Dodge	131	4,754	1,098	181,762	1,390,835
Scott	39	11,962	57	541,822	1,130,578	Douglas	1,095	240,450	61,500	10,303,494	79,052,338
Shannon					3,000	Dundy		12	9		3,400
Shelby		9	40	16,000	144,600	Fillmore		12			21,413
Stoddard	10	2,369	40	32,020	108,930	Franklin		45			67,600
Stone		825			7,420	Frontier			12		4,800
Sullivan		289			16,201	Furnas	7	163	105	4,799	169,793
Taney		3			3,080	Gage	146	8,963	1,567	160,322	2,459,908
Texas	437	327		79,360	161,500	Garden		6		208	2,300
Vernon		4,823	98	25,000	226,501	Grealey		84		2,000	28,029
Warren	18	280	24	67,280	67,280	Hall		23,418	2,232	886,886	2,207,863
Washington		49		7,520	36,750	Hamilton		1,121	125		375,489
Wayne	4	8		3,893	8,789	Harlan		729	800		258,605
Webster	17	696		9,800	138,786	Hitchcock		135		71,000	84,533
Wright	25	19		16,000	27,450	Holt	116	178			79,656
Other counties (Camden and Worth) 1		9			4,880	Howard	70	51	26		29,718
						Jefferson	40	12,399	75	97,831	894,732
						Johnson		103		24,300	38,140
						Kearney		198	50		66,809
						Keith		142	40		35,060
MONTANA	1,722	430,406	45,043	14,359,277	818,476,124	Kimball		37	102	17,490	18,200
Beaverhead	20	1,847		50	30,866	Knox		120	61	27,133	41,757
Big Horn		62			24,450	Lancaster	473	36,878	20,925	3,023,147	13,950,583
Blaine	12		232		148,330	Lincoln		19,310	138	156,661	631,607
Carbon	10	395			259,204	Madison		4,221	190	1,288,246	850,451
Carter		153				Merrick		734	290	57,460	141,329
Cascade	661	8,877	1,149	2,124,182	411,217,688	Morrill		23,488	488		110,062
Chouteau		75		40	5,620	Nance	14	158			10,384
Custer		12,708		275,129	317,958	Nemaha		82	52		146,788
Daniels		65	54	16,220	4,000	Nuckolls		69,486		12,100	529,346
Dawson		13,894			197,002	Otoe	6	10,078	624	1,949,865	452,512
Deer Lodge		154,693	4,145	5,718,534	353,670,195	Pawnee		76		7,000	29,340
Fergus	160	36,655	101	837,993	5,967,083	Perkins			40		32,000
Flathead	56	323		1,472,171	768,615	Phelps	39	170	149	3,750	473,493
Gallatin	50	26,785	74		9,413,123	Pierce		120			25,300
Granite		82			6,400	Platte	320	3,205	87	104,536	442,751
Hill	40	16,463		2,200	1,709,454	Polk	23				6,410
Jefferson		60			14,600	Redwillow	62	8,019	55	35,400	551,694
Judith Basin		33			327,700	Richardson		8,861	71	55,586	1,026,523

1 See footnote, p. 193.

FUEL AND ELECTRIC ENERGY CONSUMED

TABLE 7.—CONSUMPTION OF SELECTED KINDS OF FUEL AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY, BY QUANTITY, BY COUNTIES: 1929—Continued

[See note at head of table]

COUNTY	COAL		COKE (tons, 2,000 lbs.)	FUEL OILS (including crude oil and gas oils used as fuel) (gallons)	PURCHASED ELECTRIC ENERGY (kilowatt-hours)	COUNTY	COAL		COKE (tons, 2,000 lbs.)	FUEL OILS (including crude oil and gas oils used as fuel) (gallons)	PURCHASED ELECTRIC ENERGY (kilowatt-hours)
	Anthracite (tons, 2,240 lbs.)	Bituminous (tons, 2,000 lbs.)					Anthracite (tons, 2,240 lbs.)	Bituminous (tons, 2,000 lbs.)			
NORTH CAROLINA—Continued.						NORTH DAKOTA—Continued.					
Carteret	665	5,637	44	183,323	57,455	Hottinger	14	462			8,763
Catawba	28	21,796	59	3,050	18,873,908	McHenry		818			33,713
Chatham		12,125		16,690	2,145,335	McIntosh		2,050			4,870
Cherokee		12,053			139,542	McKenzie		150			640,012
Chowan		3,740			1,842,133	McLean	90			6,000	5,050
Clay				1,500		Morton	8	21,613			804,576
Cleveland	2,020	19,925	200		36,545,541	Mountrail	20	38	7		21,840
Columbus		9,011			649,891	Nelson	20	50	00		134,310
Craven	7	7,334	483	69,211	9,396,551	Pembina		146	207		42,142
Cumberland	12	9,720	584	71,221	9,476,763	Pierce		126	75	31,252	27,000
Davidson	677	26,699	90	64,760	30,793,915	Ramsey	9	4,783		29,003	372,292
Davie		6,804			2,374,800	Ransom		5,677	50		70,400
Durham	5,865	52,014	2,523	124,056	15,495,453	Richland		1,765	42		221,409
Edgecombe	20	22,522	850	895,015	12,877,454	Sargent	131				
Forsyth	578	109,558	1,074	187,622	17,595,086	Sheridan		121			50,895
Franklin	350	300			3,357,200	Stark	647	93,659	16		69,970
Gaston	1,062	58,003	661	104,814	221,392,108	Steele		191			13,161
Granville		1,858			1,436,050	Stutsman	200	14,750	12	77,678	471,352
Gulford	1,037	123,116	1,784	623,867	58,189,164	Trall		132			35,510
Halifax	126	38,521		88,100	39,227,460	Walsh		363		90	133,953
Harnett	14	10,433	105		11,634,048	Ward	107	29,289	100	56,340	955,050
Haywood		242,344		3,000	5,229,368	Wells		3,838	46		43,893
Henderson		21,980	185	12,456	3,346,730	Williams		8,141	70		186,238
Hertford				10,000	7,250	Other counties (Bowman, Dunn, Golden Valley, Grant, Griggs, Kidder, La Moure, Logan, Mercer, Oliver, Rolette, Sioux, and Slope)					
Hoke		1,494			867,996						
Iredell	340	21,695	580	69,389	16,190,947						
Jackson		46,156			1,179,000						
Johnston	258	4,058		5,000	10,292,310						
Jones					12,000						
Lee	25	30,744	50	30,000	3,095,092						
Lenoir	7	5,366	550	91,636	914,509						
Lincoln	425	13,466	24	114,017	11,151,255						
McDowell		29,382	100		5,421,416						
Macon		871			30,086						
Madison					5,800						
Martin	3	15		8,011	86,220						
Mecklenburg	2,117	51,093	3,845	1,726,359	63,371,680						
MitCHELL		1,050	200	500	697,770						
Montgomery	10	6,530			3,534,345						
Moore	5	547		113	2,208,978						
Nash		8,138	50		1,018,743						
New Hanover	34	17,406	304	232,557	9,510,845						
Northampton					12,500						
Orange		5,088	85		5,286,371						
Pamlico		55		18,000	7,000						
Pasquotank	253	3,308	736	145,382	2,902,766						
Pender	1	11,750			11,111,540						
Perquimans		2,080			8,318,749						
Person	17	1,845			768,338						
Pitt		8,141	434	83,031	32,788,258						
Polk	5	2,680			212,779						
Randolph	2,955	14,065		11,230	6,729,739						
Richmond		18,213		500	24,514,041						
Robeson	13	12,479			13,379,095						
Rockingham	411	30,437	50	30,704	20,407,464						
Rowan	4	52,420	737	307,903	38,315,100						
Rutherford	1,240	25,400			32,788,258						
Sampson		675			185,174						
Scotland		1,436	69	700	14,343,457						
Stanly	53	18,438	96		580,555,666						
Stokes		9,970			949,333						
Surry	95	12,767	20	27,475	5,945,475						
Swain		1,027			70,379						
Transylvania		13,535		80,000	40,100						
Tyrrell					3,750						
Union		12,970	130		6,729,811						
Vance	22	4,239		37,547	8,846,431						
Wake	1,999	25,055	722	125,540	9,075,732						
Warren		500			1,288,062						
Washington		13,190			33,190						
Watauga		190			95,125						
Wayne	854	15,794	676	128,727	5,398,056						
Wilkes	65	8,496			2,153,450						
Wilson	2,341	6,973	470	180,000	1,162,622						
Yadkin				9,800	20,000						
NORTH CAROLINA—Total						NORTH DAKOTA—Total					
						140,657	29,843,144	10,691,089	283,786,543	3,080,039,560	
NORTH DAKOTA—Continued.						OHIO—					
Adams					694	Adams		867			91,087
Allan					1,127	Allan	1,127	202,134	8,672	7,770,790	13,969,834
Ashland					231	Ashland		17,629	2,970		7,618,200
Ashtabula					81	Ashtabula		85,191	1,704	999,218	10,839,734
Athens					52	Athens		50,715		3,800	2,459,453
Auglaize					8	Auglaize		46,953	1,531	239,694	2,179,523
Belmont					152	Belmont		192,021	120,791	55,998	12,020,954
Brown					8	Brown		1,050		53	60,983
Butler					143	Butler		1,045,289	208,970	5,400,019	92,918,929
Carroll					147	Carroll		818		118	3,713,911
Champaign					37	Champaign		134		8,040	2,870,897
Clark					2,599	Clark		92,325	7,766	1,252,215	10,070,030
Clermont					25	Clermont		7,374	90	35,850	853,434
Clinton					1	Clinton		715	1,531	90,699	1,167,249
Columbiana					1,366	Columbiana		338,300	101,683	389,458	20,471,255
Coshocton					14	Coshocton		38,361	10,199	429,090	3,308,536
Crawford					90	Crawford		30,110	3,042	153,127	8,063,467
Cuyahoga					25,492	Cuyahoga		4,020,289	2,147,107	83,618,042	544,672,553
Darke					314	Darke		6,587	474	40,015	1,095,292
Defiance					1,755	Defiance		8,683	337	62,705	2,945,197
Delaware					50	Delaware		14,538	335	240,000	730,043
Eric					185	Eric		182,602	2,424	996,694	28,157,245
Fairfield					25	Fairfield		35,691	476	22,747	13,895,072
Fayette						Fayette		9,860	207		664,268
Franklin					25,534	Franklin		445,111	138,625	3,710,319	97,905,300
Fulton					5	Fulton		11,345	389	122,478	1,214,247
Gallia						Gallia		2,132		800	319,420
Geauga						Geauga		1,075			334,546
Greene					64	Greene		176,025	332	74,027	5,040,200
Guernsey					25	Guernsey		121,167	387	76,471	1,554,336
Hamilton					18,189	Hamilton		994,119	61,429	2,005,080	349,643,123
Hancock					119	Hancock		89,125	417	9,007	13,845,467
Hardin					156	Hardin		9,371	454	91,225	1,082,707
Harrison					2	Harrison		139	28	7,611	92,814
Henry					450	Henry		3,341	403	21,400	770,553
Highland						Highland		11,026	456	30,835	742,364
Hocking					10	Hocking		102,779	191	100,823	2,005,154
Holmes					100	Holmes		12,742		61,205	1,392,156
Huron					290	Huron		32,674	1,364	112,479	3,605,417
Jackson					10	Jackson		91,388	116,051	24,058	776,420
Jefferson					2,585	Jefferson		716,533	84		

TABLE 7.—CONSUMPTION OF SELECTED KINDS OF FUEL AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY, BY QUANTITY, BY COUNTIES: 1929—Continued

[See note at head of table]

COUNTY	COAL		COKE (tons, 2,000 lbs.)	FUEL OILS (including crude oil and gas oils used as fuel) (gallons)	PURCHASED ELECTRIC ENERGY (kilowatt-hours)	COUNTY	COAL		COKE (tons, 2,000 lbs.)	FUEL OILS (including crude oil and gas oils used as fuel) (gallons)	PURCHASED ELECTRIC ENERGY (kilowatt-hours)
	Anthracite (tons, 2,240 lbs.)	Bituminous (tons, 2,000 lbs.)					Anthracite (tons, 2,240 lbs.)	Bituminous (tons, 2,000 lbs.)			
OHIO—Continued.						OKLAHOMA—Contd.					
Noble		10,194			38,716	Tillman				1,098,182	433,052
Ottawa	6	105,808	1,728	362,004	8,318,139	Tulsa	20	6,792	1,803	83,419,402	40,884,900
Paulding		11,034	400		109,158	Wagoner					56,717
Perry	9,610	74,770	38	12,709	2,326,816	Washington	1,100			3,700	439,995
Pickaway		27,873			202,478	Washita		80,009	107	12,276	81,840
Pike		29		5,000	66,100	Woods	3	2	28	509,644	155,950
Portage	1,430	55,856	1,866	4,570	12,495,794	Woodward	7	2,102		71,789	308,775
Preble	10	508	132	35,000	410,286	Other counties (Beaver, Coal, Dewey, Ellis, Harper, and Johnston) ¹					
Putnam	85	11,045	323	7,708	164,982			493			64,204
Richland	1,258	147,316	8,836	11,252,651	82,308,797						
Ross		122,303		239,342	1,113,093	OREGON					
Sandusky		114,180	3,214	1,902,172	14,469,305		911	68,149	4,894	88,418,805	315,759,337
Scioto	374	1,166,918	269,239	19,850	24,552,290	Baker	10	16,395	42	8,240	5,528,833
Seneca		76,500	1,103	561,137	18,212,940	Benton	6	288		64,380	1,159,634
Shelby	171	6,910	1,389	55,720	3,011,505	Clackamas		601	24	19,899,499	73,545,043
Stark	4,724	1,876,829	523,804	56,538,198	301,621,043	Clatsop	25	157	29	942,639	3,160,888
Summit	4,053	1,821,255	33,986	2,984,490	307,257,284	Columbia	2	60	2	1,549,506	3,414,582
Trumbull	947	1,471,630	587,006	27,330,628	260,661,841	Coos	30	543	75	3,269,308	5,734,604
Tuscarawas	438	663,960	15,288	374,369	15,091,015	Crook				5,128	82,850
Union		5,976	390	174,174	390,730	Curry		105			43,896
Van Wert	35	8,434	680	110,620	1,303,789	Deschutes		53	137	1,075,612	802,271
Vinton		37,206				Douglas	28			181,295	1,679,863
Warren	11,081	53,141	410	110,777	12,711,479	Grant		6			17,236
Washington	80	22,363	365	3,115,027	3,115,027	Hood River	1	130		70,588	220,580
Wayne	20	142,443	1,182	82,090	13,711,901	Jackson	18	1,825	335	3,444,653	5,402,960
Williams	250	15,925	123	228,057	1,497,047	Josephine		77		131,139	298,255
Wood	72	180,537	679	157,411	3,746,077	Klamath		379	120	159,079	27,756,445
Wyandot		23,015	202	24,267	555,059	Lake					75,024
						Lane	25	2,282	45	1,649,095	9,800,774
OKLAHOMA						Lincoln				9,800	464,383
Adair		99			72,290	Linn		79		443,004	3,088,886
Alfalfa	0	10		140,517	237,650	Malheur		60			78,788
Atoka		27		14,133	552,971	Marion	89	3,048	142	1,934,681	37,208,722
Beckham					271,125	Morrow		60			88,484
Blaine		10		80,197	445,772	Multnomah	461	27,044	3,718	50,925,316	118,958,978
Bryan		273			546,404	Polk	30	6	104	103,764	1,444,373
Caddo	3	315		829,550	2,095,768	Sherman	4	5			54,000
Canadian		690		1,785,410	2,038,854	Tillamook		2	112	771,145	1,137,419
Carter		71		9,500,215	135,950	Umatilla		4		185,082	4,468,401
Cherokee		240			611,352	Union	80	5,052	9	27,905	1,906,277
Choctaw	8	1,241			201,669	Wallowa		109			29,259
Cleveland	3	312			288,293	Wasco	127	2,445		509,520	1,925,510
Comanche	4				327,494	Washington		12		482,273	1,819,423
Cotton					618,265	Wheeler					2,180
Craig	75	57		38,000	4,150,861	Yamhill	1	230		675,679	5,699,438
Creek		30		5,619,210	704,392	Other counties (Gilliam and Harney) ¹					
Custer		26		3,750	8,405,217						22,470
Delaware	8	80			558,656	PENNSYLVANIA					
Garfield		2,385		12,688,736	469,379	Adams	609	25,891	2,410	104,784	5,777,102
Garvin	0	480		1,605,427	20,500	Allegheny	149,103	17,339,623	7,913,578	65,650,848	658,493,607
Grady	4	45	40	895,164	100,925	Armstrong		3	185,789	300	73,656,044
Grant		800		8,000	84,311	Beaver	750	3,851,732	1,806,826	15,028,121	154,907,978
Greer		203		102,562	356,111	Bedford	82	116,966	70,015	230	822,691
Harmon	1	120		163,012	502,700	Berks	115,667	472,614	253,763	11,022,860	123,196,431
Haskell					249,157	Blair	533	595,774	8,048	5,116,672	56,765,165
Hughes		60		1,054,210	13,850,732	Bradford	09,334	30,452	3,080	499,335	2,827,494
Jackson		425		337,898	597,845	Bucks	23,008	72,950	1,713	3,532,684	15,575,281
Jefferson					672,050	Butler	4	276,816	2,287	357,756	89,887,289
Key	12,364	375	6,829	13,027,784	32,000	Cambridia	484	3,678,797	1,935,761	14,244,369	15,866,071
Kingfisher	100	1,123		197,000	358,264	Cameron		23,880			1,244,984
Kiowa		73		279,115	406,780	Carbon	637,700	21,275	121,980	324,635	9,761,109
Latimer		4			606,467	Centre	1,807	134,119	784	378,328	7,536,303
Le Flore	6	16,144		7,046	423,060	Chester	36,917	435,767	209,533	46,498,976	70,088,578
Lincoln	40	939		101,500	48,255	Clarion	3	8,487	50	366,000	3,014,236
Logan			40		206,536	Clearfield		347,871	92,950	263,064	13,555,908
Love					5,325	Clinton		245,949	568	176,364	20,930,258
McClain		2,613		353	150,460	Columbia	25,564	60,967	6,898	1,450,282	13,500,125
McCurtain		9		80	131,989	Crawford	3,053	108,603	2,530	1,326,394	12,065,051
McIntosh		1,477			70,765	Cumberland	4,417	65,956	4,954	3,482,925	19,415,652
Major		67		153,425	0,105,079	Dauphin	116,759	1,161,759	522,573	12,463,447	47,212,808
Marshall		54			106,884	Delaware	66,654	392,078	129,527	67,306,601	151,130,852
Mayes		342			75,913	Elk		392,993	734	236,216	31,830,748
Murray		44			21,545,110	Erie	7,583	737,472	216,893	0,800,797	69,200,104
Muskogee	30	2,204	239	11,452,937	8,728,272	Fayette	1,612	5,325,671	4,469	12,872	63,113,808
Noble				296,792	3,192,286	Forest		39,488			35,700
Nowata		153		3,330	819,541	Franklin	14,845	39,636	4,272	3,322,496	9,412,758
Okfuskee			27		59,823	Fulton					32,384
Oklahoma	95	3,128	23,854	2,158,843	5,789,187	Greene		3,071	200		207,463
Okmulgee	9,016	5,707	4,681	11,315,346	696,693	Huntingdon	13	156,656	611	78,561	9,544,584
Osgo		1,503	11	9,642,738	1,259,191	Indiana	129	451,022	4,647	1,597	24,767,766
Ottawa		2,914	640		3,886,443	Jefferson		62,583	106	190	6,090,638
Pawnee					116,217	Juniata		22,150	200	30,796	282,806
Payne	12	665	20	8,829,567	80,448	Lackawanna	152,367	18,192	19,247	3,589,314	40,841,791
Pittsburg		3,778		4,303,293	1,060,396	Lancaster	63,970	111,458	17,915	3,393,000	73,398,912
Pontotoc				134,200	12,600	Lawrence		291	790,629	600,806	78,791,200
Pottawatomie	59	853	31	2,878,539	32,600	Lebanon	46,339	183,715	12,592	6,227,862	55,121,447
Pushmataha				854,707	1,497,047	Lehigh	136,493	633,611	16,632	1,053,716	103,920,077
Rogers					1,228,259	Luzerne		31,752	3,619	2,536,234	52,213,130
Seminole			80	4,000	32,600	Lycoming	6,636	130,060	14,142	1,890,766	27,619,877
Sequoyah											
Stephens		107		3,152,509							
Texas											

¹ See footnote, p. 193.

FUEL AND ELECTRIC ENERGY CONSUMED

TABLE 7.—CONSUMPTION OF SELECTED KINDS OF FUEL AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY, BY QUANTITY, BY COUNTIES: 1929—Continued.

[See note at head of table]

COUNTY	COAL		COKE (tons, 2,000 lbs.)	FUEL OILS (including crude oil and gas oils used as fuel) (gallons)	PURCHASED ELECTRIC ENERGY (kilowatt-hours)	COUNTY	COAL		COKE (tons, 2,000 lbs.)	FUEL OILS (including crude oil and gas oils used as fuel) (gallons)	PURCHASED ELECTRIC ENERGY (kilowatt-hours)
	Anthracite (tons, 2,240 lbs.)	Bituminous (tons, 2,000 lbs.)					Anthracite (tons, 2,240 lbs.)	Bituminous (tons, 2,000 lbs.)			
PENNSYLVANIA—Continued.						SOUTH DAKOTA—Continued.					
McKean		180,802	607	4,022,134	9,528,533	Brule	32	133			48,530
Mercer	290	435,034	981,518	20,911,979	86,441,736	Butte		21,258	621	26	769,463
Mifflin	4,311	241,054	3,134	8,983,805	13,085,597	Charles Mix	6	60	120	4,050	175,720
Monroe	4,505	7,519	1,009	280,070	4,431,283	Clark	32	85		31,955	13,410
Montgomery	53,383	1,286,034	262,112	20,739,809	132,192,286	Clay		189		1,500	25,480
Montour	5,539	8,713	1,789	53,825	4,260,824	Codington	12	10,709	366	104,494	903,534
Northampton	409,481	3,102,985	1,082,736	17,000,569	144,689,747	Custer			30		8,670
Northumberland	79,280	85,672	1,279	1,595,450	20,465,967	Davidson	3,638	3,698	463	142,033	821,104
Perry	205	4,423	118	48,392	947,467	Day		639		300	332,461
Philadelphia	458,442	2,451,825	203,859	210,341,187	520,486,631	Deuel		57			17,200
Pike	88	150		77,320	77,320	Edmunds		104	30		12,793
Potter	654	70,568	50	14,046	374,556	Fall River	14	2,812	60	105,000	127,220
Schuylkill	200,370	93,419	1,066	1,806,993	18,898,300	Faulk			24		5,700
Snyder	2,708	8,394		9,765	2,590,952	Grant	90	1,018	100	1,200	277,867
Somerset		13,093		40	817,803	Gregory		170	20		157,947
Sullivan	131	1,163		3,226	204,525	Hakon				0,500	
Susquehanna	677	8,066	87	2,535,119	2,535,119	Hamlin		213	32		35,320
Tioga	187	58,832	677	90,057	1,957,587	Hanson	6	20		20	5,400
Union	306	8,557	420	58,857	1,080,304	Hughes	0	417	18	298,179	83,778
Venango	231	372,993	0,083	0,221,726	16,437,483	Hutchinson		187		2,100	102,470
Warren	157	198,852	594	1,833,816	16,335,636	Jerauld	6	71			50,425
Washington	20,868	803,323	415,065	12,620,217	81,508,830	Kingsbury	24	1,111	22		138,468
Wayne	5,825	8,780	630	41,724	1,096,201	Lake		1,811	80	15,000	135,000
Westmoreland	521	2,047,236	442,154	2,270,422	116,407,507	Lawrence		379			278,631
Wyoming	79	12,760		9,600	103,250	Lincoln	24	140	67		61,444
York	33,660	302,198	18,389	3,735,086	79,321,932	McPherson		80			35,700
RHODE ISLAND						Marshall		74			10,085
Bristol	497	18,749		3,031,790	29,006,885	Meade	68				102,276
Kent	597	64,901	531	6,424,102	13,927,251	Minor		61			10,385
Newport	409	16,739	55	430,771	1,201,648	Minnehaha	335	33,315	1,300	850,012	7,016,121
Providence	34,010	712,476	31,041	104,930,789	257,451,024	Moody		6		144	49,050
Washington	515	37,950	129	497,662	3,720,942	Pennington	16	7,828	100	205,000	710,067
SOUTH CAROLINA						Perkins		20		3,000	5,200
Abbeville	7,068	10,745			205,000	Potter	80	30			40,846
Aiken	3,880	14,478		8,640	26,219,125	Roberts	18	283			62,836
Allendale		258			172,281	Sanborn					6,700
Anderson	2,516	64,523	637	109,065	58,212,202	Spink		222	104		311,149
Bamberg		3,620		10,550	742,800	Tripp		92	87	13,500	117,207
Barnwell		25		20,143	72,067	Turner	50	307			39,404
Beaufort	4	3,550		60	430,030	Union		133			82,045
Berkley		180			129,737	Walworth	254	7,182			258,838
Calhoun		16			17,778,110	Yankton	80	1,422	251	99,671	218,900
Charleston	537	32,806	1,799	12,520,550	33,815,865	Other counties (Douglas, Hand, Harding, Jackson, Jones, McCook, Sully, Todd, and Ziebach) ¹			115	42	10,517
Cherokee		14,921	132		29,662,236	TENNESSEE					
Chester		11,034	1	120	3,004,176	Anderson	14,684	2,624,706	285,386	11,024,209	1,050,496,981
Chesterfield		352			34,875	Bedford		5,162			846,860
Clarendon		282			1,280	Bledsoe		1,896			4,048,762
Colleton		1,116			14,024,863	Blount		34,101	9,510	7,457	601,936,309
Darlington		19,737		104	3,775,916	Bradley	155	10,917	4,579		4,156,226
Dillon	6,373	1,971			63,195	Campbell	9	5,803	20		112,566
Dorchester	3,388	4,368		14,000	20,643,040	Carroll		5,445	0	22,700	61,196
Edgefield		7,132	945	90,000	2,932,198	Carter		62,664			500,267
Fairfield	50	7,132		87,680	17,000	Cheatham				8,400	
Florence	18	13,528		31,116	87,305,068	Chester				8,000	
Georgetown		123,492	1,815	36,616	3,149,253	Claiborne		50		5,000	
Greenville	1,311	67,132	102	31,049	85,997	Cooke		10,219	100		227,587
Hampton	0	3,104		26,200	3,000	Coffee		5,792		30,000	269,480
Horry	4	2,214		20,000	10,000	Crockett				64,000	90,000
Jasper	3	96,308	219	1,800	7,817,678	Cumberland		1,210			110,000
Kershaw	4	40,225	147	20,000	3,119,720	Davidson	026	441,436	11,023	1,759,476	63,119,711
Lancaster		18,138		61,771	39,480,739	De Kalb		7			64,230
Latareus	4	856			1,267,020	Dickson	170	1,422	1,500		
Lexington		11,031			3,766,630	Dyer	188	11,912	75	28,289	2,069,210
McCormick					21,666	Fayette	6			7,929	8,000
Marion		950	44	1,400	2,203,056	Franklin	20	64,418		1,500	11,119,804
Marlboro		18,617	400	500	8,010,243	Gibson		5,357	30	47,900	2,481,782
Newberry	15	17,108	11	320	35,435,961	Giles	1,840	921	42		24,380
Oconee	15	8,240		160	14,671,404	Grainger	4	84			
Orangeburg	2	8,003			15,033,426	Greene	6	4,963		10,500	239,100
Pickens		34,015		564,899	50,460,726	Grundy		23,329	55	15,500	14,100
Richland	107	50,746	471		102,532	Hamblen		4,572	119		1,560,140
Saluda					70,258,302	Hamilton	5,541	422,147	48,130	1,445,017	154,207,457
Spartanburg	85	104,471	1,116	61,513	931,683	Hardeman		300			7,000
Sumter		5,828	331	89,245	47,476,769	Hardin		4			2,000
Union	18	13,122	190	4,281	13,357	Hawkins		505			811,500
Williamsburg		5			49,559,846	Haywood	25	682			24,550
York	15	16,191	285	58,191		Henderson		5		8,120	436,829
SOUTH DAKOTA						Hickman	133	8,254	120	86,049	
Aurora	17	100	15		30,993	Houston		17,688			36,000
Beadle	407	16,591	506	185,033	1,192,438	Humphreys		6		2,700	105,640
Bon Homme		26	51		22,330	Jackson		7			2,540
Brookings		83	50	86,308	241,593	Jefferson		1,044			67,350
Brown	263	13,940	718	282,458	2,092,053	Johnson		80			6,000
						Knox	508	329,648	3,006	441,627	52,101,258

¹ See footnote, p. 193.

CENSUS OF MANUFACTURES: 1929

TABLE 7.—CONSUMPTION OF SELECTED KINDS OF FUEL AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY, BY QUANTITY, BY COUNTIES: 1929—Continued

[See note at head of table]

COUNTY	COAL		COKE (tons, 2,000 lbs.)	FUEL OILS (including crude oil and gas oils used as fuel) (gallons)	PURCHASED ELECTRIC ENERGY (kilowatt-hours)	COUNTY	COAL		COKE (tons, 2,000 lbs.)	FUEL OILS (including crude oil and gas oils used as fuel) (gallons)	PURCHASED ELECTRIC ENERGY (kilowatt-hours)
	Anthracite (tons, 2,240 lbs.)	Bituminous (tons, 2,000 lbs.)					Anthracite (tons, 2,240 lbs.)	Bituminous (tons, 2,000 lbs.)			
TENNESSEE—Con.						TEXAS—Continued.					
Lake		2,540		10,480		Donley					15,465
Lauderdale	440	88		14,047	232,840	Eastland	70		8	11,055	1,397,586
Lawrence		347		20	61,150	Ector		160			185,267
Lincoln		7,820	90	20,290	569,110	El Paso	4,810	64,856	22,340	154,227	5,392,704
Loudon		6,292	5,133	540,729	7,260,880	Elbert		60			24,445,563
McMinn	35	15,158	907	8,000	1,983,154	Erath		739		1,363,904	813,064
Macon		4			1,000	Falls		38			352,760
Madison	188	60,091	307	50,983	3,536,534	Fannin		1,142			2,580,618
Marion		78,267	1,777		21,427,013	Fayette				169,104	411,025
Marshall	115	4,373		16,600	1,100,491	Fisher				448,543	2,476,860
Maury		8,826	19,659	4,690	3,161,898	Floyd					1,229,325
Monroe	147	10,210		4,695	913,975	Fort Bend					6,239,215
Montgomery	108	14,200	256	5,000	549,883	Franklin	5				1,600
Morgan		4,928		2,000	305,400	Freestone		4,063		13,609	384,029
Obion	8	3,846		119,064	273,260	Frio		128		142,800	266,705
Overton					430	Galveston	38	412	5,703	6,523,831	5,076,279
Polk		32,289	13,789	855,014	27,814,760	Garza				8,107	25,963
Putnam	227	2,600		30	215,679	Gillespie	2	62		4,000	273,490
Rhea	100	5,634			552,179	Goliad					196,420
Roane	219	149,214	106,199	2,390	587,452	Gonzales					2,413,428
Robertson		2,640		15,000	987,693	Gray			56		1,471,189
Rutherford	51	5,945	205		1,155,041	Grayson		6,719	121	3,187,961	10,396,541
Scott		6,511		15,606	89,266	Gregg		15	97	141,744	603,434
Sevier		600		9,000	149,366	Grimes		4,439			135,984
Shelby	1,957	296,390	26,292	5,025,569	35,846,192	Guadalupe				13,177	1,343,860
Smith		174			156,134	Hale		2		27,498	1,700,474
Sullivan	245	183,176	998	244,841	29,731,243	Hall					490,981
Sumner		2,310			381,833	Hamilton		626		146,908	85,850
Tipton		5,219		32,200	586,447	Hansford	9				92,444
Trousdale		1,200			30,300	Hardeman					2,255,838
Union		196,055			2,067,627	Hardin		97		813,304	857,979
Warren		2,594		2,380	975,740	Harris	58	12,730	6,213	96,878,173	193,290,135
Washington		30,153	29,820	28,520	6,225,510	Harrison		906	2,758	447,304	4,146,685
Wayne		433				Haskell				40,900	255,013
Weakley		130	1,090		51,703	Hays	80	2,555			600,887
White		683		6,000	226,471	Hemphill		6	6	64,281	29,544
Williamson	270	1,778			124,600	Henderson		3,904		569,466	850,649
Wilson	1,034	1,076			721,101	Hidalgo		80		103,200	7,706,346
Other counties (Cannon and Sequatchie)		16			750	Hill	6	1,328			15,912,441
TEXAS	57,449	361,488	55,195	595,302,002	728,090,318	Hopkins		6,126			485,203
Anderson		13,125	145	611,804	2,737,545	Houston		3,722			289,139
Angelina	24	41	1,135	789,033	1,052,545	Howard				1,289,302	3,213,825
Armsstrong				21,431	1,052,545	Hunt	1	14,356	8	1,333,462	1,872,655
Atascosa				417,858	601,000	Hutchinson			7	6,600	5,849,163
Austin		79		417,858	601,000	Jackson				76,200	139,283
Bastrop	2	9,432		4,123,600	1,492,020	Jasper				300,000	108,590
Baylor	1			106,688	255,899	Jefferson	29	1,885	847	343,745,944	66,099,345
Bea		110			1,046,808	Jim Wells				93,520	751,327
Bell	221	7,703	98	1,113,336	3,392,497	Johnson		825	248	2,624,950	824,930
Bexar	746	11,721	1,174	10,841,291	35,443,009	Jones		163		133,967	1,000,408
Bosque		2,107		152,278	308,750	Karnes				136,691	157,046
Bowie	4,183	3,353	224	2,571,787	1,660,471	Kaufman	24	2,957		109,443	2,327,022
Brazoria		10		208,774	940,459	Kendall				150	155,366
Brazos		2,805		330	508,785	Kerr		283		120	99,539
Brewster	30	150			109,478	Kimble				180	1,200,400
Briscoe				75,000		Kleberg		3,956		37,424	1,643,421
Brooks				10,321		Lamar	1,940				4,222,627
Brown		87	9	666,667	2,030,465	Lampasas		14			20,200
Burleson		4,052		1,807,371		Lavaca				180,054	940,155
Burnet		343		53,050		Liberty		1,021		20,800	440,000
Caldwell	10	145		1,088,266	836,769	Limestone		9,153		100,430	551,637
Callahan				3,663	167,100	Llano				36,887	802,862
Cameron		12		323,626	7,435,936	Lubbock		296		4,200	283,420
Camp		1,907			228,980	Lynn				211,554	2,367,160
Carson				709,888	709,888	McCulloch					105,355
Cass				36,000	100,228	McLennan	6,734	40,170	168	871,934	1,016,333
Cherokee		8		126,076	763,967	Marion	1,031			1,468,148	13,125,317
Childress		48		167,223	1,392,071	Mason					154,361
Clay				133,808	133,808	Matagorda				62,678	8,976
Coleman				10,668	629,012	Maverick			150		442,450
Collin		12		240,894	1,103,070	Medina			157	678	132,903
Collingsworth				19,000	73,677	Menard					122,912
Colorado		1,612	38	364,488	503,817	Midland	8			210,000	156,666
Comal		3,115	102	191,010	5,699,966	Milam	15		4,008	882,630	1,567,870
Comanche		132		118,775	411,004	Mills		103			33,600
Cooke		540	1,196	2,618,154	1,140,916	Mitchell				4,373,587	2,069,329
Correll		1,325	2,309		42,120	Montague					1,011,911
Cottle					27,400	Montgomery		4,967		64,802	19,520
Crockett					79,175	Morris					79,632
Crosby					75,107	Motley		5			96,028
Dallam		29			140,916	Nacogdoches		40		473,366	325,648
Dallas	331	8,646	1,890	14,765,472	68,268,240	Navarro		4,016	344	6,404,352	4,555,245
Dawson		402		16,125	16,125	Newton				242,450	
Delta		1,464			223,110	Nolan		28		3,202,836	2,374,064
Denton				139,082	268,834	Nueces		2	1		2,901,721
De Witt		13		70,000	2,107,247	Ochiltree		42			10,827
Dickens		70		75,000	63,000	Orange		25	62	501,135	9,737,157
						Palo Pinto	480			2,724	2,668,716
						Panola					158,084
						Parker	6		158	40,633	696,329
						Pecos				37,608	142,210

1 See footnote, p. 193.

FUEL AND ELECTRIC ENERGY CONSUMED

TABLE 7.—CONSUMPTION OF SELECTED KINDS OF FUEL AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY, BY QUANTITY, BY COUNTIES: 1929—Continued

[See note at head of table]

COUNTY	COAL		COKE (tons, 2,000 lbs.)	FUEL OILS (including crude oil and gas oils used as fuel) (gallons)	PURCHASED ELECTRIC ENERGY (kilowatt- hours)	COUNTY	COAL		COKE (tons, 2,000 lbs.)	FUEL OILS (including crude oil and gas oils used as fuel) (gallons)	PURCHASED ELECTRIC ENERGY (kilowatt- hours)
	Anthra- cite (tons, 2,240 lbs.)	Bitumi- nous (tons, 2,000 lbs.)					Anthra- cite (tons, 2,240 lbs.)	Bitumi- nous (tons, 2,000 lbs.)			
TEXAS—Continued.						VERMONT					
Polk.....		900		20,000	461,008	Addison.....	20	2,213	54		629,367
Potter.....	24,047	24	4,435	763,604	6,840,050	Bennington.....	188	21,730	833	122,724	1,883,460
Presidio.....	6				299,929	Caledonia.....	122	44,055	2,504	222,820	4,799,258
Randall.....					99,126	Chittenden.....	628	40,995	688	685,489	5,233,460
Red River.....		10		90,120	744,850	Essex.....	99	35,283			34,087
Reeves.....				552,427	1,160,225	Franklin.....	14,498	19,708	433	144,228	6,928,089
Robertson.....		3,821		200,434	200,434	Grande Isle.....					
Rockwall.....				58,000	58,000	Lamoille.....	14	818	15		862,153
Runnels.....		39		220	2,280,867	Orange.....	54	2,051	54	23,600	1,406,230
Rusk.....	1,500			217,773	217,773	Orleans.....	282	7,465	30	18,571	1,124,328
Sabine.....				8,000	7,000	Rutland.....	2,540	22,622	2,580	890,272	8,337,765
San Augustine.....				104,000	8,907	Washington.....	678	13,740	1,320	465,286	12,007,168
San Patricio.....		20		1,200,152	1,320,068	Windham.....	727	13,418	817	120,823	11,055,180
San Saba.....				49,600	49,600	Windsor.....	4,035	18,700	3,380	500,020	11,027,954
Scoury.....		1,567		331,927	331,927	VIRGINIA					
Shackelford.....			50	400	217,237	Accomac.....	30,916	2,640,913	203,080	18,479,793	407,852,202
Shelby.....				10,700	79,290	Albemarle and Charlottes- ville city.....	11	1,006		86,400	630,692
Smith.....	1,200	122		95,845	3,189,632	Alleghany and Clifton Forge city.....	96	11,285	173	113,340	3,470,178
Starr.....				252,000	152,067	Amherst.....				9,564	18,087,728
Stephens.....		136	20	4,300	287,888	Appomattox.....				9,150	4,000
Sutton.....					107,254	Arlington and Alexandria city.....	48	56,338	959	791,136	9,213,758
Swisher.....					40,593	Augusta and Staunton city.....	297	121,247	245	172,450	5,530,606
Tarrant.....	21	4,094	2,329	25,255,598	92,267,071	Bath.....				210	100,000
Taylor.....		53		75,618	8,067,420	Bedford.....	84	23,421			1,341,236
Terry.....				8,367	42,437	Bland.....					
Titus.....		202		1,322,470	276,765	Botetourt.....					
Tom Green.....	61	230	157	1,322,470	2,652,476	Brunswick.....			100		953,723
Travis.....	73	19,151	124	258,266	3,635,634	Buckingham.....					183,844
Trinity.....		1,919	32	659,782	60,514	Campbell and Lynchburg city.....	2,091	68,998	82,472	543,130	8,250,660
Tyler.....				882,330	1,400	Caroline.....					3,120
Upshur.....		2,595		178,195	79,290	Carroll.....					970,060
Upton.....	4	6		6,145,324	3,070,757	Charles City.....					
Uvalde.....		40		801,430	801,430	Charlotte.....					27,000
Val Verde.....		123		997,155	1,008,296	Chesterfield.....					875,492
Van Zandt.....	11	24,108	12	143,930	1,176,997	Clarke.....					374,900
Victoria.....				296,896	339,498	Culpeper.....					411,059
Walker.....		2,248		10,500	2,040	Cumberland.....					
Waller.....				199,455	3,528,107	Dickenson.....					
Ward.....		520	367	199,455	1,752,705	Dinwiddie and Petersburg city.....	91	17,248	672	395,491	3,072,322
Washington.....		2,770	30	804,100	804,100	Elizabeth City and Hamp- ton city.....	20	1,308	124	50	1,881,792
Webb.....		24		2,291	839,546	Essex.....				2,500	4,500
Wharton.....				21,363	147,115	Fairfax.....				173	75,790
Wheeler.....				13,180,615	9,810,232	Fauquier.....				30	5,081
Wichita.....	19	138	608	53,363	7,800	Franklin.....				2,352	16,400
Wilbarger.....				404,610	909,400	Frederick and Winchester city.....				46,145	471
Willacy.....				2,132,027	197,216	Giles.....				4,865	2,580
Williamson.....	11,005	11,074		148,420	590,240	Gloucester.....				36	60,000
Wilson.....				508,467	320,322	Grayson.....	260			52	682,940
Wise.....		3,251		705,990	5,568,300	Greensville.....				253	450
Wood.....						Halifax.....	3,075			679	97
Young.....						Hanover.....				200	14,000
Other counties (Aransas, Bailey, Bandera, Crane, Deaf Smith, Dimmit, Edwards, Foard, Hood, Jack, Jeff Davis, Jim Hogg, Kent, Kinney, Knox, Lamb, La Salle, Live Oak, Madison, Farmer, Fains, Reagan, Somervell, Terrell, and Zavala).....	8	238				Henrico and Richmond city.....	8,920	159,971	7,917	5,512,913	67,379,718
UTAH						Henry and Martinsville city.....					
Beaver.....	240			602,280	89,935	Isle of Wight.....	120	27,598	2,470	1,260	5,574,278
Box Elder.....	29	28,885	680	410	1,188,112	James City and Williams- burg city.....					581,993
Cache.....	18	31,223	554		662,763	King and Queen.....				15,760	236,255
Carbon.....		25,837			238,925	King William.....					150
Daggett.....		20			3,600	Lancaster.....	1,741	29,933		20,000	257,120
Davis.....		20,006	458		1,866,289	Loudoun.....	6	1,337		6,850	282,975
Duchesne.....		130			67,450	Louisiana.....					9,500
Iron.....		13			14,186	Lunenburg.....				6,120	90,200
Juab.....		857		2,110	75,800	Madison.....				17	5,520
Millard.....		335		854,133	90,940	Mathews.....				66	2,781
Morgan.....		26,605			9,523,801	Mecklenburg.....				13	16,000
Rich.....		159			54,359,112	Middlesex.....				120	10,750
Salt Lake.....	867	271,786	75,491	18,055,708	107,800	Montgomery and Radford city.....	32	31,630	11,617		2,025,680
Sanpete.....		7,647	419		173,988	Nansemond and Suffolk city.....	1,489	10,736	216	153,948	5,687,476
Sevier.....	48	1,428			40,550	Nelson.....					1,053,309
Summit.....		232		25,341	16,315,233	Norfolk and Norfolk, Portsmouth, and South Norfolk cities.....	8,762	143,250	17,201	6,342,571	53,296,727
Tooele.....	2,343	53,496	53,745		99,232	Northampton.....	171	7,925		18,453	667,623
Uintah.....		250			3,089,485	Northumberland.....	70	15,493		505,382	794
Utah.....	262	496,984	170,324	5,160	446,341	Nottoway.....	14	8,931	33		892,883
Wasatch.....		387	5		20,520						
Washington.....		30			14,178,576						
Weber.....	4,590	37,900	1,413	2,320,000	43,910						
Other counties (Emery, Grand Plute, and San Juan).....	56	60									

1 See footnote, p. 193.

CENSUS OF MANUFACTURES: 1929

TABLE 7.—CONSUMPTION OF SELECTED KINDS OF FUEL AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY, BY QUANTITY, BY COUNTIES: 1929—Continued

(See note at head of table)

COUNTY	COAL		COKE (tons, 2,000 lbs.)	FUEL OILS (including crude oil and gas oils used as fuel) (gallons)	PURCHASED ELECTRIC ENERGY (kilowatt-hours)	COUNTY	COAL		COKE (tons, 2,000 lbs.)	FUEL OILS (including crude oil and gas oils used as fuel) (gallons)	PURCHASED ELECTRIC ENERGY (kilowatt-hours)
	Anthracite (tons, 2,240 lbs.)	Bituminous (tons, 2,000 lbs.)					Anthracite (tons, 2,240 lbs.)	Bituminous (tons, 2,000 lbs.)			
VIRGINIA—Contd.						WEST VIRGINIA—Continued.					
Orange	10	268		6,522	439,825	Brooke		1,133,891	92	129,679	30,640,300
Page		13,654	29		2,494,305	Cabell	384	57,800	2,615	34,076	47,806,957
Pittsylvania and Danville city	7	83,182	935	432,243	1,919,035	Calhoun					2,880
Powhatan		45		200		Clay		1,205			2,178
Prince Edward		310		7,620	463,078	Doddridge					2,000
Prince George and Hope-well city		280,943		1,800	41,902,730	Fayette		642,351		1,300	3,100,867
Prince William		12		55,152	24,556	Gilmer		1,213			330,640
Princess Anne		2,755		69,451	69,451	Grant		1,969			89,697
Pulaski	2,230	10,404	18,233	1,899	4,951,774	Greenbrier		5,939	31	1,570	493,323
Rappahannock				3,335		Hampshire		9,948			61,250
Richmond		50		4,600		Hancock	601	1,447,553	484,423	81,254	9,609,035
Roanoke and Roanoke city	333	192,888	6,957	601,567	15,677,723	Hardy	150	377		330	15,000
Rockbridge and Buena Vista city	680	40,556	34	379	6,035,988	Harrison	20,642	173,969	1,109	16,000	9,198,271
Rockingham and Harrisonburg city	16	9,050	332	100,649	2,035,576	Jackson	50				74,300
Russell		101		11,250	510,500	Jefferson	170	61,500	20,221	14,724	5,845,325
Shenandoah	25	18,238		11,680	14,017,824	Kanawha	11	269,417	373	268,254	330,102,349
Smyth	5	172,741	25,799		12,050	Lewis	403	7,283	53		1,335,081
Southampton	15	200				Lincoln					6,800
Spotsylvania and Fredericksburg city		7,509	206		1,729,261	Logan		9,058			1,371,062
Stafford		48		21,000	7,421	McDowell	10	98,853	300		3,908,012
Surry		2,005			330,420	Marion	616	363,832	15,804	250	17,135,615
Sussex	24	7,192	40	10,832	1,469,131	Marshall	2,031	263,023	189,989	163,416	19,371,611
Tazewell		3,577	330		3,149,977	Mason		35,121	345	28,000	295,280
Warren	39	12,865	3,897	2,118,081	9,283,186	Mercer		182,427	874	100	4,731,206
Warwick and Newport News city		70,519	838	122,052	121,810	Mineral		34,011			404,089
Washington and Bristol city	125	583,649	60	2,740,031	96,183,321	Mingo		12,473	6	2,260	3,332,922
Westmoreland		143		109,432		Monongalia	25	76,987	876		2,490,671
Wise		11,541				Monroe		43			1,003,450
Wythe						Morgan	110	4,943			68,211
York						Nicholas		78,470	28		18,060
Other counties (Buchanan, Greene, King George, and Patrick)						Ohio	574	162,155	3,068	508,844	22,392,736
WASHINGTON						WISCONSIN					
Adams		4,167			783,179	Adams		7,979	18		7,030
Asotin		202		91,000	429,333	Ashland	80	15,012	60	160,832	5,630,424
Benton		706		81,000	910,882	Barron	443	12,230	98	12,200	1,309,118
Chelan	391	895		1,231,640	3,241,303	Bayfield		33,194			4,284,713
Clallam		448	32	1,396,810	117,713,978	Brown	823	159,322	2,139	777,771	53,102,511
Clark		561	100	6,926,587	127,693,537	Buffalo	9	2,756			220,323
Clatsop		1,141		6,152	150,388	Calumet	512	10,459	726	16,297	1,348,288
Columbia	55	82		1,315,946	22,755,275	Chippewa	191	39,397	511		893,240
Cowlitz	2				6,200	Clark	200	13,900	125	31,413	650,653
Douglas		7,258			2,173,300	Columbia	5,424	16,731	175	10,640	1,912,317
Ferry		40			13,400	Crawford	2,530	1,558	33	2,900	322,711
Franklin		30			4,980	Dane	9,439	54,061	16,729	2,887,269	9,060,475
Garfield	25	4,420	202	3,013,552	12,979,660	Dodge	1,687	61,918	2,798	500,654	4,252,908
Grant		85		34,250	84,560	Door	219	7,353		4,100	372,549
Grays Harbor		38		1,953,136	122,555	Douglas	121,997	496,431	890	31,141	14,880,289
Island		306	233,063	5,233	27,218,980	Dunn	18	9,540	280	44,613	1,030,330
Jefferson		1,960	12	1,028,127	802,660	Eau Claire	661	63,800	487	150,858	16,353,499
King		4,086	80	12,875	283,888	Fond du Lac	1,331	80,540	1,497	115,275	5,106,194
Kitsap		35		321,354	310,124	Forest	30	1,472			186,021
Klickitat		135		282,400	3,367,915	Grant	6	8,819	55	17,650	493,667
Lewis		139		514,343	18,749,651	Green	12	16,855	472	86,249	446,380
Lincoln		20		1,500	2,592,058	Green Lake	500	9,872	89	20,769	433,687
Mason		8		9,371	515,219	Iowa	6,336	9,053	6,623	16,689	232,035
Okanogan		11,031		1,358	4,851,653	Iron	18	145			65,405
Pacific		292	120,531	35,900	17,278,966	Jackson		1,994			600,614
Pend Oreille		156	77,859	15	478,173	Jefferson	310	35,167	4,511	623,987	5,809,453
Pierce		473	5,405	477	2,128,894	Juneau		5,179			266,087
Skagit		244	86,993	1,294	1,303,668	Kenosha	4,811	131,595	10,236	5,369,139	63,547,604
Skamania		32,646		200,000	4,649,892	Kewaunee	539	6,949	95	2,663	1,477,099
Spokane	48	2,188	48	196,191	10,027,851	La Crosse	622	60,730	1,919	512,968	6,630,346
Stevens		142		2,061,953	1,074	Lafayette	279	6,617		139,795	2,217,111
Thurston		141	8,165	113	138,188	Langlade	61	16,225	612	58,907	515,751
Wahkiakum		43	41,911	201	1,409,940	Lincoln	51	39,622	73	5,331	2,581,602
Walla Walla		6	2,826	19	782,987	Manitowoc	7,383	102,850	2,800	1,168,222	16,157,392
Whatcom		6	2,826	19	782,987	Marathon	463	115,363	961	47,714	16,162,305
Whitman		6	18,127	163	428,997	Marinette	209	68,459	201	16,678	5,516,433
Yakima						Marquette		686			59,259
WEST VIRGINIA						WISCONSIN					
Barbour		671			58,083	Adams		7,979	18		7,030
Berkeley	177	87,050	20,726	202,018	17,874,861	Ashland	80	15,012	60	160,832	5,630,424
Boone		2,539		31,061	63,000	Barron	443	12,230	98	12,200	1,309,118
Braxton		24,368				Bayfield		33,194			4,284,713

1 See footnote, p. 193.

FUEL AND ELECTRIC ENERGY CONSUMED

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TABLE 7.—CONSUMPTION OF SELECTED KINDS OF FUEL AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY, BY QUANTITY, BY COUNTIES: 1929—Continued

[See note at head of table]

COUNTY	COAL		COKE (tons, 2,000 lbs.)	FUEL OILS (including crude oil and gas oils used as fuel) (gallons)	PURCHASED ELECTRIC ENERGY (kilowatt- hours)	COUNTY	COAL		COKE (tons, 2,000 lbs.)	FUEL OILS (including crude oil and gas oils used as fuel) (gallons)	PURCHASED ELECTRIC ENERGY (kilowatt- hours)
	Anthra- cite (tons, 2,240 lbs.)	Bitumi- nous (tons, 2,000 lbs.)					Anthra- cite (tons, 2,240 lbs.)	Bitumi- nous (tons, 2,000 lbs.)			
WISCONSIN—Con.						WISCONSIN—Con.					
Milwaukee.....	47,856	2,955,748	104,442	38,819,887	506,962,305	Winnebago.....	1,153	191,260	2,425	1,306,845	27,119,366
Monroe.....	162	6,594	187	30	540,235	Wood.....	310	128,579	783	112,958	100,497,396
Oconto.....	190	2,622	43	58,698	339,983	Other counties (Burnett, Florence, and Price) ¹					
Oneida.....			520	210,076			2	205			45,979
Outagamie.....			2,281	20,073		WYOMING.....					
Ozaukee.....			1,843	80,412			134	156,371	4,037	29,838,434	22,509,462
Pepin.....			18	3,000		Albany.....	16	43,002	122	6,598,776	8,099,712
Pierce.....			35	149,776		Big Horn.....		3	235	1,313,445	103,452
Polk.....			52	13,696		Carbon.....			25		125,680
Portage.....			337	3,534,399	4,515,171	Converse.....					814,390
Racine.....	62	15,022	11,155	17,450	415,484	Crook.....					183,400
Richland.....	114	7,032		3,893,571	14,334,513	Fremont.....	95	32,821	1,785		128,188
Rock.....	5,317	109,801	15,904	137,895	342,916	Goshen.....		426			24,912
Rusk.....	60	21,127		2,465,203	531,465	Hot Springs.....		202			38,750
St. Croix.....	3	9,776	53	590,653	9,025,149	Johnson.....				293,597	5,156,236
Sauk.....	138	12,817	70	200	55,135	Laramie.....		25,340			80,533
Sawyer.....	135	3,154		97,600	348,199	Lincoln.....			130	19,412,652	5,015,647
Shawano.....	694	20,724	104	2,000	12,040	Natrona.....		56	16	1,331,400	604,721
Sheboygan.....	987	147,901	12,235	74,327	783,835	Park.....		3			37,560
Taylor.....		2,202	22	159,581	349,551	Platte.....	33				1,305,030
Trempealeau.....	9	5,324	40	2,806,741	8,677,239	Sheridan.....		34,542	870	1,800	185,635
Vernon.....	170	7,949		136,838	2,440,014	Sweetwater.....		462	15	53,970	255,047
Vilas.....		2,287		535,265		Uinta.....		5,749	159	133,919	65,419
Walworth.....	158	10,180	117			Washakie.....	47	12,347	685		487,000
Washburn.....		4,118				Weston.....					3,544
Washington.....	706	31,832	349			Other counties (Campbell, Niobrara, Sublette, and Teton) ¹					
Waukesha.....	327	40,797	3,516					150			
Waupaca.....	136	21,273	226								
Waushara.....		809									

¹ Combined in order to avoid disclosing data reported by individual establishments.