

COAL

SALIENT STATISTICS FOR 1939

The coal industries, including operations producing (or preparing to produce) bituminous coal, lignite, and Pennsylvania anthracite, accounted for 27 percent of the total value of products and for 56 percent of the total number of employees reported for all mineral industries in the United States in 1939. (See table 1 in the General Summary.) They included almost one-fourth of all the operating companies and almost one-half of all mines and quarries reported. Coal operations were reported in 450 counties in 29 States.

A total of 5,539 companies operated 6,365 mines and 562 coal-preparation plants in 1939 and produced a total of 446,572,000 short tons of coal valued at \$917,362,000. (See table 1.) Of the total output of coal, 88 percent was bituminous coal, 11 percent was anthracite, and less than 1 percent was lignite. Other products of the coal industries, reported chiefly by bituminous-coal operations, were valued at \$1,268,000; amounts received or due for services performed for others totaled \$2,986,000, including \$1,153,000 received or due from contractors for performing general services for the coal industries.

The coal industries employed an average of 454,056 wage earners who were paid \$539,986,000, and 25,314 salaried employees paid \$56,740,000. Total expenditures for supplies and materials amounted to \$114,005,000; for fuel, \$9,352,000; for purchased electric energy, \$31,419,000; and for work performed by contractors, \$2,463,000. These expenses totaled \$753,966,000, or about 25 percent of the total of such expenses for all mineral industries. The cost of buildings, machinery, and equipment erected or installed during the year at coal operations amounted to \$35,736,000, of which \$28,594,000 was expended for machinery and equipment and \$7,092,000 for buildings or major alterations of existing structures.

Wage earners at coal operations worked a total of 670,165,000 man-hours, of which 96 percent was worked on the equivalent of 180 full days that operations were active in production or development work. Of the total man-hours, 81 percent was worked at operations producing bituminous coal, 19 percent at anthracite-producing operations, and less than one-half of one percent at lignite-producing operations. Bituminous-coal operations were active 178 days during the year, lignite operations 204 days, and anthracite operations 186 days. Length of shift worked averaged 7.0 hours at both bituminous-coal and anthracite operations, but 8.2 hours at lignite mines.

The quantity of all coal produced per man-hour worked by wage earners averaged 0.67 short ton; the output per man-hour at lignite operations was 0.98 ton; at bituminous-coal operations, 0.72 ton; and at anthracite operations, 0.42 ton. More than twice the number of man-hours required to produce a ton of lignite were needed to produce a ton of anthracite, and the output of bituminous coal per man-hour was 71 percent higher than the man-hour output of anthracite. The mine value of a ton of lignite, however, averaged \$1.16 compared with the average of \$3.66 for anthracite and \$1.85 for bituminous coal. The average hourly earning of wage earners was 79 cents at bituminous-coal operations, 87 cents at anthracite operations, but only 46 cents at lignite mines.

The coal industries reported almost one-third of the aggregate horsepower rating of power equipment at all mineral operations. About three-fifths of the horsepower was used for driving stationary equipment, and two-fifths was used for furnishing power to such mobile equipment as power shovels, trucks,

locomotives, loading machines, and coal-cutting machines. Bituminous-coal operations reported three-fourths of the total horsepower for the group, and anthracite operations 23 percent of the total. Stationary equipment accounted for 55 percent of the total horsepower at bituminous-coal operations, 74 percent of the total at anthracite operations, and 41 percent of the total at lignite mines. Horsepower per wage earner employed averaged 9.8 at all coal operations, 9.0 at bituminous-coal operations, 14.2 at lignite mines, and 12.5 at anthracite operations. A large proportion of the power equipment was driven by electric energy; the industries consumed a total of 3,540,123,000 kilowatt-hours, 72 percent of which was purchased and the remainder generated by the reporting companies.

CHANGES IN THE COAL INDUSTRIES

Bituminous coal and lignite.—The output of soft coal increased steadily from 42,720,000 short tons in 1880 to 537,442,000 tons in 1929 and declined to 394,707,000 tons in 1939. (See table 2.) The average number of wage earners, however, reached a peak of 545,798 in 1919, from less than 109,000 in 1880, and declined to an average of 370,636 in 1939. These and other statistics indicate that the coal industries experienced their largest and most rapid growth in the 40 years preceding World War I, thereafter entering a period of slower growth followed by declining output and employment. In the period of expansion, production of coal grew faster than employment and in the period of decline employment decreased more rapidly than production, indicating a continuous increase in output per man.

Pennsylvania anthracite.—The Pennsylvania-anthracite industry reached a peak of development somewhat earlier than that of the bituminous-coal and lignite industries. (See table 45.) Total production of anthracite increased from 28,711,000 short tons in 1880 to a maximum of 88,171,000 tons in 1919, thereafter declining to 51,865,000 tons in 1939. These figures on the output of anthracite indicate a two-fold increase between 1880 and 1919 and a decrease of 30 percent between 1919 and 1939. The output of bituminous coal and lignite, however, showed an almost ten-fold increase between 1880 and 1919 and a decline of only 14 percent between 1919 and 1939. Similar trends in the anthracite industry are indicated by figures on employment; the average number of wage earners increased from 69,688 in 1880 to 147,372 in 1919, or 111 percent, then declined to 82,822 in 1939, or 44 percent. The number of wage earners in the bituminous-coal and lignite industries increased four-fold between 1880 and 1919, and declined 32 percent between 1919 and 1939.

Increased use of power.—Technological improvements characterized by increased use of power, especially of electric energy, have been widely adopted by the coal industries. The horsepower rating of power equipment at bituminous-coal and lignite operations increased from 2.5 horsepower per wage earner employed in 1909, to 3.9 in 1919, to 6.8 in 1929, and to 9.0 in 1939. At Pennsylvania-anthracite operations the average horsepower rating of power equipment per wage earner increased from 4.0 in 1909, to 6.1 in 1919, to 7.3 in 1929, and to 12.5 in 1939. Electric energy consumed per short ton of coal produced rose from 4.7 kilowatt-hours in 1929 to 6.5 kilowatt-hours in 1939 at bituminous-coal and lignite operations and from 12.7 kilowatt-hours in 1929 to 18.3 kilowatt-hours in 1939 at anthracite operations. Statistics on quantities of electric energy consumed were not collected for years prior to 1929.

TABLE 1.—PRINCIPAL STATISTICS FOR THE BITUMINOUS-COAL, LIGNITE, AND PENNSYLVANIA ANTHRACITE INDUSTRIES, AND GENERAL CONTRACT-SERVICE OPERATIONS FOR THESE INDUSTRIES IN THE UNITED STATES: 1939¹

ITEM	All operations	PRODUCING OPERATIONS				General contract services for the coal industries ³	Nonproducing operations
		Total	Bituminous coal	Lignite	Pennsylvania anthracite ²		
Number of operating companies ⁴ —	5,559	5,482	5,009	130	343	45	50
Number of mines (underground, strip-pit, culm-bank, and dredge)—	6,365	6,324	5,886	131	507	—	41
Number of cleaning plants and breakers—	562	557	365	—	192	—	5
Quantity of coal produced (tons of 2,000 pounds)—	446,572,256	446,572,256	391,728,862	2,978,046	51,865,328	—	—
Value of all products—	\$921,616,069	\$920,462,589	\$727,357,537	\$3,457,139	\$189,647,913	\$1,153,480	—
Coal—	917,362,421	917,362,421	724,475,837	3,454,653	189,431,931	—	—
Other products—	1,288,016	1,288,016	1,212,952	—	55,084	—	—
Amount received or due for services performed for others ⁷ —	\$2,985,652	\$1,632,152	1,668,768	2,486	\$160,898	\$1,153,480	—
Number of persons engaged, total—	484,347	483,567	393,308	1,739	86,520	509	271
Wage earners (average for the year)—	454,056	455,458	369,156	1,460	82,822	421	177
Salaried employees—	25,314	25,182	19,656	115	5,411	40	92
Proprietors and firm members—	4,977	4,927	4,496	144	287	48	2
Performing manual labor—	3,570	3,547	3,270	116	159	21	2
Principal expenses designated below, total—	\$753,965,751	\$752,481,209	\$594,511,684	\$2,182,014	\$155,787,311	\$796,785	685,757
Wages—	539,986,279	539,257,250	430,427,148	1,384,433	107,445,669	493,535	235,494
Salaries—	56,739,893	56,461,808	44,120,411	218,791	12,122,606	107,172	170,715
Supplies and materials—	114,005,110	113,818,223	88,064,351	342,319	25,411,553	118,143	68,744
Fuel—	9,351,898	9,287,537	5,290,536	80,061	3,886,950	78,501	15,860
Purchased electric energy—	31,419,308	31,244,837	24,711,182	144,979	6,388,676	1,434	175,037
Contract work—	2,463,463	2,441,554	1,898,256	11,441	\$531,857	(10)	21,909
Cost of buildings, machinery, and equipment erected or installed during year—	\$55,735,582	\$55,619,829	\$50,561,244	\$109,655	\$4,948,950	49,820	65,933
Buildings—	\$7,092,139	7,072,689	5,303,434	16,069	1,753,186	(10)	19,450
Machinery and equipment, total—	\$28,593,623	28,547,140	25,257,810	95,586	3,195,744	(10)	46,483
Purchased in new condition—	\$25,304,181	25,262,551	22,315,389	73,438	2,873,704	(10)	41,650
Purchased in used condition—	\$3,289,442	3,284,589	2,942,421	20,148	322,040	(10)	4,833
Number of man-hours worked by wage earners, total—	11 870,184,898	869,095,938	542,100,064	3,027,227	123,968,647	11 703,907	365,053
On active days, total—	644,036,052	643,281,425	521,655,192	2,952,199	118,694,084	703,907	50,720
Underground—	\$526,356,458	526,310,538	435,024,291	1,794,388	89,481,889	(10)	45,920
In strip pits ¹² —	\$18,510,350	18,510,350	12,604,267	586,266	5,519,817	(10)	—
Other ¹³ —	\$98,465,337	98,460,537	74,006,634	571,545	23,682,358	(10)	4,800
On inactive days—	\$26,128,846	25,814,515	20,464,872	75,028	5,274,613	(10)	314,335
Average number of equivalent full days operations were active—	180	180	178	204	186	193	124
Average number of hours worked per shift—	7.0	7.0	7.0	8.2	7.0	7.5	7.2
Average hourly earning of wage earners—	\$0.61	\$0.61	\$0.79	\$0.46	\$0.87	\$0.70	\$0.65
Tons of coal produced per man-hour—	0.67	0.67	0.72	0.98	0.42	—	—
Horsepower rating of power equipment, total—	4,464,851	4,384,477	3,326,209	21,052	1,037,216	10,806	69,568
Per wage earner—	9.8	9.7	9.0	14.2	12.5	25.7	391.9
Stationary equipment—	2,654,800	2,597,431	1,819,384	8,676	769,371	647	56,722
Mobile equipment—	1,809,851	1,787,046	1,506,825	12,376	267,845	10,159	12,646
Fuels consumed:							
Anthracite (tons of 2,000 pounds)—	\$2,528,687	2,524,316	—	1	2,524,315	(10)	4,371
Bituminous coal (tons of 2,000 pounds)—	\$2,581,889	2,581,889	2,548,074	29,110	4,705	(10)	—
Fuel oils (barrels of 42 gallons)—	\$248,975	248,975	164,015	2,659	82,301	(10)	—
Gasoline and kerosene (gallons)—	\$10,789,957	10,789,641	6,329,547	355,520	4,104,574	(10)	316
Natural gas (thousands of cubic feet)—	\$102,988	69,972	69,972	—	—	(10)	33,016
Electric energy consumed (thousands of kw.-hrs.), total—	\$3,540,123	3,522,861	2,564,012	7,405	951,444	(10)	17,262
Purchased—	\$2,549,679	2,532,422	1,947,863	7,275	577,284	(10)	17,257
Generated by reporting companies—	\$990,444	990,439	616,149	130	374,160	(10)	5

¹Bituminous coal includes all coal produced in the United States except lignite and Pennsylvania anthracite. "Lignite" includes all coal produced in areas mapped as "lignite" in Marius R. Campbell, The Coal Fields of the United States (U. S. Dept. Int., Geol. Survey, Professional Paper 100-A, 1922). "Pennsylvania anthracite" includes all coal (including that dredged from rivers) produced in the following counties: Berks, Carbon, Columbia, Dauphin, Lackawanna, Lebanon, Lehigh, Luzerne, Northampton, Northumberland, Schuylkill, Sullivan, Susquehanna, Wayne, and York. For explanations regarding operations included and terms used see footnotes to tables 2, 4, 25, 31, and 45 and the General Contract Services report, table 1.

²Includes statistics for Pennsylvania anthracite strip-pit and culm-bank contractors. Statistics for such contractors are shown separately in table 45.

³See the General Contract Services report, table 2, for separate statistics for concerns engaged chiefly in work for the bituminous-coal and lignite and Pennsylvania anthracite industries. Statistics for strip-pit and culm-bank contractors are included with those for "Producing operations."

⁴Companies with more than 1 type of operation, or in more than 1 industry, are counted only once in the totals.

⁵Includes 34 dredge operations, which are counted both as mines and as cleaning plants.

⁶To avoid duplication, excludes \$10,617,759 paid to Pennsylvania anthracite strip-pit and culm-bank contractors by colliery companies.

⁷For Pennsylvania anthracite includes value added in preparation during 1939 of coal mined prior to 1939.

⁸Excludes expenditures by general contract-service operators for contract work.

⁹Excludes statistics for general contract-service operations.

¹⁰Not available.

¹¹Contractors performing general services for the coal industries were not asked to report man-hours for inactive days, hence this item is excluded from the totals.

¹²Includes man-hours for culm banks.

¹³Includes man-hours worked at mine shops and yards; at coal tipplers, cleaning plants, breakers, and washeries; and at coal dredges.

OUTPUT PER MAN-HOUR AND HOURLY EARNINGS

The increase in mechanical loading, machine cutting, strip mining, and other technological changes in soft-coal mining in the past two decades is reflected in the rise in average output per man-hour. The average output of coal per man-hour worked by men performing manual labor increased, for the industry as a whole, from 0.48 net ton in 1919 to 0.60 ton in 1929 and to 0.75 ton in 1939.⁶ The 1939 average for the five States producing the largest quantity of coal was 0.79 net ton in West Virginia, 0.68 ton in Pennsylvania, 1.14 tons in Illinois, 0.66 ton in Kentucky, and 0.76 ton in Ohio. The average exceeded 1 ton per man-hour in Indiana, Montana, and Utah as well as in Illinois. In these States a relatively large proportion of the coal either is mined by stripping or is loaded mechanically underground.

The average hourly earning of workmen performing manual labor was 79 cents for the industry as a whole. The average was over 90 cents in the western States of Montana, Utah, Washington, and Wyoming and less than 65 cents in Alabama, Kansas, Missouri, Oklahoma, and Tennessee. Hourly earnings averaged 84 cents in West Virginia, 83 cents in Pennsylvania, 80 cents in Illinois, and 74 cents in Kentucky and Ohio. These figures for hourly earnings are approximate averages for all workmen performing manual labor and should not be interpreted as hourly wage rates. The latter apply to specific occupations and take into account special conditions.

MECHANICAL CLEANING

Statistics for 1939 show a continuation of the recent growth in the quantity of coal cleaned by mechanical means. The quantity of coal cleaned mechanically, including coal cleaned at consumer-operated washeries, more than doubled in the past decade. The quantity of cleaned coal produced increased from 36,779,000 net tons in 1929, or 6.9 percent of the total mine output in that year, to 79,377,000 net tons in 1939, or 20.1 percent of the 1939 output. Although cleaned coal represented a fifth of the national output in 1939, the proportion was considerably higher in some States, notably Alabama, Illinois, Kansas, Missouri, and Washington where the percentages were 82.5, 30.2, 42.5, 32.2, and 80.9, respectively.

Of the total quantity of mechanically cleaned coal produced in 1939, 67,682,000 net tons, or 85.3 percent, were cleaned by wet-washing methods at 328 plants and 11,695,000 net tons were cleaned by pneumatic methods at 69 plants. The 365 cleaning plants operating in 1939 (including 32 plants that used both wet and pneumatic methods) handled 88,816,000 net tons of raw coal, from which 9,440,000 tons of refuse were eliminated in the cleaning processes.

POWER EQUIPMENT

Prime movers and electric motors driven by purchased energy in use or available for use by the industry (including those at lignite mines) at the end of 1939 had an aggregate rated capacity of 3,347,000 horsepower. This represented 9.0 horsepower per wage earner compared with 6.8 in 1929 and 3.9 in 1919. Fifty-five percent of the horsepower in 1939—compared with 57 percent in 1929—was for driving stationary equipment such as electric generators, mine hoists, pumps, ventilating fans, "mother" conveyors, and cleaning-plant equipment. The remaining 45 percent was for driving mobile equipment such as mine locomotives, loading and cutting machines, power shovels, trucks, and tractors.

⁶ Because of a change in the method of reporting, the statistics on average production per man-hour for 1939 are not precisely comparable with those for years prior to 1932. Before 1932 they were based on the calculated number of man-hours obtained by multiplying the average number of men employed at each mine by the number of days worked at the mine and by the standard number of hours worked per shift. Since 1932, operators have been asked to report the number of man-shifts actually worked.

At the end of 1939 the aggregate horsepower rating of the 5,677 prime movers, such as steam engines and turbines, internal-combustion engines, water wheels, and water turbines, was 912,000; that of the 79,365 electric motors driven by purchased energy was 2,435,000. The rated horsepower of the 21,362 electric motors driven by energy generated by reporting companies was 621,000.

Important shifts have taken place in the past 2 decades in the relative importance of prime movers, electric motors driven by purchased energy, and electric motors driven by energy generated by the reporting companies. Between 1919 and 1929 there was an extraordinary increase of 212 percent in the horsepower rating of electric motors driven by purchased energy, whereas during the same interval the horsepower rating of motors driven by energy generated by reporting companies decreased 39 percent and that of prime movers declined 48 percent. Between 1929 and 1939, however, the trends changed; the horsepower rating of electric motors driven by purchased energy increased by only 1 percent, whereas that of electric motors driven by energy generated by the consuming operations and that of prime movers increased by 45 percent and 26 percent, respectively. That there has been a trend toward the use of electric energy generated by the industry and away from the use of purchased energy is directly indicated by the fact that the proportion of electric energy purchased declined from 81 percent of the total consumption in 1929 to 76 percent in 1939.

The change in the relative importance of the sources of the electric energy consumed has not interrupted the continued increase in total consumption. Electric energy consumed by the industry in 1939 amounted to 2,571,000,000 kilowatt-hours, an increase of 2.5 percent over that of 1929 despite a 27-percent decrease in the quantity of coal produced. In terms of kilowatt-hours per ton of coal produced, the consumption of electricity increased from 4.7 in 1929 to 6.5 in 1939, or 38 percent.

STRIP-PIT OPERATIONS

Bituminous coal was mined by stripping in 1939 by 443 companies operating 500 mines.⁷ The 36,303,000 net tons of bituminous coal and 1,420,000 net tons of lignite mined by stripping represented an increase of 86.1 percent over the quantity mined by this method in 1929.

Bituminous-coal strip mines were operated in 1939 in 18 States, Illinois, Indiana, Ohio, and Pennsylvania accounting for over three-fourths of the total strip-pit output. These States produced 33.3 percent, 24.5 percent, 11.5 percent, and 8.2 percent, respectively, of all coal mined by stripping. More than half of the bituminous coal mined in Indiana, Kansas, and Missouri, and one-fifth to two-fifths of that produced in Illinois, Iowa, Ohio, and Oklahoma were mined by this method.

Total wage payments at strip-pit operations aggregated \$16,205,000—an average of 81 cents per man-hour. Salary payments amounted to \$3,411,000. Supplies and materials cost \$9,731,000; fuel, \$1,156,000; purchased electric energy, \$2,534,000; and work done on contract by other concerns, \$713,000. These principal expenses totaled \$33,761,000 or about 6 percent of the expenses reported by the whole industry. The cost of buildings, machinery, and equipment erected or installed during the year amounted to \$5,453,000, of which \$4,273,000 was for machinery and equipment and \$1,181,000 was for buildings.

Strip-pit mines employed 11,240 of the 369,156 wage earners employed in the industry. In addition, 1,362 salaried employees and 368 proprietors and firm members (of whom 223 performed manual labor) were reported for October. The smallest

⁷ Thirty of these mines, located principally in Pennsylvania, recovered coal both by stripping and underground-mining methods. The coal mined underground at these operations amounted to 538,000 net tons, or 1.4 percent of both the strip-pit and underground output of the 500 mines.

numbers of wage earners were reported for the months of April, May, June, and July; the highest numbers, for October, November, December, and January. The numbers varied from a low of 8,907 in June to a peak of 13,461 in November. Workmen performing manual labor worked a total of 2,730,000 man-shifts or 19,997,000 man-hours, averaging 7.3 hours per shift. The strip-pit mines as a whole worked an average of 197 full days during the year.

The average output per man-hour at strip pits, 1.92 net tons, was almost three times as large as the average at underground mines, 0.70 net ton. Strip-pit mines in Illinois averaged 2.51 tons per man-hour; those in Indiana, 1.90 tons; those in Ohio, 1.77 tons; and those in Pennsylvania (including underground mining in instances where a mine used both methods), 1.27 tons.

Power equipment in use or available for use at the end of the year had an aggregate rated capacity of 292,000 horsepower, an average of 26.0 horsepower per wage earner compared with 8.5 horsepower per wage earner at underground mines. Electric energy consumed by stripping operations in 1939 amounted to 191,731,000 kilowatt-hours—an average of 5.2 kilowatt-hours per ton of coal produced.

Strip-pit mines were equipped at the end of the year with 877 power shovels and dragline excavators, of which 195 were

driven by steam engines, 176 by electric or Diesel-electric power, and 506 by gasoline engines. The dipper or bucket capacity of 659 of the power shovels and draglines was less than 3 cubic yards; for 99 units it was 3 to 5 cubic yards; for 68 units, 6 to 12 cubic yards; and for 51 units, including some of the largest power shovels made, more than 12 cubic yards.

NONPRODUCING MINES

The statistics summarized above cover producing operations only. Figures were excluded for 30 mines without products for which the reported principal expenses or cost of buildings, machinery, and equipment erected or installed during the year amounted to \$2,500 or more.

These mines employed 109 wage earners who, together with one working proprietor, worked 211,000 man-hours and received \$137,000 in compensation. Other principal expenses were \$62,000 for salaries paid to 34 employees, \$29,000 for supplies and materials, and \$38,000 for 3,425,000 kilowatt-hours of purchased electric energy. The cost of buildings, machinery, and equipment erected or installed during the year amounted to \$48,000. Power equipment available for use at the end of the year had an aggregate rated capacity of 17,000 horsepower.

MINERAL INDUSTRIES

TABLE 2.—PRINCIPAL STATISTICS FOR THE BITUMINOUS-COAL AND LIGNITE INDUSTRIES IN THE UNITED STATES:
1939, 1935, 1929, 1919, 1909, 1902, 1899, AND 1880¹
(For producing operations only)

ITEM	1939	1935	1929	1919	1909 ²	1902	1899	1880
Number of operating companies ³	5,138	(*)	(*)	(*)	3,506	4,409	(*)	(*)
Number of mines	5,817	6,511	5,620	8,282	6,016	5,652	12,141	8,144
Production of bituminous coal and lignite (tons of 2,000 pounds)	394,706,908	372,253,697	537,442,495	480,425,856	376,952,534	260,216,844	95,684,543	42,719,804
Value of products, total	\$750,814,876	\$658,474,535	\$966,695,771	\$1,145,977,565	\$401,800,054	\$290,858,485	\$94,504,745	\$55,467,448
Coal (value at mines or cleaning plants)	\$727,930,490	\$657,560,722	\$965,707,288	\$1,144,322,647	\$401,555,972	\$290,858,485	\$94,504,745	\$55,467,448
Other products and services rendered	\$22,884,386	\$915,813	\$986,483	\$1,654,918	\$244,082	(*)	(*)	(*)
Number of persons engaged, total	595,047	545,974	485,401	583,608	509,542	(*)	(*)	(*)
Wage earners (average for the year, including inactive periods)	370,636	435,426	458,732	545,798	488,000	728,638	169,104	109,014
Salaried employees	19,771	16,918	25,686	35,575	17,803	14,413	6,252	(*)
Proprietors and firm members	4,640	1,532	2,985	4,237	3,739	(*)	(*)	(*)
Performing manual labor	3,388	(*)	(*)	1,830	1,713	(*)	(*)	(*)
Principal expenses designated below, total	\$596,635,898	\$538,789,191	\$780,043,581	\$935,735,792	\$350,528,599	\$222,037,248	\$78,681,051	\$58,017,662
Wages	\$431,811,581	\$402,676,694	\$574,800,072	\$682,601,068	\$270,418,639	\$181,482,288	\$65,658,084	\$35,160,872
Salaries	\$44,359,202	\$32,531,000	\$58,648,600	\$68,689,036	\$20,428,207	\$14,511,924	\$4,194,489	(*)
Supplies and materials	\$88,406,870	\$73,704,997	\$108,438,398	\$142,432,551	\$49,975,916	\$24,798,922	\$8,006,227	\$4,856,790
Fuel	\$5,370,587	\$4,796,141	\$7,529,305	\$25,896,680	10 \$7,513,894	(*)	(*)	(*)
Purchased electric energy	\$24,856,161	\$25,080,559	\$30,739,581	10 \$11,280,509	\$2,191,745	\$1,244,114	\$822,251	(*)
Contract work	\$1,909,697	(*)	\$1,889,827	\$2,855,966	(*)	(*)	(*)	(*)
Cost of machinery and equipment erected or installed during year	\$25,351,396	(*)	\$34,947,424	(*)	(*)	(*)	(*)	(*)
Horsepower rating of power equipment, total	3,347,261	(*)	3,124,187	2,155,412	1,228,028	521,165	(*)	(*)
Per wage earner	9.0	(*)	6.8	3.9	2.5	1.9	(*)	(*)
Prime movers	912,400	(*)	721,687	1,385,954	1,202,732	518,806	11 55,674	12 26,246
Electric motors driven by purchased energy	2,434,861	(*)	2,402,500	13 771,478	25,294	14 2,359	(11)	(*)
Horsepower rating of electric motors driven by energy generated by reporting companies	621,456	(*)	429,970	707,341	329,298	65,972	(11)	(*)
Fuels consumed: 15								
Bituminous coal (tons of 2,000 pounds)	2,548,074	(*)	4,524,467	11,124,904	109,378,009	10 5,001,854	10 1,441,328	(*)
Fuel oils (barrels of 42 gallons)	184,015	(*)	16,951	3,235	(*)	(*)	(*)	(*)
Gasoline and kerosene (gallons)	6,329,547	(*)	754,974	796,446	(*)	(*)	(*)	(*)
Natural gas (thousands of cubic feet)	69,972	(*)	246,529	885,907	(*)	(*)	(*)	(*)
Electric energy consumed (thousands of kw.-hrs.), total ¹⁶	2,571,417	(*)	2,508,890	(*)	(*)	(*)	(*)	(*)
Purchased	1,955,138	(*)	2,044,349	(*)	(*)	(*)	(*)	(*)
Generated by reporting companies	616,279	(*)	464,541	(*)	(*)	(*)	(*)	(*)

¹For definition of the industries see table 1, footnote 1. For purposes of comparison with earlier years, statistics for the lignite industry in 1939 are combined in tables 2 and 3 with those for the bituminous-coal industry. The 1939 statistics cover bituminous-coal and lignite producing mines (and associated cleaning plants) and central cleaning plants that produced 1,000 tons or more of coal during the year or for which the reported principal expenses or cost of buildings, machinery, and equipment erected or installed during the year amounted to \$2,500 or more. The 1939 statistics include 19 mines that produced less than 1,000 tons of coal in 1939 but whose reported principal expenses or cost of buildings, machinery, and equipment amounted to \$2,500 or more during the year; these mines produced an aggregate of 10,045 tons, or about 0.005 percent of the total. Statistics for bituminous-coal mines that had no products are presented in table 25. Statistics for mines too small to come within the scope of the 1939 census canvass are presented in table 30.

Statistics for 1935 include mines and cleaning plants and for 1929 "enterprises" that produced 1,000 tons or more of coal. Statistics for 1919 include "enterprises" that produced 1,000 tons or more of coal or whose cost of development work amounted to \$5,000 or more. Statistics for 1909 represent mines that produced 1,000 tons or more of coal. No minimum was placed on the size of operations included for 1902, 1899, and 1880. In 1902 certain mines that produced less than 500 tons of coal were canvassed on an abbreviated schedule; statistics based on such schedules are included for 828 mines that produced 196,488 tons of coal and at which 433 wage earners were employed. More complete coverage of "local mines and farmers' banks" was obtained in the 1899 census; statistics for 9,920 such mines are included. In 1880 statistics (except those for supplies and materials and fuel) include 5,148 "farmers' diggings" east of the 100th meridian at which 916,786 tons of coal were produced. Statistics for Alaska are excluded for all years except 1902; the 2 mines reported for Alaska in 1902 produced 2,212 tons of coal valued at \$19,048.

²Excludes statistics for coke manufacture at mines, partly by estimate.

³For 1939 and 1909 companies that submitted more than 1 report are counted only once in the totals.

⁴Not available.

⁵Excludes statistics for items for which information was not available as indicated by footnotes.

⁶Excludes statistics for number and compensation of persons engaged at central offices not located on the mine property. Figures for number and compensation of wage earners and salaried employees include, and the figure for number of proprietors and firm members excludes, statistics for proprietors and firm members at 2,025 small mines.

⁷On schedules for the 1902 census concerns were instructed that "The average number employed during the year is the number that would be required, at continuous employment for the twelve months, to produce the quantity of product reported." "In editing the schedules . . . the figures for the average number of employees were reduced to a 500-day basis whenever the schedule showed them to be the average number for a shorter period; when it was evident that the employees had worked more than 500 days, the average number for the longer period was allowed to stand."

⁸The 1899 census schedules called for "average number employed," presumably an average for active periods; and requested that figures for wage earners "include those employed by contractors and subcontractors."

⁹Excludes cost of coal used at mines for power and heat.

¹⁰Includes amounts paid for purchased power other than electric.

¹¹Statistics for "prime movers" represent horsepower of steam boilers. Statistics were also reported for 36 "motors" having an aggregate of 1,221 horsepower. The 1889 census did not report horsepower statistics for California, Illinois, Iowa, Oregon, Pennsylvania, and Rhode Island, although these States produced approximately 52,000,000 tons of coal during the census year. The 1880 census showed for these States 758 steam boilers with an aggregate of 21,890 horsepower and production of approximately 28,000,000 tons of bituminous coal during the census year.

¹²Represents horsepower of steam engines.

¹³Includes 347 horsepower for equipment operated by purchased power other than electric.

¹⁴Includes 192 horsepower for equipment operated by purchased power other than electric.

¹⁵Statistics for fuels include, in addition to purchased fuels, those produced and consumed by the reporting companies. No anthracite was reported consumed in 1939, 1929, or 1919. For 1939 the figures for fuel oils, gasoline and kerosene, and electric energy consumed include estimates for bituminous-coal mines producing less than 50 tons daily canvassed by an abbreviated questionnaire that did not request statistics on the quantity of energy consumed (see table 17, footnote 1, for an explanation of the method used to obtain the estimated figures); for 1929 statistics were excluded for enterprises whose value of products was less than \$20,000.

¹⁶Represents coal used at mines for steam and heat.

BITUMINOUS COAL

231

TABLE 3.—SUMMARY FOR THE BITUMINOUS-COAL AND LIGNITE INDUSTRIES IN THE UNITED STATES, BY STATE: 1939, 1929, AND 1919¹
(For producing operations only)

STATE AND CENSUS YEAR	Number of mines	Production of coal (tons of 2,000 pounds)	Value of all products	NUMBER OF PERSONS ENGAGED					
				Total	Wage earners (average for the year)	Salaried employees	Proprietors and firm members		
							Total	Performing manual labor	
United States	1939	5,817	394,706,908	\$730,814,676	2 395,047	370,636	2 19,771	4,640	3,588
	1929	5,620	537,442,495	986,693,771	3 485,401	458,732	3 23,686	2,983	(4)
	1919	8,282	460,425,836	1,145,977,565	583,608	545,798	33,573	4,237	1,630
Alabama	1939	231	12,046,675	27,790,156	20,105	19,178	728	199	150
	1929	180	18,189,453	38,564,531	26,039	24,781	1,219	39	(4)
	1919	260	15,411,436	45,359,441	26,162	24,648	1,481	33	4
Arkansas	1939	78	1,152,038	3,655,657	2,801	2,614	145	42	30
	1929	86	1,823,524	6,172,710	3,880	3,651	176	53	(4)
	1919	91	1,440,493	5,292,274	3,095	2,787	230	78	63
Colorado	1939	211	5,923,210	14,952,288	8,294	7,607	507	180	159
	1929	176	9,832,839	26,553,407	10,957	10,420	440	97	(4)
	1919	164	10,182,512	28,342,195	12,017	11,252	709	56	43
Illinois	1939	546	46,782,691	76,863,708	33,907	31,013	2,395	499	378
	1929	401	60,705,123	114,617,799	52,196	49,817	2,114	265	(4)
	1919	499	60,530,650	138,767,835	77,825	75,780	3,946	199	114
Indiana	1939	266	16,942,772	25,175,969	9,318	8,541	549	228	167
	1929	235	18,624,508	31,501,936	13,711	12,860	652	199	(4)
	1919	317	20,504,791	45,492,726	25,911	24,479	1,262	170	116
Iowa	1939	271	2,847,557	7,189,337	5,037	4,565	209	263	197
	1929	172	4,285,368	11,632,816	6,368	5,942	266	160	(4)
	1919	195	5,474,249	16,903,558	11,239	10,584	477	178	136
Kansas	1939	93	2,674,691	5,057,992	2,597	2,378	124	97	84
	1929	155	2,986,190	6,952,929	3,716	3,405	106	205	(4)
	1919	166	5,204,388	15,748,535	8,622	8,084	427	111	78
Kentucky	1939	478	42,556,568	74,163,950	49,072	46,826	2,000	246	170
	1929	500	60,694,039	95,647,618	57,912	54,904	2,880	128	(4)
	1919	742	29,426,018	72,432,840	43,347	39,769	3,520	258	96
Maryland	1939	85	1,442,728	2,977,753	2,318	2,100	154	84	60
	1929	63	2,638,216	4,745,279	3,202	3,042	139	21	(4)
	1919	92	2,997,336	6,195,667	5,130	4,825	325	29	10
Michigan	1939	11	456,754	1,723,104	892	802	79	1	(4)
	1929	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(4)
	1919	14	995,999	3,861,874	1,744	1,654	90	174	133
Missouri	1939	180	3,273,550	6,138,612	3,661	3,275	212	174	(4)
	1929	190	3,963,458	9,667,708	5,086	4,657	255	174	85
	1919	196	3,783,714	12,077,845	7,852	7,285	410	157	75
Montana	1939	76	2,803,749	4,094,749	1,408	1,244	77	87	(4)
	1929	68	3,442,518	7,448,138	2,154	1,985	115	56	37
	1919	76	3,211,719	8,591,211	4,056	3,797	189	70	27
New Mexico	1939	42	1,230,060	3,579,049	2,387	2,195	180	34	(4)
	1929	43	2,631,512	8,324,312	3,524	3,120	185	19	5
	1919	54	3,185,484	9,905,541	3,774	3,584	200	10	96
North Dakota	1939	102	2,072,493	2,445,808	1,058	859	82	115	(4)
	1929	115	1,853,604	3,206,931	1,175	994	67	114	23
	1919	79	767,695	1,927,304	939	774	90	75	542
Ohio	1939	656	20,289,553	33,342,461	19,113	17,585	1,018	504	(4)
	1929	561	24,091,756	36,916,271	22,988	21,739	625	504	312
	1919	898	35,140,541	77,988,602	43,433	40,452	2,559	822	44
Oklahoma	1939	88	1,187,562	2,504,489	1,565	1,409	115	63	(4)
	1929	113	3,795,174	10,789,776	5,016	4,716	258	42	21
	1919	131	3,782,794	14,477,317	8,296	7,040	1,225	33	671
Pennsylvania	1939	1,258	92,584,113	188,925,306	99,352	93,035	5,294	1,025	(4)
	1929	1,387	144,111,440	282,456,657	126,321	121,000	4,676	645	575
	1919	2,584	150,029,697	362,973,952	165,044	154,992	8,509	1,743	5
South Dakota	1939	4	47,782	64,398	39	28	6	5	(4)
	1929	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(4)
	1919	5	9,306	29,892	16	8	8	8	7
Tennessee	1939	123	5,185,481	10,104,223	7,559	7,081	588	90	64
	1929	78	5,405,023	9,369,074	7,287	6,822	448	17	(4)
	1919	143	5,132,167	14,024,432	10,170	9,556	578	36	9
Texas	1939	12	826,317	923,173	657	617	31	9	5
	1929	26	1,106,397	1,674,171	1,309	1,235	67	7	(4)
	1919	42	1,588,240	4,322,100	2,862	2,711	147	4	2
Utah	1939	51	3,284,904	7,025,257	2,618	2,328	260	30	23
	1929	40	5,131,634	13,145,832	3,746	3,452	281	13	(4)
	1919	34	4,592,847	12,632,035	3,926	3,647	253	26	9
Virginia	1939	112	13,530,974	24,993,885	15,856	15,065	717	54	34
	1929	88	12,745,100	21,162,036	12,478	11,966	494	28	(4)
	1919	118	9,334,786	23,763,440	11,940	11,215	683	42	11
Washington	1939	52	1,690,442	5,261,681	2,409	2,219	137	53	42
	1929	38	2,802,030	8,639,739	2,977	2,855	128	14	(4)
	1919	43	2,988,910	10,737,656	4,654	4,413	231	10	7
West Virginia	1939	721	108,361,934	190,688,091	98,342	94,084	3,965	293	205
	1929	830	139,031,657	217,022,962	104,349	99,217	4,971	161	(4)
	1919	1,287	77,617,115	195,108,343	93,767	87,095	6,599	273	63
Wyoming	1939	66	5,373,299	11,078,017	4,353	4,074	226	53	45
	1929	50	6,700,272	17,118,590	4,903	4,693	198	12	(4)
	1919	65	7,212,006	18,723,451	7,427	7,091	322	14	6
Other States	1939*	6	39,021	115,688	128	120	2	6	6
	1929*	25	651,660	3,162,659	1,587	1,491	86	10	(4)
	1919*	7	82,953	297,699	310	295	13	2	

¹For explanations of extent of comparability of statistics for 1939, 1929, and 1919 see table 2, footnote 1.

*Includes statistics for 213 central-office employees in Minnesota and New York; these employees were paid \$565,159.

*Includes statistics for 2,860 central-office employees for which statistics by States are not available; these employees were paid \$9,806,570.

*Not available.

MINERAL INDUSTRIES

TABLE 3.—SUMMARY FOR THE BITUMINOUS-COAL AND LIGNITE INDUSTRIES IN THE UNITED STATES, BY STATE: 1939, 1929, AND 1919¹—Contd.
(For producing operations only)

STATE AND CENSUS YEAR	PRINCIPAL EXPENSES DESIGNATED BELOW							HORSEPOWER RATING OF POWER EQUIPMENT	
	Total	Wages	Salaries	Supplies and materials	Fuel	Purchased electric energy	Contract work	Total	Per wage earner
United States—1939	\$596,693,898	\$431,611,581	\$44,339,202	\$88,406,570	\$5,370,587	\$24,856,161	\$1,909,697	3,347,261	9.0
1929	780,043,381	574,800,072	58,646,800	108,438,396	7,529,305	30,739,381	1,889,627	3,124,187	6.8
1919	935,735,792	682,801,068	68,689,038	142,482,551	25,896,660	11,280,509	2,855,966	2,155,065	3.9
Alabama—1939	23,050,858	16,834,006	1,584,786	3,714,017	183,833	672,397	81,799	150,302	7.8
1929	33,761,052	25,666,802	2,757,524	5,449,588	242,057	1,555,984	91,317	186,875	7.5
1919	38,725,019	28,327,420	2,980,675	5,420,177	1,456,184	472,190	88,373	97,089	3.9
Arkansas—1939	3,126,523	2,116,629	248,540	541,854	24,499	191,605	5,596	25,214	9.6
1929	4,771,236	3,630,148	325,872	548,991	49,346	202,844	15,255	20,658	5.7
1919	4,899,806	3,475,019	384,276	716,615	171,596	95,649	56,651	15,027	5.4
Colorado—1939	12,254,496	8,708,595	1,008,336	1,715,971	299,871	518,243	8,680	83,924	11.0
1929	20,824,446	15,700,860	1,198,750	2,816,787	335,088	725,655	251,306	77,174	7.4
1919	22,543,503	16,833,313	1,576,597	3,052,028	622,923	442,261	16,361	62,916	5.6
Illinois—1939	57,696,088	35,203,157	6,163,819	12,351,391	1,060,976	2,926,807	189,938	510,943	16.5
1929	90,219,849	68,922,106	4,812,133	12,115,682	1,574,287	2,591,524	204,107	343,128	6.9
1919	116,587,549	87,796,328	8,553,695	15,345,498	4,154,744	668,142	68,942	247,142	3.3
Indiana—1939	17,857,332	10,714,961	1,225,398	4,401,196	415,862	1,005,518	96,597	142,632	16.7
1929	24,885,734	18,101,859	1,501,699	3,718,903	510,387	989,641	43,245	106,809	8.3
1919	58,354,803	27,877,669	3,389,639	5,379,400	1,455,123	159,146	103,826	99,585	4.1
Iowa—1939	5,814,825	4,404,455	347,924	736,553	120,910	187,634	17,439	28,583	6.3
1929	9,800,529	7,820,575	640,178	989,425	121,069	227,112	2,170	25,763	4.3
1919	15,252,636	11,687,918	1,202,866	1,758,025	449,697	120,666	33,464	26,118	2.5
Kansas—1939	3,514,541	1,962,187	235,244	778,029	32,338	334,932	1,851	22,795	9.6
1929	4,618,802	3,617,171	226,711	710,406	121,730	135,487	7,097	18,548	5.4
1919	15,220,940	9,949,156	824,528	1,908,063	479,320	55,520	6,353	23,434	2.9
Kentucky—1939	63,947,552	48,674,395	3,819,406	8,691,261	257,728	2,420,384	84,378	258,717	5.5
1929	80,447,826	60,155,056	5,785,417	10,923,814	584,584	2,977,508	41,408	290,985	5.3
1919	65,055,955	45,615,853	6,172,657	10,944,940	1,553,058	568,435	199,012	126,804	3.2
Maryland—1939	2,717,630	2,072,869	219,777	324,138	38,217	59,461	3,128	11,721	5.6
1929	4,144,131	3,114,226	335,350	524,138	129,680	50,041	11,545	12,470	3.8
1919	7,189,785	5,386,509	679,177	929,325	133,398	50,041	11,545	12,470	2.6
Michigan—1939	1,566,642	1,065,158	245,094	145,464	85,244	25,151	531	6,940	8.7
1929	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(4)
1919	3,159,960	1,987,732	206,094	584,557	264,876	56,701	6,884	37,337	4.2
Missouri—1939	4,432,791	2,631,109	481,704	865,750	93,352	346,582	4,294	37,337	11.4
1929	7,178,568	5,150,487	481,235	1,145,658	136,956	241,816	22,216	34,812	7.5
1919	11,120,898	8,158,932	777,905	1,381,223	427,842	70,897	306,081	28,585	3.9
Montana—1939	2,615,773	1,646,877	190,159	806,672	17,578	149,722	2,987	24,232	19.5
1929	4,945,318	3,420,551	320,498	813,641	37,462	156,490	196,876	28,696	14.8
1919	7,591,827	5,703,810	557,054	1,153,810	280,309	59,979	6,665	27,077	7.1
New Mexico—1939	3,014,500	2,082,673	395,013	559,993	79,131	96,665	25	21,552	9.7
1929	6,182,394	4,587,017	477,802	859,312	136,254	67,201	102,859	18,063	5.1
1919	7,442,091	5,841,744	518,291	975,742	136,254	121,511	5,584	14,144	16.5
North Dakota—1939	1,480,118	855,920	161,118	288,926	37,059	67,931	8,748	10,310	10.4
1929	1,931,997	1,289,376	187,878	548,451	49,615	4,841	30,750	2,037	2.8
1919	1,540,849	1,029,126	159,646	285,633	32,858	1,076,327	257,228	130,875	7.5
Ohio—1939	28,112,515	20,476,278	2,183,486	3,716,809	422,587	1,173,371	89,095	112,977	5.2
1929	31,326,870	24,446,839	1,478,640	3,894,114	244,611	925,302	371,663	138,025	3.4
1919	64,688,028	47,748,648	5,105,097	9,105,833	1,435,483	128,021	24,991	20,474	14.5
Oklahoma—1939	2,012,106	1,222,458	171,106	429,284	38,296	295,373	1,824	27,789	5.9
1929	8,774,466	6,392,491	577,102	1,384,555	125,131	112,573	58,140	36,463	5.2
1919	11,921,076	8,789,936	932,542	1,391,771	636,514	5,904,341	722,158	829,350	8.9
Pennsylvania—1939	156,612,184	118,996,537	12,449,367	19,550,490	1,189,293	8,574,753	464,748	937,157	7.7
1929	208,168,131	157,750,207	11,668,406	27,914,503	1,815,514	5,522,701	618,094	658,898	4.3
1919	286,040,737	211,346,693	18,041,223	44,912,367	7,599,659	5,797	1,585	235	8.4
South Dakota—1939	41,462	16,780	12,900	4,315	(5)	(5)	(5)	(5)	(4)
1929	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(4)
1919	12,465	11,423	937	937	105	290,028	8,181	48,268	8.5
Tennessee—1939	8,646,377	6,580,669	731,935	977,572	57,994	317,599	5,693	30,684	4.5
1929	8,163,814	5,999,623	956,020	785,744	99,135	50,655	72,922	22,948	2.4
1919	12,228,412	8,699,951	1,031,816	2,009,072	383,996	22,580	7,268	7,268	11.8
Texas—1939	635,095	506,858	35,809	59,684	10,164	24,374	4,545	4,968	4.0
1929	1,223,090	946,990	113,496	120,193	18,037	597	6,137	40,190	2.5
1919	3,596,829	2,849,526	270,532	387,935	85,496	515,285	115,657	35,386	17.3
Utah—1939	5,146,415	3,308,153	643,529	864,754	16,894	428,784	115,657	24,029	6.6
1929	9,673,527	6,835,673	825,246	1,640,510	27,655	832,621	21,461	85,240	5.5
1919	10,004,659	7,598,767	571,893	1,684,955	169,948	1,061,402	2,344	72,126	6.0
Virginia—1939	20,784,824	15,781,303	1,365,086	2,737,862	46,491	459,263	222,260	41,630	3.7
1929	18,750,281	11,846,453	1,193,145	2,564,208	62,729	175,425	3,872	34,533	15.5
1919	18,658,487	12,961,591	1,300,129	3,432,448	283,796	232,900	27,502	32,190	7.3
Washington—1939	4,159,798	2,947,284	305,963	677,881	48,393	94,733	554,799	764,029	8.1
1929	5,985,130	4,698,325	296,359	696,688	60,858	6,801,801	292,028	642,878	8.5
1919	9,080,325	6,515,988	485,014	1,376,254	547,724	2,853,341	405,581	355,422	4.1
West Virginia—1939	159,017,363	119,563,908	9,917,376	22,774,730	604,768	8,124,328	52,237	52,237	12.8
1929	171,764,758	126,350,696	11,969,042	24,293,487	735,159	2,725,087	31,771	45,466	9.7
1919	149,996,005	105,761,150	12,267,562	25,983,284	1,501,705	291,546	1,232	47,075	8.6
Wyoming—1939	7,777,029	5,390,056	553,184	1,750,139	368,141	393,788	440	128	1.0
1929	11,689,731	8,716,950	680,038	2,287,971	11,916	52,187	2,944	8,243	5.5
1919	14,416,578	10,945,034	2,715	613,601	41,097	64	10,217	1,200	4.1
Other States—1939	98,802	55,625	198,531	38,688	(5)	(5)	(5)	(5)	(4)
1929	2,845,731	1,859,552	22,294	(5)	(5)	(5)	(5)	(5)	(4)
1919	416,172	308,812	(5)	(5)	(5)	(5)	(5)	(5)	(4)

¹Included in "Other States."²Arizona, Georgia, Idaho, and Oregon.³Arizona, Georgia, Michigan, North Carolina, Oregon, and South Dakota.⁴California, Georgia, Idaho, North Carolina, and Oregon.

BITUMINOUS COAL

233

TABLE 4.—PRINCIPAL STATISTICS FOR THE BITUMINOUS-COAL INDUSTRY IN THE UNITED STATES, BY STATE: 1939¹

(For producing operations only)

ITEM	United States	Alabama	Arkansas	Colorado	Illinois	Indiana	Iowa	Kansas
Number of operating companies ²	5,009	202	78	197	528	248	264	91
Number of mines	5,686	231	78	211	546	266	271	95
Number of cleaning plants	365	52	1	11	45	16		6
Production of coal:								
Tons of 2,000 pounds, total	391,728,862	12,046,675	1,152,038	5,923,210	46,782,691	16,942,772	2,947,557	2,674,691
From underground mines	354,892,905	11,985,064	1,105,135	(³)	34,694,155	8,045,402	2,361,881	696,114
From strip pits	35,646,116	61,611	14,637	(³)	12,088,536	8,897,370	585,676	1,978,577
From combination (underground and strip-pit) mines	1,189,841		32,266					
Value at mines or cleaning plants ⁴	\$724,475,837	\$27,741,791	\$3,655,438	\$14,620,726	\$76,680,593	\$25,101,972	\$7,189,245	\$5,057,992
Value of all products	\$727,357,537	\$27,790,156	\$3,655,657	\$14,952,288	\$76,863,708	\$25,175,989	\$7,189,337	\$5,057,992
Number of persons engaged, total	533,308	20,105	2,801	8,294	33,907	9,318	5,037	2,597
Wage earners (average for the year, including inactive periods)	369,156	19,178	2,614	7,607	31,013	8,541	4,565	2,376
Salaried employees ⁵	19,656	728	145	507	2,595	549	209	124
Proprietors and firm members	4,496	199	42	180	499	228	263	97
Performing manual labor	3,270	150	30	139	376	167	197	84
Principal expenses designated below, total	\$594,511,894	\$23,050,838	\$3,126,523	\$12,254,496	\$57,896,068	\$17,857,332	\$5,614,925	\$3,314,541
Wages ⁷	\$430,427,148	\$16,834,006	\$2,116,629	\$8,703,595	\$35,203,157	\$10,714,961	\$4,404,455	\$1,932,187
Salaries	\$44,120,411	\$1,564,786	\$248,540	\$1,008,336	\$6,163,619	\$1,223,398	\$347,924	\$235,244
Supplies and materials	\$88,064,351	\$3,714,017	\$541,854	\$1,715,971	\$12,351,391	\$4,401,196	\$736,565	\$778,029
Fuel	\$5,290,556	\$183,835	\$24,499	\$299,671	\$1,060,976	\$415,862	\$120,910	\$32,358
Purchased electric energy	\$24,711,182	\$72,397	\$191,605	\$518,245	\$2,926,807	\$1,005,318	\$187,654	\$354,932
Contract work	\$1,898,256	\$81,799	\$3,396	\$8,680	\$169,938	\$86,597	\$17,439	\$1,851
Cost of buildings, machinery, and equipment erected or installed during year	\$30,561,244	\$1,299,226	\$72,697	\$695,507	\$3,676,598	\$1,260,506	\$100,433	\$122,954
Buildings	\$5,303,434	\$301,068	\$13,489	\$72,809	\$1,319,589	\$376,726	\$17,478	\$10,520
Machinery and equipment, total	\$25,257,810	\$998,158	\$59,208	\$622,698	\$2,357,009	\$883,782	\$82,955	\$112,434
Purchased in new condition	\$22,315,388	\$919,863	\$29,007	\$506,986	\$2,072,819	\$637,875	\$46,992	\$94,365
Purchased in used condition	\$2,942,421	\$78,275	\$30,201	\$115,712	\$284,190	\$245,907	\$35,963	\$18,069
Total number of man-shifts worked by wage earners and working proprietors ⁸	77,729,951	3,961,824	445,592	1,526,292	6,289,257	1,856,838	940,568	530,905
Man-shifts worked by wage earners only	77,166,177	3,937,856	441,201	1,498,615	6,227,657	1,825,828	910,657	516,814
Total number of man-hours worked by wage earners and working proprietors ⁸	546,120,261	27,776,037	3,130,658	10,702,959	44,167,453	13,202,104	6,709,785	3,766,900
Man-hours worked by wage earners only	542,100,064	27,609,662	3,099,495	10,506,425	43,750,152	12,976,027	6,494,974	3,664,219
Average number of hours worked per shift by wage earners and working proprietors	7.0	7.0	7.0	7.0	7.0	7.1	7.1	7.1
Average hourly earning of wage earners and working proprietors	\$0.79	\$0.61	\$0.68	\$0.81	\$0.80	\$0.81	\$0.66	\$0.61
Average number of wage earners and working proprietors on active days, all mines ⁹	419,811	20,884	4,004	8,161	35,894	9,766	6,251	2,858
At underground mines	406,466	20,759	3,886	(³)	33,032	6,446	5,821	2,023
At strip pits	12,188	125	33	(³)	2,862	3,320	430	835
At combination mines	1,157		85					
Number of man-shifts worked by wage earners and working proprietors on active days, all mines ⁹	74,822,486	3,811,442	427,271	1,438,069	5,866,034	1,731,352	920,226	509,791
At underground mines	72,199,558	3,798,339	413,635	(³)	5,192,112	1,083,362	846,342	354,264
At strip pits	2,437,880	13,103	4,122	(³)	673,922	647,990	73,884	155,527
At combination mines	185,048		9,514					
Number of man-hours worked by wage earners and working proprietors on active days, all mines ⁹	525,650,246	26,726,355	3,002,304	10,072,006	41,185,180	12,317,616	6,566,894	3,618,447
At underground mines	506,406,147	26,629,374	2,900,552	(³)	36,370,219	7,624,969	6,009,850	2,490,402
At strip pits	17,905,804	96,961	35,154	(³)	4,814,961	4,692,647	557,044	1,128,045
At combination mines	1,318,295		66,598					
Tons of coal produced per man-hour, all mines ¹⁰	0.745	0.451	0.384	0.588	1.136	1.375	0.449	0.739
At underground mines	0.701	0.450	0.381	(³)	0.954	1.055	0.393	0.280
At strip pits	1.991	0.655	0.416	(³)	2.511	1.896	1.051	1.754
At combination mines	0.903		0.484					
Average number of equivalent full days operations were active, all mines	178	183	107	176	163	177	147	178
Underground mines	178	183	106	(³)	157	168	145	175
Strip pits	200	105	125	(³)	235	195	172	186
Combination mines	165		112					
Horsepower rating of power equipment, total	3,326,209	180,302	25,214	83,924	510,943	142,632	28,585	22,795
Per wage earner	9.0	7.8	9.6	11.0	16.5	16.7	6.3	9.6
Stationary equipment ¹¹	1,819,394	119,485	17,033	64,876	265,852	67,926	16,279	11,105
Mobile equipment ¹²	1,506,825	30,817	8,181	19,048	245,091	74,706	12,304	11,690
Electric energy consumed (thousands of kw.-hrs.), total ¹³	2,564,012	158,910	9,351	32,946	269,980	80,063	18,014	20,296
Purchased	1,947,863	66,562	9,351	24,179	191,590	70,087	17,603	20,268
Generated by reporting companies	616,149	92,348		8,767	78,390	9,976	411	28

¹ For definition of the industry see footnote 1 to tables 1 and 2.² Companies with operations in more than 1 State are counted only once in the totals. Of this number, 34 companies had operations in 2 of the designated States; 5, in 3 of the States; and 1, in 4 of the States.³ Not shown separately, included in total for United States.⁴ Value of all coal produced, f.o.b. mine or cleaning plant, excluding selling expense. The value of cleaned coal, rather than that of raw coal, was used in the cases of operations that cleaned coal.⁵ Includes statistics for 209 central-office employees in Minnesota and New York; these employees were paid \$555,791.⁶ Excludes salaried employees at mines producing less than 50 tons daily that were canvassed by an abbreviated questionnaire. The number of salaried employees at these mines, which produced 2.0 percent of the total output of bituminous coal, is believed to be negligible.⁷ Includes wages and salaries (together amounting to 2.3 percent of the total "wages" shown for the United States) paid at mines producing less than 50 tons daily that were canvassed by an abbreviated questionnaire. The instructions on this questionnaire directed that the value of work performed at the mines by owners or partners be included; profits in excess of reasonable wages, however, were to be excluded.⁸ For an explanation of the method used to obtain man-shift and man-hour statistics for operations that did not keep actual records see table 8, footnote 1.⁹ Statistics for underground mines include figures for 17 central cleaning plants; statistics for all other cleaning plants are included with figures for associated mines.¹⁰ Represents tons of coal produced divided by total number of man-hours worked by wage earners and working proprietors on active days. Tons of coal produced divided by total man-hours worked by wage earners (including all days, but excluding working proprietors) is 0.723.¹¹ Aggregate horsepower rating of engines, motors, etc., used for driving stationary or fixed equipment such as mine hoists, pumps, crushers, ventilating fans, compressors, etc.¹² Aggregate horsepower rating of engines, motors, etc., used for driving mobile equipment such as power shovels, locomotives, trucks, tractors, churn drills, etc.¹³ For an explanation of the method used to estimate statistics for electric energy consumed by mines producing less than 50 tons daily canvassed by an abbreviated questionnaire see table 17, footnote 1.

MINERAL INDUSTRIES

TABLE 4.—PRINCIPAL STATISTICS FOR THE BITUMINOUS-COAL INDUSTRY IN THE UNITED STATES, BY STATE: 1939¹—Continued
(For producing operations only)

ITEM	Kentucky	Maryland	Michigan	Missouri	Montana	New Mexico	Ohio	Oklahoma
Number of operating companies ²	424	76	11	179	58	37	614	86
Number of mines	478	83	11	180	59	42	656	88
Number of cleaning plants	12	1	3	10	2	1	7	
Production of coal:								
Tons of 2,000 pounds, total	42,556,568	1,442,728	456,754	3,273,550	2,756,056	1,230,060	20,289,553	1,187,562
From underground mines	41,746,669	1,442,728	456,754	999,995	(³)	1,230,060	16,075,377	687,166
From strip pits	779,573			2,273,555	(³)		4,127,062	500,396
From combination (underground and strip-pit) mines	50,326						87,064	
Value at mines or cleaning plants ⁴	\$74,078,412	\$2,938,958	\$1,723,104	\$6,138,603	\$4,016,427	\$3,503,032	\$33,127,116	\$2,506,450
Value of all products	\$74,163,830	\$2,977,753	\$1,723,104	\$6,138,612	\$4,016,519	\$3,579,049	\$33,342,461	\$2,504,489
Number of persons engaged, total	49,072	2,318	882	3,661	1,331	2,387	19,113	1,585
Wage earners (average for the year, including inactive periods)	46,326	2,100	802	3,275	1,193	2,193	17,385	1,409
Salaried employees ⁵	2,000	134	79	212	69	160	1,018	113
Proprietors and firm members	246	84	1	174	69	34	710	63
Performing manual labor	170	60		133	59	27	542	44
Principal expenses designated below, total	\$53,947,552	\$2,717,630	\$1,566,642	\$4,432,791	\$2,551,159	\$3,014,500	\$28,112,515	\$2,012,106
Wages ⁷	\$49,674,395	\$2,072,889	\$1,065,158	\$2,631,109	\$1,607,305	\$2,082,673	\$20,476,278	\$1,222,458
Salaries	\$3,819,406	\$219,777	\$245,094	\$491,704	\$185,690	\$395,013	\$2,163,486	\$171,106
Supplies and materials	\$6,691,261	\$324,138	\$145,464	\$865,750	\$592,113	\$359,993	\$3,716,609	\$429,234
Fuel	\$257,728	\$39,217	\$95,244	\$93,352	\$15,300	\$78,131	\$422,587	\$38,296
Purchased electric energy	\$2,420,384	\$58,481	\$25,151	\$346,582	\$147,624	\$98,665	\$1,076,527	\$126,021
Contract work	\$54,378	\$3,128	\$531	\$4,294	\$2,927	\$25	\$257,228	\$24,991
Cost of buildings, machinery, and equipment erected or installed during year	\$2,198,741	\$109,424	\$10,216	\$204,487	\$129,974	\$37,581	\$2,543,728	\$133,972
Buildings	\$412,270	\$3,032	\$1,252	\$18,943	\$14,317	\$3,504	\$236,216	\$5,922
Machinery and equipment, total	\$1,786,471	\$106,392	\$8,964	\$185,544	\$115,657	\$34,077	\$2,307,512	\$128,050
Purchased in new condition	\$1,589,142	\$103,781	\$4,060	\$88,576	\$60,178	\$21,645	\$1,825,092	\$32,610
Purchased in used condition	\$217,329	\$2,611	\$4,904	\$96,968	\$55,479	\$12,432	\$482,420	\$95,440
Total number of man-shifts worked by wage earners and working proprietors ⁸	9,375,987	430,949	188,396	726,644	248,413	384,551	3,898,899	285,001
Man-shifts worked by wage earners only	9,346,694	420,221	188,396	707,437	238,437	378,622	3,799,921	278,963
Total number of man-hours worked by wage earners and working proprietors ⁸	66,080,265	3,043,113	1,519,079	5,309,825	1,772,906	2,705,912	27,547,561	2,053,178
Man-hours worked by wage earners only	65,883,805	2,967,010	1,519,079	5,187,488	1,698,667	2,663,526	26,840,292	2,008,703
Average number of hours worked per shift by wage earners and working proprietors	7.0	7.1	7.0	7.3	7.1	7.0	7.1	7.2
Average hourly earning of wage earners and working proprietors	\$0.74	\$0.68	\$0.81	\$0.50	\$0.81	\$0.77	\$0.74	\$0.80
Average number of wage earners and working proprietors on active days, all mines	50,641	2,351	1,154	4,493	1,383	2,199	21,642	2,052
At underground mines	50,482	2,351	1,154	3,524	(³)	2,199	20,135	1,787
At strip pits	128			969	(³)		1,425	245
At combination mines	33						82	
Number of man-shifts worked by wage earners and working proprietors on active days, all mines ⁹	9,097,560	419,554	179,415	712,134	232,259	364,519	3,791,587	270,561
At underground mines	9,066,240	419,554	179,415	520,125	(³)	364,519	3,479,972	219,437
At strip pits	27,042			192,009	(³)		292,248	51,124
At combination mines	4,278						19,367	
Number of man-hours worked by wage earners and working proprietors on active days, all mines ⁹	64,124,141	2,963,343	1,255,906	5,202,343	1,654,505	2,559,587	26,791,872	1,946,926
At underground mines	63,878,906	2,963,343	1,255,906	3,781,239	(³)	2,559,587	24,414,063	1,533,832
At strip pits	213,819			1,421,104	(³)		2,234,709	415,094
At combination mines	31,416						143,100	
Tons of coal produced per man-hour, all mines ¹⁰	0.664	0.487	0.364	0.629	1.661	0.481	0.757	0.609
At underground mines	0.654	0.487	0.364	0.264	(³)	0.481	0.658	0.442
At strip pits	3.646			1.800	(³)		1.847	1.206
At combination mines	0.965						0.609	
Average number of equivalent full days operations were active, all mines	180	178	155	158	168	166	175	135
Underground mines	180	178	155	148	(³)	166	173	125
Strip pits	215			198	(³)		205	209
Combination mines	120						235	
Horsepower rating of power equipment, total	258,717	11,721	6,940	37,337	23,539	21,352	130,675	20,474
Per wage earner	5.5	5.6	8.7	11.4	19.7	9.7	7.5	14.5
Stationary equipment ¹¹	115,705	7,751	6,605	20,159	8,628	16,245	64,082	10,092
Mobile equipment ¹²	143,012	3,970	335	17,178	14,911	5,107	66,593	10,382
Electric energy consumed (thousands of kw.-hrs.), total ¹³	195,111	8,506	3,347	19,634	86,000	12,114	89,020	6,234
Purchased	170,043	3,177	1,040	18,900	87,614	5,307	69,005	6,234
Generated by reporting companies	25,068	5,329	2,307	734	186	6,807	20,015	

¹ For definition of the industry see footnote 1 to tables 1 and 2.² Companies with operations in more than 1 State are counted only once in the totals. Of this number, 34 companies had operations in 2 of the designated States; 5, in 3 of the States; and 1, in 4 of the States.³ Not shown separately, included in total for United States.⁴ Value of all coal produced, f.o.b. mine or cleaning plant, excluding selling expense. The value of cleaned coal, rather than that of raw coal, was used in the cases of operations that cleaned coal.⁵ Excludes salaried employees at mines producing less than 50 tons daily that were canvassed by an abbreviated questionnaire. The number of salaried employees at these mines, which produced 2.0 percent of the total output of bituminous coal, is believed to be negligible.⁷ Includes wages and salaries (together amounting to 2.3 percent of the total "wages" shown for the United States) paid at mines producing less than 50 tons daily that were canvassed by an abbreviated questionnaire. The instructions on this questionnaire directed that the value of work performed at the mines by owners or partners be included; profits in excess of reasonable wages, however, were to be excluded.⁸ For an explanation of the method used to obtain man-shift and man-hour statistics for operations that did not keep actual records see table 8, footnote 1.⁹ Statistics for underground mines include figures for 17 central cleaning plants; statistics for all other cleaning plants are included with figures for associated mines.¹⁰ Represents tons of coal produced divided by total number of man-hours worked by wage earners and working proprietors on active days. Tons of coal produced divided by total man-hours worked by wage earners (including all days, but excluding working proprietors) is 0.725.¹¹ Aggregate horsepower rating of engines, motors, etc., used for driving stationary or fixed equipment such as mine hoists, pumps, crushers, ventilating fans, compressors, etc.¹² Aggregate horsepower rating of engines, motors, etc., used for driving mobile equipment such as power shovels, locomotives, trucks, tractors, churn drills, etc.¹³ For an explanation of the method used to estimate statistics for electric energy consumed by mines producing less than 50 tons daily canvassed by an abbreviated questionnaire see table 17, footnote 1.

TABLE 4.—PRINCIPAL STATISTICS FOR THE BITUMINOUS-COAL INDUSTRY IN THE UNITED STATES, BY STATE: 1939¹—Continued

(For producing operations only)

ITEM	Pennsylvania	Tennessee	Texas	Utah	Virginia	Washington	West Virginia	Wyoming	All Other ¹⁴
Number of operating companies ²	1,046	114	4	50	91	42	557	53	6
Number of mines	1,859	123	4	51	112	52	721	66	6
Number of cleaning plants	52	4	1	1	15	18	107		
Production of coal:									
Tons of 2,000 pounds, total	92,584,113	5,185,481	16,259	3,284,904	13,530,974	1,690,442	106,361,934	5,375,289	39,021
From underground mines	89,208,851	(3)	16,259	(3)	13,530,974	(3)	107,789,017	5,184,753	39,021
From strip pits	2,395,847	(3)		(3)		(3)	582,917	171,443	
From combination (underground and strip-pit) mines	981,415							17,093	
Value at mines or cleaning plants ⁴	\$187,609,657	\$10,100,341	\$52,470	\$7,019,584	\$24,993,865	\$5,261,681	\$190,492,164	\$10,753,533	\$115,683
Value of all products	\$188,925,306	\$10,104,223	\$52,470	\$7,025,257	\$24,993,865	\$5,261,681	\$190,668,091	\$11,078,017	\$115,683
Number of persons engaged, total	99,352	7,559	94	2,618	15,836	2,409	98,342	4,353	128
Wage earners (average for the year, including inactive periods)	93,033	7,081	75	2,328	15,065	2,219	94,084	4,074	120
Salaried employees ⁵	5,294	388	16	260	717	137	3,965	226	2
Proprietors and firm members	1,025	90	3	30	54	53	293	53	6
Performing manual labor	871	64	2	23	34	42	205	45	6
Principal expenses designated below, total	\$156,612,184	\$8,646,377	\$44,643	\$5,146,415	\$20,784,824	\$4,158,798	\$159,017,383	\$7,777,029	\$98,802
Wages ⁷	\$116,996,537	\$6,580,669	\$34,497	\$3,308,153	\$15,781,505	\$2,947,264	\$119,563,909	\$5,390,058	\$83,525
Salaries	\$12,449,367	\$781,935	\$2,853	\$643,529	\$1,365,086	\$305,963	\$8,917,376	\$862,473	\$2,715
Supplies and materials	\$19,350,490	\$977,572	\$5,165	\$864,754	\$2,737,862	\$877,881	\$22,774,730	\$1,501,706	\$10,611
Fuel	\$1,189,293	\$57,994	\$1,033	\$16,694	\$46,491	\$48,393	\$604,768	\$157,415	\$1,511
Purchased electric energy	\$5,904,341	\$290,028	\$1,095	\$313,285	\$632,621	\$175,425	\$6,801,801	\$254,777	\$440
Contract work	\$722,156	\$8,181			\$21,461	\$3,872	\$354,799	\$10,805	
Cost of buildings, machinery, equipment erected or installed during year	\$7,364,182	\$481,670	\$653	\$930,564	\$652,717	\$77,351	\$7,987,806	\$465,011	\$5,244
Buildings	\$1,275,792	\$69,745		\$157,150	\$55,174	\$31,395	\$894,250	\$14,443	\$330
Machinery and equipment, total	\$6,088,390	\$411,925	\$653	\$773,414	\$599,543	\$45,956	\$7,093,556	\$450,568	\$4,914
Purchased in new condition	\$5,574,909	\$385,916	\$653	\$728,636	\$553,162	\$41,432	\$6,607,872	\$406,782	\$3,056
Purchased in used condition	\$513,481	\$26,009		\$44,778	\$46,381	\$4,524	\$485,684	\$43,786	\$1,878
Total number of man-shifts worked by wage earners and working proprietors ⁸	20,079,080	1,459,603	11,474	501,773	3,021,200	450,202	20,280,013	811,855	24,855
Man-shifts worked by wage earners only	19,988,874	1,449,568	11,194	497,496	3,014,775	441,913	20,245,633	803,697	23,508
Total number of man-hours worked by wage earners and working proprietors ⁸	140,684,122	10,284,252	94,473	3,543,976	21,119,753	3,151,300	142,069,358	5,696,701	189,641
Man-hours worked by wage earners only	139,842,242	10,212,818	92,233	3,512,726	21,073,938	3,095,285	141,822,644	5,638,150	180,504
Average number of hours worked per shift by wage earners and working proprietors	7.0	7.0	8.2	7.1	7.0	7.0	7.0	7.0	7.6
Average hourly earning of wage earners and working proprietors	\$0.63	\$0.64	\$0.37	\$0.93	\$0.75	\$0.94	\$0.84	\$0.95	\$0.44
Average number of wage earners and working proprietors on active days, all mines ⁹	110,346	7,925	236	2,544	15,625	2,275	103,233	3,757	157
At underground mines	108,146	(3)	236	(3)	15,625	(3)	102,893	3,681	157
At strip pits	1,336	(3)		(3)		(3)	340	62	
At combination mines	864	(3)						14	
Number of man-shifts worked by wage earners and working proprietors on active days, all mines ⁹	19,408,472	1,408,174	10,501	436,283	2,902,543	433,749	19,650,061	776,734	24,165
At underground mines	19,046,559	(3)	10,501	(3)	2,902,543	(3)	19,600,152	760,299	24,165
At strip pits	224,285	(3)		(3)		(3)	49,939	13,677	
At combination mines	137,628	(3)						2,758	
Number of man-hours worked by wage earners and working proprietors on active days, all mines ⁹	135,937,710	9,921,942	86,180	3,072,197	20,290,540	3,036,226	137,656,740	5,449,981	184,321
At underground mines	133,285,816	(3)	86,180	(3)	20,290,540	(3)	137,286,070	5,329,522	184,321
At strip pits	1,674,540	(3)		(3)		(3)	370,670	101,153	
At combination mines	977,354	(3)						19,305	
Tons of coal produced per man-hour, all mines ¹⁰	0.681	0.523	0.189	1.069	0.667	0.557	0.787	0.986	0.212
At underground mines	0.669	(3)	0.189	(3)	0.667	(3)	0.785	0.973	0.212
At strip pits	1.430	(3)		(3)		(3)	1.600	1.695	
At combination mines	1.004	(3)						0.885	
Average number of equivalent full days operations were active, all mines	176	178	44	171	186	191	190	207	154
Underground mines	176	(3)	44	(3)	186	(3)	190	207	154
Strip pits	168	(3)		(3)		(3)	147	221	
Combination mines	159	(3)						197	
Horsepower rating of power equipment, total	829,350	46,268	1,288	40,190	83,240	34,333	764,029	52,237	126
Per wage earner	8.9	6.5	17.2	17.3	5.5	15.5	8.1	12.8	1.1
Stationary equipment ¹¹	492,137	26,339	1,245	21,007	31,802	29,211	365,646	38,146	50
Mobile equipment ¹²	337,213	17,929	45	19,183	51,438	5,122	398,383	14,091	76
Electric energy consumed (thousands of kw.-hrs.), total ¹³	734,998	22,204	65	24,028	58,653	18,773	651,786	41,959	20
Purchased	523,461	21,144	50	23,964	56,152	18,757	531,139	12,016	20
Generated by reporting companies	211,537	1,060	15	64	2,501	16	120,647	29,943	

¹ For definition of the industry see footnote 1 to tables 1 and 2.² Companies with operations in more than 1 State are counted only once in the totals. Of this number, 34 companies had operations in 2 of the designated States; 5, in 3 of the States; and 1, in 4 of the States.³ Not shown separately, included in total for United States.⁴ Value of all coal produced, f.o.b. mine or cleaning plant, excluding selling expense. The value of cleaned coal, rather than that of raw coal, was used in the cases of operations that cleaned coal.⁵ Excludes salaried employees at mines producing less than 50 tons daily that were canvassed by an abbreviated questionnaire. The number of salaried employees at these mines, which produced 2.0 percent of the total output of bituminous coal, is believed to be negligible.⁷ Includes wages and salaries (together amounting to 2.5 percent of the total "wages" shown for the United States) paid at mines producing less than 50 tons daily that were canvassed by an abbreviated questionnaire. The instructions on this questionnaire directed that the value of work performed at the mines by owners or partners be included; profits in excess of reasonable wages, however, were to be excluded.⁸ For an explanation of the method used to obtain man-shift and man-hour statistics for operations that did not keep actual records see table 8, footnote 1.⁹ Statistics for underground mines include figures for 17 central cleaning plants; statistics for all other cleaning plants are included with figures for associated mines.¹⁰ Represents tons of coal produced divided by total number of man-hours worked by wage earners and working proprietors on active days. Tons of coal produced divided by total man-hours worked by wage earners (including all days, but excluding working proprietors) is 0.723.¹¹ Aggregate horsepower rating of engines, motors, etc., used for driving stationary or fixed equipment such as mine hoists, pumps, crushers, ventilating fans, compressors, etc.¹² Aggregate horsepower rating of engines, motors, etc., used for driving mobile equipment such as power shovels, locomotives, trucks, tractors, churn drills, etc.¹³ For an explanation of the method used to estimate statistics for electric energy consumed by mines producing less than 50 tons daily canvassed by an abbreviated questionnaire see table 17, footnote 1.¹⁴ Represents Arizona, 2 mines; Georgia, 2; Idaho, 1; and Oregon, 1.

MINERAL INDUSTRIES

TABLE 5.—DETAILED PRODUCTION STATISTICS FOR THE BITUMINOUS-COAL INDUSTRY IN THE UNITED STATES, BY STATE: 1939¹
(Quantities are in tons of 2,000 pounds)

STATE	PRODUCTION OF COAL			DISPOSITION OF COAL PRODUCED					
	Total	From under-ground mines	From strip pits	Loaded at mines directly into railroad cars or river barges	Hauled by truck to railroad siding for shipment by rail	Hauled by truck to waterway for shipment by water	Shipped by truck or wagon (excluding coal used by mine employees)	Used by mine employees and owners for house coal	Taken by locomotive tenders at tipples
United States	391,728,882	355,425,926	36,302,956	345,801,793	4,043,982	1,080,968	29,060,334	1,869,734	815,229
Alabama	12,046,675	11,985,064	61,611	11,145,342	64,388	782	672,803	51,994	49,786
Arkansas	1,152,038	1,126,584	25,454	1,051,938	41,589	—	48,869	2,130	—
Colorado	5,923,210	(2)	(2)	3,982,842	96,823	—	1,533,860	48,228	2,444
Illinois	46,782,691	34,694,155	12,088,536	38,734,064	113,382	116,633	6,770,843	236,908	54,772
Indiana	16,942,772	8,045,402	8,897,370	14,097,990	278,428	—	1,920,025	24,321	7,668
Iowa	2,947,557	2,361,881	585,676	1,268,776	140,078	—	1,478,859	33,365	9,270
Kansas	2,874,691	696,114	1,978,577	2,399,850	11,793	—	247,792	5,818	2,408
Kentucky	42,556,568	41,763,428	793,142	40,299,316	221,254	290	1,253,787	249,063	251,598
Maryland	1,442,728	1,442,728	—	1,068,672	119,565	—	236,534	7,144	2,558
Michigan	456,754	456,754	—	118,790	3,425	—	295,340	8,180	—
Missouri	3,273,550	999,995	2,273,555	2,216,268	50,349	—	956,453	19,707	2,172
Montana	2,750,036	(2)	(2)	2,594,769	1,831	—	145,979	6,750	1,310
New Mexico	1,250,060	1,230,060	—	1,058,791	19,180	—	113,181	11,503	1,758
Ohio	20,289,553	16,118,650	4,170,903	13,848,237	877,219	654,625	4,655,388	62,952	1,065
Oklahoma	1,187,562	687,166	500,396	923,002	126,018	—	123,815	2,219	—
Pennsylvania	92,584,113	89,619,274	2,964,839	80,544,714	1,547,212	23,615	5,604,283	343,702	113,042
Tennessee	5,185,481	(2)	(2)	4,721,615	58,832	—	311,636	32,277	23,427
Texas	16,259	16,259	—	9,554	—	—	6,073	6	—
Utah	3,284,904	(2)	(2)	2,891,633	6,856	—	347,403	21,037	1,802
Virginia	13,530,974	13,530,974	—	12,905,908	4,332	—	221,738	70,032	3,954
Washington	1,690,442	(2)	(2)	1,198,670	53,571	—	393,518	14,129	37,174
West Virginia	108,361,954	107,769,017	592,917	103,717,556	402,014	285,023	1,510,183	583,900	268,601
Wyoming	5,373,289	5,195,062	178,227	5,000,890	5,863	—	197,282	35,895	—
Arizona, Georgia, Idaho, and Oregon	39,021	39,021	—	22,706	—	—	14,710	496	—

STATE	DISPOSITION OF COAL PRODUCED—Continued				VALUE OF PRODUCTS					
	Used at mines for power and heat	Made into beehive coke at mines	Transported from mines to points of use by conveyor, chute, or aerial tramway	Net change in stocks of coal at mines, January 1, 1939, to January 1, 1940	Total	Value of coal produced (f.o.b. mine or cleaning plant) ³		Receipts for work or services performed for other concerns	Value of electric energy sold	Value of all other products
						Total	Average per ton			
United States	2,548,074	2,089,475	4,218,489	+200,784	\$727,357,537	\$724,475,837	\$1.85	\$1,668,768	\$1,014,651	\$198,281
Alabama	72,707	—	17,649	-26,778	27,790,156	27,741,791	2.50	—	10,556	37,809
Arkansas	7,548	—	—	-36	3,655,657	3,655,438	3.17	219	—	—
Colorado	147,288	97,591	31,594	-17,460	14,952,288	14,620,726	2.47	205,253	128,329	24,784
Illinois	723,853	—	109,804	-77,566	76,863,708	76,680,593	1.64	120,160	38,171	53,184
Indiana	153,217	—	442,818	+18,105	25,175,969	25,101,972	1.48	20,813	—	—
Iowa	11,649	—	748	+4,832	7,189,337	7,189,245	2.44	—	—	92
Kansas	13,576	—	—	-6,546	5,057,992	5,057,992	1.89	—	—	—
Kentucky	164,342	—	114,540	+22,378	74,163,830	74,078,412	1.74	3,181	81,761	476
Maryland	8,480	—	—	-225	2,977,753	2,938,938	2.04	22,423	16,392	—
Michigan	26,717	—	—	+4,322	1,723,104	1,723,104	3.77	—	—	—
Missouri	31,049	—	—	-2,448	6,138,612	6,138,603	1.88	9	—	—
Montana	4,370	—	—	+1,027	4,018,519	4,016,427	1.46	2,092	—	—
New Mexico	36,826	—	—	+8,821	3,579,049	3,503,032	2.85	3,584	72,633	—
Ohio	98,141	—	107,890	-15,984	33,342,461	33,127,116	1.63	195,115	—	22,230
Oklahoma	18,400	—	—	-892	2,504,489	2,503,450	2.11	1,039	—	—
Pennsylvania	489,251	1,554,179	2,598,287	+165,828	188,925,506	187,609,657	2.03	1,060,635	195,308	59,706
Tennessee	34,643	—	—	+3,151	10,104,223	10,100,341	1.95	—	3,882	—
Texas	463	—	—	+163	52,470	52,470	3.23	—	—	—
Utah	7,282	13,825	—	4,894	7,025,257	7,019,584	2.14	5,673	—	—
Virginia	25,282	292,152	—	+7,576	24,993,885	24,993,885	1.85	—	—	—
Washington	15,911	—	—	-22,531	5,261,681	5,261,681	3.11	—	—	—
West Virginia	362,799	131,728	974,542	+125,588	190,668,091	190,492,164	1.76	23,547	152,380	—
Wyoming	98,922	—	20,817	+15,620	11,076,017	10,753,533	2.00	9,245	515,239	—
Arizona, Georgia, Idaho, and Oregon	376	—	—	+753	115,683	115,683	2.96	—	—	—

¹ For a definition of the industry see footnote 1 to tables 1 and 2.² Not shown separately, included in total for United States.³ Value of all coal produced, f.o.b. mine or cleaning plant, excluding selling expense. The value of cleaned coal, rather than that of raw coal, was used in the cases of operations that cleaned coal.

BITUMINOUS COAL

237

TABLE 6.—BITUMINOUS COAL LOADED FOR SHIPMENT BY INDIVIDUAL RAILROADS AND WATERWAYS IN THE UNITED STATES, AS REPORTED BY MINE OPERATORS: 1939

ROUTE	State	QUANTITY (TONS OF 2,000 POUNDS)		ROUTE	State	QUANTITY (TONS OF 2,000 POUNDS)	
		By State	Total for route			By State	Total for route
RAILROADS				RAILROADS—Continued			
Alabama Central	Alabama	2,470	2,470	Fort Smith, Subiaco	Arkansas	9,089	9,089
Alabama Great Southern	Alabama	189,790	189,790	& Rock Island	Illinois	592,203	592,203
Algers, Winslow & Western	Indiana	2,390,705	2,390,705	Galesburg & Great Eastern	Michigan	3,425	3,425
Alton	Illinois	760,639	800,210	Grand Trunk	Montana	414,173	604,496
	Missouri	39,571				Washington	
Artemus-Jellico	Kentucky	471,456	471,456	Great Northern	Tennessee	187,309	187,309
	Colorado	164,127		Harriman & Northeastern			
	Illinois	596,479		Huntingdon & Broad Top	Pennsylvania	120,285	120,285
Atchison, Topeka & Santa Fe	Kansas	348,427	1,978,331	Mountain Railroad & Coal Co.	Alabama	254,185	12,809,663
	Missouri	31,939			Illinois	7,860,911	
	New Mexico	837,359			Indiana	107,662	
	Illinois	88,920		Illinois Central	Kentucky	4,586,905	
	Indiana	545,282			Illinois	521,727	521,727
Baltimore & Ohio	Maryland	130,868	23,654,364	Illinois Terminal	Indiana	236,215	236,215
	Ohio	2,062,708		Indiana	Kentucky	61,755	1,943,163
	Pennsylvania	8,546,206		Interstate	Virginia	1,861,406	
	West Virginia	12,280,290					
Bessemer & Lake Erie	Pennsylvania	2,868,543	2,868,543	Iowa Southern Utilities Co.	Iowa	101,578	101,578
Bevier & Southern	Missouri	400,220	400,220	Johnstown & Stony Creek	Pennsylvania	89,178	89,178
Birmingham Southern	Alabama	4,616	4,616	Joplin-Pittsburg	Kansas	260,496	260,496
Buffalo Creek & Gauley	West Virginia	761,500	761,500	Kanawha Central	West Virginia	190,948	190,948
Cambria & Indiana	Pennsylvania	3,904,830	3,904,830	Kanawha, Glen Jeen & Eastern	West Virginia	298,104	298,104
Campbell's Creek	West Virginia	920,157	920,157				
Carbon County	Utah	345,267	345,267				
Caseyville	Illinois	164,004	164,004		Arkansas	16,296	555,243
Central of Georgia	Alabama	712,490	735,196	Kansas City Southern	Kansas	13,583	
	Georgia	22,706				Missouri	
	Kentucky	6,855,203			Oklahoma	26,546	
Chesapeake & Ohio	Ohio	446,340	42,165,721	Kansas, Oklahoma & Gulf	Oklahoma	8,185	8,185
	West Virginia	34,862,178		Kelley's Creek & Northwestern	West Virginia	1,122,373	1,122,373
Cheswick & Harmar	Pennsylvania	719,178	719,178	Kentucky & Tennessee	Kentucky	798,649	798,649
Chicago & Eastern Illinois	Illinois	1,247,615	2,795,258	Lake Erie, Franklin & Clarion	Pennsylvania	234,454	234,454
	Indiana	1,547,643		Laramie, North Park & Western	Colorado	10,121	10,121
Chicago & Illinois Midland	Illinois	4,247,887	4,247,887	Ligonier Valley	Pennsylvania	181,279	181,279
	Illinois	2,220,202		Litchfield & Madison	Illinois	630,352	630,352
Chicago & North Western	Iowa	3,599	2,242,541		Alabama	1,946,901	25,432,955
	Wyoming	18,740		Louisville & Nashville	Illinois	6,992	
	Indiana	294	294		Kentucky	22,509,085	
	Colorado	309,817		Mary Lee	Tennessee	714,288	
Chicago, Attica & Southern	Illinois	6,571,994	7,716,513	Michigan Central	Virginia	255,691	
	Iowa	135,598			Alabama	917,342	917,342
	Missouri	61,879		Midland Valley	Michigan	4,147	4,147
	Wyoming	639,225		Minneapolis & St. Louis	Arkansas	257,870	350,797
Chicago Great Western	Iowa	3,753	3,753	Missouri-Illinois	Oklahoma	92,927	
Chicago, Indianapolis & Louisville	Indiana	1,249,310	1,249,310		Illinois	515,235	604,208
	Indiana	4,024,619		Missouri-Kansas-Texas	Iowa	88,973	
Chicago, Milwaukee, St. Paul & Pacific	Iowa	497,451	5,229,679		Illinois	15,052	15,052
	Missouri	1,604		Missouri-Illinois	Kansas	301,004	521,119
	Montana	698,560			Missouri	68,523	
	Washington	7,445			Oklahoma	151,592	
	Arkansas	3,512		Missouri-Pacific	Arkansas	644,733	
Chicago, Rock Island & Pacific	Illinois	681,442	1,299,472		Illinois	4,271,355	5,994,143
	Iowa	351,356			Kansas	770,081	
	Missouri	175,681			Missouri	294,067	
	Oklahoma	87,481			Oklahoma	13,927	
Chicago, Springfield & St. Louis	Illinois	159,109	159,109	Mobile & Ohio	Alabama	91,472	609,781
					Illinois	518,309	
Cleveland, Cincinnati, Chicago & St. Louis	Illinois	4,050,403	4,871,151	Monongahela	Pennsylvania	2,492,177	10,032,376
	Indiana	820,748			West Virginia	7,540,199	
Clinchfield	Kentucky	102,734	2,169,848	Montana	Arkansas	6,000	6,000
	Virginia	2,067,114		Montana, Wyoming & Southern	Montana	324,013	324,013
Colorado & Southeastern	Colorado	93,945	93,945	Montour	Pennsylvania	4,518,626	4,518,626
Colorado & Southern	Colorado	584,828	584,828	Nashville, Chattanooga & St. Louis	Alabama	1,584	807,340
Colorado & Wyoming	Colorado	488,618	488,618		Tennessee	805,756	
Coneaugh & Black Lick	Pennsylvania	36,625	36,625		Ohio	5,012,462	9,604,992
Crystal River & San Juan	Colorado	482	482		Pennsylvania	3,776,712	
Cumberland & Pennsylvania	Maryland	496,648	496,648	New York Central	West Virginia	815,818	
Dardanelle & Russellville	Arkansas	39,781	39,781	Nicholas, Fayette & Greenbrier	West Virginia	1,419,581	1,419,581
Denver & Intermountain	Colorado	111,916	111,916		Kentucky	3,928,761	37,632,985
	Colorado	999,986		Norfolk & Western	Virginia	7,392,424	
Denver & Rio Grande Western	New Mexico	4,737	2,690,008		West Virginia	26,311,800	
	Utah	1,685,285		Northern Alabama	Alabama	245,186	245,186
Denver & Salt Lake	Colorado	698,342	698,342		Montana	1,159,854	1,974,018
Des Moines & Central Iowa	Iowa	107,983	107,983	Northern Pacific	Washington	814,164	
Detroit, Toledo & Ironton	Ohio	12,495	12,495		Tennessee	43,615	43,615
East Broad Top Railroad & Coal Company	Pennsylvania	508,525	508,525	Oneida & Western	Washington	211,765	211,765
Erie	Ohio	235	1,104,645	Pacific Coast	Illinois	236,745	33,953,514
	Pennsylvania	1,104,410			Indiana	1,980,769	
Evansville & Ohio Valley	Indiana	8,177	8,177	Pennsylvania ²	Ohio	3,306,223	
Evansville, Suburban & Newburgh	Indiana	167,889	167,889		Pennsylvania	27,853,229	
Fort Smith & Western	Oklahoma	112,876	112,876		West Virginia	574,548	

See footnotes at end of table.

TABLE 6.—BITUMINOUS COAL LOADED FOR SHIPMENT BY INDIVIDUAL RAILROADS AND WATERWAYS IN THE UNITED STATES, AS REPORTED BY MINE OPERATORS: 1939—Continued

ROUTE	State	QUANTITY (TONS OF 2,000 POUNDS)		ROUTE	State	QUANTITY (TONS OF 2,000 POUNDS)	
		By State	Total for route			By State	Total for route
RAILROADS—Continued				RAILROADS—Continued			
Peoria & Pekin Union	Illinois	2,579	2,579	Wabash	Illinois	1,091,818	1,522,709
Peoria Terminal	Illinois	828,981	828,981		Iowa	120,563	
Pere Marquette	Michigan	114,643	114,643		Missouri	310,328	
Pittsburg & Shawmut	Pennsylvania	832,642	832,642	Western Allegheny	Pennsylvania	53,820	53,820
Pittsburg County	Oklahoma	7,038	7,038	Western Maryland	Maryland	560,631	4,399,078
Pittsburgh & Lake Erie	Pennsylvania	3,063,535	3,063,535		Pennsylvania	406,388	
					West Virginia	3,432,059	
Pittsburgh & West Virginia	Ohio	482,273	1,913,773	West Virginia Northern	West Virginia	81,012	81,012
	Pennsylvania	1,378,437		West Virginia Pulp	West Virginia		
	West Virginia	53,063		& Paper Company	West Virginia	16,828	16,828
Pittsburgh, Lisbon & Western	Pennsylvania	3,858	3,858	Wheeling & Lake Erie	Ohio	3,391,614	3,391,614
Pittsburg, Shawmut & Northern	Pennsylvania	471,370	471,370	Winfield	Pennsylvania	3,922	3,922
Quincy, Omaha & Kansas City	Missouri	14,968	14,968	Winifrede	West Virginia	70,785	70,785
Rio Grande & Eagle Pass	Texas	8,259	8,259	W. M. Ritter Lumber Company	Virginia	4,553	4,553
Rio Grande Southern	Colorado	9,387	9,387	Woodward Iron Company	Alabama	635,466	635,466
St. Louis & O'Fallon	Illinois	361,027	361,027	Youngstown & Suburban	Ohio	9,106	9,106
				Total railroad shipments		328,697,379	328,697,379
St. Louis-San Francisco	Alabama	881,813	2,628,324	WATERWAYS			
	Arkansas	116,246		Allegheny River	Pennsylvania	1,023,608	1,023,608
	Kansas	712,798		Black Warrior River	Alabama	84,462	84,462
	Missouri	369,019		Green River	Kentucky	290	290
	Oklahoma	548,448		Illinois River	Illinois	257,407	257,407
Seaboard Air Line	Alabama	194,222	194,222	Kanawha River	West Virginia	2,098,782	2,098,782
				Monongahela River	Pennsylvania	16,927,030	17,242,657
Southern	Alabama	1,544,969	7,157,312	Muskingum River	West Virginia	315,627	
	Illinois	353			Ohio	652,753	
	Indiana	1,297,105		Ohio River	Kentucky	207,669	867,424
	Kentucky	996,555			Ohio	1,872	
	Tennessee	2,150,227		Tennessee River	Pennsylvania	2,816	
	Virginia	1,166,303		Youghiogheny River	West Virginia	655,067	
Southern Pacific	New Mexico	215,875	215,875		Alabama	782	782
Springfield Terminal	Illinois	403,305	403,305	Total waterway shipments	Pennsylvania	1,199	1,199
Susquehanna & New York	Pennsylvania	10,231	10,231			22,229,364	22,229,364
Tennessee	Tennessee	649,669	649,669	TOTAL, LOADED AT MINES FOR SHIPMENT BY			
Tennessee Central	Tennessee	229,483	229,483	RAILROADS AND WATERWAYS ³		350,926,743	350,926,743
Tennessee Coal, Iron & Railroad Company	Alabama	2,837,723	2,837,723	Shipped by truck or wagon			29,060,334
Terminal Railroad Association of St. Louis	Illinois	13,145	13,145	Used by mine employees and owners			1,869,734
Texas & Pacific	Texas	1,295	1,295	for house coal			815,229
Thomas & Sayreton	Alabama	685,039	685,039	Taken by locomotive tenders at tipple			2,548,074
Toledo, Peoria & Western	Illinois	45,889	45,889	Used at mines for power and heat			2,069,475
Union	Pennsylvania	117,507	117,507	Made into beehive coke at mines			
				Transported from mines to points of use by			
				conveyor, chute, or aerial tramway			4,218,489
Union Pacific	Colorado	608,096	4,994,414	Net change in stocks of coal at mines,			
	Kansas	5,274		January 1, 1939, to January 1, 1940			+200,784
	Utah	3,712					
	Washington	28,544		TOTAL PRODUCTION			391,728,862
	Wyoming	4,348,788					
Unity	Pennsylvania	664,921	664,921				
Utah	Utah	864,205	864,205				
Virginian	Virginia	142,747	10,726,621				
	West Virginia	10,583,874					

¹ Includes coal shipped over Kanawha & Michigan, Kelley's Creek, Toledo & Ohio Central, and Zanesville & Western.² Includes coal shipped over Pittsburgh, Cincinnati, Chicago & St. Louis.³ Includes coal loaded at mines directly into railroad cars or river barges, coal hauled by truck to railroad siding for shipment by rail, and coal hauled by truck to waterway for shipment by water as shown in table 5.

BITUMINOUS COAL

239

TABLE 7.—NUMBER OF WAGE EARNERS IN THE BITUMINOUS-COAL INDUSTRY IN THE UNITED STATES, BY TYPE OF OPERATION, BY STATE, AND BY MONTH: 1939¹
(For producing operations only)

TYPE OF OPERATION AND STATE	Average for the 12 months	NUMBER RECEIVING PAY DURING PAY-ROLL PERIOD ENDING NEAREST THE 15TH OF THE MONTH											
		January	February	March	April	May	June	July	August	September	October	November	December
United States, total-----	369,156	418,063	414,217	403,351	131,025	269,781	339,090	348,475	370,875	401,945	442,577	450,886	441,586
TYPE OF OPERATION													
Mines only, total-----	268,647	306,991	305,168	295,273	98,865	187,400	239,733	247,071	265,591	291,735	325,909	332,811	327,214
Underground mines-----	261,664	299,192	297,668	288,205	95,345	182,113	234,640	241,605	259,207	284,334	317,351	323,825	318,504
Strip pits-----	6,235	6,792	6,597	6,242	5,257	4,980	4,523	4,874	5,656	6,596	7,658	7,982	7,689
Combination (underground and strip-pit) mines-----	748	1,007	903	826	263	307	570	592	728	805	920	1,034	1,021
Mines and cleaning plants operated together, total-----	99,787	108,346	108,314	107,356	31,620	81,703	98,640	100,677	104,549	109,468	115,904	117,284	113,561
Underground mines-----	95,529	103,941	103,868	102,960	27,352	77,595	94,826	96,847	100,422	105,232	111,455	112,809	109,046
Strip pits-----	4,172	4,328	4,379	4,330	4,213	4,029	3,741	3,765	4,065	4,149	4,326	4,351	4,405
Combination (underground and strip-pit) mines-----	86	77	67	66	55	79	73	65	64	87	123	144	130
Central cleaning plants only-----	722	726	735	722	540	678	717	727	735	742	764	791	791
STATE													
Alabama-----	19,178	21,612	21,906	22,000	6,385	14,751	19,207	20,260	19,922	19,990	20,728	21,629	21,749
Arkansas-----	2,614	4,138	3,404	2,606	361	303	328	1,346	3,460	3,771	4,019	3,655	3,997
Colorado-----	7,607	9,150	8,947	8,456	7,043	6,201	5,188	5,248	6,235	7,633	8,966	9,115	9,103
Illinois-----	31,013	37,553	36,809	35,990	29,022	29,294	20,569	21,973	26,793	30,750	34,197	35,504	34,107
Indiana-----	8,541	9,515	9,406	9,503	8,330	7,654	6,341	6,718	7,552	8,648	9,567	9,696	9,759
Iowa-----	4,565	6,526	6,240	5,896	3,924	2,679	1,363	1,982	3,543	4,415	5,851	6,198	6,359
Kansas-----	2,376	2,692	2,852	2,578	2,027	1,759	1,575	1,637	2,124	2,526	2,737	2,912	2,897
Kentucky-----	46,826	51,348	50,783	48,779	19,871	33,089	44,629	46,413	48,889	51,829	55,439	56,195	54,642
Maryland-----	2,100	2,232	2,255	2,216	752	1,527	2,024	2,039	2,084	2,308	2,535	2,626	2,602
Michigan-----	802	1,231	1,220	1,024	327	521	277	384	710	950	958	1,001	1,016
Missouri-----	3,275	4,607	4,449	4,134	2,724	1,863	1,502	1,711	2,515	3,484	3,978	4,157	4,200
Montana-----	1,193	1,376	1,322	1,267	962	999	772	786	1,003	1,375	1,495	1,502	1,460
New Mexico-----	2,193	2,385	2,363	2,360	2,262	2,138	2,034	1,996	2,079	2,129	2,164	2,201	2,210
Ohio-----	17,385	21,038	21,616	21,417	5,196	11,165	15,377	15,207	16,393	17,785	21,001	21,550	20,871
Oklahoma-----	1,409	2,001	1,890	1,586	548	689	542	852	1,436	1,658	1,945	2,047	1,910
Pennsylvania-----	95,033	105,585	104,585	102,538	13,764	55,449	92,599	92,683	95,550	105,764	116,428	118,626	117,029
Tennessee-----	7,081	7,670	7,765	7,535	2,715	6,031	6,512	6,861	7,371	7,466	8,226	8,332	8,487
Texas-----	75	269	93	84	43	9	37	8	45	68	75	85	87
Utah-----	2,328	2,848	2,683	2,519	1,972	1,687	1,481	1,697	1,866	2,549	2,851	2,898	2,885
Virginia-----	15,065	16,829	16,556	18,888	3,548	14,304	14,821	15,062	15,345	16,118	17,622	17,693	16,996
Washington-----	2,219	2,406	2,418	2,320	2,083	2,034	2,015	1,971	2,074	2,229	2,292	2,389	2,391
West Virginia-----	94,084	100,729	100,353	99,004	13,075	71,717	96,055	97,774	100,047	106,202	115,065	116,612	112,383
Wyoming-----	4,074	4,288	4,260	4,209	3,993	3,801	3,716	3,723	3,878	4,144	4,263	4,323	4,287
Arizona, Georgia, Idaho, and Oregon-----	120	35	42	42	100	117	126	144	161	176	175	160	159

¹For definition of the industry see footnote 1 to tables 1 and 2.

MINERAL INDUSTRIES

TABLE 8.—EMPLOYMENT AND WORKING TIME IN THE BITUMINOUS-COAL INDUSTRY IN THE UNITED STATES, BY DEPARTMENT AND BY STATE: 1939¹
(For producing operations only)

DEPARTMENT	United States	Alabama	Arkansas	Colorado	Illinois	Indiana	Iowa	Kansas	Kentucky	Maryland	Michigan	Missouri
Average number of wage earners and working proprietors on active days, total	419,811	20,884	4,004	8,161	35,894	9,766	6,251	2,858	50,841	2,351	1,154	4,493
Underground	352,319	17,943	3,362	6,782	27,198	5,338	5,220	1,772	43,881	2,057	1,038	3,135
Strip pit	8,454	90	45	(²)	1,761	1,761	2,140	522	95	—	—	672
Surface shops and yards and cleaning plants	59,038	2,851	597	(²)	6,935	2,288	709	561	6,667	294	116	686
Average number of equivalent full days operations were active ³	178	183	107	176	165	177	147	178	180	178	155	158
Underground ³	177	182	106	176	155	167	146	173	180	180	153	147
Strip pit ³	204	116	114	(²)	245	204	179	192	190	—	—	212
Surface shops and yards and cleaning plants ³	180	188	112	(²)	176	176	145	183	179	169	177	159
Number of man-shifts worked by wage earners and working proprietors, total	77,729,951	3,961,624	445,592	1,526,292	6,289,257	1,856,338	940,568	530,905	9,375,987	430,949	188,396	726,844
On active days, total	74,822,486	3,811,442	427,271	1,438,069	5,866,054	1,731,352	920,226	509,791	9,097,560	419,554	179,415	712,134
Underground	62,456,880	3,285,122	355,345	1,196,198	4,216,239	892,298	759,958	306,342	7,886,356	369,739	158,936	460,725
Strip pit	1,725,089	10,437	5,128	(²)	431,679	436,165	57,765	100,658	17,689	—	—	142,227
Surface shops and yards and cleaning plants	10,640,517	535,885	66,798	(²)	1,218,116	402,889	102,523	102,791	1,193,515	49,815	20,479	109,184
On inactive days	2,907,465	150,182	18,321	88,223	423,223	125,486	20,342	21,114	278,427	11,395	8,981	14,510
Number of man-hours worked by wage earners and working proprietors, total	546,120,261	27,776,037	3,130,658	10,702,859	44,167,453	13,202,104	6,709,735	3,766,900	66,080,265	3,043,113	1,319,079	5,509,825
On active days, total	525,630,246	26,726,335	3,002,304	10,072,008	41,185,180	12,317,616	6,566,894	3,618,447	64,124,141	2,963,343	1,255,908	5,202,343
Underground	437,799,242	22,898,039	2,490,356	8,366,638	29,522,354	8,278,478	5,397,759	2,153,441	55,505,230	2,608,671	1,112,553	3,343,090
Strip pit	12,745,849	77,253	40,933	(²)	3,109,119	3,197,851	436,337	740,980	138,979	—	—	1,042,870
Surface shops and yards and cleaning plants	75,085,155	3,751,043	471,015	(²)	8,553,707	2,841,287	732,798	724,126	8,479,932	354,672	143,355	816,383
On inactive days	20,490,015	1,049,702	128,354	630,951	2,982,273	884,488	142,841	148,453	1,958,124	79,770	63,171	107,482

DEPARTMENT	Montana	New Mexico	Ohio	Oklahoma	Pennsylvania	Tennessee	Texas	Utah	Virginia	Washington	West Virginia	Wyoming	Ariz., Ga., Idaho, and Ore.
Average number of wage earners and working proprietors on active days, total	1,383	2,199	21,642	2,032	110,346	7,925	236	2,544	15,625	2,275	103,233	3,757	157
Underground	1,084	1,799	17,657	1,510	98,732	6,777	175	1,861	13,814	1,755	88,410	2,947	122
Strip pit	(²)	—	1,050	144	1,219	(²)	—	(²)	—	(²)	269	55	—
Surface shops and yards and cleaning plants	(²)	400	2,935	378	12,395	(²)	61	(²)	1,811	(²)	14,554	757	55
Average number of equivalent full days operations were active ³	168	166	175	133	176	178	44	171	186	191	190	207	154
Underground ³	164	160	172	123	176	178	49	170	185	191	190	204	156
Strip pit ³	(²)	—	211	218	166	(²)	—	(²)	—	(²)	151	215	—
Surface shops and yards and cleaning plants ³	(²)	190	179	142	177	(²)	30	(²)	189	(²)	191	218	147
Number of man-shifts worked by wage earners and working proprietors, total	246,413	384,551	3,898,899	285,001	20,079,060	1,459,603	11,474	501,773	3,021,200	450,202	20,280,013	811,855	24,855
On active days, total	232,259	364,519	3,791,587	270,561	19,408,472	1,408,174	10,501	436,283	2,902,543	433,749	19,650,091	776,734	24,165
Underground	169,391	288,703	3,045,757	185,497	17,016,882	1,205,871	8,647	316,506	2,580,859	335,175	16,836,922	600,418	19,016
Strip pit	(²)	—	221,129	31,437	202,455	(²)	—	(²)	—	(²)	40,501	11,409	—
Surface shops and yards and cleaning plants	(²)	75,816	524,701	53,627	2,189,135	(²)	1,854	(²)	341,684	(²)	2,772,668	164,907	5,149
On inactive days	16,154	20,032	107,312	14,440	670,608	51,429	973	65,490	118,657	16,453	629,922	35,121	870
Number of man-hours worked by wage earners and working proprietors, total	1,772,806	2,705,912	27,547,561	2,055,178	140,684,122	10,284,252	94,473	3,543,976	21,119,753	3,151,300	142,068,358	5,696,701	189,841
On active days, total	1,658,505	2,559,587	26,791,872	1,948,926	135,937,710	9,921,942	86,180	3,072,197	20,290,540	3,036,226	137,656,740	5,449,981	184,321
Underground	1,202,540	2,023,714	21,359,827	1,298,025	118,924,620	8,496,276	69,899	2,230,490	17,891,904	2,346,223	117,954,293	4,200,467	144,257
Strip pit	(²)	—	1,695,462	255,717	1,500,490	(²)	—	(²)	—	(²)	300,140	81,079	—
Surface shops and yards and cleaning plants	(²)	535,873	3,736,483	395,186	15,512,600	(²)	16,281	(²)	2,398,636	(²)	19,422,307	1,168,435	40,064
On inactive days	113,401	146,325	755,689	104,252	4,746,412	362,310	8,293	471,779	829,213	115,074	4,411,618	246,720	5,320

¹ For definition of the industry see footnote 1 to tables 1 and 2. The number of man-shifts and man-hours worked by working proprietors were estimated by assuming that the same average number of man-shifts and man-hours were worked per working proprietor as were worked per wage earner. The number of man-shifts for working proprietors amounted to 563,774, or about 0.7 percent of the total.

Mines producing less than 50 tons daily were canvassed by an abbreviated questionnaire which did not request separate statistics by department. The numbers of wage earners and working proprietors, man-shifts, and man-hours worked in each department were estimated on the basis of reports of similar operations. Total number of wage earners and working proprietors, man-shifts, and man-hours worked at these small operations represented 4.8 percent, 4.2 percent, and 4.2 percent, respectively, of corresponding employment figures for all operations. No employment figures were apportioned to inactive days for these mines, since it is believed that operations of this size do not maintain working staffs on days when mines are not in operation.

² Not shown separately, included in total for United States.

³ Represents the number of man-shifts worked on active days in the department divided by the average number of wage earners and working proprietors on active days in the department.

TABLE 9.—NUMBER OF WAGE EARNERS AND MAN-SHIFTS IDLE OWING TO STRIKES OR SUSPENSIONS AT
BITUMINOUS-COAL MINES IN THE UNITED STATES, BY STATE: 1939¹

STATE	Total number of wage earners (average for the year, in- cluding inactive periods)	Number of wage earners idle owing to strikes or sus- pensions	MAN-SHIFTS IDLE OWING TO STRIKES OR SUSPENSIONS		
			Total number	Number per idle wage earner ²	Percent of total man- shifts worked ³
United States-----	359,156	234,797	10,630,080	36.1	13.7
Alabama-----	19,178	14,229	647,608	45.5	18.3
Arkansas-----	2,614	870	5,710	8.5	1.3
Colorado-----	7,607	2,617	30,429	11.6	2.0
Illinois-----	31,013	16,209	391,902	24.2	6.2
Indiana-----	8,541	3,293	29,992	9.1	1.6
Iowa-----	4,555	4,024	140,812	54.9	14.9
Kansas-----	2,576	1,250	24,553	19.6	4.6
Kentucky-----	46,826	36,169	1,561,624	40.9	16.7
Maryland-----	2,100	2,000	74,993	37.5	17.4
Michigan-----	802	392	1,832	4.7	1.0
Missouri-----	3,275	1,957	63,962	32.7	6.8
Montana-----	1,193	781	10,319	13.2	4.2
New Mexico-----	2,193	1,300	9,303	7.2	2.4
Ohio-----	17,386	16,159	577,476	55.7	14.8
Oklahoma-----	1,409	635	9,343	14.7	3.3
Pennsylvania-----	93,033	78,859	2,840,132	56.0	14.1
Tennessee-----	7,081	6,410	248,046	38.7	17.0
Texas-----	75				
Utah-----	2,328	1,240	13,521	10.9	2.7
Virginia-----	15,065	11,621	459,911	39.6	15.2
Washington-----	2,219	875	12,445	14.2	2.8
West Virginia-----	94,084	88,713	3,446,965	56.9	17.0
Wyoming-----	4,074	3,394	29,412	8.7	3.6
Arizona, Georgia, Idaho, and Oregon-----	120				

¹For definition of the industry see footnote 1 to tables 1 and 2.²Man-shifts idle divided by number of wage earners idle.³Man-shifts idle divided by total man-shifts (as given in table 8), and the quotient multiplied by 100. Figures for total man-shifts include man-shifts worked by working proprietors.

MINERAL INDUSTRIES

TABLE 10.—SELECTED STATISTICS FOR INCORPORATED AND FOR UNINCORPORATED CONCERNS IN THE BITUMINOUS-COAL INDUSTRY IN THE UNITED STATES, BY STATE: 1939¹
(For producing operations only)

STATE AND TYPE OF OWNERSHIP	Number of operating companies ²	Number of mines	Number of cleaning plants	Production of coal (tons of 2,000 pounds)	Value of all products	NUMBER OF PERSONS ENGAGED					Wages	Salaries
						Total	Wage earners (average for the year)	Salaried employees	Proprietors and firm members			
									Total	Per-forming manual labor		
United States, total	5,009	5,686	365	391,728,862	\$727,357,537	³ 393,308	369,156	³ 19,656	4,496	3,270	\$430,427,148	³ \$44,120,411
Incorporated	1,780	2,322	348	369,525,500	684,398,102	³ 358,060	339,323	³ 18,737	4,496	3,270	404,996,136	³ 42,948,333
Unincorporated	3,229	3,364	17	22,203,362	42,959,435	³ 35,248	29,833	³ 919	—	—	25,431,012	³ 1,172,078
Alabama, total	202	251	52	12,046,875	27,790,156	20,105	19,178	728	199	150	16,834,006	1,564,786
Incorporated	49	76	51	11,549,286	26,699,303	18,837	18,122	715	—	—	16,141,296	1,554,248
Unincorporated	153	155	1	497,589	1,090,853	1,268	1,056	13	199	150	692,710	10,538
Arkansas, total	78	78	1	1,152,038	3,655,657	2,801	2,614	145	42	30	2,116,629	248,540
Incorporated	45	45	1	1,028,988	3,334,116	2,503	2,364	139	—	—	1,913,430	243,098
Unincorporated	33	33	—	123,050	321,541	298	250	6	42	30	203,199	5,442
Colorado, total	197	211	11	5,923,210	14,952,288	8,294	7,607	507	180	139	8,703,595	1,008,336
Incorporated	72	85	10	5,150,848	13,081,587	6,995	6,540	455	—	—	7,646,846	945,649
Unincorporated	125	126	1	772,362	1,870,701	1,299	1,067	52	180	139	1,056,749	62,687
Illinois, total	528	546	45	46,782,691	76,863,708	33,907	31,013	2,395	499	376	35,203,157	6,163,819
Incorporated	165	181	41	45,486,335	71,007,831	29,429	27,158	2,271	—	—	31,871,853	5,990,755
Unincorporated	363	365	4	3,296,356	5,855,877	4,478	3,855	124	499	376	3,331,304	173,064
Indiana, total	248	266	16	16,942,772	25,175,969	9,318	8,541	549	228	167	10,714,961	1,223,598
Incorporated	88	98	16	15,408,877	22,667,913	7,656	7,151	505	—	—	9,399,691	1,178,610
Unincorporated	160	168	—	1,534,095	2,508,056	1,662	1,390	44	228	167	1,315,270	44,788
Iowa, total	264	271	—	2,947,557	7,189,337	5,037	4,565	209	263	197	4,404,455	347,924
Incorporated	50	54	—	1,669,445	4,804,570	3,180	2,966	194	—	—	3,068,511	336,413
Unincorporated	214	217	—	1,078,112	2,384,767	1,857	1,579	15	263	197	1,335,944	11,511
Kansas, total	91	93	6	2,674,691	5,057,992	2,597	2,376	124	97	84	1,932,187	235,244
Incorporated	21	22	6	2,284,041	4,229,382	1,483	1,385	96	—	—	1,449,138	226,923
Unincorporated	70	71	—	390,650	828,610	1,114	991	26	97	84	483,029	8,321
Kentucky, total	424	478	12	42,556,568	74,165,830	49,072	46,826	2,000	246	170	48,674,395	5,819,406
Incorporated	223	275	12	41,653,217	72,827,909	47,390	45,413	1,977	—	—	47,918,683	5,795,116
Unincorporated	201	203	—	903,351	1,337,921	1,682	1,413	23	246	170	755,712	24,290
Maryland, total	76	83	1	1,442,728	2,977,753	2,318	2,100	154	84	60	2,072,689	219,777
Incorporated	30	25	1	1,131,303	2,375,854	1,701	1,595	106	—	—	1,644,644	192,028
Unincorporated	46	58	—	311,425	601,899	617	505	28	84	60	428,245	27,749
Missouri, total	179	180	10	3,273,550	6,138,612	3,661	3,275	212	174	133	2,631,109	491,704
Incorporated	48	47	9	2,595,218	4,751,387	2,131	1,943	188	—	—	1,753,410	469,098
Unincorporated	131	133	1	680,332	1,387,225	1,530	1,332	24	174	133	877,699	22,606
Montana, total	58	59	2	2,756,036	4,018,519	1,331	1,193	69	69	59	1,607,305	185,690
Incorporated	9	10	2	2,622,595	5,632,044	1,050	983	67	—	—	1,353,867	184,145
Unincorporated	49	49	—	133,441	586,475	281	210	2	69	59	253,438	1,545
New Mexico, total	37	42	1	1,230,060	3,579,049	2,387	2,193	160	34	27	2,082,673	395,013
Incorporated	12	17	1	1,143,210	3,359,289	2,155	1,998	159	—	—	1,941,373	394,650
Unincorporated	25	25	—	86,850	219,760	232	197	1	34	27	141,300	363
Ohio, total	614	656	7	20,289,553	33,542,461	19,113	17,585	1,018	710	542	20,476,278	2,163,486
Incorporated	116	149	7	16,913,303	27,200,785	14,386	13,455	931	—	—	16,779,626	2,060,481
Unincorporated	498	507	—	3,576,250	6,341,676	4,727	3,930	87	710	542	3,696,652	103,025
Oklahoma, total	86	88	—	1,187,562	2,504,469	1,585	1,409	113	63	44	1,222,458	171,106
Incorporated	35	36	—	993,446	2,027,225	1,131	1,039	92	—	—	934,584	151,041
Unincorporated	51	52	—	194,116	477,244	454	370	21	63	44	287,874	20,065
Pennsylvania, total	1,046	1,258	52	92,584,113	188,925,306	99,352	93,033	5,294	1,025	671	116,996,537	12,449,387
Incorporated	364	515	50	86,529,315	177,135,046	90,312	85,357	4,955	—	—	109,991,184	11,982,580
Unincorporated	682	743	2	6,054,798	11,790,260	9,040	7,676	339	1,025	671	7,005,353	486,787
Tennessee, total	114	123	4	5,185,481	10,104,223	7,559	7,061	368	90	64	6,580,669	731,935
Incorporated	44	51	4	4,619,553	9,043,281	6,641	6,284	357	—	—	5,909,957	694,718
Unincorporated	70	72	—	565,928	1,060,942	918	797	31	90	64	670,712	37,217
Utah, total	50	51	1	3,284,904	7,025,257	2,618	2,328	260	30	23	3,308,153	643,529
Incorporated	22	23	1	3,130,467	6,897,262	2,428	2,170	258	—	—	3,116,379	642,291
Unincorporated	28	28	—	154,437	327,995	190	158	2	30	23	191,774	1,238
Virginia, total	91	112	15	13,530,974	24,995,885	15,856	15,085	717	54	34	15,781,303	1,365,086
Incorporated	46	67	15	13,372,341	24,701,832	15,462	14,766	716	—	—	15,614,177	1,363,851
Unincorporated	45	45	—	158,633	292,053	354	299	1	54	34	167,126	1,235
Washington, total	42	52	18	1,690,442	5,261,681	2,409	2,219	137	55	42	2,947,264	305,963
Incorporated	14	20	10	1,533,375	4,067,846	1,808	1,702	106	—	—	2,263,216	244,213
Unincorporated	28	32	8	357,069	1,193,835	601	517	31	53	42	684,048	61,750
West Virginia, total	557	721	107	106,361,934	190,688,091	96,342	94,084	3,965	293	205	119,563,909	8,917,378
Incorporated	321	465	107	107,075,462	188,470,789	96,138	92,213	3,925	—	—	118,118,152	8,861,537
Unincorporated	236	256	—	1,286,472	2,197,302	2,204	1,871	40	293	205	1,445,757	55,859
Wyoming, total	53	66	—	5,373,289	11,078,017	4,353	4,074	226	53	45	5,390,056	662,473
Incorporated	38	28	—	5,174,226	10,585,492	4,043	3,824	219	—	—	5,106,056	652,960
Unincorporated	15	38	—	199,063	492,525	310	250	7	53	45	284,000	9,513
All other, total	21	21	4	512,034	1,891,257	1,104	997	97	10	8	1,183,180	250,662
Incorporated ⁴	13	13	4	462,831	1,697,359	975	877	96	—	—	1,060,083	248,677
Unincorporated ⁵	8	8	—	49,183	193,898	131	120	1	10	8	123,097	1,985

¹For definition of the industry see footnote 1 to tables 1 and 2. ²Companies with operations in more than 1 State are counted only once in the totals. ³Statistics for incorporated concerns include 208 employees paid \$555,271 at central offices in Minnesota and New York; statistics for unincorporated concerns include 1 employee paid \$520 at a central office in New York. ⁴Represents 1 operating company in Georgia, 10 in Michigan, and 2 in Texas. ⁵Represents 2 operating companies in Arizona, 1 in Georgia, 1 in Idaho, 1 in Michigan, 1 in Oregon, and 2 in Texas.

TABLE 11.—SELECTED STATISTICS FOR BITUMINOUS-COAL OPERATIONS IN THE UNITED STATES, CLASSIFIED BY VALUE OF PRODUCTS
AND BY STATE: 1939¹
(For producing operations only)

STATE AND VALUE OF PRODUCTS	Number of mines	Number of cleaning plants	Production of coal (tons of 2,000 pounds)	Value of all products	NUMBER OF PERSONS ENGAGED					Wages	Salaries
					Total	Wage earners (average for the year)	Salaried employees	Proprietors and firm members			
								Total	Per-forming manual labor		
United States, total	5,686	365	391,728,862	\$727,557,537	² 393,308	369,156	² 19,656	4,496	3,270	\$430,427,148	² \$44,120,411
\$1 to \$19,999	3,266	5	11,185,207	21,282,613	25,077	18,602	609	3,666	2,982	13,727,096	399,673
\$20,000 to \$49,999	636	22	10,685,240	20,723,187	16,691	15,262	1,009	420	220	12,659,891	1,129,629
\$50,000 to \$99,999	392	28	14,614,762	28,106,795	19,167	17,995	1,045	129	44	16,796,101	1,609,393
\$100,000 to \$249,999	500	48	44,647,251	82,910,130	52,511	50,201	2,263	47	11	51,053,904	4,419,941
\$250,000 to \$499,999	361	85	68,757,156	127,614,711	74,235	71,490	2,731	14	5	79,570,856	5,754,335
\$500,000 to \$999,999	248	90	100,165,733	179,208,996	82,623	79,686	2,937	1	—	102,084,095	7,426,613
\$1,000,000 to \$2,499,999	131	59	100,476,688	184,816,597	82,408	79,518	2,889	1	—	104,577,734	7,289,606
\$2,500,000 to \$4,999,999	10	2	17,206,288	37,092,227	14,261	13,776	485	—	—	21,564,362	1,168,552
\$5,000,000 and over	1	—	—	—	—	—	—	—	—	—	—
Unclassified	141	26	23,990,537	45,602,285	² 28,335	22,626	² 5,690	19	8	28,393,309	² 14,922,669
Alabama, total	231	52	12,046,675	27,790,156	20,105	19,178	726	199	150	16,834,006	1,564,786
\$1 to \$19,999	153	—	416,790	902,303	1,129	932	8	189	147	596,504	7,781
\$20,000 to \$49,999	18	5	255,030	574,427	587	550	28	9	3	371,910	32,014
\$50,000 to \$99,999	5	3	148,739	329,699	315	301	14	—	—	181,455	18,184
\$100,000 to \$249,999	16	13	1,122,756	2,824,099	2,198	2,116	82	—	—	1,607,440	149,157
\$250,000 to \$499,999	16	16	2,189,708	5,181,122	3,621	3,479	142	—	—	3,090,952	297,589
\$500,000 to \$999,999	5	4	1,519,277	3,492,107	2,476	2,420	56	—	—	2,163,692	124,794
\$1,000,000 to \$2,499,999	8	8	5,049,672	11,252,707	7,515	7,236	279	—	—	6,951,453	603,030
Unclassified	10	3	1,344,703	3,233,692	2,264	2,144	119	1	—	1,670,600	332,237
Arkansas, total	78	1	1,152,038	3,655,657	2,801	2,614	145	42	30	2,116,829	246,540
\$1 to \$19,999	34	—	90,764	223,870	231	184	12	35	25	143,556	4,567
\$20,000 to \$49,999	18	1	197,568	620,478	569	526	37	6	5	397,305	41,645
\$50,000 to \$99,999	11	—	199,436	650,066	568	540	27	1	—	397,221	40,217
\$100,000 to \$249,999	14	—	664,270	2,161,243	1,433	1,364	69	—	—	1,178,549	162,111
\$250,000 to \$499,999	1	—	—	—	—	—	—	—	—	—	—
Colorado, total	211	11	5,923,210	14,952,288	8,294	7,607	507	180	139	8,703,595	1,008,336
\$1 to \$19,999	115	1	341,541	812,000	698	548	10	140	111	523,976	8,379
\$20,000 to \$49,999	32	—	439,490	1,066,445	714	643	45	26	19	608,987	61,614
\$50,000 to \$99,999	22	2	655,890	1,581,929	884	812	58	14	9	895,657	92,633
\$100,000 to \$249,999	21	3	1,412,741	3,835,318	1,955	1,858	97	—	—	2,087,639	196,146
\$250,000 to \$499,999	15	4	2,042,043	5,171,979	2,757	2,667	90	—	—	3,132,622	201,136
\$500,000 to \$999,999	2	—	901,294	2,130,376	949	922	27	—	—	1,259,678	47,307
\$1,000,000 to \$2,499,999	1	—	—	354,241	337	157	180	—	—	215,056	398,921
Unclassified	3	1	132,211	354,241	337	157	180	—	—	215,056	398,921
Illinois, total	546	45	46,782,691	76,863,706	33,907	31,013	2,395	499	376	35,203,157	6,163,819
\$1 to \$19,999	324	1	1,255,099	2,247,721	2,338	1,879	42	417	345	1,442,849	25,409
\$20,000 to \$49,999	72	3	1,372,869	2,569,867	1,784	1,624	105	55	23	1,399,604	123,033
\$50,000 to \$99,999	38	2	1,499,190	2,644,029	1,844	1,741	85	18	8	1,699,459	148,169
\$100,000 to \$249,999	34	2	3,000,045	5,509,328	3,306	3,106	193	7	—	3,292,365	376,725
\$250,000 to \$499,999	18	6	3,561,518	5,944,298	2,823	2,663	158	2	—	3,081,737	307,565
\$500,000 to \$999,999	37	19	17,987,644	28,405,523	10,462	9,940	522	—	—	12,530,727	1,410,485
\$1,000,000 to \$2,499,999	17	9	15,503,035	24,995,151	8,670	8,224	446	—	—	9,750,707	1,350,069
Unclassified	6	3	2,603,291	4,747,811	2,680	1,856	844	—	—	2,005,709	2,442,364
Indiana, total	266	16	16,942,772	25,175,969	9,318	8,541	549	228	167	10,714,961	1,223,398
\$1 to \$19,999	158	—	746,249	1,132,806	1,092	882	28	182	147	686,520	14,130
\$20,000 to \$49,999	39	—	746,037	1,241,350	703	625	47	31	15	651,510	39,631
\$50,000 to \$99,999	18	—	887,239	1,585,148	700	653	39	8	5	767,323	56,256
\$100,000 to \$249,999	19	4	1,986,880	2,912,464	972	914	54	4	—	1,202,901	128,316
\$250,000 to \$499,999	11	2	2,444,275	3,977,981	1,490	1,395	95	—	—	1,568,498	209,334
\$500,000 to \$999,999	15	8	9,421,721	13,498,151	5,889	5,705	184	—	—	5,332,546	482,264
\$1,000,000 to \$2,499,999	2	1	710,371	1,030,069	472	387	102	3	—	525,663	295,467
Unclassified	4	1	—	—	—	—	—	—	—	—	—
Iowa, total	271	—	2,947,557	7,189,337	5,037	4,565	209	263	197	4,404,455	547,924
\$1 to \$19,999	202	—	589,598	1,352,236	1,496	1,259	22	217	172	889,003	12,275
\$20,000 to \$49,999	39	—	489,380	1,199,265	889	814	43	32	19	730,586	53,209
\$50,000 to \$99,999	15	—	456,975	1,070,231	591	544	38	9	3	544,461	63,230
\$100,000 to \$249,999	10	—	607,773	1,434,838	743	707	31	5	3	735,471	56,714
\$250,000 to \$499,999	3	—	823,831	2,132,767	1,292	1,241	51	—	—	1,504,934	117,121
\$500,000 to \$999,999	2	—	—	—	24	—	24	—	—	—	45,375
Unclassified	—	—	—	—	—	—	—	—	—	—	—
Kansas, total	93	6	2,674,691	5,057,992	2,597	2,376	124	97	84	1,932,187	235,244
\$1 to \$19,999	70	—	288,515	617,844	592	497	8	87	78	377,811	2,000
\$20,000 to \$49,999	9	—	197,204	374,686	304	277	19	8	6	196,094	20,167
\$50,000 to \$99,999	2	—	637,232	1,128,634	807	765	40	2	—	401,885	64,775
\$100,000 to \$249,999	6	2	769,645	1,318,620	237	227	10	—	—	294,282	31,948
\$250,000 to \$499,999	3	2	782,095	1,618,208	624	610	14	—	—	662,095	16,600
\$500,000 to \$999,999	5	2	—	—	33	—	33	—	—	—	99,754
Unclassified	—	—	—	—	—	—	—	—	—	—	—
Kentucky, total	478	12	42,556,568	74,165,830	49,072	46,826	2,000	246	170	48,674,395	5,819,406
\$1 to \$19,999	226	—	811,427	1,132,505	1,768	1,483	52	233	165	747,305	42,911
\$20,000 to \$49,999	34	1	805,909	1,199,099	1,367	1,285	75	7	3	820,056	65,295
\$50,000 to \$99,999	37	—	1,690,965	2,781,495	2,505	2,382	117	6	2	1,794,828	172,952
\$100,000 to \$249,999	92	3	9,448,129	14,987,446	12,008	11,561	447	—	—	10,104,808	860,394
\$250,000 to \$499,999	48	2	9,394,530	15,449,687	10,775	10,340	435	—	—	10,497,408	823,699
\$500,000 to \$999,999	27	3	10,077,029	18,874,913	10,454	10,047	407	—	—	11,649,579	932,184
\$1,000,000 to \$2,499,999	6	1	—	—	—	—	—	—	—	—	—
\$2,500,000 to \$4,999,999	1	1	8,065,643	15,756,027	7,441	7,247	194	—	—	9,840,962	449,963
\$5,000,000 and over	1	—	—	—	—	—	—	—	—	—	—
Unclassified	6	1	2,262,936	3,962,660	2,754	2,481	273	—	—	3,219,449	472,008

See footnotes at end of table.

MINERAL INDUSTRIES

TABLE 11.—SELECTED STATISTICS FOR BITUMINOUS-COAL OPERATIONS IN THE UNITED STATES, CLASSIFIED BY VALUE OF PRODUCTS
AND BY STATE: 1939¹—Continued
(For producing operations only)

STATE AND VALUE OF PRODUCTS	Number of mines	Number of cleaning plants	Production of coal (tons of 2,000 pounds)	Value of all products	NUMBER OF PERSONS ENGAGED					Wages	Salaries
					Total	Wage earners (average for the year)	Salaried employees	Proprietors and firm members			
								Total	Per-forming manual labor		
Maryland, total	83	1	1,442,728	\$2,977,753	2,318	2,100	134	84	60	\$2,072,889	\$219,777
\$1 to \$19,999	56	-----	178,543	374,720	362	284	7	71	53	250,547	2,344
\$20,000 to \$49,999	6	-----	111,051	211,205	209	189	12	8	4	151,378	16,158
\$50,000 to \$99,999	11	-----	369,169	769,488	681	643	37	1	-----	516,176	42,352
\$100,000 to \$249,999	4	-----	615,812	1,287,140	791	747	44	-----	-----	910,529	72,595
\$250,000 to \$499,999	2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Unclassified	4	1	168,173	355,200	275	237	34	4	3	244,459	86,328
Michigan, total	11	3	456,754	1,723,104	882	802	79	1	-----	1,065,158	245,094
\$20,000 to \$49,999	1	-----	-----	-----	284	266	18	-----	-----	298,411	28,933
\$50,000 to \$99,999	5	-----	125,162	458,765	565	536	28	1	-----	769,747	71,747
\$100,000 to \$249,999	3	-----	-----	-----	33	-----	33	-----	-----	-----	144,414
\$250,000 to \$499,999	1	-----	331,592	1,264,339	-----	-----	-----	-----	-----	-----	-----
\$500,000 to \$999,999	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Unclassified	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Missouri, total	180	10	3,273,550	6,138,612	3,661	3,275	212	174	133	2,631,109	491,704
\$1 to \$19,999	135	-----	469,310	972,184	1,161	978	28	155	123	609,111	21,597
\$20,000 to \$49,999	23	2	381,554	809,325	873	825	32	16	10	529,478	45,867
\$50,000 to \$99,999	13	2	373,393	816,159	695	664	28	3	-----	507,089	49,508
\$100,000 to \$249,999	3	1	248,149	449,846	134	123	11	-----	-----	140,728	54,396
\$250,000 to \$499,999	3	2	581,491	1,066,127	436	416	20	-----	-----	406,368	49,246
\$500,000 to \$999,999	3	3	1,209,853	2,024,971	291	269	22	-----	-----	438,335	72,359
Unclassified	-----	-----	-----	-----	71	-----	71	-----	-----	-----	200,931
Montana, total	59	2	2,756,036	4,018,519	1,331	1,193	69	69	59	1,607,305	185,690
\$1 to \$19,999	48	-----	109,597	313,297	241	174	1	66	57	204,978	500
\$20,000 to \$49,999	3	1	32,868	71,232	42	38	2	2	2	52,142	3,057
\$50,000 to \$99,999	1	-----	-----	-----	364	341	22	1	-----	351,164	55,512
\$100,000 to \$249,999	1	-----	315,735	743,983	-----	-----	-----	-----	-----	-----	-----
\$250,000 to \$499,999	2	-----	-----	-----	678	640	38	-----	-----	999,021	114,925
\$500,000 to \$999,999	3	1	2,297,836	2,890,007	6	-----	6	-----	-----	-----	11,898
\$1,000,000 to \$2,499,999	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Unclassified	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
New Mexico, total	42	1	1,230,080	3,579,049	2,587	2,193	160	34	27	2,082,673	595,013
\$1 to \$19,999	26	-----	80,249	204,436	224	192	2	30	23	134,256	1,248
\$20,000 to \$49,999	4	-----	35,895	100,670	75	69	2	4	4	58,438	3,675
\$50,000 to \$99,999	4	-----	74,043	213,903	167	157	10	-----	-----	122,660	17,453
\$100,000 to \$249,999	2	-----	-----	-----	1,884	1,775	109	-----	-----	1,767,319	252,030
\$250,000 to \$499,999	4	-----	1,039,873	3,060,040	-----	-----	37	-----	-----	-----	120,607
\$500,000 to \$999,999	2	1	-----	-----	37	-----	37	-----	-----	-----	-----
Unclassified	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Ohio, total	656	7	20,289,553	33,342,461	19,113	17,385	1,018	710	542	20,476,278	2,163,486
\$1 to \$19,999	489	-----	1,630,181	2,948,397	2,804	2,128	34	642	504	1,882,394	28,473
\$20,000 to \$49,999	61	-----	1,112,626	1,987,198	1,259	1,121	97	41	27	1,082,716	76,635
\$50,000 to \$99,999	31	2	1,232,888	2,304,464	1,120	1,024	83	13	4	1,165,549	137,457
\$100,000 to \$249,999	31	-----	3,145,204	4,920,134	2,220	2,115	97	8	4	2,426,517	229,913
\$250,000 to \$499,999	15	1	2,842,552	4,967,258	3,020	2,946	68	6	3	3,251,849	143,978
\$500,000 to \$999,999	11	2	4,985,557	8,091,702	4,681	4,551	100	-----	-----	5,594,030	244,518
\$1,000,000 to \$2,499,999	6	2	5,166,597	7,955,015	3,605	3,475	130	-----	-----	5,028,917	283,674
Unclassified	14	-----	175,988	208,313	454	45	409	-----	-----	64,506	1,018,838
Oklahoma, total	88	-----	1,167,562	2,504,489	1,585	1,409	113	63	44	1,222,458	171,106
\$1 to \$19,999	60	-----	193,656	475,850	514	428	31	55	37	282,698	21,687
\$20,000 to \$49,999	15	-----	198,729	463,000	386	349	29	8	7	299,732	28,342
\$50,000 to \$99,999	9	-----	286,012	677,590	429	394	35	-----	-----	346,676	55,273
\$100,000 to \$249,999	3	-----	508,965	888,049	256	238	18	-----	-----	293,352	64,804
\$250,000 to \$499,999	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Pennsylvania, total	1,258	52	92,584,113	188,925,306	99,352	93,033	5,294	1,025	671	116,996,537	12,449,367
\$1 to \$19,999	711	2	2,558,978	4,892,887	5,293	4,232	226	835	597	3,195,671	147,983
\$20,000 to \$49,999	161	-----	2,674,574	5,376,086	4,188	3,818	242	128	58	3,285,050	305,418
\$50,000 to \$99,999	87	4	3,159,378	6,142,404	3,655	3,427	188	40	10	3,447,845	311,795
\$100,000 to \$249,999	96	8	8,021,637	16,410,026	10,255	9,833	409	13	4	10,615,773	787,531
\$250,000 to \$499,999	59	10	10,655,894	21,600,519	13,033	12,669	361	3	2	14,272,484	761,039
\$500,000 to \$999,999	46	7	17,777,281	34,340,616	17,114	16,593	521	-----	-----	22,054,017	1,342,652
\$1,000,000 to \$2,499,999	40	13	28,720,864	59,214,271	27,094	26,268	825	1	-----	36,473,978	2,091,250
\$2,500,000 to \$4,999,999	7	1	10,042,589	23,523,150	8,254	7,924	330	-----	-----	12,621,141	884,617
Unclassified	51	7	8,992,918	17,425,367	10,466	8,269	2,192	5	-----	11,030,798	5,837,282
Tennessee, total	123	4	5,185,481	10,104,223	7,559	7,081	388	90	84	6,580,669	731,935
\$1 to \$19,999	77	-----	232,904	434,721	605	501	19	85	64	296,649	8,620
\$20,000 to \$49,999	11	-----	188,929	344,502	477	449	27	1	-----	216,508	31,690
\$50,000 to \$99,999	9	1	409,550	718,331	720	685	35	-----	-----	484,067	41,332
\$100,000 to \$249,999	11	-----	1,015,106	1,978,465	1,488	1,426	60	2	-----	1,307,265	104,663
\$250,000 to \$499,999	11	-----	2,016,377	3,808,085	2,446	2,356	88	2	-----	2,454,919	163,640
\$500,000 to \$999,999	4	3	1,322,615	2,820,119	1,769	1,684	105	-----	-----	1,821,261	200,954
Unclassified	-----	-----	-----	-----	54	-----	54	-----	-----	-----	181,036
Texas, total	4	1	16,259	52,470	94	75	16	3	2	34,497	2,855
\$1 to \$19,999	3	1	-----	-----	94	75	16	3	2	34,497	2,855
\$20,000 to \$49,999	1	-----	16,259	52,470	-----	-----	-----	-----	-----	-----	-----

See footnotes at end of table.

TABLE 11.—SELECTED STATISTICS FOR BITUMINOUS-COAL OPERATIONS IN THE UNITED STATES, CLASSIFIED BY VALUE OF PRODUCTS
AND BY STATE: 1939¹—Concluded
(For producing operations only)

STATE AND VALUE OF PRODUCTS	Number of mines	Number of cleaning plants	Production of coal (tons of 2,000 pounds)	Value of all products	NUMBER OF PERSONS ENGAGED					Wages	Salaries
					Total	Wage earners (average for the year)	Salaried employees	Proprietors and firm members			
								Total	Per-forming manual labor		
Utah, total-----	51	1	3,284,904	\$7,025,257	2,618	2,328	260	30	23	\$3,308,153	\$643,529
\$1 to \$19,999-----	29	-----	114,152	243,071	174	143	4	27	20	153,605	2,603
\$20,000 to \$49,999-----	5	-----	68,774	148,308	61	56	3	2	2	64,793	5,309
\$50,000 to \$99,999-----	3	-----	94,898	214,056	111	107	3	1	1	129,178	7,615
\$100,000 to \$249,999-----	8	-----	676,067	1,514,071	631	598	33	-----	-----	849,122	88,729
\$250,000 to \$499,999-----	1	}-----	2,331,013	4,905,751	1,513	1,424	89	-----	-----	2,111,455	268,733
\$500,000 to \$999,999-----	3										
\$1,000,000 to \$2,499,999-----	2										
Unclassified-----	-----	1	-----	-----	128	-----	128	-----	-----	-----	270,340
Virginia, total-----	112	15	13,530,974	24,993,885	15,836	15,065	717	54	34	15,781,303	1,365,086
\$1 to \$19,999-----	45	-----	149,702	268,517	343	291	5	47	31	153,306	2,209
\$20,000 to \$49,999-----	8	-----	133,361	249,792	350	331	14	5	1	236,390	16,781
\$50,000 to \$99,999-----	6	1	274,502	515,705	512	486	26	-----	-----	343,290	40,819
\$100,000 to \$249,999-----	17	4	1,627,269	3,070,231	2,211	2,117	94	-----	-----	1,927,523	160,856
\$250,000 to \$499,999-----	15	3	2,804,262	5,259,820	3,658	3,555	103	-----	-----	3,442,220	190,966
\$500,000 to \$999,999-----	12	4	4,573,856	8,751,235	4,849	4,702	147	-----	-----	5,215,275	313,019
\$1,000,000 to \$2,499,999-----	5	3	5,835,797	6,636,477	3,534	3,411	123	-----	-----	4,501,612	225,069
Unclassified-----	4	-----	132,245	242,108	379	172	205	2	2	161,687	415,367
Washington, total-----	52	18	1,690,442	5,261,681	2,409	2,219	137	55	42	2,947,264	305,983
\$1 to \$19,999-----	23	-----	82,275	202,222	136	102	-----	34	32	131,232	-----
\$20,000 to \$49,999-----	10	8	117,942	335,988	213	192	14	7	5	230,610	26,451
\$50,000 to \$99,999-----	6	4	139,552	398,310	204	187	12	5	2	222,284	29,408
\$100,000 to \$249,999-----	2	}-----	744,227	2,561,447	993	942	48	3	-----	1,379,265	131,904
\$250,000 to \$499,999-----	3										
\$500,000 to \$999,999-----	2										
Unclassified-----	6	1	626,646	1,763,714	863	796	63	4	3	983,873	118,200
West Virginia, total-----	721	107	108,361,934	190,668,091	98,342	94,084	3,965	293	205	119,563,909	8,917,376
\$1 to \$19,999-----	244	-----	773,394	1,235,402	1,623	1,302	55	266	201	848,923	43,033
\$20,000 to \$49,999-----	59	1	1,090,231	1,894,746	1,520	1,367	134	19	4	1,232,065	136,177
\$50,000 to \$99,999-----	54	6	2,297,577	3,919,840	2,952	2,771	174	7	-----	2,693,973	221,755
\$100,000 to \$249,999-----	102	7	9,959,872	17,302,363	10,792	10,309	482	1	-----	11,765,352	842,198
\$250,000 to \$499,999-----	121	34	25,236,066	44,214,153	25,383	24,429	954	-----	-----	28,641,193	2,051,062
\$500,000 to \$999,999-----	65	30	26,445,602	46,456,221	21,620	20,966	654	-----	-----	28,633,273	1,701,915
\$1,000,000 to \$2,499,999-----	41	}-----	35,716,117	63,366,258	27,727	26,818	909	-----	-----	37,457,421	2,260,965
\$2,500,000 to \$4,999,999-----	2										
Unclassified-----	33										
Wyoming, total-----	66	8	5,373,289	11,078,017	4,353	4,074	226	53	45	5,390,056	662,473
\$1 to \$19,999-----	34	-----	94,229	233,260	160	113	2	45	43	135,995	1,507
\$20,000 to \$49,999-----	6	-----	80,725	168,384	91	85	4	4	2	89,059	8,037
\$50,000 to \$99,999-----	4	-----	148,427	290,152	96	86	8	2	-----	121,076	18,080
\$100,000 to \$249,999-----	5	-----	352,881	720,058	324	306	16	2	-----	335,757	57,280
\$250,000 to \$499,999-----	10	-----	1,881,733	3,769,910	1,571	1,513	58	-----	-----	1,935,470	168,574
\$500,000 to \$999,999-----	5	}-----	2,815,294	5,896,253	2,040	1,973	67	-----	-----	2,772,699	191,553
\$1,000,000 to \$2,499,999-----	2										
Unclassified-----	-----										
Arizona, Georgia, Idaho, and Oregon, total-----	6	-----	39,021	115,683	128	120	2	6	6	83,525	2,715
\$1 to \$19,999-----	4	}-----	39,021	115,683	128	120	2	6	6	83,525	2,715
\$20,000 to \$49,999-----	1										
\$50,000 to \$99,999-----	1										

¹For definition of the industry see footnote 1 to tables 1 and 2. Reports classified by value of products represent a single mine or cleaning plant or a single mine and a single cleaning plant reported together. Statistics shown for "Unclassified" represent: Reports for more than one mine or cleaning plant; reports for cleaning plants serving more than one mine and reports for mines served, in cases where figures for value of products could not be obtained for mines and plants separately; and reports for central offices reported separately from their associated mining operations.

²Includes statistics for 209 central-office employees in Minnesota and New York; these employees were paid \$555,791.

MINERAL INDUSTRIES

TABLE 12.—SELECTED STATISTICS FOR BITUMINOUS-COAL OPERATIONS IN THE UNITED STATES, CLASSIFIED BY QUANTITY OF COAL PRODUCED AND BY STATE: 1939¹
(For producing operations only)

STATE AND TONS OF COAL PRODUCED (tons of 2,000 pounds)	Number of mines	Number of clean- ing plants	Production of coal (tons of 2,000 pounds)	Value of all products	NUMBER OF PERSONS ENGAGED					Wages	Salaries
					Total	Wage earners (average for the year)	Salaried em- ployees	Proprietors and firm members			
								Total	Per- forming manual labor		
United States, total-----	5,686	365	591,728,862	\$727,357,537	2,395,508	369,156	219,656	4,496	3,270	\$430,427,148	\$444,120,411
1 to 999-----	16	-----	10,045	23,655	92	66	10	16	12	85,717	10,015
1,000 to 4,999-----	2,552	2	5,672,532	11,755,664	14,072	10,740	248	3,084	2,428	7,652,343	121,172
5,000 to 9,999-----	694	6	4,904,272	9,911,907	9,042	7,935	333	774	562	6,277,068	285,241
10,000 to 24,999-----	645	21	10,358,513	21,392,264	16,862	15,415	1,063	404	192	12,880,965	1,263,745
25,000 to 49,999-----	376	20	13,325,104	26,738,156	18,681	17,563	981	137	53	16,123,329	1,522,729
50,000 to 99,999-----	367	34	27,137,249	52,108,534	34,351	32,741	1,568	42	10	32,486,133	2,715,445
100,000 to 199,999-----	373	57	53,540,740	99,643,878	59,156	56,919	2,218	19	7	62,301,612	4,701,447
200,000 to 499,999-----	340	101	106,709,008	196,967,050	101,417	97,798	3,615	4	-----	117,452,217	8,448,408
500,000 to 999,999-----	154	76	100,866,876	178,354,304	78,928	76,290	2,637	1	-----	100,926,777	6,842,285
1,000,000 and over-----	36	12	45,022,257	85,449,202	32,019	30,777	1,242	-----	-----	45,429,403	3,082,946
Unclassified-----	155	34	23,982,268	47,012,945	28,688	22,912	2,571	15	6	28,811,584	2,150,282
Alabama, total-----	251	52	12,046,675	27,790,158	20,105	19,178	728	199	150	16,834,006	1,564,768
1,000 to 4,999-----	134	-----	287,898	622,174	858	688	4	166	131	408,374	1,031
5,000 to 9,999-----	20	1	137,575	312,899	318	291	3	24	17	198,511	5,438
10,000 to 24,999-----	19	5	260,471	645,113	646	607	31	8	2	413,915	37,991
25,000 to 49,999-----	3	5	112,320	237,400	146	134	12	-----	-----	113,610	16,154
50,000 to 99,999-----	17	13	1,216,173	3,133,040	2,597	2,498	99	-----	-----	1,911,987	179,306
100,000 to 199,999-----	15	15	2,096,536	4,861,024	3,284	3,159	125	-----	-----	2,801,864	266,805
200,000 to 499,999-----	7	6	2,472,343	5,808,304	3,988	3,895	93	-----	-----	3,642,649	228,025
500,000 to 999,999-----	6	6	4,096,806	8,936,510	6,003	5,761	242	-----	-----	5,472,498	499,799
Unclassified-----	10	3	1,344,703	3,233,692	2,265	2,145	119	1	-----	1,870,600	332,237
Arkansas, total-----	78	1	1,152,038	3,655,657	2,801	2,614	145	42	30	2,116,629	248,540
1,000 to 4,999-----	29	-----	61,039	151,169	194	154	8	32	24	103,988	1,615
5,000 to 9,999-----	12	-----	86,563	277,494	216	195	15	6	4	171,918	14,788
10,000 to 24,999-----	22	1	340,166	1,065,751	959	902	53	4	2	662,174	69,826
25,000 to 49,999-----	12	-----	442,552	1,494,769	1,088	1,033	55	-----	-----	852,457	125,976
50,000 to 99,999-----	2	-----	221,718	666,474	344	330	14	-----	-----	326,092	36,135
100,000 to 199,999-----	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Colorado, total-----	211	11	5,923,210	14,952,288	8,294	7,607	507	180	139	8,703,595	1,008,356
1 to 999-----	2	-----	(s)	(s)	(s)	(s)	(s)	-----	-----	(s)	(s)
1,000 to 4,999-----	100	-----	240,191	533,433	521	389	6	126	100	367,616	2,449
5,000 to 9,999-----	24	1	177,174	446,612	351	294	15	22	17	280,518	18,914
10,000 to 24,999-----	29	-----	465,612	1,227,435	753	669	58	26	18	678,750	90,978
25,000 to 49,999-----	23	3	847,536	2,059,575	1,176	1,111	59	6	4	1,198,038	102,161
50,000 to 99,999-----	15	1	995,103	2,551,037	1,352	1,287	65	-----	-----	1,431,343	127,870
100,000 to 199,999-----	17	4	3,045,383	7,527,665	3,799	3,677	122	-----	-----	4,500,874	268,543
200,000 to 499,999-----	2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Unclassified-----	1	2	4,132,211	4,556,531	4,362	4,180	4,182	-----	-----	4,246,456	4,407,421
Illinois, total-----	546	45	46,782,691	76,863,706	33,907	31,013	2,395	499	376	35,203,157	6,165,819
1,000 to 4,999-----	233	-----	542,605	1,042,584	1,244	948	8	290	241	678,264	4,291
5,000 to 9,999-----	79	1	553,501	1,019,697	909	774	19	116	97	645,795	12,094
10,000 to 24,999-----	76	3	1,255,579	2,329,655	1,659	1,488	117	54	22	1,515,316	139,737
25,000 to 49,999-----	38	2	1,284,719	2,329,249	1,821	1,716	78	27	15	1,516,006	119,312
50,000 to 99,999-----	34	-----	2,394,983	4,556,910	2,781	2,611	162	8	1	2,774,872	285,435
100,000 to 199,999-----	18	3	2,683,840	4,501,601	2,582	2,246	114	2	-----	2,632,083	251,845
200,000 to 499,999-----	26	9	9,153,325	15,297,387	6,311	6,008	301	2	-----	7,292,994	787,590
500,000 to 999,999-----	28	19	17,201,883	26,645,037	9,915	9,415	500	-----	-----	11,178,316	1,402,459
1,000,000 and over-----	8	5	9,128,465	14,474,317	4,185	3,946	239	-----	-----	5,128,202	714,692
Unclassified-----	6	3	2,603,291	4,887,271	2,720	1,861	859	-----	-----	2,041,309	2,468,564
Indiana, total-----	266	16	16,942,772	25,175,969	9,318	8,541	549	228	167	10,714,961	1,223,596
1 to 999-----	1	-----	(s)	(s)	(s)	(s)	(s)	(s)	-----	(s)	(s)
1,000 to 4,999-----	97	-----	245,286	592,845	454	332	8	114	98	246,284	1,954
5,000 to 9,999-----	51	-----	355,469	870,655	510	433	15	62	48	339,577	9,334
10,000 to 24,999-----	41	-----	655,152	1,078,884	654	579	42	33	15	552,379	27,154
25,000 to 49,999-----	20	-----	720,286	1,193,113	592	535	36	11	6	595,190	55,656
50,000 to 99,999-----	18	2	1,354,974	2,126,680	892	847	40	5	-----	1,051,282	76,007
100,000 to 199,999-----	13	2	2,050,057	3,123,507	1,142	1,073	69	-----	-----	1,323,412	140,925
200,000 to 499,999-----	13	6	4,506,052	7,242,266	2,358	2,227	131	-----	-----	2,907,522	504,519
500,000 to 999,999-----	8	5	6,345,145	8,419,950	2,254	2,148	106	-----	-----	3,173,652	314,562
1,000,000 and over-----	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Unclassified-----	3	1	4,710,371	4,103,069	4,472	4,367	4,102	4,3	-----	4,525,663	4,293,467
Iowa, total-----	271	-----	2,947,557	7,189,337	5,037	4,565	209	263	197	4,404,455	347,924
1,000 to 4,999-----	174	-----	403,391	935,123	1,071	872	11	189	155	613,591	3,743
5,000 to 9,999-----	39	-----	275,126	643,250	646	587	19	40	23	425,483	14,407
10,000 to 24,999-----	33	-----	499,142	1,260,827	820	740	58	22	13	727,557	84,920
25,000 to 49,999-----	11	-----	375,155	925,247	517	490	17	10	6	474,246	29,844
50,000 to 99,999-----	11	-----	761,148	1,819,588	1,023	984	36	3	-----	1,017,619	65,584
100,000 to 199,999-----	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200,000 to 499,999-----	2	-----	653,595	1,605,302	956	892	44	-----	-----	1,145,959	104,051
Unclassified-----	-----	-----	-----	-----	24	-----	-----	24	-----	-----	45,375
Kansas, total-----	93	6	2,674,691	5,057,992	2,597	2,378	124	97	84	1,932,167	235,244
1,000 to 4,999-----	45	-----	102,690	232,789	276	216	3	57	50	146,821	430
5,000 to 9,999-----	25	-----	181,332	395,424	347	311	4	32	29	244,546	1,233
10,000 to 24,999-----	9	-----	115,903	211,258	218	197	15	6	5	124,398	8,492
25,000 to 49,999-----	2	-----	356,960	641,674	711	675	34	2	-----	289,538	42,687
50,000 to 99,999-----	3	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100,000 to 199,999-----	5	2	366,046	840,019	151	140	11	-----	-----	170,487	34,100
200,000 to 499,999-----	6	4	1,551,740	2,936,828	861	857	24	-----	-----	956,377	48,548
Unclassified-----	-----	-----	-----	-----	33	-----	-----	33	-----	-----	99,754

See footnotes at end of table.

BITUMINOUS COAL

247

TABLE 12.—SELECTED STATISTICS FOR BITUMINOUS-COAL OPERATIONS IN THE UNITED STATES, CLASSIFIED BY QUANTITY OF COAL PRODUCED
AND BY STATE: 1939—Continued
(For producing operations only)

STATE AND TONS OF COAL PRODUCED (tons of 2,000 pounds)	Number of mines	Number of clean- ing plants	Production of coal (tons of 2,000 pounds)	Value of all products	NUMBER OF PERSONS ENGAGED					Wages	Salaries
					Total	Wage earners (average for the year)	Salaried em- ployees	Proprietors and firm members			
								Total	Per- forming manual labor		
Kentucky, total	478	12	42,556,568	\$74,165,830	49,072	46,226	2,000	246	170	\$48,674,395	\$5,819,406
1,000 to 4,999	179	—	409,314	577,350	1,004	793	10	201	143	384,130	6,350
5,000 to 9,999	34	—	239,562	351,050	467	418	25	23	18	237,240	22,346
10,000 to 24,999	34	1	560,718	860,956	1,044	969	65	10	5	598,629	53,842
25,000 to 49,999	36	—	1,268,680	2,174,724	2,126	2,019	100	7	4	1,357,434	140,860
50,000 to 99,999	63	1	4,595,781	7,711,689	6,538	6,287	269	2	—	5,331,480	439,485
100,000 to 199,999	70	3	9,977,836	16,390,594	11,587	11,152	435	—	—	10,872,415	911,443
200,000 to 499,999	47	4	14,659,714	25,374,512	15,717	15,105	612	—	—	16,300,257	1,258,494
500,000 to 999,999	7	1	8,582,027	15,740,295	7,834	7,623	211	—	—	10,375,361	514,578
1,000,000 and over	2	1	—	—	—	—	—	—	—	—	—
Unclassified	6	1	2,262,936	3,982,660	2,755	2,482	273	—	—	3,219,449	472,008
Maryland, total	83	1	1,442,728	2,977,753	2,318	2,100	134	84	60	2,072,889	219,777
1,000 to 4,999	43	—	95,258	198,993	216	152	6	58	42	136,095	1,520
5,000 to 9,999	13	—	83,285	175,727	146	132	1	13	11	114,252	824
10,000 to 24,999	8	—	155,083	327,545	281	256	17	8	4	217,910	19,264
25,000 to 49,999	10	—	374,373	754,310	698	661	36	1	—	532,584	46,181
50,000 to 99,999	3	—	583,556	1,185,978	702	662	40	—	—	827,589	65,660
100,000 to 199,999	2	—	168,173	335,200	275	237	34	4	3	244,459	86,328
Unclassified	4	1	—	—	—	—	—	—	—	—	—
Michigan, total	11	3	456,754	1,723,104	882	802	79	1	—	1,065,158	245,094
10,000 to 24,999	5	1	99,288	380,096	233	217	16	—	—	228,908	25,626
25,000 to 49,999	4	1	—	—	—	—	—	—	—	—	—
50,000 to 99,999	1	—	357,466	1,363,008	616	585	30	1	—	836,250	75,054
100,000 to 199,999	1	1	—	—	—	—	—	—	—	—	—
Unclassified	—	—	—	—	33	—	33	—	—	—	144,414
Missouri, total	180	10	3,273,550	6,138,612	3,661	3,275	212	174	133	2,631,109	491,704
1,000 to 4,999	107	—	281,231	573,148	763	628	10	125	101	375,817	6,540
5,000 to 9,999	25	—	173,907	359,076	358	314	15	29	24	214,469	13,100
10,000 to 24,999	30	1	491,109	1,109,317	1,181	1,118	46	17	8	717,980	66,655
25,000 to 49,999	9	3	308,010	556,127	427	407	17	3	—	337,412	28,477
50,000 to 99,999	2	1	538,071	1,060,516	499	476	23	—	—	446,956	81,036
100,000 to 199,999	3	1	1,501,222	2,480,428	362	332	30	—	—	538,475	94,965
200,000 to 499,999	4	4	—	—	71	—	71	—	—	—	200,931
Unclassified	—	—	—	—	—	—	—	—	—	—	—
Montana, total	59	2	2,756,036	4,018,519	1,331	1,193	69	69	59	1,607,305	185,690
1,000 to 4,999	46	—	97,893	277,669	223	159	1	63	54	189,542	500
5,000 to 9,999	4	1	28,509	80,455	45	39	1	5	5	46,262	460
10,000 to 24,999	2	—	—	—	—	—	—	—	—	—	—
25,000 to 49,999	1	—	331,798	770,388	378	354	23	1	—	372,480	58,089
50,000 to 99,999	2	—	—	—	—	—	—	—	—	—	—
100,000 to 199,999	3	1	2,297,836	2,890,007	679	641	38	—	—	999,021	114,925
200,000 to 499,999	1	—	—	—	6	—	6	—	—	—	11,696
Unclassified	—	—	—	—	—	—	—	—	—	—	—
New Mexico, total	42	1	1,230,060	3,579,049	2,387	2,193	160	34	27	2,082,673	395,013
1,000 to 4,999	23	—	62,982	165,849	175	149	2	24	19	108,900	1,248
5,000 to 9,999	6	—	41,544	105,913	97	86	1	10	8	64,521	1,608
10,000 to 24,999	5	—	85,661	247,247	194	183	11	—	—	141,933	19,520
25,000 to 49,999	1	—	—	—	—	—	—	—	—	—	—
50,000 to 99,999	2	—	184,218	540,933	479	458	21	—	—	374,321	52,874
100,000 to 199,999	3	—	—	—	—	—	—	—	—	—	—
200,000 to 499,999	2	1	855,655	2,519,107	1,405	1,317	88	—	—	1,392,998	199,156
Unclassified	—	—	—	—	37	—	37	—	—	—	120,607
Ohio, total	656	7	20,289,553	35,342,461	19,113	17,585	1,018	710	542	20,476,278	2,163,466
1,000 to 4,999	385	—	826,347	1,530,203	1,724	1,185	12	527	421	1,013,769	5,323
5,000 to 9,999	95	—	675,659	1,264,674	961	829	17	115	89	765,550	18,859
10,000 to 24,999	63	—	970,188	1,796,465	1,085	985	60	40	21	1,006,255	88,358
25,000 to 49,999	35	—	1,170,507	2,132,688	1,195	1,092	90	13	4	1,195,814	95,039
50,000 to 99,999	22	—	1,588,691	2,590,918	1,232	1,156	70	6	2	1,178,817	140,843
100,000 to 199,999	35	—	2,856,280	4,582,251	2,124	2,058	59	7	5	2,339,449	180,512
200,000 to 499,999	15	2	5,046,507	8,470,738	5,454	5,332	120	2	—	6,232,982	238,680
500,000 to 999,999	7	2	7,006,827	10,657,288	4,839	4,676	163	—	—	6,845,473	388,475
1,000,000 and over	2	1	168,567	337,236	499	72	427	—	—	100,269	1,053,397
Unclassified	12	2	—	—	—	—	—	—	—	—	—
Oklahoma, total	88	—	1,187,582	2,504,489	1,585	1,409	113	63	44	1,222,458	171,106
1,000 to 4,999	48	—	115,049	281,951	316	258	12	48	32	171,592	9,657
5,000 to 9,999	14	—	97,287	250,539	247	216	21	10	6	152,026	16,430
10,000 to 24,999	16	—	251,118	614,295	494	446	41	7	—	372,253	40,169
25,000 to 49,999	6	—	215,143	469,655	272	251	21	—	—	235,235	40,046
50,000 to 99,999	2	—	—	—	—	—	—	—	—	—	—
100,000 to 199,999	1	—	508,965	888,049	256	238	18	—	—	295,352	64,804
200,000 to 499,999	1	—	—	—	—	—	—	—	—	—	—
Pennsylvania, total	1,258	52	92,584,113	188,925,306	99,352	93,033	5,294	1,025	671	118,996,537	12,449,567
1 to 999	10	—	5,606	11,709	62	43	8	11	9	57,479	8,315
1,000 to 4,999	556	1	1,304,933	2,582,086	3,047	2,298	109	640	482	1,685,640	54,946
5,000 to 9,999	185	1	1,178,589	2,413,580	2,227	1,953	97	177	102	1,550,699	89,117
10,000 to 24,999	159	1	2,591,991	5,287,756	4,146	3,758	261	127	56	3,221,384	322,430
25,000 to 49,999	89	2	3,135,256	6,248,497	4,054	3,803	187	44	13	3,685,180	297,868
50,000 to 99,999	69	3	5,034,903	9,961,705	5,334	6,051	268	15	7	6,422,518	475,979
100,000 to 199,999	68	8	9,511,816	18,728,965	11,726	11,371	350	5	2	12,718,051	725,899
200,000 to 499,999	59	12	19,033,115	38,588,793	20,281	19,579	682	—	—	24,108,275	1,589,521
500,000 to 999,999	41	9	27,545,851	54,389,503	24,759	24,055	703	1	—	33,910,789	1,885,855
1,000,000 and over	11	3	14,251,155	32,321,475	12,046	11,827	419	—	—	18,286,111	1,127,321
Unclassified	51	12	8,992,918	18,395,459	10,710	8,495	2,210	5	—	11,370,431	5,676,236

See footnotes at end of table.

MINERAL INDUSTRIES

TABLE 12.—SELECTED STATISTICS FOR BITUMINOUS-COAL OPERATIONS IN THE UNITED STATES, CLASSIFIED BY QUANTITY OF COAL PRODUCED AND BY STATE: 1939¹—Concluded
(For producing operations only)

STATE AND TONS OF COAL PRODUCED (tons of 2,000 pounds)	Number of mines	Number of clean- ing plants	Production of coal (tons of 2,000 pounds)	Value of all products	NUMBER OF PERSONS ENGAGED					Wages	Salaries
					Total	Wage earners (average for the year)	Salaried em- ployees	Proprietors and firm members			
								Total	Per- forming manual labor		
Tennessee, total-----	123	4	5,185,481	\$10,104,223	7,559	7,081	588	90	64	\$6,580,869	\$731,811
1,000 to 4,999-----	66	-----	153,501	285,064	421	337	7	77	60	183,514	2,211
5,000 to 9,999-----	10	-----	69,403	133,557	153	135	12	6	2	98,768	5,621
10,000 to 24,999-----	10	-----	146,030	269,250	394	369	22	3	2	181,670	22,111
25,000 to 49,999-----	8	-----	278,713	539,157	603	573	30	-----	-----	351,979	43,641
50,000 to 99,999-----	10	1	742,687	1,355,919	1,126	1,084	41	1	-----	914,761	59,431
100,000 to 199,999-----	11	-----	1,600,505	3,127,306	1,876	1,793	80	3	-----	1,921,336	140,111
200,000 to 499,999-----	8	3	2,194,642	4,393,870	2,932	2,790	142	-----	-----	2,926,641	277,911
Unclassified-----	-----	-----	-----	-----	54	-----	54	-----	-----	-----	191,011
Texas, total-----	4	1	16,259	52,470	94	75	16	3	2	34,497	2,811
1,000 to 4,999-----	3	1	-----	-----	-----	-----	-----	-----	-----	-----	-----
5,000 to 9,999-----	1	-----	16,259	52,470	94	75	16	3	2	34,497	2,811
Utah, total-----	51	1	3,284,904	7,025,257	2,618	2,328	260	30	23	3,308,153	643,631
1,000 to 4,999-----	21	-----	54,989	122,446	97	77	1	19	14	78,229	731
5,000 to 9,999-----	7	-----	47,463	101,095	61	53	3	5	3	62,964	1,511
10,000 to 24,999-----	6	-----	80,474	187,838	77	69	3	5	5	79,205	5,311
25,000 to 49,999-----	4	-----	143,306	333,126	149	143	5	1	1	187,243	11,911
50,000 to 99,999-----	5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100,000 to 199,999-----	2	-----	627,689	1,395,001	593	562	31	-----	-----	791,067	64,711
200,000 to 499,999-----	4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
500,000 to 999,999-----	2	1	2,331,013	4,905,751	1,513	1,424	89	-----	-----	2,111,455	269,711
Unclassified-----	-----	-----	-----	-----	128	-----	128	-----	-----	-----	270,111
Virginia, total-----	112	15	13,530,974	24,993,885	15,836	15,065	717	54	34	15,781,303	1,365,061
1,000 to 4,999-----	35	-----	68,165	125,650	189	149	-----	40	25	74,570	-----
5,000 to 9,999-----	9	-----	63,948	131,541	153	139	8	6	5	78,098	3,911
10,000 to 24,999-----	7	-----	92,089	164,086	193	179	8	6	2	107,302	9,711
25,000 to 49,999-----	7	-----	280,338	514,110	539	516	23	-----	-----	410,388	41,511
50,000 to 99,999-----	11	4	853,155	1,686,464	1,393	1,334	59	-----	-----	1,101,702	82,211
100,000 to 199,999-----	17	2	2,481,412	4,628,740	3,168	3,059	109	-----	-----	2,978,908	200,611
200,000 to 499,999-----	15	5	4,594,553	8,901,010	5,260	5,101	159	-----	-----	5,420,800	335,111
500,000 to 999,999-----	6	4	-----	-----	-----	-----	-----	-----	-----	-----	-----
1,000,000 and over-----	1	-----	4,965,069	8,602,176	4,563	4,417	146	-----	-----	5,449,848	274,611
Unclassified-----	4	-----	132,245	242,108	378	171	205	2	2	161,697	415,911
Washington, total-----	52	18	1,690,442	5,261,681	2,409	2,219	137	53	42	2,947,264	305,911
1 to 999-----	1	-----	(3)	(3)	(3)	-----	-----	(3)	(3)	(3)	-----
1,000 to 4,999-----	21	-----	49,858	189,307	115	82	-----	33	31	111,930	-----
5,000 to 9,999-----	7	3	51,373	176,658	126	115	4	7	6	134,174	6,111
10,000 to 24,999-----	9	7	151,549	427,703	231	210	15	6	2	249,258	33,711
25,000 to 49,999-----	4	2	146,680	413,248	202	187	13	2	-----	224,080	31,511
50,000 to 99,999-----	2	2	-----	-----	-----	-----	-----	-----	-----	-----	-----
100,000 to 199,999-----	2	2	684,378	2,311,061	873	830	42	1	-----	1,243,949	115,911
200,000 to 499,999-----	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----
Unclassified-----	5	1	4,628,646	4,1763,714	4,862	795	63	4	3	4,983,873	115,911
West Virginia, total-----	721	107	106,361,934	190,668,091	96,342	94,084	3,965	293	205	119,563,909	8,917,111
1 to 999-----	2	-----	413,383	688,583	969	739	19	211	161	466,892	15,111
1,000 to 4,999-----	194	-----	332,372	558,145	613	526	33	54	40	371,478	23,411
5,000 to 9,999-----	47	-----	917,579	1,653,286	1,413	1,277	116	20	4	1,093,788	114,111
10,000 to 24,999-----	54	1	1,720,617	3,043,159	2,416	2,248	161	7	-----	2,145,372	196,111
25,000 to 49,999-----	47	4	5,841,413	10,305,199	6,461	6,121	340	-----	-----	6,915,730	547,111
50,000 to 99,999-----	76	6	14,135,277	24,945,381	14,853	14,288	564	1	-----	16,599,368	1,061,111
100,000 to 199,999-----	95	14	34,135,247	60,982,924	31,392	30,546	1,046	-----	-----	38,615,448	2,538,111
200,000 to 499,999-----	115	43	31,994,442	55,509,346	24,164	23,459	705	-----	-----	32,521,306	1,915,111
500,000 to 999,999-----	48	29	12,028,629	20,701,980	9,336	8,958	378	-----	-----	12,763,618	814,111
1,000,000 and over-----	10	2	6,843,075	12,279,108	6,725	6,122	603	-----	-----	8,071,709	1,660,111
Unclassified-----	33	8	-----	-----	-----	-----	-----	-----	-----	-----	-----
Wyoming, total-----	66	-----	5,373,289	11,078,017	4,553	4,074	226	53	45	5,390,056	662,411
1,000 to 4,999-----	28	-----	55,286	138,727	107	88	-----	39	37	85,043	-----
5,000 to 9,999-----	7	-----	45,505	115,495	72	61	2	9	8	61,403	1,511
10,000 to 24,999-----	5	-----	74,183	147,422	73	68	4	1	-----	78,608	8,211
25,000 to 49,999-----	6	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
50,000 to 99,999-----	1	-----	283,463	629,720	287	262	21	4	-----	293,010	43,111
100,000 to 199,999-----	8	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200,000 to 499,999-----	10	-----	4,914,872	10,046,653	3,743	3,615	128	-----	-----	4,871,992	392,111
500,000 to 999,999-----	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Unclassified-----	-----	-----	-----	-----	71	-----	71	-----	-----	-----	217,411
Arizona, Georgia, Idaho, and Oregon, total-----	8	-----	39,021	115,683	128	120	2	6	6	83,525	2,711
1,000 to 4,999-----	5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
5,000 to 9,999-----	1	-----	39,021	115,683	128	120	2	6	6	83,525	2,711

¹For definition of the industry see footnote 1 to tables 1 and 2. Reports classified by quantity of coal produced represent a single mine or cleaning plant; reports for single mine and a single cleaning plant reported together. Statistics shown for "Unclassified" represent: Reports for more than one mine or cleaning plant; reports for cleaning plants serving more than one mine and reports for mines served, in cases where quantity figures could not be obtained for the mines and plants separately; and reports for central offices reported separately from their associated mining operations.

²Includes statistics for 209 central-office employees in Minnesota and New York; these employees were paid \$555,791.

³Included in "Unclassified."

⁴Includes "1 to 999" class interval.

BITUMINOUS COAL

249

TABLE 13.—SELECTED STATISTICS FOR BITUMINOUS-COAL OPERATIONS IN THE UNITED STATES, CLASSIFIED BY NUMBER OF WAGE EARNERS
AND BY STATE: 1939¹
(For producing operations only)

STATE AND NUMBER OF WAGE EARNERS	Number of mines	Number of clean- ing plants	Production of coal (tons of 2,000 pounds)	Value of all products	NUMBER OF PERSONS ENGAGED					Wages	Salaries
					Total	Wage earners (average for the year)	Salaried em- ployees	Proprietors and firm members			
								Total	Per- forming manual labor		
United States, total-----	5,686	365	391,728,862	\$727,357,537	² 393,308	369,156	² 19,656	4,496	3,270	\$430,427,148	² \$44,120,411
None-----	87	-----	128,264	236,151	224	-----	-----	224	221	158,593	-----
1 to 5-----	1,312	1	3,308,128	6,077,291	5,750	4,040	130	1,580	1,276	3,519,301	65,648
6 to 20-----	1,210	17	11,630,365	21,817,256	15,630	13,628	898	1,104	712	11,593,438	958,504
21 to 50-----	614	38	18,467,766	34,217,165	21,067	19,503	1,289	275	112	18,398,030	1,991,538
51 to 100-----	410	44	32,331,323	58,920,000	31,174	29,445	1,680	49	12	30,900,211	2,963,525
101 to 250-----	568	110	96,499,846	174,222,172	97,217	93,534	3,666	17	5	104,159,923	7,628,641
251 to 500-----	278	81	111,070,825	201,612,097	98,994	95,569	3,419	6	3	118,665,576	8,505,137
501 to 1,000-----	99	44	71,975,853	138,345,275	69,893	67,596	2,296	1	-----	86,366,770	5,517,199
1,001 to 2,500-----	13	4	19,227,096	40,390,686	19,085	18,496	569	-----	-----	24,930,404	1,364,692
2,501 and over-----	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Unclassified-----	1,094	26	27,089,396	51,519,464	² 34,294	27,345	² 5,709	1,240	929	31,934,902	² 14,925,523
Alabama, total-----	231	52	12,046,675	27,790,156	20,105	19,178	728	199	150	16,834,006	1,564,786
None-----	1	-----	(³)	(³)	(³)	-----	-----	(³)	(³)	(³)	-----
1 to 5-----	24	-----	42,209	85,529	126	88	3	35	32	55,285	331
6 to 20-----	31	-----	146,682	306,360	417	378	12	27	13	210,930	14,204
21 to 50-----	17	5	233,182	532,723	536	506	22	8	3	318,607	26,735
51 to 100-----	7	6	319,456	725,374	521	496	25	-----	-----	379,503	37,020
101 to 250-----	26	23	2,668,204	6,427,604	4,741	4,552	189	-----	-----	3,620,571	381,254
251 to 500-----	5	4	1,102,610	2,354,775	1,699	1,657	42	-----	-----	1,406,212	88,080
501 to 1,000-----	9	9	4,111,948	9,811,513	6,336	6,138	198	-----	-----	5,928,424	445,933
1,001 to 2,500-----	2	2	1,799,668	3,689,882	2,871	2,750	118	43	43	2,472,077	238,992
Unclassified-----	109	3	1,622,716	3,856,396	2,858	2,613	119	126	99	2,244,397	332,237
Arkansas, total-----	78	1	1,152,038	3,655,657	2,601	2,614	145	42	30	2,116,629	248,540
None-----	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
1 to 5-----	9	-----	21,987	43,408	35	24	-----	11	10	22,919	-----
6 to 20-----	14	-----	54,188	166,263	174	147	15	12	6	108,674	6,842
21 to 50-----	21	1	276,711	869,685	735	688	43	4	2	548,521	47,851
51 to 100-----	16	-----	465,421	1,553,467	1,216	1,151	65	-----	-----	899,607	141,800
101 to 250-----	5	-----	303,715	945,026	582	560	22	-----	-----	496,375	52,047
Unclassified-----	12	-----	30,136	67,808	59	44	-----	15	12	43,533	-----
Colorado, total-----	211	11	5,923,210	14,952,288	8,294	7,607	507	180	139	8,703,595	1,008,336
None-----	4	-----	6,298	12,393	11	-----	-----	11	11	10,543	-----
1 to 5-----	60	-----	141,607	341,374	266	187	2	77	63	198,843	1,554
6 to 20-----	52	-----	442,878	1,069,679	665	584	40	41	28	576,208	57,437
21 to 50-----	31	3	680,362	1,880,969	1,089	995	68	26	18	1,025,608	101,062
51 to 100-----	17	2	971,038	2,410,335	1,273	1,197	76	-----	-----	1,288,449	139,178
101 to 250-----	24	5	-----	-----	-----	-----	-----	-----	-----	-----	-----
251 to 500-----	1	-----	3,616,221	9,077,088	4,733	4,581	152	-----	-----	5,518,123	327,086
501 to 1,000-----	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Unclassified-----	21	1	64,766	160,450	257	63	169	25	19	86,021	382,019
Illinois, total-----	546	45	46,782,691	76,863,708	33,907	31,013	2,395	499	376	35,203,157	6,163,619
None-----	3	-----	4,242	6,856	8	-----	-----	8	8	4,132	-----
1 to 5-----	94	-----	240,012	432,423	455	313	6	136	120	257,557	7,913
6 to 20-----	143	3	1,339,249	2,429,715	1,821	1,580	86	155	112	1,280,683	100,619
21 to 50-----	65	5	2,381,016	4,034,644	2,314	2,141	140	33	9	2,066,854	247,626
51 to 100-----	36	5	5,172,689	8,092,062	2,712	2,511	188	13	4	3,203,540	345,185
101 to 250-----	38	14	10,422,922	16,236,371	6,114	5,791	318	5	3	6,960,923	720,426
251 to 500-----	32	13	17,196,356	28,907,353	12,160	11,563	597	-----	-----	13,857,769	1,698,127
501 to 1,000-----	6	2	7,063,305	11,286,162	4,974	4,758	216	-----	-----	5,127,425	601,558
1,001 to 2,500-----	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Unclassified-----	128	3	2,962,920	5,438,122	3,349	2,356	844	149	120	2,444,254	2,442,364
Indiana, total-----	266	16	16,942,772	25,175,969	9,318	8,541	549	228	167	10,714,961	1,223,398
None-----	6	-----	12,895	22,147	13	-----	-----	13	13	14,455	-----
1 to 5-----	79	-----	256,927	387,662	344	243	8	93	79	202,664	2,285
6 to 20-----	89	-----	1,129,969	1,828,047	1,143	995	72	76	45	906,132	67,359
21 to 50-----	33	2	1,839,459	2,922,035	1,144	1,058	68	18	8	1,279,465	129,595
51 to 100-----	14	4	2,246,808	3,449,748	1,060	992	68	-----	-----	1,510,668	136,359
101 to 250-----	20	8	8,897,644	12,647,412	3,910	3,717	193	-----	-----	5,189,441	470,710
251 to 500-----	2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
501 to 1,000-----	1	1	1,621,054	2,573,725	1,105	1,066	39	-----	-----	1,150,642	125,785
Unclassified-----	22	1	938,216	1,345,193	599	470	101	28	22	661,494	292,967
Iowa, total-----	271	-----	2,947,557	7,189,337	5,037	4,565	209	263	197	4,404,455	347,924
None-----	1	-----	(⁵)	(⁵)	(⁵)	-----	-----	(⁵)	(⁵)	(⁵)	-----
1 to 5-----	36	-----	79,684	169,794	155	110	5	40	32	93,543	1,893
6 to 20-----	59	-----	634,287	1,328,263	735	651	29	55	45	627,801	41,000
21 to 50-----	33	-----	589,958	1,504,830	1,093	1,012	66	15	3	845,476	85,494
51 to 100-----	7	-----	257,859	725,636	528	510	18	-----	-----	472,026	36,298
101 to 250-----	6	-----	510,965	1,378,145	952	906	46	-----	-----	945,278	90,835
251 to 500-----	2	-----	450,317	1,222,964	717	682	21	44	44	869,531	47,029
Unclassified-----	127	-----	371,657	858,505	857	684	24	149	113	550,800	45,375
Kansas, total-----	93	6	2,674,691	5,057,992	2,597	2,376	124	97	84	1,932,167	235,244
None-----	1	-----	(⁶)	(⁶)	(⁶)	-----	-----	(⁶)	(⁶)	(⁶)	-----
1 to 5-----	17	-----	33,108	66,054	75	56	-----	19	17	36,245	-----
6 to 20-----	39	-----	273,262	539,927	503	442	15	46	43	318,554	13,662
21 to 50-----	9	1	363,746	665,002	321	298	19	4	2	233,337	33,275
51 to 100-----	7	5	1,536,619	2,780,641	517	490	27	-----	-----	732,602	66,277
101 to 250-----	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
251 to 500-----	1	-----	434,051	745,451	606	595	8	43	43	483,402	15,600
Unclassified-----	18	-----	126,905	260,917	575	495	55	25	19	128,027	106,430

See footnotes at end of table.

MINERAL INDUSTRIES

TABLE 13.—SELECTED STATISTICS FOR BITUMINOUS-COAL OPERATIONS IN THE UNITED STATES, CLASSIFIED BY NUMBER OF WAGE EARNERS
AND BY STATE: 1939¹—Continued
(For producing operations only)

STATE AND NUMBER OF WAGE EARNERS	Number of mines	Number of clean- ing plants	Production of coal (tons of 2,000 pounds)	Value of all products	NUMBER OF PERSONS ENGAGED					Wages	Salaries
					Total	Wage earners (average for the year)	Salaried em- ployees	Proprietors and firm members			
								Total	Per- forming manual labor		
Kentucky, total	478	12	42,556,568	\$74,163,830	49,072	46,826	2,000	246	170	\$48,674,395	\$3,819,406
1 to 5	75	—	155,808	204,488	330	242	3	85	62	132,546	1,385
6 to 20	65	—	499,358	735,486	859	759	49	51	28	434,703	44,558
21 to 50	40	1	1,089,946	1,677,109	1,452	1,361	80	11	4	1,045,030	86,770
51 to 100	62	3	4,578,471	7,439,400	5,041	4,796	242	3	2	4,180,402	375,542
101 to 250	102	3	13,891,212	22,658,887	17,040	16,417	623	—	—	15,427,186	1,352,955
251 to 500	36	3	12,441,472	21,949,578	13,150	12,616	532	—	—	13,757,869	1,049,049
501 to 1,000	7	1	7,445,537	15,223,902	8,005	7,807	198	—	—	10,289,540	457,139
2,501 and over	1	—	—	—	—	—	—	—	—	—	—
Unclassified	90	1	2,474,764	4,274,980	3,195	2,826	273	96	74	3,407,119	472,008
Maryland, total	83	1	1,442,728	2,977,753	2,318	2,100	134	84	60	2,072,889	219,777
None	1	—	(?)	(?)	(?)	—	—	(?)	(?)	(?)	(?)
1 to 5	15	—	30,059	65,281	74	47	4	23	14	50,536	725
6 to 20	10	—	56,784	119,079	116	104	6	6	4	76,819	1,914
21 to 50	12	—	258,084	530,753	459	424	26	9	4	362,648	29,688
51 to 100	9	—	420,768	858,854	712	680	32	—	—	611,268	44,540
101 to 250	3	—	426,324	898,011	532	497	35	—	—	618,808	56,877
Unclassified	33	1	250,729	505,775	425	348	31	46	38	353,010	86,033
Michigan, total	11	3	456,754	1,723,104	882	802	79	1	—	1,065,158	245,094
21 to 50	7	2	151,958	588,168	315	291	24	—	—	366,542	41,581
51 to 100	2	—	—	—	—	—	—	—	—	—	—
101 to 250	1	—	304,896	1,134,936	534	511	22	1	—	698,616	59,299
251 to 500	1	1	—	—	—	—	—	—	—	—	—
Unclassified	—	—	—	—	33	—	33	—	—	—	144,414
Missouri, total	180	10	3,273,550	6,138,612	3,661	3,275	212	174	133	2,651,109	491,704
None	1	—	(^a)	(^a)	(^a)	—	—	(^a)	(^a)	(^a)	(^a)
1 to 5	43	—	95,102	174,764	187	125	2	60	50	87,885	897
6 to 20	51	—	300,229	609,960	655	586	29	40	29	366,380	23,915
21 to 50	26	3	576,532	1,136,066	849	792	42	15	12	628,719	104,087
51 to 100	18	6	1,673,270	3,043,094	1,235	1,176	55	4	—	1,029,462	133,666
101 to 250	1	1	451,174	937,870	496	581	13	42	42	356,474	28,228
251 to 500	1	—	109,243	237,058	339	215	71	53	40	152,189	200,931
Unclassified	39	—	—	—	—	—	—	—	—	—	—
Montana, total	59	2	2,756,036	4,018,519	1,331	1,193	69	69	59	1,607,305	185,690
None	1	—	(?)	(?)	(?)	—	—	(?)	(?)	(?)	(?)
1 to 5	37	—	81,276	212,481	154	104	1	49	43	137,312	500
6 to 20	11	1	55,977	157,271	118	103	2	13	12	110,597	3,057
21 to 50	2	—	1,224,241	1,380,867	158	138	19	1	—	179,739	58,972
51 to 100	1	—	—	—	—	—	—	—	—	—	—
101 to 250	5	1	1,389,330	2,253,123	884	843	41	—	—	1,170,446	111,465
Unclassified	2	—	45,212	14,777	47	5	6	46	44	9,211	11,696
New Mexico, total	42	1	1,230,080	3,579,049	2,587	2,193	160	34	27	2,082,673	395,013
1 to 5	8	—	14,073	38,269	44	31	1	12	11	23,573	363
6 to 20	14	—	61,719	157,538	159	143	2	14	10	100,075	2,493
21 to 50	6	—	90,584	261,956	218	206	11	1	—	154,672	19,520
101 to 250	6	—	1,039,873	3,060,040	1,884	1,775	109	—	—	1,767,319	252,030
251 to 500	2	1	23,831	61,246	82	38	37	7	6	37,034	120,607
Unclassified	6	—	—	—	—	—	—	—	—	—	—
Ohio, total	656	7	20,289,553	33,542,461	19,113	17,385	1,018	710	542	20,476,278	2,163,486
None	24	—	32,130	54,955	60	—	—	60	60	36,625	—
1 to 5	197	—	557,175	982,543	816	558	16	242	212	532,701	7,509
6 to 20	150	2	2,011,662	3,530,952	1,902	1,669	90	143	98	1,637,156	145,646
21 to 50	45	—	2,122,466	3,515,757	1,493	1,368	110	15	8	1,632,236	219,253
51 to 100	18	—	1,753,899	2,848,344	1,305	1,224	76	5	2	1,427,117	100,505
101 to 250	11	—	1,580,763	2,681,114	1,651	1,612	38	1	—	1,564,123	97,514
251 to 500	18	2	7,141,408	11,494,068	6,447	6,277	164	6	3	8,108,110	374,598
501 to 1,000	6	3	4,338,433	7,026,812	4,157	4,045	112	—	—	4,879,878	198,748
Unclassified	187	—	751,615	1,207,916	1,282	632	412	238	159	658,332	1,019,715
Oklahoma, total	88	—	1,167,562	2,504,489	1,585	1,409	113	63	44	1,222,458	171,106
None	1	—	(?)	(?)	(?)	—	—	(?)	(?)	(?)	(?)
1 to 5	23	—	42,679	102,338	102	76	2	24	18	62,836	650
6 to 20	37	—	206,243	487,500	450	393	31	26	16	282,094	26,682
21 to 50	15	—	281,869	602,027	463	414	45	4	4	344,348	51,547
51 to 100	9	—	645,836	1,292,314	551	516	35	—	—	521,069	92,247
Unclassified	3	—	48,935	20,310	49	10	—	49	46	42,091	—
Pennsylvania, total	1,258	52	92,584,113	188,925,306	99,352	93,033	5,294	1,025	671	116,996,537	12,449,367
None	34	—	48,056	88,985	89	—	—	89	87	61,455	—
1 to 5	562	1	991,527	1,796,253	1,564	1,088	69	407	302	1,017,479	36,315
6 to 20	282	5	2,800,864	5,463,604	3,602	3,273	254	275	143	2,835,692	287,100
21 to 50	151	3	3,561,467	7,105,807	4,978	4,822	276	80	30	4,271,190	407,537
51 to 100	71	4	4,308,018	8,797,468	5,372	5,089	256	17	3	5,430,561	402,940
101 to 250	96	10	13,030,240	26,622,203	15,808	15,422	481	8	2	17,324,778	1,024,877
251 to 500	65	11	24,200,392	47,639,285	23,067	22,592	675	—	—	29,609,356	1,731,423
501 to 1,000	35	10	25,530,845	53,071,856	25,625	24,610	812	1	—	33,563,727	1,992,701
1,001 to 2,500	6	1	8,610,146	19,891,179	7,517	7,248	269	—	—	11,250,669	734,392
Unclassified	158	7	9,502,538	18,448,664	11,432	9,079	2,202	151	104	11,631,630	5,852,082

See footnotes at end of table.

BITUMINOUS COAL

251

TABLE 13.—SELECTED STATISTICS FOR BITUMINOUS-COAL OPERATIONS IN THE UNITED STATES, CLASSIFIED BY NUMBER OF WAGE EARNERS
AND BY STATE: 1939¹—Concluded
(For producing operations only)

STATE AND NUMBER OF WAGE EARNERS	Number of mines	Number of clean- ing plants	Production of coal (tons of 2,000 pounds)	Value of all products	NUMBER OF PERSONS ENGAGED					Wages	Salaries
					Total	Wage earners (average for the year)	Salaried em- ployees	Proprietors and firm members			
								Total	Per- forming manual labor		
Tennessee, total	123	4	5,185,481	\$10,104,223	7,559	7,081	388	90	64	\$6,580,669	\$731,935
1 to 5	25	---	51,241	88,875	114	87	---	27	23	54,450	---
6 to 20	25	---	99,718	198,250	250	212	16	22	12	131,947	7,584
21 to 50	12	1	235,046	365,787	396	371	22	5	2	237,510	19,475
51 to 100	10	---	374,281	704,834	747	707	40	---	---	449,254	60,174
101 to 250	20	---	2,390,556	4,647,524	3,158	3,031	123	4	---	2,984,445	191,290
251 to 500	6	2	1,978,559	3,975,737	2,696	2,563	133	---	---	2,674,216	272,576
501 to 1,000	1	1	---	---	---	---	---	---	---	---	---
Unclassified	26	---	58,280	107,236	198	110	54	34	27	68,847	181,036
Texas, total	4	1	16,259	52,470	94	75	16	3	2	34,497	2,853
6 to 20	2	1	---	---	---	---	---	---	---	---	---
21 to 50	1	---	16,259	52,470	94	75	16	3	2	34,497	2,853
Unclassified	1	---	---	---	---	---	---	---	---	---	---
Utah, total	51	1	3,284,904	7,025,257	2,618	2,328	260	30	23	3,308,153	643,529
1 to 5	17	---	57,988	127,576	80	62	2	16	11	76,832	1,238
6 to 20	11	---	102,995	214,646	124	112	5	7	6	110,008	6,674
21 to 50	3	---	112,798	264,116	94	91	2	1	1	139,048	5,988
51 to 100	7	---	561,943	1,226,358	538	504	34	---	---	702,970	92,556
101 to 250	4	1	1,150,768	2,476,529	734	694	40	---	---	1,036,649	95,287
251 to 500	3	---	1,276,469	2,666,895	889	840	49	---	---	1,211,088	172,846
Unclassified	6	---	21,945	49,157	159	25	128	6	5	31,558	270,540
Virginia, total	112	15	13,530,974	24,993,685	15,836	15,065	717	54	34	15,781,303	1,365,086
1 to 5	23	---	42,732	70,823	108	77	---	31	21	40,552	---
6 to 20	19	---	107,000	191,805	202	181	8	13	7	110,651	6,169
21 to 50	5	---	52,951	104,680	153	145	4	4	1	66,514	2,392
51 to 100	12	2	703,394	1,307,152	899	852	47	---	---	783,983	83,468
101 to 250	24	5	3,163,302	5,888,153	4,046	3,913	133	---	---	3,709,186	235,226
251 to 500	15	4	4,627,253	8,752,771	5,253	5,097	156	---	---	5,299,807	299,220
501 to 1,000	7	4	4,698,130	8,419,552	4,762	4,617	165	---	---	5,596,760	325,044
Unclassified	7	---	136,212	258,749	393	183	204	6	5	174,050	413,567
Washington, total	52	18	1,690,442	5,261,681	2,409	2,219	137	53	42	2,947,264	305,963
None	3	---	3,352	10,415	8	---	---	8	8	6,886	---
1 to 5	14	---	32,305	110,807	71	47	---	24	22	70,753	---
6 to 20	11	4	89,395	261,724	151	138	4	9	9	161,092	10,631
21 to 50	10	8	188,614	534,225	314	287	22	5	---	334,415	45,228
51 to 100	3	1	167,851	521,082	215	202	11	2	---	276,055	26,198
101 to 250	4	4	576,376	2,040,365	778	740	37	1	---	1,105,210	105,706
Unclassified	7	1	632,549	1,783,063	872	805	63	4	3	994,873	118,200
West Virginia, total	721	107	108,361,934	190,668,091	98,342	94,084	3,965	293	205	119,563,909	6,917,376
None	2	---	(7)	(7)	(7)	---	---	(7)	(7)	(7)	---
1 to 5	130	---	284,374	438,887	556	409	6	141	107	283,905	2,090
6 to 20	83	1	1,021,682	1,635,821	1,155	981	111	63	39	827,450	95,454
21 to 50	66	3	1,990,824	3,397,454	2,389	2,204	169	16	1	2,186,341	216,206
51 to 100	79	6	5,736,282	10,034,311	6,103	5,740	361	2	1	6,604,617	559,018
101 to 250	161	35	29,945,098	52,005,850	29,256	28,125	1,130	1	---	33,671,437	2,353,157
251 to 500	94	40	56,543,802	65,742,411	28,969	28,115	854	---	---	37,586,598	2,265,346
501 to 1,000	26	13	20,834,480	37,485,609	18,464	17,856	628	---	---	24,208,787	1,585,739
1,001 to 2,500	4	1	5,325,342	9,436,389	4,474	4,371	103	---	---	5,985,502	222,095
Unclassified	86	8	4,980,080	12,493,359	6,976	6,303	603	470	457	6,209,672	1,660,271
Wyoming, total	66	---	5,373,289	11,078,017	4,353	4,074	226	55	45	5,390,056	662,473
None	3	---	4,756	10,290	8	---	---	8	8	5,807	---
1 to 5	23	---	56,516	138,655	92	63	---	29	28	81,794	---
6 to 20	12	---	185,503	361,574	172	157	9	6	4	163,761	17,107
21 to 50	4	---	223,326	407,243	126	113	11	2	---	170,520	23,567
51 to 100	4	---	315,302	721,709	355	337	16	2	---	346,972	87,870
101 to 250	10	---	2,062,956	4,117,218	1,647	1,593	54	---	---	2,106,640	151,531
251 to 500	6	---	2,513,328	5,292,321	1,867	1,802	65	---	---	2,496,041	184,956
Unclassified	4	---	11,602	29,007	86	9	71	6	5	16,421	217,442
Arizona, Georgia, Idaho, and Oregon, total	6	---	39,021	115,685	128	120	2	6	6	85,525	2,715
1 to 5	1	---	---	---	---	---	---	---	---	---	---
6 to 20	2	---	6,748	18,420	21	17	---	4	4	11,908	---
51 to 100	1	---	---	---	---	---	---	---	---	---	---
Unclassified	2	---	32,273	97,263	107	103	2	2	2	71,617	2,715

¹ For definition of the industry see footnote 1 to tables 1 and 2. Reports classified by average number of wage earners employed during the year represent a single mine or cleaning plant or a single mine and a single cleaning plant reported together. Statistics shown for "Unclassified" represent: Reports for more than one mine or cleaning plant; reports on which number of wage earners, by month, was not adequately reported; reports for cleaning plants serving more than one mine and reports for mines served, in cases where average number of wage earners reported for the plant and for each of the mines it served were not in the same class interval; and reports for central offices reported separately from their associated mining operations.

² Includes statistics for 209 central-office employees in Minnesota and New York; these employees were paid \$555,791.

³ Included in "1,001 to 2,500" class interval.

⁴ Includes "None" class interval.

⁵ Included in "251 to 500" class interval.

⁶ Included in the combined class intervals "101 to 250" and "251 to 500."

⁷ Included in "Unclassified."

MINERAL INDUSTRIES

TABLE 14.—SELECTED STATISTICS FOR BITUMINOUS-COAL OPERATIONS IN THE UNITED STATES, CLASSIFIED BY NUMBER OF HOURS PER WAGE EARNER IN THE FULL-TIME WORKWEEK AND BY STATE: 1939¹

(For producing operations only)

STATE AND HOURS PER WEEK	Number of mines	Number of cleaning plants	Production of coal (tons of 2,000 pounds)	Value of all products	NUMBER OF PERSONS ENGAGED					Wages	Salaries
					Total	Wage earners (average for the year)	Salaried employees	Proprietors and firm members			
								Total	Performing manual labor		
United States, total-----	5,686	365	391,728,862	\$727,357,537	² 393,308	369,156	² 19,656	4,496	3,270	\$430,427,148	² \$44,120,411
1 to 34-----	120	2	726,533	1,463,813	1,474	1,289	49	136	102	909,335	82,729
35-----	2,807	313	338,420,610	633,462,563	332,459	318,449	12,469	1,541	1,120	382,582,663	27,192,406
36 to 39-----	147	1	1,683,287	3,000,127	1,778	1,545	55	178	138	1,544,923	109,563
40-----	300	13	10,724,533	15,890,975	5,804	5,122	395	287	206	5,953,783	751,310
41 to 42-----	520	15	15,375,255	28,098,753	15,945	14,819	609	517	409	14,881,206	1,253,490
43 to 44-----	83	1	2,591,570	4,387,482	1,683	1,511	78	94	62	1,508,599	172,156
45 to 47-----	13	1	243,440	490,332	227	189	31	7	5	219,153	22,669
48-----	219	1	2,144,770	3,790,994	2,105	1,780	69	256	213	1,630,002	138,710
49 to 53-----	4	---	57,203	115,611	67	59	---	8	7	51,813	---
54 to 59-----	17	1	147,951	295,457	161	118	27	16	13	121,730	45,555
60 and over-----	21	---	459,879	631,601	158	127	16	15	5	175,396	21,327
Unclassified-----	1,435	17	19,155,851	35,729,629	² 31,447	24,148	² 5,858	1,441	990	20,848,545	² 14,330,496
Alabama, total-----	231	52	12,046,675	27,790,156	20,105	19,178	728	199	150	16,834,006	1,564,786
1 to 34-----	1	---	(³)	(³)	(³)	(³)	---	(³)	(³)	(³)	---
35-----	112	49	10,789,118	24,711,598	17,720	17,051	608	61	46	15,048,213	1,264,829
36 to 39-----	2	---	30,015	70,500	101	89	3	9	4	40,336	1,000
40-----	5	---	168,939	459,773	275	264	11	---	---	252,885	36,401
41 to 42-----	3	2	1,058,603	2,548,285	2,009	1,774	106	429	400	1,492,572	262,556
Unclassified-----	108	1	---	---	---	---	---	---	---	---	---
Arkansas, total-----	78	1	1,152,038	3,655,657	2,801	2,614	145	42	30	2,116,629	248,540
35-----	37	---	496,570	1,643,212	1,431	1,351	60	20	13	1,019,035	121,844
40-----	1	---	(³)	(³)	(³)	(³)	---	(³)	(³)	(³)	---
41 to 42-----	17	1	541,752	1,698,063	1,106	1,046	58	2	2	907,739	107,667
48-----	1	---	(³)	(³)	(³)	(³)	---	(³)	(³)	(³)	---
60 and over-----	1	---	(³)	(³)	(³)	(³)	---	(³)	(³)	(³)	---
Unclassified-----	21	---	⁵ 113,716	⁶ 314,382	⁸ 264	⁸ 217	27	⁵ 20	⁶ 15	⁸ 189,855	18,829
Colorado, total-----	211	11	5,923,210	14,952,268	8,294	7,607	507	180	139	8,703,595	1,008,336
1 to 34-----	2	---	(³)	(³)	(³)	(³)	---	(³)	(³)	(³)	---
35-----	123	10	5,150,244	12,658,642	7,078	6,707	292	79	58	7,618,580	550,996
36 to 39-----	6	---	29,569	69,277	50	36	1	13	10	41,257	2,280
40-----	8	---	27,395	63,843	36	28	2	6	5	31,817	3,220
41 to 42-----	28	---	397,595	1,157,899	495	440	23	32	29	534,517	38,706
43 to 44-----	3	---	40,976	102,732	44	38	2	4	1	47,671	2,280
48-----	11	---	45,235	95,808	76	59	---	17	14	63,344	---
Unclassified-----	30	1	⁴ 232,196	⁴ 804,087	⁴ 515	⁴ 299	187	⁴ 29	⁴ 22	⁴ 366,409	410,854
Illinois, total-----	546	45	46,762,691	76,863,708	33,907	31,013	2,395	499	376	35,203,157	6,163,619
1 to 34-----	16	1	199,480	375,129	292	267	7	18	17	251,606	9,443
35-----	235	36	39,310,802	65,620,551	28,403	26,794	1,473	136	97	30,806,149	3,638,202
36 to 39-----	21	---	100,791	173,481	166	136	2	28	22	120,880	2,110
40-----	28	4	4,170,975	5,430,558	1,324	1,196	99	29	24	1,630,477	215,717
41 to 42-----	61	1	1,214,319	2,227,558	1,051	941	35	75	60	938,634	62,551
43 to 44-----	10	---	156,155	268,282	182	158	5	19	17	153,629	5,935
45 to 47-----	2	---	---	---	---	---	---	---	---	---	---
48-----	19	---	106,376	205,955	200	172	6	22	16	119,763	5,907
Unclassified-----	154	3	1,523,793	2,562,194	2,269	1,349	768	172	123	1,182,019	2,223,954
Indiana, total-----	266	16	16,942,772	25,175,969	9,318	8,541	549	228	167	10,714,961	1,223,398
1 to 34-----	10	---	36,175	48,934	60	46	---	14	13	29,649	---
35-----	106	13	12,264,217	18,450,841	6,554	6,169	319	66	44	7,725,534	688,974
36 to 39-----	13	1	344,061	516,575	154	142	6	6	4	172,213	11,946
40-----	28	1	2,624,742	3,650,892	1,031	919	90	22	13	1,506,147	200,557
41 to 42-----	35	---	508,191	744,314	500	451	9	40	33	415,916	16,303
43 to 44-----	2	---	---	---	---	---	---	---	---	---	---
45 to 47-----	1	---	10,864	16,248	13	7	---	6	4	10,112	---
48-----	22	---	93,785	160,390	139	109	---	30	24	92,267	1,600
49 to 53-----	1	---	---	---	---	---	---	---	---	---	---
54 to 59-----	2	---	41,541	84,361	41	36	---	5	5	45,356	---
60 and over-----	1	---	---	---	---	---	---	---	---	---	---
Unclassified-----	45	1	999,196	1,503,414	826	662	125	39	27	717,767	304,018
Iowa, total-----	271	---	2,947,557	7,189,337	5,037	4,565	209	263	197	4,404,455	347,924
1 to 34-----	1	---	(³)	(³)	(³)	(³)	---	(³)	(³)	(³)	---
35-----	61	---	1,606,634	4,126,717	2,959	2,784	143	32	25	2,786,092	234,397
36 to 39-----	3	---	77,904	173,399	60	51	5	4	3	52,174	10,599
40-----	13	---	79,924	198,793	147	126	13	8	8	106,269	17,093
41 to 42-----	24	---	375,739	818,963	414	374	5	35	30	391,665	14,064
43 to 44-----	7	---	46,649	121,518	69	61	2	6	6	58,148	2,687
48-----	13	---	69,727	142,981	78	68	2	8	7	63,997	4,040
54 to 59-----	2	---	---	---	---	---	---	---	---	---	---
60 and over-----	2	---	87,464	140,214	41	29	6	6	2	41,687	6,397
Unclassified-----	145	---	⁴ 603,436	⁴ 1,468,352	⁴ 1,269	⁴ 1,072	33	⁴ 164	116	⁴ 904,223	58,667
Kansas, total-----	93	6	2,674,691	5,057,992	2,597	2,376	124	97	84	1,932,167	235,244
35-----	23	4	1,779,879	3,331,718	1,264	1,215	42	7	7	1,240,960	83,542
36 to 39-----	4	---	106,207	181,341	96	85	7	4	4	79,672	23,999
40-----	9	2	428,761	776,018	178	163	7	8	7	189,472	15,684
41 to 42-----	26	---	163,408	365,840	304	266	3	35	32	215,959	2,960
48-----	8	---	---	---	---	---	---	---	---	---	---
49 to 53-----	1	---	39,919	87,779	102	84	---	18	15	49,805	---
Unclassified-----	22	---	156,517	315,196	653	563	65	25	19	156,299	108,859

See footnotes at end of table.

BITUMINOUS COAL

253

TABLE 14.—SELECTED STATISTICS FOR BITUMINOUS-COAL OPERATIONS IN THE UNITED STATES, CLASSIFIED BY NUMBER OF HOURS PER WAGE EARNER IN THE FULL-TIME WORKWEEK AND BY STATE: 1939¹—Continued

(For producing operations only)

STATE AND HOURS PER WEEK	Number of mines	Number of cleaning plants	Production of coal (tons of 2,000 pounds)	Value of all products	NUMBER OF PERSONS ENGAGED						Wages	Salaries
					Total	Wage earners (average for the year)	Salaried employees	Proprietors and firm members				
								Total	Performing manual labor			
Kentucky, total	478	12	42,556,568	\$74,163,830	49,072	46,826	2,000	246	170	\$48,674,395	\$3,819,406	
1 to 34	9	8	105,547	212,237	322	308	7	7	4	132,505	17,025	
35	224	8	32,724,879	59,029,113	36,754	35,295	1,393	68	42	39,692,934	2,810,273	
36 to 39	13	2	57,579	98,736	115	94	6	15	13	68,258	9,511	
40	29	2	196,774	292,658	370	353	15	22	14	165,886	18,246	
41 to 42	44	1	3,922,223	5,804,262	4,297	4,115	189	13	7	3,516,848	382,544	
43 to 44	14	1	1,074,601	1,728,704	658	607	23	8	5	512,657	57,031	
45 to 47	12	1	212,165	337,626	268	250	7	11	9	164,981	10,440	
Unclassified	133	1	4,262,800	6,860,494	6,308	5,826	380	102	76	4,220,326	514,346	
Maryland, total	83	1	1,442,728	2,977,753	2,318	2,100	134	84	60	2,072,889	219,777	
1 to 34	3	1	25,368	69,851	49	42	3	4	—	35,284	1,906	
35	29	1	1,125,317	2,348,220	1,720	1,621	86	13	8	1,664,036	121,666	
36 to 39	1	1	66,168	118,332	105	94	4	7	5	72,054	4,320	
40	5	1	—	—	—	—	—	—	—	—	—	
41 to 42	4	1	47,998	85,914	77	67	2	8	6	58,336	2,250	
43 to 44	1	1	177,877	355,436	367	276	39	52	41	243,179	89,635	
Unclassified	40	—	—	—	—	—	—	—	—	—	—	
Michigan, total	11	3	456,754	1,723,104	882	802	79	1	—	1,065,158	245,094	
35	9	1	456,754	1,723,104	882	802	79	1	—	1,065,158	245,094	
Unclassified	2	2	—	—	—	—	—	—	—	—	—	
Missouri, total	180	10	3,273,550	6,138,612	3,661	3,275	212	174	133	2,631,109	491,704	
1 to 34	3	2	5,326	13,158	20	17	—	3	2	7,768	—	
35	43	2	609,217	1,456,374	1,425	1,347	48	30	29	914,115	94,827	
36 to 39	4	1	4,872	10,048	21	16	—	5	5	6,920	—	
40	18	1	150,952	271,648	273	242	11	20	13	167,549	6,106	
41 to 42	27	5	1,632,235	2,829,582	819	748	52	19	15	808,362	117,089	
43 to 44	5	—	48,131	86,929	64	57	1	6	3	34,642	968	
45 to 47	3	—	17,929	32,689	24	20	2	2	1	16,567	750	
48	26	1	556,872	970,538	460	415	18	27	21	390,311	58,514	
54 to 59	6	—	21,468	45,652	34	28	—	6	4	17,897	—	
Unclassified	45	1	226,548	444,014	521	385	80	56	40	266,958	213,672	
Montana, total	59	2	2,756,056	4,018,519	1,331	1,193	69	69	59	1,607,305	185,690	
35	30	2	1,533,241	2,631,144	1,127	1,050	47	30	23	1,411,754	127,834	
40	7	—	1,171,102	1,249,584	97	75	15	7	7	108,543	45,680	
41 to 42	5	—	10,613	29,825	30	21	—	9	9	22,707	—	
43 to 44	4	—	9,695	18,503	15	11	—	4	4	11,125	—	
45 to 47	10	—	22,895	64,855	45	29	—	16	14	35,628	—	
Unclassified	3	—	8,490	24,608	17	7	7	3	2	17,548	12,196	
New Mexico, total	42	1	1,230,060	3,579,049	2,387	2,193	160	34	27	2,082,873	395,013	
1 to 34	2	—	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	
35	8	1	307,045	895,875	520	469	41	10	8	482,442	99,643	
40	3	—	264,967	889,227	562	516	43	3	2	577,224	92,375	
41 to 42	12	—	508,072	1,363,358	896	864	23	9	7	759,763	50,740	
43 to 44	4	—	9,441	24,673	27	24	—	3	3	18,223	—	
Unclassified	13	—	414,055	4,051,916	4,382	4,320	453	49	47	4,245,021	415,255	
Ohio, total	656	7	20,289,553	33,342,461	19,113	17,385	1,018	710	542	20,476,278	2,163,486	
1 to 34	10	—	30,758	52,707	55	43	—	12	8	40,223	—	
35	245	5	15,008,409	24,559,088	14,654	14,004	400	250	214	16,467,370	765,187	
36 to 39	22	—	133,535	251,650	212	180	3	29	23	168,829	7,350	
40	30	—	382,679	581,522	261	223	10	28	25	271,044	13,911	
41 to 42	67	1	1,089,042	1,970,530	799	682	44	73	60	757,104	114,065	
43 to 44	15	—	374,867	582,167	184	160	7	17	11	173,077	6,330	
45 to 47	2	—	—	—	—	—	—	—	—	—	—	
48	34	—	723,471	1,246,385	348	269	40	39	33	585,467	73,123	
49 to 53	1	—	—	—	—	—	—	—	—	—	—	
54 to 59	1	1	357,646	488,039	98	61	11	6	2	125,732	15,630	
60 and over	13	—	2,189,146	3,650,373	2,502	1,743	503	256	166	2,087,432	1,169,872	
Unclassified	216	—	—	—	—	—	—	—	—	—	—	
Oklahoma, total	88	—	1,187,562	2,504,489	1,585	1,409	113	63	44	1,222,458	171,106	
1 to 34	3	—	7,554	20,504	17	11	2	4	3	5,315	3,791	
35	34	—	326,479	709,456	556	481	31	24	18	417,229	56,706	
36 to 39	2	—	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	
41 to 42	24	—	266,283	640,414	489	441	35	13	9	379,688	38,843	
43 to 44	2	—	—	—	—	—	—	—	—	—	—	
45 to 47	7	—	438,525	765,785	223	195	18	10	10	227,826	48,243	
48	2	—	—	—	—	—	—	—	—	—	—	
54 to 59	14	—	714,721	756,330	7320	7281	727	712	4	192,400	723,523	
Unclassified	—	—	—	—	—	—	—	—	—	—	—	
Pennsylvania, total	1,258	52	92,584,113	188,925,306	99,352	93,033	5,294	1,025	671	116,996,537	12,449,367	
1 to 34	39	—	146,932	290,808	253	188	17	48	40	167,008	19,749	
35	717	44	86,509,176	176,794,361	89,571	86,156	2,951	464	309	110,641,812	6,671,123	
36 to 39	41	—	185,432	404,926	337	276	8	53	38	254,430	15,871	
40	66	5	757,975	1,660,958	716	575	66	75	51	729,456	83,946	
41 to 42	79	1	984,372	1,701,684	857	716	48	93	66	755,340	60,065	
43 to 44	14	—	358,651	541,388	187	147	19	21	8	172,256	28,062	
45 to 47	3	—	83,081	195,687	55	45	10	—	—	61,374	11,230	
48	26	—	133,952	245,726	172	133	6	33	27	127,604	7,410	
54 to 59	4	—	72,870	90,917	33	25	4	4	3	36,943	7,875	
60 and over	2	—	—	—	—	—	—	—	—	—	—	
Unclassified	267	2	3,371,692	6,998,851	7,171	4,772	2,165	234	129	4,070,334	5,544,056	

See footnotes at end of table.

MINERAL INDUSTRIES

TABLE 14.—SELECTED STATISTICS FOR BITUMINOUS-COAL OPERATIONS IN THE UNITED STATES, CLASSIFIED BY NUMBER OF HOURS PER WAGE EARNER IN THE FULL-TIME WORKWEEK AND BY STATE: 1939¹—Concluded

(For producing operations only)

STATE AND HOURS PER WEEK	Number of mines	Number of cleaning plants	Production of coal (tons of 2,000 pounds)	Value of all products	NUMBER OF PERSONS ENGAGED					Wages	Salaries
					Total	Wage earners (average for the year)	Salaried employees	Proprietors and firm members			
								Total	Performing manual labor		
Tennessee, total	123	4	5,185,481	\$10,104,223	7,559	7,081	388	90	64	\$6,580,669	\$731,935
1 to 34	4		16,384	28,029	59	52	2	5	3	25,015	900
35	59	3	3,869,478	7,824,556	5,423	5,154	233	36	29	5,030,906	394,987
40	7		42,566	82,101	124	117	4	3	1	49,297	6,910
41 to 42	4										
43 to 44	1		412,801	789,318	507	486	14	7	4	482,885	36,530
45	1										
46	1										
Unclassified	47	1	844,252	1,580,219	1,446	1,272	135	39	27	992,566	292,608
Texas, total	4	1	16,259	52,470	94	75	16	3	2	34,497	2,853
35	1										
45 to 47	1	1	16,259	52,470	94	75	16	3	2	34,497	2,853
48	1										
Unclassified	1										
Utah, total	51	1	3,284,904	7,025,257	2,618	2,328	260	30	23	3,308,153	645,529
1 to 34	1		(3)	(3)	(3)	(3)		(3)	(3)	(3)	
35	19	1	2,861,780	6,074,795	2,026	1,901	120	5	3	2,775,256	340,751
36 to 39	2		54,658	114,139	59	51		8	6	62,519	
40	4										
41 to 42	5		120,630	259,656	113	103	6	4	4	151,712	24,976
43 to 44	1										
45	7		52,938	114,673	59	52	2	5	4	55,329	3,038
46	7		194,898	461,994	361	321	132	8	6	265,537	274,764
Unclassified	14										
Virginia, total	112	15	13,530,974	24,993,885	15,856	15,065	717	54	34	15,781,303	1,565,086
1 to 34	4		7,704	13,796	20	16		4	3	7,383	
35	71	11	11,340,853	20,982,347	12,839	12,350	470	19	14	12,912,890	872,143
36 to 39	3		10,282	16,409	18	15		3	2	10,515	
40	10		28,275	47,196	78	66		12	5	29,706	
41 to 42	11	1	1,723,654	3,035,496	1,878	1,848	23	7	3	2,273,416	38,416
43 to 44	1										
45	1		22,796	43,231	53	50		3	2	24,553	
46	2										
Unclassified	10	3	397,430	855,410	950	720	224	6	5	522,840	454,527
Washington, total	52	18	1,690,442	5,261,681	2,409	2,219	137	53	42	2,947,264	305,963
1 to 34	1	1	(3)	(3)	(3)	(3)	(3)	(3)		(3)	(3)
35	45	16	1,564,769	4,882,195	2,204	2,063	97	44	35	2,727,198	227,608
41 to 42	1		(3)	(3)	(3)	(3)	(3)	(3)		(3)	(3)
Unclassified	5	1	125,873	399,486	205	156	40	9	7	220,066	478,355
West Virginia, total	721	107	108,361,934	190,668,091	98,342	94,084	3,965	293	205	119,563,909	8,917,376
1 to 34	10		74,008	125,451	139	127	3	9	4	81,601	7,224
35	540	106	105,574,399	182,679,148	95,397	89,833	3,434	130	88	114,837,526	7,516,234
36 to 39	8		585,695	973,142	432	411	14	7	6	502,108	20,857
40	24		226,094	346,971	263	231	11	21	17	187,276	25,650
41 to 42	30	1	1,348,568	2,228,428	1,062	984	52	26	16	1,338,956	132,027
43 to 44	2										
45 to 47	1		110,311	210,183	105	96	6	3	3	113,097	9,285
48	10		20,477	25,056	40	28		14	13	15,165	
49 to 53	1		18,579	39,001	35	31		4	3	8,164	
60 and over	2										
Unclassified	93		2,403,803	4,040,711	2,869	2,345	445	79	55	2,500,216	1,208,099
Wyoming, total	66		5,373,289	11,076,017	4,353	4,074	216	53	45	5,390,056	662,473
1 to 34	1		(3)	(3)	(3)	(3)		(3)	(3)	(3)	
35	36		5,236,751	10,755,991	4,088	3,923	150	15	10	5,208,536	436,925
36 to 39	1		7,271	19,660	18	15		3	3	13,900	
40	2										
41 to 42	15		51,338	128,240	94	71	3	20	19	74,860	2,071
43 to 44	1		50,981	115,359	46	37	2	7	7	59,930	6,035
45	5										
Unclassified	5		426,948	58,767	107	28	71	8	6	32,830	217,442
Arizona, Georgia, Idaho, and Oregon, total	6		39,021	115,683	128	120	2	6	6	85,525	2,715
36 to 39	1		(3)	(3)	(3)	(3)		(3)	(3)	(3)	
40	3		28,105	65,901	99	95	2	2	2	57,471	2,715
Unclassified	2		710,916	749,782	729	725		74	74	726,054	

¹For definition of the industry see footnote 1 to tables 1 and 2. Reports classified by number of hours per wage earner in the full-time workweek represent a single mine or cleaning plant or a single mine and a single cleaning plant reported together. Statistics shown for "Unclassified" represent: Reports on which hours per week were not reported; reports for cleaning plants serving more than one mine and reports for mines served, in cases where hours per week were not the same for the plant and for the mines served; and reports for central offices reported separately from their associated mining operations.

²Includes statistics for 209 central-office employees in Minnesota and New York; these employees were paid \$555,791.

³Included in "Unclassified."

⁴Includes "1 to 34" class interval.

⁵Includes "40," "48," and "60 and over" class intervals.

⁶Includes "48" class interval.

⁷Includes "36 to 39" class interval.

⁸Includes "1 to 34" and "41 to 42" class intervals.

TABLE 15.—SELECTED STATISTICS FOR BITUMINOUS-COAL OPERATIONS IN THE UNITED STATES, CLASSIFIED BY NUMBER OF DAYS ACTIVE DURING THE YEAR: 1939¹

(For producing operations only)

NUMBER OF DAYS ACTIVE DURING THE YEAR	Number of mines	Number of clean- ing plants	Production of coal (tons of 2,000 pounds)	Value of all products	NUMBER OF PERSONS ENGAGED					Wages	Salaries
					Total	Wage earners (average for the year)	Salaried em- ployees	Proprietors and firm members			
								Total	Per- forming manual labor		
United States, total-----	5,686	365	391,728,862	\$727,357,537	393,308	369,156	19,656	4,496	3,270	\$430,427,148	\$44,120,411
Less than 50-----	173	5	1,326,468	2,385,595	2,598	2,148	350	100	60	1,607,141	193,823
50 to 99-----	621	18	9,759,020	18,494,761	14,871	13,515	869	487	348	11,828,247	1,019,538
100 to 149-----	1,264	45	40,962,172	76,530,842	50,869	47,556	2,247	1,066	786	45,214,529	4,015,010
150 to 199-----	1,784	128	140,025,428	262,050,371	147,649	141,023	5,248	1,390	999	159,552,848	11,525,692
200 to 224-----	849	92	107,868,246	202,737,096	97,486	93,397	3,444	655	488	121,123,631	8,288,526
225 to 249-----	454	32	37,045,918	65,250,502	29,769	28,370	972	427	310	36,389,523	2,186,453
250 to 274-----	228	15	23,640,716	42,129,108	16,257	15,445	622	190	140	21,425,645	1,445,388
275 to 299-----	108	4	5,437,681	9,210,221	3,990	3,745	140	105	79	4,753,088	391,281
300 to 324-----	67	1	1,537,359	2,693,481	1,006	885	50	71	55	1,048,277	119,595
325 and over-----	4	-----	78,032	171,299	70	62	6	2	2	90,189	7,492
Unclassified-----	134	25	24,047,822	45,704,261	28,743	23,020	5,710	13	3	28,394,030	14,927,613

¹ For definition of the industry see footnote 1 to tables 1 and 2. Reports classified by number of days active during the year represent a single mine or cleaning plant or a single mine and a single cleaning plant reported together. Statistics shown for "Unclassified" represent: Reports for more than one mine or cleaning plant; reports for cleaning plants serving more than one mine and reports for mines served, in cases where number of days active was not the same for the plant and for the mines served; and reports for central offices reported separately from their associated mining operations.

TABLE 16.—SELECTED STATISTICS FOR BITUMINOUS-COAL OPERATIONS IN THE UNITED STATES, CLASSIFIED BY OUTPUT PER MAN-HOUR
AND BY STATE: 1939¹
(For producing operations only)

STATE AND TONS (2,000 POUNDS) OF COAL PER MAN-HOUR	Number of mines	Number of clean- ing plants	Production of coal (tons of 2,000 pounds)	Value of all products	NUMBER OF PERSONS ENGAGED					Wages	Salaries
					Total	Wage earners (average for the year)	Salaried employees	Proprietors and firm members			
								Total	Performing manual labor		
United States, total-----	5,686	365	391,728,862	\$727,557,537	*393,308	369,156	*19,658	4,496	3,270	\$430,427,148	*\$44,120,411
Less than 0.20-----	240	2	704,091	1,699,966	2,982	2,643	79	280	210	1,348,141	60,251
0.20 to 0.39-----	1,427	31	13,810,162	32,225,006	31,081	28,535	1,080	1,466	1,138	21,804,445	1,390,060
0.40 to 0.59-----	1,340	88	75,167,595	154,179,899	103,953	99,375	3,664	914	617	104,208,736	7,039,867
0.60 to 0.79-----	874	101	123,872,449	234,999,300	129,737	124,770	4,661	306	189	151,984,056	9,960,257
0.80 to 0.99-----	355	44	73,695,237	135,250,584	61,211	58,665	2,435	111	69	79,162,079	5,603,776
1.00 to 1.19-----	142	24	35,478,463	60,297,777	23,875	22,703	1,140	32	15	30,513,313	2,661,901
1.20 to 1.39-----	71	13	15,214,380	25,822,066	8,401	7,959	422	20	10	11,097,182	1,062,295
1.40 to 1.59-----	39	9	7,848,698	12,514,175	3,384	3,136	235	13	1	4,551,596	556,207
1.60 to 1.79-----	42	9	10,781,169	15,991,209	4,804	4,535	257	12	5	5,689,148	715,217
1.80 to 1.99-----	35	2	4,451,091	6,764,960	1,669	1,570	89	10	-----	2,124,381	228,406
2.00 and over-----	82	23	20,223,489	28,104,848	4,668	4,229	412	27	11	6,717,289	1,145,540
Unclassified-----	1,039	19	10,692,038	21,507,767	*17,543	11,036	*5,182	1,325	1,005	11,226,782	*13,696,634
Alabama, total-----	231	52	12,046,675	27,790,156	20,105	19,178	728	199	150	16,834,006	1,564,786
Less than 0.20-----	20	-----	47,986	111,054	237	215	-----	22	17	75,260	-----
0.20 to 0.39-----	64	19	2,555,991	6,654,058	5,798	5,605	151	42	28	4,316,868	264,689
0.40 to 0.59-----	34	23	6,921,512	15,524,548	10,468	10,051	408	9	6	9,458,696	908,437
0.60 to 0.79-----	9	7	1,420,600	2,882,594	1,679	1,614	65	-----	-----	1,522,255	117,760
0.80 to 0.99-----	2	1	-----	-----	-----	-----	-----	-----	-----	-----	-----
1.00 to 1.19-----	1	1	128,261	285,401	107	95	11	1	-----	86,504	20,305
Unclassified-----	101	1	974,345	2,352,501	1,816	1,598	93	125	99	1,374,433	252,595
Arkansas, total-----	78	1	1,152,038	3,655,657	2,801	2,614	145	42	30	2,116,629	248,540
Less than 0.20-----	9	-----	25,470	77,760	109	100	2	7	2	67,392	1,465
0.20 to 0.39-----	33	1	575,717	2,002,806	1,663	1,578	76	9	9	1,252,883	137,302
0.40 to 0.59-----	19	-----	493,242	1,461,313	923	852	62	9	7	729,724	108,687
0.60 to 0.79-----	3	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
0.80 to 0.99-----	1	-----	27,473	45,970	47	40	5	2	-----	23,097	1,086
1.00 to 1.19-----	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Unclassified-----	12	-----	30,136	67,806	59	44	-----	15	12	43,533	-----
Colorado, total-----	211	11	5,923,210	14,952,288	8,294	7,607	507	180	139	8,703,595	1,008,356
Less than 0.20-----	11	-----	17,187	42,887	63	43	1	19	16	30,669	312
0.20 to 0.39-----	52	1	258,577	712,573	637	551	36	50	41	476,533	34,422
0.40 to 0.59-----	77	5	2,611,406	6,756,484	3,996	3,786	143	67	53	4,125,300	294,166
0.60 to 0.79-----	37	3	2,148,298	5,004,778	2,526	2,397	112	17	9	2,956,259	217,469
0.80 to 0.99-----	9	-----	453,571	1,260,305	456	429	26	1	1	561,235	39,030
1.00 to 1.19-----	3	-----	248,375	489,368	173	164	8	1	-----	227,146	16,716
Unclassified-----	22	2	185,817	685,893	443	237	161	25	19	326,453	406,221
Illinois, total-----	546	45	46,782,691	76,863,708	33,907	31,013	2,395	499	376	35,203,157	6,163,819
Less than 0.20-----	18	-----	32,953	83,748	144	117	-----	27	24	65,472	-----
0.20 to 0.39-----	109	-----	972,524	2,372,565	2,160	1,958	93	129	103	1,639,594	120,944
0.40 to 0.59-----	103	4	3,309,329	8,292,328	4,754	4,502	157	95	71	4,087,764	278,758
0.60 to 0.79-----	62	1	2,030,050	3,424,514	2,244	2,085	106	53	32	2,351,597	161,521
0.80 to 0.99-----	50	10	8,631,018	14,536,893	7,619	7,429	368	22	15	8,313,381	888,141
1.00 to 1.19-----	30	10	9,147,938	15,481,785	6,551	6,193	351	7	1	7,495,603	894,036
1.20 to 1.39-----	6	2	2,703,991	4,546,964	1,456	1,365	90	1	1	1,703,419	243,140
1.40 to 1.59-----	4	1	2,337,863	4,141,125	885	829	54	2	-----	1,203,655	191,913
1.60 to 1.79-----	9	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
1.80 to 1.99-----	1	-----	4,161,918	5,628,487	2,012	1,894	117	1	-----	2,232,820	350,530
2.00 and over-----	22	14	10,456,306	14,943,053	2,357	2,153	200	4	-----	3,598,585	566,472
Unclassified-----	132	3	2,999,001	5,612,448	3,425	2,408	859	158	129	2,513,287	2,468,364
Indiana, total-----	266	16	16,942,772	25,175,969	9,318	8,541	549	228	167	10,714,961	1,223,398
Less than 0.20-----	3	-----	4,634	10,145	20	12	-----	8	8	7,066	-----
0.20 to 0.39-----	61	-----	214,389	365,908	453	386	6	61	50	237,288	2,030
0.40 to 0.59-----	46	-----	533,535	891,634	712	652	9	51	38	588,114	4,958
0.60 to 0.79-----	29	-----	542,829	913,291	531	467	39	25	20	552,774	42,488
0.80 to 0.99-----	28	-----	1,600,340	2,910,919	1,399	1,318	66	15	11	1,482,771	116,514
1.00 to 1.19-----	14	1	1,711,328	2,845,181	1,115	1,051	52	12	10	1,288,619	108,611
1.20 to 1.39-----	19	3	2,446,519	3,562,685	1,376	1,312	58	6	1	1,728,869	139,096
1.40 to 1.59-----	11	6	2,388,167	3,550,647	1,021	943	77	1	-----	1,470,540	174,153
1.60 to 1.79-----	8	2	2,548,865	3,574,586	1,103	1,041	59	3	-----	1,402,280	154,112
1.80 to 1.99-----	7	-----	970,089	1,342,068	317	296	18	3	-----	444,346	30,947
2.00 and over-----	16	4	3,853,414	5,001,634	1,016	944	68	4	-----	1,589,131	178,566
Unclassified-----	24	-----	128,863	207,071	255	119	97	39	29	123,183	271,922
Iowa, total-----	271	-----	2,947,557	7,189,337	5,037	4,565	209	285	197	4,404,455	347,924
Less than 0.20-----	20	-----	62,431	173,252	263	245	1	17	17	135,421	1,200
0.20 to 0.39-----	60	-----	494,988	1,308,871	1,203	1,112	42	49	38	869,971	49,328
0.40 to 0.59-----	39	-----	1,207,063	3,176,942	2,068	1,934	104	28	16	2,122,037	188,640
0.60 to 0.79-----	9	-----	296,801	877,816	565	547	11	7	5	444,149	20,782
0.80 to 0.99-----	3	-----	58,016	115,836	50	40	10	-----	-----	43,078	16,887
1.00 to 1.19-----	3	-----	126,662	274,574	79	71	7	1	1	79,533	17,259
1.20 to 1.39-----	2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
1.40 to 1.59-----	4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
1.60 to 1.79-----	1	-----	245,176	428,815	115	99	10	6	1	123,373	10,113
1.80 to 1.99-----	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Unclassified-----	129	-----	458,400	1,035,151	896	717	24	155	119	586,893	45,735

See footnotes at end of table.

BITUMINOUS COAL

257

TABLE 16—SELECTED STATISTICS FOR BITUMINOUS-COAL OPERATIONS IN THE UNITED STATES, CLASSIFIED BY OUTPUT PER MAN-HOUR
AND BY STATE: 1939¹—Continued
(For producing operations only)

STATE AND TONS (2,000 POUNDS) OF COAL PER MAN-HOUR	Number of mines	Number of clean- ing plants	Production of coal (tons of 2,000 pounds)	Value of all products	NUMBER OF PERSONS ENGAGED					Wages	Salaries
					Total	Wage earners (average for the year)	Salaried employees	Proprietors and firm members			
								Total	Performing manual labor		
Kansas, total-----	93	6	2,674,691	\$5,057,992	2,597	2,376	124	97	84	\$1,932,167	\$235,244
Less than 0.20-----	13	-----	40,891	116,291	161	145	-----	16	13	85,437	-----
0.20 to 0.39-----	28	-----	125,924	299,934	325	284	8	33	33	195,121	2,284
0.40 to 0.59-----	17	-----	451,940	948,130	813	780	16	15	14	594,534	20,959
0.60 to 0.79-----	2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
0.80 to 0.99-----	2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
1.00 to 1.19-----	1	-----	302,936	620,354	139	122	9	8	5	206,043	10,724
1.40 to 1.59-----	2	1	-----	-----	-----	-----	-----	-----	-----	-----	-----
1.60 to 1.79-----	7	4	988,117	1,784,363	383	362	21	-----	-----	485,316	51,776
1.80 to 1.99-----	1	-----	627,978	1,028,003	201	188	13	-----	-----	237,689	43,071
2.00 and over-----	2	1	-----	-----	-----	-----	-----	-----	-----	-----	-----
Unclassified-----	18	-----	126,905	260,917	575	495	55	25	19	128,027	106,430
Kentucky, total-----	478	12	42,556,568	74,163,830	49,072	46,826	2,000	246	170	48,674,395	3,819,406
Less than 0.20-----	26	-----	84,826	151,416	390	357	10	23	13	130,996	5,962
0.20 to 0.39-----	88	-----	1,600,349	2,758,502	3,241	3,077	87	77	56	1,955,389	123,699
0.40 to 0.59-----	115	4	14,718,591	27,660,370	18,120	17,464	630	26	14	19,320,713	1,217,876
0.60 to 0.79-----	109	4	15,006,342	26,247,730	17,196	16,449	731	16	11	18,975,434	1,451,459
0.80 to 0.99-----	35	3	8,540,049	13,757,600	7,484	7,188	291	5	2	8,259,612	623,216
1.00 to 1.19-----	15	1	1,965,897	2,776,991	1,749	1,638	110	1	-----	1,576,332	149,294
1.20 to 1.39-----	2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
1.40 to 1.59-----	2	-----	413,193	493,823	261	247	12	2	-----	218,744	35,500
1.60 to 1.79-----	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
1.80 to 1.99-----	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Unclassified-----	85	-----	227,321	317,398	631	406	129	96	74	237,175	207,400
Maryland, total-----	83	1	1,442,728	2,977,753	2,318	2,100	134	84	60	2,072,889	219,777
Less than 0.20-----	1	-----	154,635	310,972	375	327	23	25	14	228,633	21,475
0.20 to 0.39-----	21	-----	882,199	1,630,818	1,412	1,328	74	10	5	1,313,085	105,492
0.40 to 0.59-----	24	1	294,493	620,550	506	298	8	-----	-----	386,836	12,001
0.60 to 0.79-----	4	-----	111,401	215,413	225	147	29	49	41	144,535	80,809
Unclassified-----	33	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Michigan, total-----	11	3	456,754	1,723,104	882	802	79	1	-----	1,065,158	245,084
0.20 to 0.39-----	9	1	-----	-----	-----	-----	-----	-----	-----	-----	-----
0.40 to 0.59-----	2	2	456,754	1,723,104	849	802	46	1	-----	1,065,158	100,680
Unclassified-----	-----	-----	-----	-----	33	-----	33	-----	-----	-----	144,414
Missouri, total-----	180	10	3,273,550	6,138,612	3,661	3,275	212	174	133	2,631,109	491,704
Less than 0.20-----	29	-----	149,118	382,881	570	528	19	25	25	279,244	21,836
0.20 to 0.39-----	69	2	750,658	1,684,318	1,614	1,709	49	58	42	1,142,986	68,538
0.40 to 0.59-----	17	-----	76,357	134,630	130	99	11	20	14	85,666	9,268
0.60 to 0.79-----	9	-----	94,720	183,053	95	77	5	13	6	66,678	6,011
0.80 to 0.99-----	5	1	69,536	118,965	65	56	6	3	2	65,860	9,753
1.00 to 1.19-----	3	1	134,803	222,428	106	96	10	-----	-----	92,333	31,831
1.20 to 1.39-----	3	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
1.40 to 1.59-----	1	1	379,951	700,247	173	160	11	2	2	224,555	48,771
1.60 to 1.79-----	4	-----	1,501,222	2,480,428	562	332	30	-----	-----	538,475	94,965
2.00 and over-----	1	-----	116,185	251,662	346	220	71	55	42	155,312	200,931
Unclassified-----	40	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Montana, total-----	59	2	2,756,036	4,018,519	1,331	1,193	69	69	59	1,607,305	185,690
Less than 0.20-----	5	-----	7,518	35,813	33	27	-----	6	6	25,999	-----
0.20 to 0.39-----	22	-----	48,324	146,438	124	92	-----	32	26	96,645	-----
0.40 to 0.59-----	16	1	68,116	185,696	115	93	2	20	17	118,224	1,525
0.60 to 0.79-----	7	-----	75,456	172,901	95	83	5	7	5	101,937	15,344
0.80 to 0.99-----	3	-----	254,614	575,732	271	252	18	1	1	255,828	42,200
1.20 to 1.39-----	3	1	1,137,102	1,680,925	615	592	23	-----	-----	915,936	66,265
1.40 to 1.59-----	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2.00 and over-----	2	-----	1,164,906	1,221,014	78	54	21	3	2	90,744	57,356
Unclassified-----	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
New Mexico, total-----	42	1	1,250,060	3,579,049	2,387	2,193	160	34	27	2,082,673	395,013
Less than 0.20-----	5	-----	11,851	34,596	55	49	-----	6	5	29,445	-----
0.20 to 0.39-----	20	-----	191,514	534,241	483	447	15	21	16	366,154	26,415
0.40 to 0.59-----	7	-----	480,644	1,466,932	968	906	62	-----	-----	912,992	135,580
0.60 to 0.79-----	3	1	522,220	1,482,034	799	753	46	-----	-----	737,048	114,431
0.80 to 0.99-----	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Unclassified-----	6	-----	23,831	61,246	82	38	37	7	6	37,054	120,607
Ohio, total-----	656	7	20,289,553	33,342,461	19,113	17,385	1,016	710	542	20,476,278	2,163,486
Less than 0.20-----	15	-----	29,905	65,559	115	93	-----	22	18	44,707	-----
0.20 to 0.39-----	184	-----	694,973	1,405,834	1,487	1,181	52	254	222	947,820	30,160
0.40 to 0.59-----	133	2	4,198,256	7,419,535	8,900	5,828	151	121	94	5,473,004	237,380
0.60 to 0.79-----	62	1	6,107,425	10,525,838	6,285	6,067	180	38	27	7,377,597	300,380
0.80 to 0.99-----	24	1	1,897,112	2,973,238	1,317	1,246	55	16	11	1,770,759	122,543
1.00 to 1.19-----	6	1	2,568,556	3,830,076	1,342	1,296	45	1	1	2,129,016	100,660
1.20 to 1.39-----	7	-----	800,359	1,301,889	402	375	23	4	1	703,856	77,898
1.40 to 1.59-----	5	-----	292,664	421,185	87	74	11	2	-----	149,159	20,354
1.60 to 1.79-----	5	-----	317,297	461,908	117	105	7	5	2	167,672	13,079
1.80 to 1.99-----	14	-----	417,051	540,837	122	115	6	1	-----	200,906	14,123
2.00 and over-----	22	-----	2,271,155	3,065,174	569	509	55	5	4	766,637	181,859
Unclassified-----	179	2	694,800	1,331,388	1,370	696	433	241	162	724,945	1,054,470
Oklahoma, total-----	88	-----	1,187,562	2,504,489	1,585	1,409	113	63	44	1,222,458	171,106
Less than 0.20-----	5	-----	8,532	27,464	35	34	-----	1	1	19,751	-----
0.20 to 0.39-----	45	-----	279,251	728,283	701	622	44	35	27	478,575	44,301
0.40 to 0.59-----	25	-----	194,941	490,806	406	362	35	9	4	270,524	32,055
0.60 to 0.79-----	7	-----	191,185	349,619	194	170	18	6	3	173,959	31,558
0.80 to 0.99-----	4	-----	150,381	276,472	102	94	6	2	2	110,758	24,909
1.00 to 1.19-----	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
1.20 to 1.39-----	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
1.40 to 1.59-----	1	-----	563,272	631,645	147	127	10	10	7	168,911	38,283
Unclassified-----	4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

See footnotes at end of table.

TABLE 16.—SELECTED STATISTICS FOR BITUMINOUS-COAL OPERATIONS IN THE UNITED STATES, CLASSIFIED BY OUTPUT PER MAN-HOUR
AND BY STATE: 1939¹—Concluded
(For producing operations only)

STATE AND TONS (2,000 POUNDS) OF COAL PER MAN-HOUR	Number of mines	Number of clean- ing plants	Production of coal (tons of 2,000 pounds)	Value of all products	NUMBER OF PERSONS ENGAGED					Wages	Salaries
					Total	Wage earners (average for the year)	Salaried employees	Proprietors and firm members			
								Total	Performing manual labor		
Pennsylvania, total	1,258	52	92,584,113	\$188,925,306	99,352	93,033	5,294	1,025	671	\$116,996,537	\$12,449,387
Less than 0.20	25	1	69,958	148,473	280	244	9	27	18	122,665	6,015
0.20 to 0.39	347	1	2,864,190	6,177,149	6,027	5,444	208	375	261	4,270,068	205,591
0.40 to 0.59	402	16	20,198,502	42,376,575	27,987	26,812	874	301	184	29,288,387	1,657,805
0.60 to 0.79	224	20	37,487,993	74,552,843	38,871	37,430	1,366	75	41	48,394,291	3,212,683
0.80 to 0.99	61	3	22,308,842	46,810,468	17,599	16,813	564	22	13	26,205,578	1,443,153
1.00 to 1.19	17	1	3,022,524	6,364,984	2,010	1,911	92	7	2	2,918,879	220,828
1.20 to 1.39	10	1	1,416,551	2,542,684	693	654	34	5	3	945,933	75,700
1.40 to 1.59	6	1	117,089	192,450	50	38	7	5	1	61,237	9,162
1.60 to 1.79	6	1	564,311	873,163	169	153	13	3	5	227,519	29,922
1.80 to 1.99	4	1	177,143	270,877	61	49	10	2	7	69,348	11,533
2.00 and over	13	1	477,208	572,549	141	101	26	14	7	136,685	31,184
Unclassified	143	10	3,900,002	8,043,491	5,664	3,384	2,091	189	138	4,357,947	5,545,691
Tennessee, total	123	4	5,185,481	10,104,223	7,559	7,081	388	90	64	6,580,669	731,935
Less than 0.20	10	1	16,837	36,258	87	74	1	12	11	24,797	336
0.20 to 0.39	37	2	316,533	602,351	827	760	43	24	17	398,590	41,838
0.40 to 0.59	39	2	3,418,929	6,780,637	4,892	4,645	219	18	8	4,508,671	378,620
0.60 to 0.79	8	1	1,123,107	2,210,215	1,382	1,315	66	1	—	1,406,084	120,084
0.80 to 0.99	2	1	310,275	474,762	381	287	59	35	28	242,527	191,077
Unclassified	27	1	—	—	—	—	—	—	—	—	—
Texas, total	4	1	16,259	52,470	94	75	16	3	2	34,497	2,853
Less than 0.20	2	1	—	—	—	—	—	—	—	—	—
0.20 to 0.39	1	1	16,259	52,470	94	75	16	3	2	34,497	2,853
Unclassified	1	—	—	—	—	—	—	—	—	—	—
Utah, total	51	1	3,284,904	7,025,257	2,618	2,328	280	30	23	3,308,153	643,529
0.20 to 0.39	9	—	28,812	63,365	65	56	2	7	5	40,930	1,365
0.40 to 0.59	9	—	59,653	123,359	75	61	4	10	7	61,787	6,097
0.60 to 0.79	16	—	953,952	2,030,418	892	850	36	6	6	1,242,561	93,755
0.80 to 0.99	6	—	273,640	670,912	277	267	9	1	—	365,948	19,096
1.00 to 1.19	3	—	1,095,487	2,208,575	702	653	49	—	—	911,655	172,385
1.20 to 1.39	1	1	—	—	—	—	—	—	—	—	—
1.40 to 1.59	1	1	675,360	1,688,628	607	441	160	6	5	685,294	350,831
Unclassified	6	—	—	—	—	—	—	—	—	—	—
Virginia, total	112	15	13,530,974	24,993,885	15,836	15,065	717	54	34	15,781,303	1,365,086
Less than 0.20	9	—	23,973	52,327	119	111	3	5	2	39,365	1,157
0.20 to 0.39	27	3	598,372	1,300,907	1,264	1,189	45	30	19	955,550	87,644
0.40 to 0.59	31	5	2,715,931	5,414,657	3,957	3,788	160	9	5	3,693,457	281,007
0.60 to 0.79	27	6	6,837,863	12,184,273	7,563	7,322	239	2	1	7,979,423	441,140
0.80 to 0.99	9	2	2,456,685	4,540,266	2,168	2,100	68	—	—	2,441,043	144,746
1.00 to 1.19	2	1	882,030	1,465,448	544	529	15	—	—	650,741	30,857
1.20 to 1.39	1	—	16,120	36,007	221	26	187	8	7	21,724	398,535
Unclassified	6	—	—	—	—	—	—	—	—	—	—
Washington, total	52	18	1,690,442	5,261,681	2,409	2,219	137	53	42	2,947,264	305,963
0.20 to 0.39	21	3	92,452	317,854	238	202	6	30	28	255,120	11,175
0.40 to 0.59	18	8	838,555	2,142,875	928	869	45	14	8	1,166,050	105,697
0.60 to 0.79	9	6	915,680	2,694,004	1,155	1,101	49	5	4	1,469,945	117,366
0.80 to 0.99	1	1	43,755	106,968	88	47	37	4	4	56,149	71,525
Unclassified	3	—	—	—	—	—	—	—	—	—	—
West Virginia, total	721	107	108,361,934	190,668,091	98,342	94,084	3,965	293	205	119,563,909	8,917,576
Less than 0.20	13	1	61,592	122,155	235	205	20	10	8	144,739	21,551
0.20 to 0.39	103	—	664,509	1,330,203	1,525	1,352	68	105	83	942,704	68,108
0.40 to 0.59	153	17	11,524,852	21,715,036	14,576	14,050	460	66	40	15,416,254	1,012,144
0.60 to 0.79	230	51	46,937,886	87,121,095	46,840	45,280	1,536	24	11	57,000,846	3,380,493
0.80 to 0.99	99	22	24,758,296	42,046,772	20,516	19,614	887	15	7	26,924,062	1,938,285
1.00 to 1.19	39	7	13,272,334	21,672,912	8,595	8,234	360	1	—	11,985,881	790,860
1.20 to 1.39	14	4	5,284,605	7,768,743	3,065	2,912	152	1	1	4,072,302	338,946
1.40 to 1.59	4	1	1,804,851	2,472,052	792	738	54	—	—	1,053,482	90,295
1.60 to 1.79	3	2	1,768,158	2,849,251	772	740	32	—	—	913,402	94,588
1.80 to 1.99	2	2	1,810,116	2,930,069	717	682	35	—	—	868,330	94,009
2.00 and over	1	—	—	—	—	—	—	—	—	—	—
Unclassified	60	—	494,735	639,803	709	277	361	71	55	243,907	1,092,297
Wyoming, total	66	—	5,375,289	11,078,017	4,353	4,074	226	53	45	5,390,056	662,475
Less than 0.20	2	—	37,108	101,969	95	72	—	23	22	59,895	—
0.20 to 0.39	15	—	255,843	625,134	372	345	11	16	12	436,555	20,857
0.40 to 0.59	15	—	801,856	1,982,641	817	771	41	5	5	970,972	111,542
0.60 to 0.79	8	—	1,795,367	3,718,482	1,432	1,368	41	3	1	1,946,035	135,372
0.80 to 0.99	10	—	1,370,773	2,788,449	941	900	41	—	—	1,217,454	127,184
1.00 to 1.19	4	—	614,458	1,097,415	372	362	10	—	—	479,918	27,153
1.20 to 1.39	2	—	—	—	—	—	—	—	—	—	—
1.40 to 1.59	2	—	435,884	645,274	206	199	7	—	—	220,911	20,489
1.60 to 1.79	3	—	62,000	140,673	118	37	75	6	5	58,316	221,876
Unclassified	4	—	—	—	—	—	—	—	—	—	—
Arizona, Georgia, Idaho, and Oregon, total	6	—	39,021	115,683	128	120	2	6	6	85,525	2,715
Less than 0.20	1	—	—	—	—	—	—	—	—	—	—
0.20 to 0.39	2	—	6,748	18,420	21	17	—	4	4	11,908	—
0.40 to 0.59	1	—	32,273	97,283	107	103	2	2	2	71,617	2,715
Unclassified	2	—	—	—	—	—	—	—	—	—	—

¹For definition of the industry see footnote 1 to tables 1 and 2. Reports classified by tons of coal produced per man-hour represent a single mine or cleaning plant or a single mine and a single cleaning plant reported together. Statistics shown for "Unclassified" represent: Reports for more than one mine or cleaning plant; reports on which working time was not adequately reported; reports for cleaning plants serving more than one mine and reports for mines served, in cases where separate figures for man-hours or quantity could not be obtained for the plant and for each of the mines it served; and reports for central offices reported separately from their associated mining operations.

²Includes statistics for 209 central-office employees in Minnesota and New York; these employees were paid \$555,791.

BITUMINOUS COAL

259

TABLE 17.—QUANTITY OF FUELS AND ELECTRIC ENERGY CONSUMED IN THE BITUMINOUS-COAL INDUSTRY IN THE UNITED STATES, BY KIND
AND BY STATE: 1939¹
(For producing operations only)

STATE	Bituminous coal (tons of 2,000 pounds) ²	Fuel oils (barrels of 42 gallons)	Gasoline and kerosene (gallons)	Natural gas (thousands of cubic feet)	ELECTRIC ENERGY CONSUMED (THOUSANDS OF KILOWATT-HOURS)		
					Total	Purchased	Generated by reporting companies
United States-----	2,548,074	164,015	6,329,547	69,972	2,564,012	1,947,865	616,149
Alabama-----	72,707	3,044	95,195	-----	158,910	66,562	92,348
Arkansas-----	7,548	1,000	27,572	956	9,351	9,351	-----
Colorado-----	147,288	844	90,006	-----	32,946	24,179	8,767
Illinois-----	723,853	17,621	977,962	-----	269,980	191,590	78,390
Indiana-----	153,217	18,746	1,246,414	-----	80,063	70,087	9,976
Iowa-----	11,649	8,023	563,206	-----	18,014	17,603	411
Kansas-----	13,576	609	95,181	-----	20,296	20,268	28
Kentucky-----	164,342	3,219	82,235	21,877	195,111	170,043	25,068
Maryland-----	15,336	1,367	35,949	698	8,506	3,177	5,329
Michigan-----	26,717	-----	15,583	-----	3,347	1,040	2,307
Missouri-----	31,049	2,780	321,692	-----	19,634	18,900	734
Montana-----	4,370	1,273	24,672	-----	88,000	87,614	186
New Mexico-----	36,628	1,312	19,320	-----	12,114	5,307	6,807
Ohio-----	98,256	52,997	1,256,643	6,255	89,020	69,005	20,015
Oklahoma-----	13,400	1,515	114,991	-----	6,234	6,234	-----
Pennsylvania-----	490,816	32,470	1,080,149	26,904	734,998	523,461	211,537
Tennessee-----	34,643	1,315	20,391	-----	22,204	21,144	1,060
Texas-----	463	46	2,749	-----	65	50	15
Utah-----	7,262	213	21,904	-----	24,028	23,964	64
Virginia-----	25,282	38	22,615	-----	58,653	56,152	2,501
Washington-----	15,911	305	35,699	-----	18,773	18,757	16
West Virginia-----	354,283	13,665	159,798	13,282	651,786	531,139	120,647
Wyoming-----	98,922	1,549	16,577	-----	41,959	12,016	29,943
Arizona, Georgia, Idaho, and Oregon-----	376	74	3,044	-----	20	20	-----

¹For definition of the industry see footnote 1 to tables 1 and 2. No anthracite was reported consumed by the industry. The figures for fuel oils, gasoline and kerosene, and electric energy consumed include estimates for mines producing less than 50 tons daily canvassed by an abbreviated questionnaire that did not request statistics for quantities of fuels consumed. The quantity of the estimated fuel oils amounts to 22,163 barrels, or 13.6 percent of the United States total; the quantity of the estimated gasoline and kerosene amounts to 837,309 gallons, or 13.3 percent of the United States total; the quantity of the estimated purchased electric energy amounts to 12,408 thousand kilowatt-hours, or 0.6 percent of the United States total; the quantity of the estimated energy generated by reporting companies amounts to 3,094 thousand kilowatt-hours, or 0.5 percent of the United States total. Estimates of quantities of fuel oils and gasoline and kerosene are based on the reported cost of mine fuel consumed by mines canvassed by the abbreviated questionnaire and the reported quantities and cost of mine fuel consumed by mines canvassed by the detailed questionnaire. Estimates of quantity of purchased energy are based on the reported cost of such energy consumed by mines canvassed by the abbreviated questionnaire and the reported cost and kilowatt-hours of purchased energy consumed by mines canvassed by the detailed questionnaire. Estimates of the quantity of energy generated by reporting companies are based on the reported horsepower ratings of electric motors driven by such energy at mines canvassed by the abbreviated questionnaire and the ratios of reported company-generated energy to reported horsepower ratings of motors driven by such mines (without cleaning plants) canvassed by the detailed questionnaire.

²Figures for bituminous coal consumed in Maryland, Ohio, Pennsylvania, and West Virginia are not identical with figures for bituminous coal "Used at mines for power and heat" (shown in table 5) for the same States. Differences are accounted for by apportionment of coal consumed at central-power plants to mines served in States other than those in which the coal was produced.

MINERAL INDUSTRIES

TABLE 18.—NUMBER AND HORSEPOWER RATING OF PRIME MOVERS AND ELECTRIC MOTORS IN THE BITUMINOUS-COAL INDUSTRY
IN THE UNITED STATES, BY TYPE OF OPERATION AND BY STATE: 1939¹
(For producing operations only)

TYPE OF OPERATION, STATE, AND TYPE OF EQUIPMENT	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY										ELECTRIC MOTORS DRIVEN BY ENERGY GENERATED BY REPORTING COMPANIES		
	Aggregate horse- power	Prime movers								Electric motors driven by purchased energy			
		Total		Driving generators		Not driving generators		Ordinarily idle (included in preceding columns)					
		Number	Horse- power	Number	Horse- power	Number	Horse- power	Number	Horse- power	Number	Horse- power	Number	Horse- power
UNITED STATES, TOTAL-----	3,326,209	5,517	902,545	910	448,760	4,607	453,785	243	92,945	78,926	2,423,664	21,323	620,987
Stationary-----	1,819,384	3,788	696,421	836	441,102	2,952	255,319	208	90,212	48,219	1,122,963	12,511	281,286
Mobile-----	1,506,825	1,729	206,124	74	7,658	1,655	198,466	35	2,733	30,707	1,300,701	8,812	339,701
TYPE OF OPERATION													
Mines only, total-----	2,171,597	4,919	608,337	763	299,436	4,156	308,901	172	58,212	52,075	1,565,060	11,992	366,565
Stationary-----	1,169,851	3,529	509,334	708	294,200	2,821	215,134	147	56,232	30,584	660,497	6,396	138,188
Mobile-----	1,001,566	1,390	97,003	55	5,236	1,335	91,767	25	1,980	21,491	904,563	5,596	228,377
Underground mines, total-----	2,020,790	3,598	513,342	729	293,757	2,859	219,585	150	56,711	50,298	1,507,448	11,854	363,042
Stationary-----	1,137,844	3,374	500,604	685	290,149	2,689	210,455	143	55,714	29,470	637,240	6,298	136,550
Mobile-----	882,946	214	12,738	44	3,608	170	9,130	7	997	20,828	870,208	5,556	226,492
Strip pits, total-----	140,385	1,248	86,712	28	4,837	1,220	81,675	18	930	1,653	53,673	124	3,138
Stationary-----	27,814	141	6,900	18	3,244	123	3,656	1	3	1,019	20,914	92	1,578
Mobile-----	112,571	1,107	79,812	10	1,593	1,097	78,219	17	927	634	32,759	32	1,560
Combination mines, total-----	10,222	83	6,283	6	842	77	5,441	4	571	124	3,939	14	385
Stationary-----	4,173	14	1,830	5	807	9	1,023	3	515	95	2,343	6	60
Mobile-----	6,049	69	4,453	1	35	68	4,418	1	56	29	1,596	8	325
Mines and cleaning plants operated together, total-----	1,059,281	593	217,743	147	149,324	446	68,419	71	34,733	25,821	841,538	9,065	247,713
Stationary-----	532,537	239	187,087	128	146,902	131	40,185	61	33,980	16,513	445,550	5,849	136,389
Mobile-----	426,644	354	30,656	19	2,422	315	28,234	10	753	9,308	395,988	3,216	111,324
Underground mines, total-----	917,618	327	190,295	123	144,219	204	46,076	66	34,297	22,708	727,323	8,993	246,248
Stationary-----	573,636	243	182,904	119	143,199	124	39,705	59	33,980	14,427	590,732	5,823	135,954
Mobile-----	343,982	84	7,391	4	1,020	80	6,371	7	617	8,281	336,591	3,170	110,294
Strip pits, total-----	138,771	238	25,563	22	4,805	216	20,768	3	136	3,074	113,208	72	1,465
Stationary-----	58,119	14	3,833	7	3,403	7	480	-----	-----	2,155	54,238	26	435
Mobile-----	80,652	224	21,680	15	1,402	209	20,278	3	136	919	58,972	46	1,030
Combination mines, total-----	2,892	28	1,885	2	300	26	1,585	2	300	39	1,007	-----	-----
Stationary-----	882	2	300	2	300	-----	-----	2	300	31	582	-----	-----
Mobile-----	2,010	26	1,585	-----	-----	26	1,585	-----	-----	8	425	-----	-----
Central cleaning plants only, total-----	95,531	5	78,465	-----	-----	5	78,465	-----	-----	1,030	17,066	266	6,709
Stationary-----	16,916	-----	-----	-----	-----	-----	-----	-----	-----	1,022	16,916	266	6,709
Mobile-----	78,615	5	78,465	-----	-----	5	78,465	-----	-----	8	150	-----	-----
STATE													
Alabama, total-----	150,302	173	29,610	17	17,994	156	11,616	27	5,340	2,710	120,692	2,215	78,252
Stationary-----	119,485	148	28,386	17	17,994	131	10,392	27	5,340	1,857	91,099	1,010	47,600
Mobile-----	30,817	25	1,224	-----	-----	25	1,224	-----	-----	853	29,593	1,205	30,652
Arkansas, total-----	25,214	65	7,378	1	125	64	7,253	1	125	918	17,836	-----	-----
Stationary-----	17,033	55	6,542	1	125	54	6,417	1	125	593	10,491	-----	-----
Mobile-----	8,181	10	836	-----	-----	10	836	-----	-----	325	7,345	-----	-----
Colorado, total-----	83,924	229	31,301	57	21,205	172	10,096	16	2,935	1,853	52,623	708	18,057
Stationary-----	64,876	214	50,109	57	21,205	157	8,904	12	2,615	1,323	34,787	432	7,997
Mobile-----	19,048	15	1,192	-----	-----	15	1,192	-----	-----	530	17,856	276	10,060
Illinois, total-----	510,943	1,024	238,143	219	76,877	805	161,268	39	8,504	8,869	272,800	2,824	77,064
Stationary-----	265,852	753	134,930	189	73,408	564	61,522	38	8,354	5,405	130,922	1,498	26,303
Mobile-----	245,091	271	103,213	30	3,469	241	99,744	1	150	3,464	141,878	1,326	50,761
Indiana, total-----	142,632	553	57,136	54	17,622	499	39,514	14	2,078	2,586	85,496	761	16,405
Stationary-----	67,926	275	32,459	53	17,582	222	15,057	8	1,578	1,491	35,487	528	9,841
Mobile-----	74,706	278	24,697	1	240	277	24,457	6	500	1,095	50,009	233	6,764
Iowa, total-----	28,583	267	12,266	10	1,150	257	11,116	1	100	673	16,317	44	841
Stationary-----	18,279	188	6,717	9	900	179	5,817	1	100	499	9,562	37	386
Mobile-----	12,304	79	5,549	1	250	78	5,299	-----	-----	174	6,755	7	455
Kansas, total-----	22,795	151	8,486	1	100	150	8,386	1	60	643	14,309	1	32
Stationary-----	11,105	66	3,772	1	100	65	3,672	-----	-----	407	7,333	-----	-----
Mobile-----	11,690	85	4,714	-----	-----	85	4,714	1	60	236	6,976	1	32
Kentucky, total-----	258,717	301	57,524	74	24,676	227	12,648	7	2,538	8,366	221,393	1,271	33,112
Stationary-----	115,705	272	35,378	66	24,311	206	11,087	7	2,538	5,020	80,327	766	12,330
Mobile-----	143,012	29	1,946	8	365	21	1,561	-----	-----	3,346	141,066	505	20,782

¹For definition of the industry see footnote 1 to tables 1 and 2.

TABLE 18.—NUMBER AND HORSEPOWER RATING OF PRIME MOVERS AND ELECTRIC MOTORS IN THE BITUMINOUS-COAL INDUSTRY
IN THE UNITED STATES, BY TYPE OF OPERATION AND BY STATE: 1939¹—Continued
(For producing operations only)

TYPE OF OPERATION, STATE, AND TYPE OF EQUIPMENT	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY											ELECTRIC MOTORS DRIVEN BY ENERGY GENERATED BY REPORTING COMPANIES	
	Aggregate horse- power	Prime movers								Electric motors driven by purchased energy			
		Total		Driving generators		Not driving generators		Ordinarily idle (included in preceding columns)					
Number	Horse- power	Number	Horse- power	Number	Horse- power	Number	Horse- power	Number	Horse- power	Number	Horse- power		
Maryland, total-----	11,721	49	4,483	11	1,845	38	2,638	2	306	368	7,238	140	4,745
Stationary-----	7,731	46	4,305	11	1,845	35	2,460	2	306	268	3,428	72	1,568
Mobile-----	3,990	3	178			3	178			120	3,812	68	3,177
Michigan, total-----	6,940	23	5,898	15	4,793	8	1,105	2	993	71	1,042	140	3,124
Stationary-----	6,605	23	5,898	15	4,793	8	1,105	2	993	64	707	90	1,362
Mobile-----	335									7	335	50	1,762
Missouri, total-----	37,337	297	15,934	19	2,170	278	13,764	6	389	870	21,403	63	1,723
Stationary-----	20,159	151	7,510	17	2,090	134	5,420	3	253	684	12,649	28	580
Mobile-----	17,178	146	8,424	2	80	144	8,344	3	136	186	8,754	35	1,143
Montana, total-----	23,539	73	2,732	4	885	69	1,847	3	75	703	20,807	17	988
Stationary-----	8,628	54	1,234	1	60	53	1,174			383	7,394		
Mobile-----	14,911	19	1,498	3	825	16	673	3	75	320	13,413	17	988
New Mexico, total-----	21,352	41	11,475	10	7,593	31	3,882	2	1,125	362	9,877	140	6,804
Stationary-----	16,245	35	11,373	10	7,593	25	3,780	2	1,125	278	4,872	114	5,374
Mobile-----	5,107	6	102			6	102			84	5,005	26	1,230
Ohio, total-----	160,675	656	53,941	100	13,867	556	40,074	5	610	2,621	78,734	728	20,786
Stationary-----	64,082	409	36,004	99	13,832	310	22,172	5	610	1,446	28,078	379	4,943
Mobile-----	96,593	247	17,937	1	35	246	17,902			1,175	48,656	349	15,843
Oklahoma, total-----	20,474	89	7,476	1	225	88	7,251	9	612	666	12,998		
Stationary-----	10,092	49	4,406	1	225	48	4,181	5	445	378	5,686		
Mobile-----	10,382	40	3,070			40	3,070	4	167	288	7,312		
Pennsylvania, total-----	829,350	656	208,986	175	140,033	681	66,953	46	29,234	19,363	622,364	7,736	209,195
Stationary-----	492,137	525	185,573	151	138,522	374	47,051	40	28,953	12,042	308,564	5,166	100,002
Mobile-----	337,213	331	21,413	24	1,511	307	19,902	6	281	7,321	315,800	2,570	109,193
Tennessee, total-----	46,268	80	12,353	7	2,608	73	9,745	2	600	1,358	33,915	136	3,380
Stationary-----	28,339	73	12,063	7	2,608	66	9,475	2	600	888	16,256	100	1,542
Mobile-----	17,929	7	270			7	270			450	17,659	36	2,038
Texas, total-----	1,288	9	1,218	1	240	8	978	3	330	8	70		
Stationary-----	1,243	8	1,173	1	240	7	953	2	285	8	70		
Mobile-----	45	1	45			1	45	1	45				
Utah, total-----	40,190	38	2,646	2	163	36	2,483			1,137	37,544	3	72
Stationary-----	21,007	22	1,786	2	163	20	1,623			779	19,221		
Mobile-----	19,183	16	860			16	860			358	18,323	3	72
Virginia, total-----	83,240	46	6,167	6	3,070	40	3,097	1	200	2,700	77,073	89	4,270
Stationary-----	81,802	46	6,167	6	3,070	40	3,097	1	200	1,725	25,635	55	1,710
Mobile-----	61,438									975	51,438	34	2,560
Washington, total-----	34,333	37	6,523	1	125	36	6,398	1	150	959	27,810		
Stationary-----	29,211	27	5,744	1	125	26	5,619	1	150	780	23,467		
Mobile-----	5,122	10	779			10	779			179	4,343		
West Virginia, total-----	764,029	380	117,643	105	87,877	275	29,766	52	32,366	20,135	646,386	3,308	109,537
Stationary-----	365,646	287	110,139	101	86,994	186	23,145	47	31,392	11,398	255,507	1,893	42,634
Mobile-----	398,383	93	7,504	4	883	89	6,621	5	974	8,737	390,879	1,415	66,703
Wyoming, total-----	52,237	76	25,310	20	23,517	56	1,793	2	4,250	986	26,927	999	32,800
Stationary-----	38,148	60	24,713	20	23,517	40	1,196	2	4,250	502	13,433	343	17,314
Mobile-----	14,091	16	597			16	597			484	13,494	656	15,486
Arizona and Georgia, total-----	126	4	116			4	116	1	25	1	10		
Stationary-----	50	2	40			2	40			1	10		
Mobile-----	76	2	76			2	76	1	25				

¹ For definition of the industry see footnote 1 to tables 1 and 2.

TABLE 19.—BITUMINOUS COAL MINED IN THE UNITED STATES, BY MINING METHOD AND BY STATE: 1939¹

STATE	Production of coal, total (tons of 2,000 pounds)	FROM UNDERGROUND MINES						FROM STRIP PITS		
		Total (tons of 2,000 pounds)	Mined by hand		Shot off the solid		Cut by machines		Tons of 2,000 pounds	Percent of total
			Tons of 2,000 pounds	Percent of underground total	Tons of 2,000 pounds	Percent of underground total	Tons of 2,000 pounds	Percent of underground total		
United States-----	391,728,662	355,425,926	26,077,729	7.3	15,896,245	4.5	313,451,952	88.2	56,502,936	9.3
Alabama-----	12,046,675	11,985,064	414,741	3.5	3,007,764	25.1	8,562,559	71.4	61,611	0.5
Arkansas-----	1,152,038	1,126,584			122,555	10.9	1,004,029	89.1	25,454	2.2
Colorado-----	5,923,210	(2)	(2)	(2)	299,543	(2)	4,198,346	(2)	(2)	(2)
Illinois-----	46,792,691	34,594,155	542,554	1.6	2,187,568	6.3	31,964,233	92.1	12,088,536	25.8
Indiana-----	16,942,772	8,045,402	102,950	1.3	597,660	7.4	7,344,792	91.3	8,897,370	52.5
Iowa-----	2,947,557	2,361,881	450,186	19.1	975,117	41.3	956,578	39.7	585,676	19.9
Kansas-----	2,674,691	696,114	70,375	10.1	400,605	57.5	225,134	32.3	1,978,577	74.0
Kentucky-----	42,556,589	41,763,425	1,546,638	3.2	950,604	2.2	39,466,184	94.5	793,142	1.9
Maryland-----	1,442,728	1,442,728	757,876	52.5			684,852	47.5		
Michigan-----	456,754	456,754					456,754	100.0		
Missouri-----	3,273,550	999,995	226,985	22.7	68,605	6.9	704,405	70.4	2,273,555	69.5
Montana-----	2,756,036	(2)	(2)	(2)			1,530,528	(2)	(2)	(2)
New Mexico-----	1,230,060	1,230,060	415,857	33.8	440,628	35.8	373,575	30.4		
Ohio-----	20,289,553	16,113,650	95,289	0.6	474,301	2.9	15,549,061	96.5	4,170,903	20.6
Oklahoma-----	1,187,562	687,166	6,309	0.9	108,580	15.8	572,337	83.3	500,396	42.1
Pennsylvania-----	92,584,113	89,619,274	13,509,560	15.1	2,864,907	3.2	73,244,807	81.7	2,964,839	3.2
Tennessee-----	5,185,481	(2)	(2)	(2)	462,570	(2)	4,214,151	(2)	(2)	(2)
Texas-----	16,259	16,259	16,259	100.0						
Utah-----	3,284,904	(2)	(2)	(2)	190,332	(2)	3,083,764	(2)	(2)	(2)
Virginia-----	13,530,974	13,530,974	106,886	0.8	945,211	7.0	12,478,877	92.2		
Washington-----	1,690,442	(2)	(2)	(2)	692,008	(2)	708,399	(2)	(2)	(2)
West Virginia-----	108,361,934	107,769,017	4,806,405	4.5	957,271	0.9	102,005,341	94.7	592,917	0.5
Wyoming-----	5,573,299	5,195,062	956,298	18.0	135,518	2.6	4,123,246	79.4	178,227	3.3
Arizona, Georgia, Idaho, and Oregon-----	39,021	39,021	4,063	10.4	34,958	89.6				

¹For definition of the industry see footnote 1 to tables 1 and 2. Since complete information on production by mining method was not collected for mines that produced less than 50 tons daily, the tonnage reported for these mines (2 percent of the total production) was allocated to the four mining methods in the following manner: The number of tons "Cut by machine" and mined "From strip pits" were determined by allocating to the former the total output of all operations that reported the use of cutting machines and by allocating to the latter the total output of all operations reported as strip pits. The remaining tonnage was allocated to "Mined by hand" and "Shot off the solid" according to the proportions for these methods reported in each county (or State, if county statistics were not available) by mines for which complete information on production by mining method was reported.

²Not shown separately, included in total for United States.

TABLE 20.—QUANTITY OF COAL CUT BY MACHINES, NUMBER OF COAL-CUTTING MACHINES, AND AVERAGE OUTPUT PER MACHINE AT BITUMINOUS-COAL MINES IN THE UNITED STATES, BY STATE: 1939¹

STATE	QUANTITY OF COAL CUT BY MACHINES ²		NUMBER OF COAL-CUTTING MACHINES USED					Average output per machine (tons of 2,000 pounds) ⁶
	Tons of 2,000 pounds	Percent of total underground production ³	Total	Track-mounted		Other types		
				Permissible ⁴	Other	Permissible ⁴	Other ⁵	
United States	513,451,952	88.2	12,205	1,136	964	5,764	6,341	25,682
Alabama	8,562,559	71.4	455	33	4	100	298	19,684
Arkansas	1,004,029	89.1	166	2	6	95	63	6,048
Colorado	4,198,346	(7)	447	45	40	133	229	9,392
Illinois	31,964,235	92.1	1,021	59	133	225	604	31,507
Indiana	7,344,792	91.3	252	32	16	94	110	29,146
Iowa	956,576	39.7	103	8	17	52	28	9,093
Kansas	225,134	32.3	44	9	—	11	24	5,117
Kentucky	39,486,184	94.5	1,464	125	198	368	773	26,971
Maryland	684,852	47.5	54	3	6	28	17	12,682
Michigan	456,754	100.0	53	22	—	8	23	8,618
Missouri	704,405	70.4	91	1	—	63	27	7,741
Montana	1,530,528	(7)	67	7	4	4	52	22,844
New Mexico	373,575	30.4	61	4	8	14	35	6,124
Ohio	15,549,061	96.5	818	38	60	158	562	19,009
Oklahoma	572,337	83.3	98	13	4	51	30	5,840
Pennsylvania	73,244,807	81.7	3,327	315	92	1,642	1,280	22,015
Tennessee	4,214,151	(7)	178	14	2	56	106	23,675
Utah	3,083,764	(7)	122	33	1	44	44	25,277
Virginia	12,478,877	92.2	302	64	30	72	136	41,321
Washington	708,399	(7)	50	1	—	43	6	14,166
West Virginia	102,005,341	94.7	2,762	311	339	460	1,652	36,932
Wyoming	4,123,246	79.4	290	1	4	43	242	14,218

¹For definition of the industry see footnote 1 to tables 1 and 2.

²Includes statistics for 98,485 tons of coal produced at 4 operations that did not report the number of machines used in cutting this tonnage.

³Preceding column divided by total underground production (as given in table 21), and the quotient multiplied by 100.

⁴Machines equipped with motors of the types that have passed certain tests made by the United States Bureau of Mines and installed and used in accordance with the conditions prescribed by the Bureau of Mines.

⁵Includes 535 cutting machines for which the type was not specified.

⁶Quantity of coal cut by machines divided by the total number of coal-cutting machines used.

⁷Not shown separately.

TABLE 21.—UNDERGROUND PRODUCTION MECHANICALLY LOADED AT BITUMINOUS-COAL MINES IN THE UNITED STATES, BY TYPE OF LOADING MACHINE AND BY STATE: 1939¹

STATE	UNDERGROUND PRODUCTION (Tons of 2,000 pounds)		TOTAL MECHANICALLY HANDLED				HANDLED BY MOBILE LOADING MACHINES						HANDLED BY SCRAPER LOADERS ²		HANDLED BY DUCK- BILLS AND SELF- LOADING CONVEYORS		HANDLED BY PIT-CAR LOADERS		HANDLED BY HAND- LOADED FACE CONVEYORS		
	Total	At mechan- ized mines ³	Number of mines	Tons of 2,000 pounds	Percent of under- ground total	Total		Gathering type		Shovel type		Number of units	Tons of 2,000 pounds	Number of units	Tons of 2,000 pounds	Number of units	Tons of 2,000 pounds	Number of units	Tons of 2,000 pounds	Number of units	Tons of 2,000 pounds
						Number of units	Tons of 2,000 pounds	Number of units	Tons of 2,000 pounds	Number of units	Tons of 2,000 pounds										
United States—	855,425,926	186,149,505	700	110,414,268	31.1	1,570	76,145,906	1,497	72,889,580	75	5,254,326	151	1,007,029	559	6,759,027	875	5,058,559	1,854	21,465,767		
Alabama—	11,985,064	8,644,939	38	2,908,745	24.5	16	522,041	16	522,041			45	585,659	20	153,358	28	139,682	175	1,727,815		
Arkansas—	1,126,594	687,662	26	648,253	57.5	5	26,542	5	26,542			12	91,194					68	550,697		
Colorado—	(*)	5,150,881	42	1,863,072	(*)	18	326,718	12	294,988	6	31,750			106	1,001,399	15	(*)	80	(*)		
Illinois—	34,694,155	27,730,089	69	26,570,199	76.6	540	24,842,466	533	24,439,376	2	555,090					302	1,597,871	29	130,562		
Indiana—	8,045,402	6,658,276	33	6,588,251	79.4	138	6,065,606	136	(*)							36	240,230	26	84,415		
Iowa—	2,561,881	152,105	5	66,422	2.8		(*)	1	(*)									6	66,422		
Kansas—	696,114	(*)	1	(*)	(*)	1	(*)	67	(*)	1	(*)	3	18,307	75	1,167,398	65	608,099	86	843,656		
Kentucky—	41,765,426	16,658,554	69	5,095,628	12.2	68	2,458,188											48	(*)		
Maryland—	1,442,728	(*)	3	(*)	(*)													1	(*)		
Michigan—	456,754	(*)	1	(*)	(*)																
Missouri—	999,995	(*)																			
Montana—	1,405,393	(*)	6	1,405,393	(*)	46	1,378,343	46	1,378,343					2	(*)	1	(*)				
New Mexico—	1,230,060	(*)	2	(*)	(*)	3	(*)	5	(*)			13	(*)								
Ohio—	7,732,560	7,732,560	29	5,422,800	33.6	91	4,902,298	64	3,170,119	27	1,732,179			14	169,655	3	8,451	56	545,196		
Oklahoma—	687,166	805,175	12	504,217	44.3							13	46,539					22	257,878		
Pennsylvania—	89,619,274	39,974,172	104	17,688,654	19.7	215	10,412,158	205	10,138,805	8	275,353	30	69,854	35	108,168	216	759,258	491	6,359,196		
Tennessee—	1,747,407	1,747,407	14	602,191	(*)	8	56,117	7	(*)	1	(*)			5	26,941			57	517,233		
Texas—	16,259	2,941,364	14	2,459,706	(*)	34	1,907,860	27	1,764,679	7	145,181			15	227,750			43	324,096		
Virginia—	13,530,974	4,896,738	17	2,453,407	18.0	51	1,580,841	28	1,425,840	5	155,001							37	(*)		
Washington—	(*)	850,601	7	710,603	(*)																
West Virginia—	107,769,017	56,529,135	186	30,478,154	28.5	331	20,511,151	320	20,094,436	11	419,715	7	108,288	79	830,703	164	1,556,057	507	7,492,865		
Wyoming—	5,195,062	4,989,240	24	4,894,075	94.2	29	1,096,085	29	1,096,085			8	(*)	201	3,025,339	43	106,870	44	(*)		
Arizona, Georgia, Idaho, and Oregon—	39,021	(*)																			
Undistributed:																					
East of Mississippi River	17,648,340	599,481		314,984	16.6		57,694		8,431,854		146,067										
West of Mississippi River		355,753		156,574	8.2				57,694				287,388				42,211				

¹ For definition of the industry see footnote 1 to tables 1 and 2. Statistics for number of units represent machines that were used in handling coal during 1939 and were reported as in use or available for use (junk excluded) on January 1, 1940. The 110 loading machines reported to be completely idle during 1939 are not included in this table. Of these 110, 26 were gathering- and shovel-type mobile loading machines, 10 were scraper loaders, 17 were duckbills and self-loading conveyors, 28 were pit-car loaders, and 29 were hand-loaded face conveyors. Figures for the number of tons of coal mechanically handled include 341,515 tons reported by operators who, before January 1, 1940, disposed of the loading machines that handled this tonnage.

² Of the total number of scraper loaders (including 10 idle machines), 51 were equipped with hoists having a rating of less than 10 horsepower; and 20, with a rating of 26 to 100 horsepower.

³ Represents total underground production at those underground operations at which any coal was handled mechanically.

⁴ Included in "undistributed."

⁵ Not shown separately.

MINERAL INDUSTRIES

TABLE 22.—NUMBER OF SURFACE LOADING MACHINES IN THE BITUMINOUS-COAL INDUSTRY IN THE UNITED STATES,
BY TYPE, KIND OF POWER USED, SIZE, AND STATE: 1939¹

(For producing operations only)

STATE	POWER SHOVELS							DRAGLINE EXCAVATORS							OTHER TYPES 2			
	Total	Kind of power used			Dipper capacity (cubic yards)			Total	Kind of power used			Bucket capacity (cubic yards)			Total	Kind of power used		
		Steam	Electric	Internal- com- bustion engine	Less than 3	3 to 5	More than 5		Steam	Electric	Internal- com- bustion engine	Less than 3	3 to 5	More than 5		Steam	Electric	Internal- com- bustion engine
United States	3 729	212	144	3 373	578	53	98	187	7	37	143	118	48	21	145	8	43	94
Alabama	5	3		2	4	1		2			2	2			3		2	1
Arkansas	4	4			2	2		1			1	1			1			1
Colorado	2			2	2										4		2	2
Illinois	85	14	46	25	43	12	30	48	20	28	19	15	14	20		14	6	6
Indiana	3 123	25	37	3 61	87	14	22	60	2	7	51	39	18	3	11	1	2	8
Iowa	25	3	1	21	25			28		2	28	24	3	1	9		2	7
Kansas	47	23	16	8	28	7	12	4	1	1	2	3	1		9	3	3	3
Kentucky	6	2	1	3	5		1	2		1	1	1		3		2		1
Michigan	1			1	1													
Missouri	61	32	12	17	42	7	12	5			5	4	1		18	4	5	9
Montana	5	1	4		1		4	3		2	1	1		2	3		3	
New Mexico								1	1			1						
Ohio	147	44	11	92	133	5	9	10	2	2	6	6	4		27		2	25
Oklahoma	18	11	3	4	10	3	5	4		1	3	3	1		2		2	
Pennsylvania	159	38	7	114	155	1	3	17	1		16	12	4	1	26		3	23
Tennessee	2	1	1		1	1									1		1	
Utah	4	1	1		2	4												
Washington	5	3		2	5													
West Virginia	25	4	2	19	25										7			7
Wyoming	5	3	2		5			2		1	1	2			1			

¹For definition of the industry see footnote 1 to tables 1 and 2.²Includes 5 scraper loaders (2 with hoists rated from 10 to 25 horsepower and 3 with hoists rated more than 100 horsepower)—3 in Ohio and 2 in Pennsylvania; 2 clamshells—1 in Kentucky and 1 in Missouri; 2 cranes and hoists, 1 in Indiana and 1 in Kentucky; 1 pump in Colorado; 34 conveyors—1 in Alabama, 9 in Illinois, 4 in Indiana, 5 in Iowa, 6 in Missouri, 5 in Ohio, and 4 in Pennsylvania; 27 bulldozers—1 in Colorado, 1 in Indiana, 3 in Iowa, 3 in Ohio, 14 in Pennsylvania, and 5 in West Virginia; 24 loaders—2 in Colorado, 2 in Illinois, 3 in Indiana, 4 in Kansas, 1 in Kentucky, 6 in Missouri, 3 in Montana, 2 in Oklahoma, and 1 in Pennsylvania; 19 tractor scrapers—1 in Illinois, 1 in Kansas, 2 in Missouri, 12 in Ohio, 2 in Pennsylvania, and 1 in Wyoming; 19 tractors—1 in Alabama, 1 in Arkansas, 2 in Illinois, 1 in Indiana, 2 in Kansas, 3 in Missouri, 4 in Ohio, 3 in Pennsylvania, and 2 in West Virginia; and 12 machines the types for which were not specified—1 in Alabama, 6 in Illinois, 1 in Indiana, 1 in Iowa, 2 in Kansas, and 1 in Tennessee.³Includes 1 compressed-air unit.

TABLE 23.—COAL CLEANED BY WET AND PNEUMATIC METHODS AT BITUMINOUS-COAL MINES AND CENTRAL CLEANING PLANTS IN THE UNITED STATES, BY STATE: 1939 ¹

STATE	Production of coal at all mines (tons of 2,000 pounds)	COAL CLEANED BY WET AND PNEUMATIC METHODS ²						COAL CLEANED BY WET-WASHING METHODS ²						COAL CLEANED BY PNEUMATIC METHODS ²					
		Clean- ing plants in oper- ation ³	Raw coal cleaned (tons of 2,000 pounds)	Clean coal obtained		Refuse (tons of 2,000 pounds)	Clean- ing plants in oper- ation	Raw coal cleaned (tons of 2,000 pounds)	Clean coal obtained		Refuse (tons of 2,000 pounds)	Clean- ing plants in oper- ation	Raw coal cleaned (tons of 2,000 pounds)	Clean coal obtained		Refuse (tons of 2,000 pounds)			
				Tons of 2,000 pounds	Percent of total mine production				Tons of 2,000 pounds	Percent of total mine production				Tons of 2,000 pounds	Percent of total mine production		Tons of 2,000 pounds	Percent of total mine production	
United States—	391,729,862	365	88,816,443	79,376,672	20.3	9,439,771	328	76,255,790	67,681,731	17.3	8,572,059	69	12,562,655	11,694,941	3.0	867,712			
Alabama—	12,046,675	52	11,318,668	9,938,993	82.5	1,379,675	52	11,318,668	9,938,993	82.5	1,379,675								
Arkansas—	1,152,038	1	(4)	(4)	(4)	(4)	1	(4)	(4)	(4)	(4)								
Colorado—	5,923,210	11	871,034	793,271	13.4	77,763	11	871,034	793,271	13.4	77,763								
Illinois—	46,782,691	45	16,408,356	14,108,576	30.2	2,299,780	44	(4)	(4)	(4)	(4)	2	(4)	(4)	(4)	(4)			
Indiana—	16,942,772	16	4,405,407	3,589,173	21.2	816,234	15	4,116,485	3,553,953	19.8	762,532	3	286,922	235,220	1.4	53,702			
Iowa—	2,947,557																		
Kansas—	2,674,691	6	1,400,011	1,138,039	42.5	261,972	6	1,400,011	1,138,039	42.5	261,972								
Kentucky—	42,556,569	12	2,275,575	2,116,523	5.0	159,052	7	1,857,788	1,725,250	4.1	132,538	5	417,787	391,273	0.9	26,514			
Maryland—	1,442,728	1	(4)	(4)	(4)	(4)	1	(4)	(4)	(4)	(4)								
Michigan—	456,754	3	(4)	(4)	(4)	(4)	3	(4)	(4)	(4)	(4)								
Missouri—	3,275,550	10	1,315,185	1,054,664	32.2	260,521	10	1,315,185	1,054,664	32.2	260,521								
Montana—	2,756,036	2	(4)	(4)	(4)	(4)	2	(4)	(4)	(4)	(4)	1	(4)	(4)	(4)	(4)			
New Mexico—	1,230,060	1	(4)	(4)	(4)	(4)	1	(4)	(4)	(4)	(4)								
Ohio—	20,289,553	7	3,937,360	3,377,996	16.6	559,364	7	(4)	(4)	(4)	(4)	1	(4)	(4)	(4)	(4)			
Oklahoma—	1,187,562																		
Pennsylvania—	92,584,113	52	22,242,262	20,929,432	22.6	1,312,830	37	15,775,458	14,657,765	16.0	917,693	22	6,466,804	6,071,657	6.6	395,137			
Tennessee—	5,185,481	4	352,918	320,206	6.2	32,712	4	352,918	320,206	6.2	32,712								
Texas—	16,259	1	(4)	(4)	(4)	(4)	1	(4)	(4)	(4)	(4)								
Utah—	3,284,904	1	(4)	(4)	(4)	(4)	1	(4)	(4)	(4)	(4)								
Virginia—	13,530,974	15	1,399,522	1,272,296	9.4	127,226	14	1,214,760	1,094,123	8.1	120,637	4	184,762	178,173	1.3	6,589			
Washington—	1,690,442	18	1,549,408	1,366,754	80.9	182,654	18	(4)	(4)	(4)	(4)	1	(4)	(4)	(4)	(4)			
West Virginia—	108,361,934	107	20,712,032	18,767,397	17.3	1,944,635	93	16,175,728	14,565,052	13.4	1,612,676	30	4,536,304	4,204,345	3.9	331,959			
Wyoming—	5,375,289																		
Arizona, Georgia, Idaho, and Undistributed:	39,021																		
Oregon—																			
East of Mississippi River—			73,896	65,547	3.5	8,349		19,977,184	17,144,057	24.9	2,833,127		445,408	408,062	0.6	34,546			
West of Mississippi River—			554,829	537,805	6.4	17,024		1,878,571	1,698,358	16.7	180,213		225,666	206,201	4.6	19,465			

¹For definition of the industry see footnote 1 to tables 1 and 2. Statistics for central washeries operated by consumers in Colorado and Pennsylvania are included.²Figures for Ohio include some coal mined in Pennsylvania and West Virginia; figures for Pennsylvania include some coal mined in West Virginia.³Represent 32 plants using both wet and pneumatic methods of cleaning plus 335 plants using only one of the cleaning methods.⁴Included in "Undistributed."

TABLE 24.—DETAILED STATISTICS FOR STRIP-PIT BITUMINOUS-COAL MINES IN THE UNITED STATES, BY STATE: 1939¹

(For producing operations only. Returns for mines that recovered coal both by stripping and by underground methods did not permit separation of statistics for stripping operations from those for underground operations. For this reason the figures shown in this table cover underground operations of mines using both methods)

ITEM	United States	Alabama	Arkansas	Illinois	Indiana	Iowa	Kansas
Number of operating companies ² -----	463	6	5	44	71	52	31
Number of mines-----	500	8	6	51	88	54	33
Engaged in strip-pit mining only-----	470	6	4	51	88	54	33
Number of cleaning plants-----	42			16	8		6
Production of bituminous coal:							
Mined by stripping (tons of 2,000 pounds)-----	55,502,936	61,611	25,454	12,083,536	8,897,370	585,976	1,978,577
Percent of total mined by all mines regardless of mining method-----	9.3	0.5	2.2	25.8	52.5	19.9	74.0
Total mined at same mines (tons of 2,000 pounds)-----	56,835,957	61,611	46,903	12,083,536	8,897,370	585,976	1,978,577
Value of all coal produced-----	\$55,589,124	\$119,337	\$115,375	\$18,169,735	\$12,290,762	\$1,158,232	\$3,556,910
Value of all products-----	\$55,790,312	\$144,537	\$115,594	\$18,214,520	\$12,357,779	\$1,158,324	\$3,556,910
Principal expenses designated below, total-----	\$33,751,113	\$87,817	\$89,277	\$10,681,093	\$8,137,283	\$729,794	\$2,074,497
Wages-----	\$13,205,499	\$60,565	\$85,433	\$4,623,665	\$4,155,827	\$269,449	\$1,002,142
Salaries-----	\$3,411,111	\$2,876	\$8,395	\$1,230,612	\$708,988	\$49,049	\$205,050
Supplies and materials-----	\$9,731,108	\$17,711	\$11,164	\$3,480,897	\$2,350,698	\$206,513	\$557,684
Fuel-----	\$1,156,330	\$6,101	\$2,959	\$190,801	\$279,802	\$74,555	\$25,329
Purchased electric energy-----	\$2,533,617	\$563	\$1,328	\$1,049,129	\$585,188	\$14,101	\$274,292
Contract work-----	\$713,248			\$88,489	\$76,780	\$16,327	
Cost of buildings, machinery, and equipment erected or installed during year-----	\$5,453,407		\$5,237	\$1,328,424	\$967,074	\$49,349	\$101,283
Buildings-----	\$1,180,717			\$326,267	\$362,781	\$2,210	\$9,165
Machinery and equipment-----	\$4,272,690		\$5,237	\$702,157	\$604,293	\$47,139	\$92,078
Number of persons engaged, total-----	12,970	67	110	3,267	3,266	372	823
Proprietors and firm members-----	368	4	5	27	62	32	26
Performing manual labor-----	223		4	12	36	20	24
Salaried employees-----	1,362	6	6	422	318	31	76
Wage earners (average for the year, including inactive periods)-----	11,440	57	99	2,818	2,896	309	722
Number receiving pay during pay-roll period ending nearest the 15th of:							
January-----	12,204	106	186	2,863	3,144	441	840
February-----	11,946	47	95	2,919	3,188	401	830
March-----	11,464	48	60	2,876	3,104	357	795
April-----	9,788	33	21	2,637	2,846	227	707
May-----	9,595	36	38	2,679	2,553	165	610
June-----	8,907	40	29	2,542	2,229	186	402
July-----	9,298	49	56	2,532	2,321	178	475
August-----	10,511	62	141	2,736	2,645	280	710
September-----	11,637	66	153	2,945	2,899	253	782
October-----	13,027	68	91	2,962	3,189	402	856
November-----	13,461	67	161	2,953	3,227	419	845
December-----	13,245	61	153	2,976	3,304	434	830
Wage earners and working proprietors on active days (average for the year)-----	13,325	125	118	2,862	3,320	430	835
Underground-----	640		52				
On surface-----	12,685	125	66	2,862	3,320	430	835
In strip pit-----	8,454	90	45	1,761	2,140	322	525
All others-----	4,231	35	21	1,101	1,180	108	310
Number of man-shifts and man-hours worked by wage earners and working proprietors:							
On active and inactive days-----							
Man-shifts-----	2,730,451	13,105	13,636	698,005	691,374	75,026	170,970
Man-hours-----	19,996,582	96,961	101,752	4,985,934	5,000,096	565,718	1,236,807
Average number of hours worked per shift-----	7.3	7.4	7.5	7.1	7.2	7.5	7.2
On active days only-----							
Man-shifts-----	2,622,928	13,105	13,636	673,922	647,990	73,884	155,527
Man-hours-----	19,224,099	96,961	101,752	4,814,961	4,692,647	557,044	1,126,045
Average number of full days mines were active-----	197	105	116	235	195	172	166
Tons of coal produced on active days:							
Per man-shift-----	14.04	4.70	3.44	17.94	13.73	7.95	12.72
Per man-hour-----	1.916	0.635	0.461	2.511	1.896	1.051	1.754
Horsepower rating of power equipment:							
Prime movers and electric motors driven by purchased energy, total-----	292,270	581	1,117	104,930	67,202	7,181	14,220
Driving stationary equipment-----	90,988	2	333	40,127	20,206	1,216	4,381
Driving mobile equipment-----	201,282	579	734	64,803	46,996	5,965	9,839
Prime movers-----							
Number-----	1,567	18	15	237	287	84	97
Horsepower rating-----	120,443	579	1,032	23,336	25,841	5,684	4,756
Electric motors driven by purchased energy-----							
Number-----	4,890	1	3	2,031	1,070	60	424
Horsepower rating-----	171,827	2	85	21,594	41,361	1,297	9,462
Electric motors driven by energy generated by reporting companies-----	4,988			1,417	55	428	
Electric energy consumed (thousands of kw.-hrs.), total ³ -----	191,731	45	20	88,955	44,512	787	17,605
Purchased-----	186,345	45	20	85,265	44,502	603	17,605
Generated by reporting companies-----	5,386			3,690	10	184	
Number of surface power shovels and draglines, total-----	877	7	5	127	183	53	49
Classified by kind of power used:							
Steam-----	195	3	4	10	27	3	23
Electric or Diesel-electric-----	176			66	44	3	17
Gasoline-----	7506	4	1	51	7112	47	9
Classified by dipper or bucket capacity:							
Less than 3 cubic yards-----	659	6	3	56	126	49	30
3 to 5 cubic yards-----	99	1	2	27	32	3	7
6 to 12 cubic yards-----	68			22	14	1	4
More than 12 cubic yards-----	51			22	11		8

¹For definition of the bituminous-coal industry see footnote 1 to tables 1 and 2; for explanations of terms used see appropriate footnotes to tables 4, 6, 17, and 19.²Companies with operations in more than 1 State are counted only once in the totals. Of this number, 2 companies had operations in 2 of the designated States and 1 had operations in 3 of the designated States.³Quantity of coal produced divided by number of man-shifts worked by wage earners and working proprietors on active days.⁴Quantity of coal produced divided by number of man-hours worked by wage earners and working proprietors on active days.⁵The figures for purchased energy include estimates for strip pits producing less than 50 tons daily canvassed by an abbreviated questionnaire that did not request statistics on the quantity of energy consumed. The quantity of the estimated purchased electric energy amounts to 519 thousand kilowatt-hours, or 0.3 percent of the United States total for strip pits. The estimates were made in the manner indicated in table 17, footnote 1. Since no electric motors were reported driven by energy generated by strip-pit companies canvassed by the abbreviated questionnaire, it was assumed that no electric energy was generated by such companies.⁷Includes 1 compressed-air unit.

TABLE 24.--DETAILED STATISTICS FOR STRIP-PIT BITUMINOUS-COAL MINES IN THE UNITED STATES, BY STATE: 1939¹—Continued

(For producing operations only. Returns for mines that recovered coal both by stripping and by underground methods did not permit separation of statistics for stripping operations from those underground operations. For this reason the figures shown in this table cover underground operations of mines using both methods)

ITEM	Kentucky	Missouri	Ohio	Oklahoma	Pennsyl- vania	West Virginia	Wyoming	All other States ²
Number of operating companies ³	5	53	75	12	92	9	5	7
Number of mines	5	51	95	14	94	9	7	7
engaged in strip-pit mining only	4	51	90	14	75	9	6	5
Number of cleaning plants	1	8			3			
Production of bituminous coal:								
Mined by stripping (net tons)	793,142	2,273,555	4,170,903	500,396	2,964,839	592,917	178,227	1,191,733
Percent of total mined by all mines								
replaced of mining method	1.9	69.5	20.6	42.1	3.2	0.5	3.3	3.4
Total mined at same mine (net tons)	809,899	2,273,555	4,214,178	500,396	3,375,282	592,917	188,536	1,222,543
Value of all coal produced	\$1,259,920	\$3,874,180	\$6,094,949	\$879,794	\$5,610,107	\$784,763	\$270,631	\$1,384,428
Value of all products	\$1,259,920	\$3,874,180	\$6,181,448	\$879,794	\$5,624,333	\$784,763	\$294,002	\$1,394,428
Principal expenses designated below, total	\$450,855	\$2,365,987	\$3,694,984	\$594,447	\$3,719,608	\$425,325	\$187,305	\$532,865
Wages	\$175,383	\$1,080,921	\$1,837,409	\$271,551	\$2,035,181	\$232,507	\$103,855	\$161,910
Salaries	\$23,584	\$249,287	\$379,139	\$53,293	\$371,549	\$58,857	\$19,056	\$71,596
Supplies and materials	\$194,403	\$686,495	\$910,712	\$172,747	\$764,882	\$76,823	\$41,083	\$269,496
Fuel	\$2,806	\$57,866	\$251,034	\$23,723	\$188,968	\$29,707	\$14,127	\$8,752
Purchased electric energy	\$44,623	\$287,235	\$104,041	\$49,200	\$99,416	\$6,220	\$146	\$21,509
Contract work	\$10,056	\$4,175	\$212,629	\$23,933	\$259,810	\$14,211	\$9,068	
Cost of buildings, machinery, and equipment erected or installed during year	\$52,385	\$121,237	\$1,512,852	\$108,484	\$1,013,200	\$145,749	\$12,607	\$35,546
Buildings	\$800	\$9,411	\$73,186	\$2,210	\$28,497	\$41,359		\$25,411
Machinery and equipment	\$51,785	\$111,826	\$1,439,666	\$106,274	\$984,903	\$104,390	\$12,607	\$10,335
Number of persons engaged, total	156	955	1,390	268	1,818	235	76	167
Proprietors and firm members	3	45	55	11	83	3	4	8
Performing manual labor	1	30	29	11	46		4	6
Salaried employees	11	74	150	20	199	35	3	29
Wage earners (average for the year, including inactive periods)	142	836	1,205	237	1,535	197	66	160
Number receiving pay during pay-roll period ending nearest the 15th of:								
January	175	947	1,210	287	1,468	206	73	168
February	146	914	1,215	278	1,478	207	78	144
March	146	910	1,192	253	1,440	104	76	123
April	108	724	1,035	146	812	105	76	111
May	124	638	987	144	1,113	146	36	103
June	105	615	933	140	1,492	165	58	103
July	112	659	997	172	1,408	181	54	104
August	151	738	1,052	242	1,448	196	56	114
September	159	850	1,258	289	1,694	182	67	128
October	157	979	1,492	295	2,054	296	71	145
November	163	1,030	1,564	319	2,163	299	78	170
December	154	1,023	1,523	295	1,983	281	68	160
Wage earners and working proprietors on active days (average for the year)	159	969	1,507	245	2,200	340	76	139
Underground	16		31		505		8	28
On surface	143	969	1,476	245	1,695	340	68	111
In strip pit	93	872	1,050	144	1,219	269	53	71
All others	50	297	426	101	476	71	15	40
Number of man-shifts and man-hours worked by wage earners and working proprietors:								
On active and inactive days—								
Man-shifts	31,320	193,760	317,423	54,444	370,123	50,212	17,065	30,990
Man-hours	245,235	1,456,987	2,420,907	441,802	2,712,174	372,854	125,499	233,856
Average number of hours worked per shift	7.8	7.4	7.6	8.1	7.3	7.4	7.4	7.5
On active days only—								
Man-shifts	31,320	192,009	311,615	51,124	361,913	49,939	16,435	30,511
Man-hours	245,235	1,421,104	2,377,809	415,094	2,651,694	370,470	120,459	230,424
Average number of full days mines were active	197	198	207	209	165	147	126	220
Tons of coal produced on active days:								
Per man-shift	25.86	11.84	13.52	9.79	9.33	11.87	11.47	40.07
Per man-hour	3.303	1.800	1.772	1.206	1.275	1.600	1.565	5.306
Horsepower rating of power equipment:								
Prime movers and electric motors driven by purchased energy, total	5,017	25,692	23,686	3,355	24,778	2,346	3,114	3,070
Driving stationary equipment	3,258	10,774	1,923	792	3,949	112	2,805	958
Driving mobile equipment	1,759	14,918	21,740	5,633	20,830	2,234	509	5,112
Prime movers—								
Number	10	180	255	44	281	28	19	36
Horsepower rating	1,265	9,408	18,040	3,187	19,671	2,205	3,114	2,123
Electric motors driven by purchased energy								
Number	89	560	167	165	153	16		131
Horsepower rating	3,752	13,284	5,626	3,188	5,108	141		3,947
Electric motors driven by energy generated by reporting companies			138		385		1,537	1,028
Electric energy consumed (thousands of kw.-hrs.), totals	2,903	17,045	6,717	3,214	6,618	136	1,078	2,096
Purchased	2,903	17,045	6,500	3,214	6,574	136	7	1,928
Generated by reporting companies			217		44		1,071	170
Number of surface power shovels and draglines, total	7	64	151	22	171	19	7	12
Classified by kind of power used:								
Steam	1	30	42	11	56		3	2
Electric or Diesel-electric	2	12	11	4	7	1	3	6
Gasoline	4	22	98	7	128	18	1	4
Classified by dipper or bucket capacity:								
Less than 3 cubic yards	5	44	133	13	162	19	7	6
3 to 5 cubic yards	1	8	9	4	5			
6 to 12 cubic yards		7	7	4				5
More than 12 cubic yards	1	5	2	1				1

¹For definition of the bituminous-coal industry see footnote 1 to tables 1 and 2; for explanations of terms used see appropriate footnotes to tables 4, 8, 17, and 19.

²Colorado, 1 mine; Montana, 2; Tennessee, 2; Utah, 1; and Washington, 1.

³Companies with operations in more than 1 State are counted only once in the totals. Of this number, 2 companies had operations in 2 of the designated States and 1 had operations in 3 of the designated States.

⁴Quantity of coal produced divided by number of man-shifts worked by wage earners and working proprietors on active days.

⁵Quantity of coal produced divided by number of man-hours worked by wage earners and working proprietors on active days.

⁶The figures for purchased energy include estimates for strip pits producing less than 50 tons daily canvassed by an abbreviated questionnaire that did not request statistics on the quantity of energy consumed. The quantity of the estimated purchased electric energy amounts to 519 thousand kilowatt-hours, or 0.3 percent of the United States total for strip pits. The estimates were made in the manner indicated in table 17, footnote 1. Since no electric motors were reported driven by energy generated by strip-pit companies canvassed by the abbreviated questionnaire, it was assumed that no electric energy was generated by such companies.

TABLE 25.—PRINCIPAL STATISTICS FOR NONPRODUCING OPERATIONS IN THE BITUMINOUS-COAL INDUSTRY IN THE UNITED STATES, BY STATE: 1939¹

ITEM	United States	Pennsylvania	West Virginia	All others ²
Number of operating companies ³ -----	25	13	3	9
Number of mines-----	30	14	3	13
Number of persons engaged, total-----	144	72	11	61
Proprietors and firm members-----	1	1	-----	-----
Performing manual labor-----	1	1	-----	-----
Salaried employees-----	34	18	1	15
Wage earners (average for the year)-----	109	53	10	46
Number receiving pay during pay-roll period ending nearest the 15th of:				
January-----	104	62	4	38
February-----	121	84	3	34
March-----	121	83	3	35
April-----	64	38	4	22
May-----	93	32	26	35
June-----	76	29	4	43
July-----	93	31	12	50
August-----	120	35	3	82
September-----	120	50	19	51
October-----	108	48	7	53
November-----	158	76	28	54
December-----	134	65	14	55
Principal expenses designated below, total-----	\$275,925	\$147,767	\$19,124	\$109,034
Wages-----	\$137,190	\$61,793	\$11,589	\$63,808
Salaries-----	\$62,177	\$33,291	\$250	\$28,636
Supplies and materials-----	\$28,721	\$21,756	\$3,371	\$13,594
Fuel-----	\$8,510	\$8,510	-----	-----
Purchased electric energy-----	\$58,104	\$22,030	\$3,914	\$32,160
Contract work-----	\$1,221	\$387	-----	\$547
Cost of buildings, machinery, and equipment erected or installed during year-----	\$48,034	\$875	\$6,778	\$40,381
Buildings-----	\$1,551	-----	\$1,551	-----
Machinery and equipment, total-----	\$46,483	\$875	\$5,227	\$40,381
Purchased in new condition-----	\$41,650	\$875	\$5,227	\$37,752
Purchased in used condition-----	\$4,833	-----	-----	\$2,629
Average number of wage earners and working proprietors on active days-----	47	27	-----	20
Total number of man-shifts worked by wage earners and working proprietors-----	29,041	11,929	3,061	14,059
Total number of man-hours worked by wage earners and working proprietors-----	210,651	87,789	22,522	100,738
Average number of hours worked per shift-----	7.3	7.4	7.4	7.1
Average hourly earning of wage earners and working proprietors-----	\$0.85	\$0.70	\$0.51	\$0.84
Average number of equivalent full days operations were active-----	106	40	-----	48
Horsepower rating of prime movers and of electric motors driven by purchased energy, total-----	17,470	10,841	725	9,904
By stationary and mobile:				
Stationary-----	8,665	5,206	-----	3,459
Mobile-----	8,805	5,635	725	3,446
By prime movers and electric motors driven by purchased energy:				
Prime movers-----	2,495	700	-----	1,795
Electric motors driven by purchased energy-----	14,975	10,141	725	8,151
Horsepower rating of electric motors driven by energy generated by reporting companies-----	170	111	-----	69
Electric energy consumed (thousands of kw.-hrs.), total-----	3,430	2,446	292	892
Purchased-----	3,425	2,441	292	888
Generated by reporting companies-----	5	5	-----	4
Quantity of fuels consumed:				
Natural gas (thousands of cubic feet)-----	35,016	35,016	-----	-----

¹For definition of the industry see table 1, footnote 1. Statistics represent mines that had no products, but for which the reported principal expenses for buildings, machinery, and equipment erected or installed during the year amounted to \$2,500 or more.

²Colorado, 1 mine; Illinois, 4; Kentucky, 3; Ohio, 2; Oklahoma, 1; and Virginia, 2.

³Companies with operations in more than 1 State are counted only once in the totals.

BITUMINOUS COAL

269

TABLE 26.—PRODUCTION, VALUE OF PRODUCTS, AND REPORTED PRINCIPAL EXPENSES OF THE BITUMINOUS-COAL INDUSTRY IN THE UNITED STATES, BY STATE AND BY COUNTY: 1939¹

(For producing operations only)

STATE AND COUNTY	Number of mines	Production of coal (tons of 2,000 pounds)	Value of all products	PRINCIPAL EXPENSES DESIGNATED BELOW							COST OF BUILDINGS ERECTED AND MACHINERY AND EQUIPMENT INSTALLED DURING YEAR		
				Total	Wages	Salaries	Supplies and materials	Fuel	Purchased electric energy	Contract work	Total	Buildings	Machinery and equipment
UNITED STATES	5,686	391,728,862	\$727,357,537	\$594,511,884	\$430,427,148	\$444,120,411	\$88,064,351	\$5,290,536	\$24,711,182	\$1,898,256	\$30,561,244	\$5,303,434	\$25,257,810
ALABAMA	231	12,046,675	27,790,156	23,050,838	16,834,006	1,564,786	3,714,017	183,833	672,397	81,799	1,299,226	301,088	998,138
Bibb	11	618,244	1,487,678	1,398,429	1,030,471	113,650	139,793	31,819	82,696	—	16,381	—	16,381
Blount	10	129,223	312,546	250,441	200,772	4,495	34,274	6,341	4,559	—	81	81	4,013
Cherokee	3	12,441	26,211	20,435	17,919	—	1,908	306	177	125	190	25	165
Cullman	10	34,420	85,546	62,115	54,227	204	5,751	1,019	914	—	1,100	1,000	100
Etowah	6	22,513	43,496	34,124	31,760	—	2,087	188	109	—	—	—	—
Jefferson	63	7,107,707	16,243,154	13,732,272	9,958,871	1,055,539	2,403,641	56,272	219,408	38,543	728,153	34,736	693,417
Marion	19	249,559	723,798	589,592	407,180	25,668	105,445	1,960	28,114	15	4,013	—	—
Shelby	22	591,914	1,061,017	950,234	619,845	113,907	140,750	3,807	72,125	—	25,315	7,818	17,497
Tuscaloosa	21	123,842	287,872	193,620	151,983	7,863	28,964	5,365	1,445	—	4,216	—	—
Walker	52	2,277,824	5,027,680	4,015,512	2,878,431	212,332	669,081	5,802	249,387	479	326,130	108,146	217,984
De Kalb, Fayette, Jackson, Madison, St. Clair, and Winston	14	1,078,988	2,508,159	1,825,274	1,482,547	31,128	184,343	71,154	13,465	42,637	193,647	149,282	44,365
ARKANSAS	78	1,152,038	3,655,657	3,126,523	2,116,629	248,540	541,854	24,499	191,605	3,396	72,697	13,489	59,208
Franklin	8	112,644	366,624	336,991	258,231	16,561	40,447	4,521	16,899	332	8,552	1,610	6,942
Johnson	17	104,007	556,094	430,710	32,266	76,885	6,030	20,952	1,857	—	2,899	—	—
Logan	19	359,363	1,319,514	1,175,037	770,284	107,473	228,267	802	65,179	3,052	17,247	9,574	7,673
Sebastian	31	428,338	1,196,334	961,666	849,456	85,515	170,744	11,534	64,405	12	36,033	2,006	34,027
Pope and Scott	3	57,786	217,091	202,176	143,988	6,725	25,701	1,612	24,170	—	9,028	—	—
COLORADO	211	5,923,210	14,952,286	\$12,254,496	8,703,595	\$1,008,336	1,715,971	299,671	518,243	8,680	695,507	72,809	622,698
Boulder	18	608,433	1,727,433	1,341,232	981,122	77,507	185,090	22,968	74,545	—	73,519	1,548	71,971
Delta	8	61,614	147,841	139,453	93,280	15,195	23,398	7,543	57	—	2,160	1,507	655
Elbert	3	8,023	19,498	15,110	12,517	—	2,008	371	214	—	—	—	—
Fremont	31	510,007	1,276,189	1,103,577	790,420	—	84,224	174,949	3,251	50,733	60,787	16,651	44,136
Garfield	7	37,978	86,127	69,245	45,705	—	8,125	14,573	2,744	98	1,622	1,290	332
Gunnison	12	530,425	1,201,036	917,421	685,134	—	60,811	124,672	20,456	26,348	53,872	2,664	51,208
Huerfano	23	615,167	1,546,933	1,235,272	971,161	—	69,422	114,311	4,224	76,154	33,345	6,470	26,875
La Plata	9	28,195	61,457	41,201	34,531	—	—	6,022	447	201	2,000	1,750	250
Las Animas	27	1,067,136	2,485,010	2,115,529	1,638,796	102,653	252,322	25,915	91,109	4,734	18,853	11,232	8,621
Mesa	13	77,464	161,050	122,373	90,196	6,300	18,305	4,698	2,874	—	10,025	2,200	7,825
Koffat	4	55,900	115,649	74,002	53,685	—	16,583	3,489	245	—	9,760	2,175	7,605
Routt	15	727,440	1,786,335	1,602,921	1,172,918	—	76,865	260,132	50,587	42,419	81,745	5,860	75,885
Weld	19	1,134,830	2,902,621	2,063,188	1,500,041	117,858	285,538	46,384	109,421	3,946	333,806	18,378	315,428
El Paso, Jackson, Jefferson, and Larimer	16	428,380	1,159,338	875,224	560,938	82,793	101,743	105,925	23,825	—	12,645	1,006	11,639
Archuleta, Montezuma, Montrose, Pitkin, Pueblo, and Rio Blanco	8	32,418	276,773	244,145	75,171	11,980	136,325	669	20,000	—	348	88	260
ILLINOIS	546	46,782,691	76,863,708	\$57,896,088	35,203,157	\$8,163,819	12,351,391	1,060,976	2,926,607	189,938	3,676,598	1,319,589	2,357,009
Franklin	12	8,319,849	14,059,226	10,604,000	6,322,927	966,411	2,542,952	160,319	611,391	—	308,178	204,113	104,065
Fulton	59	3,793,139	5,391,213	2,799,904	1,511,568	141,213	790,048	42,492	306,260	8,335	404,071	19,518	384,555
Gallatin	4	46,571	75,045	59,866	41,470	3,926	11,530	2,959	71	—	2,450	2,400	50
Grundy	5	124,907	325,537	225,511	131,822	32,608	44,187	9,724	7,190	—	775	250	525
Knox	9	761,784	1,211,378	697,482	420,220	60,181	148,594	10,541	59,254	692	38,315	25,504	12,811
La Salle	12	367,235	979,714	673,073	491,441	70,214	87,606	8,205	25,607	10,000	24,998	8,661	16,337
Livingston	3	10,846	32,276	19,186	15,659	—	3,510	1,020	1,007	—	850	—	—
Macoupin	12	3,369,170	5,035,037	3,917,280	2,807,280	219,845	695,374	164,742	15,204	14,850	248,171	29,772	218,399
Madison	18	1,829,489	2,726,674	2,380,366	1,822,115	93,624	331,685	55,898	56,414	650	190,106	54,413	135,693
Menard	10	116,115	240,902	183,315	133,905	14,484	25,396	4,354	5,176	—	2,093	600	1,493
Mercer	7	25,365	64,787	54,393	44,645	—	6,830	1,189	1,929	—	4,260	—	—
Montgomery	3	685,989	943,695	674,981	465,238	52,777	108,495	41,283	7,188	—	17,286	—	—
Peoria	44	1,171,071	2,388,522	1,780,941	1,444,730	85,570	185,868	6,398	58,107	450	7,333	1,213	6,120
Perry	21	169,685	4,898,004	3,241,298	1,742,646	282,367	933,392	48,708	254,183	—	566,337	542,289	24,048
Randolph	12	1,231,918	1,588,894	1,024,521	601,917	80,124	238,935	37,407	68,138	—	55,589	14,910	40,679
Rock Island	5	24,078	76,980	50,814	40,282	4,475	3,231	541	2,505	—	—	—	—
St. Clair	51	2,454,485	3,728,371	2,957,812	1,951,536	140,039	528,504	69,951	141,219	126,763	320,210	101,466	218,724
Saline	21	3,649,773	6,572,684	4,823,170	2,904,324	484,552	1,061,840	88,154	278,454	5,886	508,559	80,862	428,697
Sangamon	22	2,086,719	3,765,693	3,162,151	2,219,055	295,814	517,618	25,505	104,159	—	126,204	1,875	128,329
Schuyler	10	50,819	96,054	75,079	61,288	—	9,335	2,833	1,623	—	—	—	—
Shelby	5	7,206	26,610	19,264	15,235	—	1,684	432	—	50	45	45	—
Stark	5	19,235	40,773	31,151	26,945	—	3,401	184	621	—	45	—	—
Tazewell	4	204,633	433,268	373,528	308,082	23,602	28,868	3,610	11,166	—	6,439	1,593	4,846
Vermilion	51	1,923,460	3,574,315	2,977,785	2,142,408	174,530	470,352	29,807	138,853	22,035	338,257	132,973	155,284
Wabash	4	8,190	14,428	11,625	8,741	—	1,475	254	155	—	200	—	—
Williamson	69	2,430,571	3,826,315	2,508,263	1,559,551	169,817	568,212	96,991	113,355	227	104,682	27,028	77,654
Other counties	68	8,916,399	14,947,323	10,584,562	5,965,218	784,970	3,028,893	147,695	657,588	—	400,145	20,086	380,059
INDIANA	268	16,942,772	25,175,969	\$17,857,352	10,714,961	\$1,223,398	4,401,196	415,862	1,005,318	96,597	1,260,508	376,726	883,782
Clay	42	1,818,283	2,396,044	1,577,287	906,165	117,881	378,722	88,776	78,034	7,709	360,183	8,669	351,514
Davies	7	80,369	118,245	82,954	67,411	—	12,664	1,510	1,289	—	7,065	2,961	4,104
Dubois	5	14,172	24,484	18,237	15,235	—	2,427	451	128	—	950	500	450
Fountain	11	32,591	61,722	67,650	48,178	500	32,991	4,971	270	740	24,068	6,590	17,478
Greene	31	2,147,834	3,316,099	2,101,897	1,208,447	96,383	598,652	45,617	152,230	168	323,584	272,159	51,426
Knox	14	2,122,107	2,909,632	2,151,985	1,484,411	115,917	405,178	33,922	112,587	—	320,872	53	180,819
Martin	5	18,765	29,972	24,147	21,505	—	2,062	424	156	—	—	—	—
Parke	15	132,949	299,541	212,418	178,008	480	23,949	9,398	583	—	1,839	752	1,087

See footnotes at end of table.

TABLE 26.—PRODUCTION, VALUE OF PRODUCTS, AND REPORTED PRINCIPAL EXPENSES OF THE BITUMINOUS-COAL INDUSTRY IN THE UNITED STATES, BY STATE AND BY COUNTY: 1939¹—Continued

(For producing operations only)

STATE AND COUNTY	Number of mines	Production of coal (tons of 2,000 pounds)	Value of all products	PRINCIPAL EXPENSES DESIGNATED BELOW							COST OF BUILDINGS ERECTED AND MACHINERY AND EQUIPMENT INSTALLED DURING YEAR		
				Total	Wages	Salaries	Supplies and materials	Fuel	Purchased electric energy	Contract work	Total	Buildings	Machinery and equipment
INDIANA—Con.													
Perry	6	28,844	\$39,765	\$28,219	\$23,509	---	\$4,561	\$240	\$109	---	\$425	\$75	\$350
Pike	20	3,398,684	4,021,997	2,571,900	1,568,378	\$177,829	708,521	62,388	224,501	\$30,283	96,490	34,321	62,169
Sullivan	23	1,498,804	2,584,192	1,671,602	1,035,111	86,281	598,756	32,247	71,227	---	71,393	7,170	84,223
Vermillion	13	487,621	742,022	584,879	407,588	38,819	90,721	11,824	26,612	9,235	10,131	455	9,676
Vigo	32	3,279,406	5,087,629	3,932,033	2,345,691	269,044	991,148	48,639	257,263	20,248	203,554	39,560	163,994
Warren	3	5,359	12,111	9,871	7,748	---	1,225	898	---	---	---	---	---
Warrick	29	1,251,760	1,556,476	1,225,207	655,392	69,339	361,915	36,754	74,293	27,514	22,454	1,962	20,492
Gibson, Owen, Spencer, and Vanderburgh	12	1,149,224	1,976,037	1,407,270	914,406	60,849	387,724	37,503	6,088	700	7,500	1,500	6,000
IOWA	271	2,947,557	7,189,537	5,814,925	4,404,455	347,924	736,563	120,910	187,634	17,439	100,433	17,478	82,955
Adams	9	17,561	46,230	39,595	36,105	---	2,753	586	151	---	---	---	---
Appanoose	56	344,055	857,042	706,764	572,141	34,119	64,110	5,652	30,130	612	5,194	1,325	3,869
Boone	13	246,608	747,282	706,837	509,148	87,771	70,701	4,378	34,841	---	169	100	69
Dallas	3	369,637	1,047,813	885,828	734,634	38,777	68,748	3,047	40,622	---	6,013	---	6,013
Greene	5	20,808	58,058	50,007	37,474	3,455	5,624	851	2,603	---	---	---	---
Guthrie	4	24,338	72,693	58,284	50,989	1,200	4,979	869	247	---	---	---	---
Jasper	5	27,792	74,990	63,694	51,728	3,369	5,249	533	2,815	---	853	300	553
Mahaska	23	270,761	552,454	375,479	200,660	17,096	107,859	31,364	4,292	14,408	16,199	760	15,439
Marion	59	528,688	1,118,168	733,081	533,526	24,964	112,399	33,441	8,761	---	46,557	9,840	36,717
Monroe	16	103,612	219,856	189,143	154,859	6,918	18,825	5,812	830	1,919	8,513	1,461	7,032
Page	6	35,611	97,339	75,448	59,466	7,108	5,892	892	2,090	---	230	---	230
Polk	13	308,920	838,184	749,350	575,684	76,565	70,186	4,357	22,558	---	1,078	1,013	85
Van Buren	6	18,555	48,213	33,875	23,830	---	6,375	2,975	193	500	715	50	665
Wapello	27	180,930	386,948	305,287	205,546	4,040	77,028	15,616	1,037	---	3,262	1,750	1,512
Warren	6	67,015	174,297	142,049	91,281	17,570	15,768	4,480	12,950	---	1,910	859	1,051
Wayne	5	24,250	55,901	43,880	36,942	---	5,591	972	675	---	---	---	---
Webster	4	36,079	98,499	70,092	58,949	---	10,777	232	134	---	---	---	---
Davis, Jefferson, Lucas, and Taylor	11	299,539	697,292	588,254	451,613	24,982	84,099	4,855	22,705	---	9,740	---	9,740
KANSAS	93	2,674,691	5,037,992	3,314,541	1,952,167	235,244	778,029	32,338	334,932	1,831	122,954	10,520	112,434
Crawford	42	1,725,651	3,185,079	2,227,901	1,274,066	212,068	511,928	21,972	206,246	1,621	99,235	9,620	89,615
Franklin	4	16,860	44,038	36,614	30,741	---	4,270	343	1,260	---	---	---	---
Labette	4	10,736	23,689	16,466	10,426	---	2,598	2,713	729	---	---	---	---
Linn	8	16,904	32,907	25,758	21,474	---	3,438	727	119	---	---	---	---
Osage	19	79,151	228,443	185,845	166,246	---	21,331	447	7,611	210	3,855	375	3,480
Bourbon, Cherokee, and Leavenworth	16	825,589	1,543,836	811,957	429,214	23,176	234,464	6,136	118,967	---	19,864	525	19,339
KENTUCKY	478	42,556,568	74,163,830	56,947,552	48,674,395	3,819,406	8,691,261	257,728	2,420,384	84,378	2,198,741	412,270	1,786,471
Bell	49	1,620,896	2,880,893	2,687,281	2,083,965	198,218	270,408	13,319	114,311	7,060	346,641	83,551	283,090
Boyd	9	25,655	44,533	38,878	35,356	---	2,962	254	126	---	170	50	120
Butler	6	11,286	19,021	15,942	12,333	---	3,106	464	37	---	980	780	200
Clay	9	174,037	324,639	275,068	199,428	3,418	51,255	664	17,488	2,817	11,569	1,500	10,069
Davless	17	108,971	125,848	99,889	67,220	2,100	26,862	3,514	193	---	425	425	---
Floyd	23	4,517,275	8,322,609	7,455,027	5,918,259	349,838	908,603	31,668	243,595	3,064	293,674	79,331	214,343
Greenup	3	3,798	5,241	4,062	3,364	---	540	100	58	---	---	---	---
Harlan	52	12,261,012	23,925,888	19,768,799	15,156,463	1,272,173	2,536,235	31,938	760,150	11,840	406,212	99,045	307,167
Henderson	12	104,138	173,731	166,356	120,663	---	15,106	10,775	1,344	---	7,287	322	6,965
Hopkins	52	3,708,145	5,078,135	3,553,002	2,255,056	232,142	774,135	16,883	243,315	31,471	285,128	71,609	213,519
Jackson	8	205,255	365,294	281,523	203,189	19,280	43,363	13,683	2,008	---	5,650	250	5,400
Knott	4	433,536	752,212	660,724	517,494	40,150	71,027	---	32,053	---	4,322	2,233	2,089
Knox	8	648,184	1,111,876	1,019,216	780,177	55,298	141,039	3,537	39,167	---	---	---	---
Laurel	13	50,146	85,162	65,607	47,700	1,800	11,926	856	2,425	1,100	2,205	5	2,200
Lee	7	17,908	30,219	22,878	19,474	---	3,107	188	109	---	146	---	146
Letcher	20	3,762,298	6,721,979	5,646,252	5,061,439	379,254	957,152	3,096	228,373	18,938	299,329	42,825	256,504
McLean	4	8,895	12,068	9,342	7,626	---	1,301	318	97	---	---	---	---
Muhlenberg	30	2,343,842	2,751,207	3,013,790	2,041,397	164,367	686,470	34,085	87,171	300	34,198	6,527	27,671
Ohio	11	255,526	346,854	282,880	221,817	9,291	38,088	3,051	10,633	---	3,209	---	3,209
Perry	32	4,095,747	7,240,750	6,011,353	4,710,607	344,535	654,197	415	301,599	---	191,825	627	191,198
Pike	33	4,280,067	7,233,259	6,111,110	4,786,860	511,895	789,875	6,761	207,931	7,788	96,483	4,206	92,277
Rockcastle	7	23,828	34,034	28,278	24,241	---	3,399	411	237	---	370	20	350
Union	6	597,979	847,258	647,375	481,575	36,763	87,018	23,064	18,955	---	26,517	3,529	22,988
Webster	16	1,083,510	1,378,198	1,158,284	876,451	56,876	179,336	4,219	41,382	---	4,447	800	4,147
Whitley	9	292,377	617,993	604,898	458,349	82,210	61,170	12,656	12,503	---	11,700	3,100	8,606
Christian and Hancock	4	68,647	102,684	86,274	64,799	5,294	10,729	186	5,264	---	752	---	752
Other counties	54	1,853,808	3,659,016	3,134,279	2,541,095	136,823	382,680	41,641	51,860	---	165,502	12,035	153,467
MARYLAND	83	1,442,728	2,977,753	2,717,650	2,072,989	219,777	324,158	38,217	59,481	3,128	109,424	3,032	106,392
Allegany	56	847,826	1,797,430	1,650,631	1,291,872	106,734	187,268	6,403	55,426	3,128	85,803	632	85,171
Garrett	27	594,902	1,180,323	1,001,001	761,017	47,245	136,870	31,814	4,055	---	23,621	2,400	21,221
MICHIGAN	11	466,754	1,723,104	1,566,842	1,065,158	245,094	145,484	85,244	25,151	531	10,216	1,252	8,964
Bay	3	84,562	257,620	281,421	166,803	84,250	17,604	11,223	1,176	366	1,185	---	1,185
Saginaw	5	120,703	460,306	446,044	298,714	54,822	51,240	51,287	9,981	---	3,518	---	3,518
Shiawassee and Tuscola	3	271,489	1,005,178	792,094	599,641	58,839	96,620	22,734	13,994	166	5,513	1,252	4,261

See footnotes at end of table.

BITUMINOUS COAL

271

TABLE 26.—PRODUCTION, VALUE OF PRODUCTS, AND REPORTED PRINCIPAL PRINCIPAL EXPENSES OF THE BITUMINOUS-COAL INDUSTRY IN THE UNITED STATES, BY STATE AND BY COUNTY: 1939¹—Continued

(For producing operations only)

STATE AND COUNTY	Number of mines	Production of coal (tons of 2,000 pounds)	Value of all products	PRINCIPAL EXPENSES DESIGNATED BELOW							COST OF BUILDINGS ERECTED AND MACHINERY AND EQUIPMENT INSTALLED DURING YEAR		
				Total	Wages	Salaries	Supplies and materials	Fuel	Purchased electric energy	Contract work	Total	Buildings	Machinery and equipment
MISSOURI	180	3,273,550	\$6,138,612	\$4,432,791	\$2,631,109	\$491,704	\$955,750	\$93,352	\$346,582	\$4,294	\$204,487	\$18,943	\$185,544
Adair	8	99,965	175,995	152,934	124,026	2,945	15,295	5,828	4,840	—	35,301	—	35,301
Boone	6	14,391	31,299	24,453	18,753	—	4,520	794	366	—	1,060	—	1,060
Clay	6	95,270	278,960	243,693	194,225	23,554	12,829	5,870	7,615	—	10,560	3,869	6,511
Harrison	3	18,802	45,646	36,537	32,600	—	3,078	784	77	—	3,605	505	3,500
Henry	12	646,254	1,113,989	639,599	343,111	73,571	125,882	18,411	78,352	272	47,513	1,277	46,236
Lafayette	22	251,152	611,480	531,789	442,015	24,693	42,982	7,890	14,209	—	3,997	1,542	2,555
Linn	6	69,480	142,711	130,564	102,618	2,670	19,359	378	5,339	—	5,797	—	5,797
Putnam	17	31,278	64,680	50,833	42,559	—	6,543	1,119	612	—	875	400	475
Randolph	15	454,060	849,341	570,205	296,644	37,470	185,268	973	47,850	—	21,418	968	20,450
Ray	24	134,050	343,385	298,125	234,149	24,992	24,107	4,000	10,877	—	9,772	2,050	7,722
Vernon	9	57,686	101,827	70,589	49,430	1,425	11,204	4,594	2,057	1,879	2,556	400	2,456
Other counties ²	52	1,402,162	2,380,119	1,482,959	746,979	99,673	414,885	42,911	174,368	2,145	62,215	8,534	53,881
MONTANA	59	2,756,036	4,018,519	\$2,551,159	1,607,305	\$185,690	592,113	15,300	147,824	2,927	129,974	14,317	115,657
Chouteau	3	5,627	25,046	13,701	11,441	—	1,580	680	—	—	3,719	—	3,719
Custer	3	9,733	15,009	13,260	10,219	—	2,908	125	—	—	—	—	—
Hill	4	6,759	23,596	16,103	15,801	—	1,632	475	—	—	2,085	463	1,622
Misselshell	14	757,947	1,593,319	1,022,311	704,625	69,583	153,359	4,901	77,823	2,040	57,269	1,034	56,235
Powder River	4	7,835	13,457	10,201	8,567	—	1,458	338	57	—	900	—	900
Other counties ³	51	1,988,135	2,548,289	1,466,588	858,552	107,107	421,017	8,781	69,944	887	66,001	11,920	54,081
NEW MEXICO	42	1,230,060	3,579,049	3,014,500	2,082,673	395,013	359,993	78,131	98,665	25	37,581	3,504	34,077
Colfax	14	645,407	1,771,225	1,381,958	906,816	234,257	149,648	5,354	85,861	—	13,235	800	12,435
McKinley	14	444,304	1,400,845	1,242,898	882,618	159,478	159,552	51,733	10,517	—	18,978	2,554	16,524
Sandoval	3	5,463	15,765	15,012	12,726	—	1,777	509	—	—	—	—	—
Bernalillo, Rio Arriba, San Juan, Santa Fe, and Socorro	11	134,886	391,214	374,634	280,513	21,278	50,016	20,535	2,267	25	5,468	150	5,318
OHIO	656	20,289,553	33,542,461	\$28,112,515	20,476,278	\$2,163,486	3,716,609	422,587	1,076,327	257,228	2,543,728	236,216	2,307,512
Athens	28	1,639,300	2,963,551	2,776,500	2,265,727	81,404	272,116	26,357	110,564	332	115,439	3,597	112,042
Belmont	43	5,027,230	8,121,621	7,104,180	5,659,643	554,023	742,284	22,769	320,094	6,367	322,271	41,961	280,310
Carroll	27	425,352	773,866	608,588	432,606	32,425	68,845	18,740	22,747	10,826	68,966	9,535	59,531
Columbiana	51	660,161	1,050,389	729,284	453,607	40,560	126,597	48,560	24,952	35,228	158,555	2,568	155,969
Coshocton	43	228,230	425,765	317,680	235,646	6,879	50,601	13,252	11,171	151	13,665	1,980	11,685
Gallia	6	29,867	58,170	40,848	34,632	600	4,324	1,158	134	—	—	—	—
Guernsey	20	527,537	841,711	767,141	597,889	21,941	102,471	1,874	43,166	—	39,704	1,278	38,426
Harrison	20	2,581,352	3,533,991	2,744,052	1,967,454	141,282	454,647	40,809	100,935	38,925	151,312	31,289	120,023
Hocking	25	228,911	396,155	321,900	260,005	10,865	33,845	5,243	11,944	—	5,446	1,545	1,901
Holmes	9	54,813	73,730	56,828	50,010	—	5,250	725	641	—	809	409	400
Jackson	27	192,375	437,583	332,680	267,902	12,315	45,542	2,510	4,411	—	27,384	850	26,534
Jefferson	55	4,651,838	7,235,676	5,948,335	4,315,074	299,346	966,306	77,805	229,795	60,009	908,829	22,658	886,171
Lawrence	14	72,312	144,547	99,598	81,894	2,134	13,933	434	1,203	—	2,800	500	2,300
Mahoning	20	433,978	781,058	448,272	247,026	61,569	97,683	21,240	13,903	8,851	70,278	—	70,278
Medina	3	4,814	10,376	8,356	7,029	—	826	451	50	—	—	—	—
Meigs	24	170,984	272,875	221,669	175,350	5,633	26,724	2,374	11,588	—	10,125	1,950	8,175
Muskingum	35	915,433	1,521,001	1,219,059	873,790	86,257	190,375	27,743	40,819	75	6,795	3,470	3,425
Perry	65	767,961	1,374,036	1,168,280	945,886	18,380	129,909	13,605	58,455	2,025	60,008	19,604	40,404
Portage	3	47,977	103,274	60,794	47,374	502	6,439	2,601	3,878	—	69,327	2,500	66,827
Stark	34	576,925	1,136,793	861,281	405,280	44,278	107,220	42,958	7,706	55,839	173,587	26,864	146,723
Tuscarawas	85	885,571	1,683,294	1,296,497	909,755	52,469	211,050	40,546	47,568	35,109	213,180	20,203	192,957
Vinton	15	103,117	203,214	152,839	95,430	2,490	44,020	9,845	1,054	—	19,910	3,666	16,244
Hamilton, Morgan, Noble, Washington, and Wayne	10	63,555	199,785	441,801	110,370	299,639	15,604	1,008	9,669	5,511	107,178	40,291	66,887
OKLAHOMA	88	1,187,582	2,504,489	2,012,106	1,222,458	171,106	429,234	38,296	126,021	24,991	135,972	5,922	128,050
Coal	7	17,941	49,673	41,380	36,083	—	3,593	103	1,601	—	349	200	149
Craig	3	8,288	18,785	14,806	9,123	—	4,352	1,025	6	800	3,195	310	2,885
Latimer	3	6,794	17,629	21,382	6,062	3,791	10,865	395	269	—	—	—	—
Le Flore	29	219,253	577,959	503,659	341,520	34,229	91,394	4,126	32,002	588	6,960	1,800	5,660
Muskogee	4	6,797	17,840	12,549	10,782	—	1,181	598	—	—	—	—	—
Oklmulgee	9	231,575	433,608	346,581	221,607	44,321	51,474	1,698	24,811	2,670	11,529	800	10,729
Pittsburg	16	159,689	425,130	388,084	263,269	27,959	76,373	7,121	13,362	—	1,212	—	5,515
Tulsa	6	38,010	80,540	69,596	44,516	5,517	15,192	1,100	3,271	—	1,180	1,000	180
Haskell and Sequoyah	4	75,315	150,777	124,200	80,824	7,046	25,479	5,921	1,930	3,000	59,480	318	59,162
Rogers and Wagoner	5	423,900	732,548	489,869	208,672	48,243	149,331	16,221	48,769	18,633	44,554	782	43,772
PENNSYLVANIA	1,258	92,584,113	188,925,306	\$156,612,184	116,996,537	\$12,449,367	19,350,490	1,189,293	5,904,341	722,156	7,364,182	1,275,792	6,088,390
Allegheny	155	12,922,910	25,171,151	23,440,017	15,931,796	3,634,628	2,688,210	139,026	926,141	120,214	1,011,021	53,816	957,205
Armstrong	29	2,845,689	5,367,795	4,623,598	3,823,598	257,206	576,118	21,300	143,409	1,949	183,255	11,886	171,369
Beaver	23	664,275	1,289,839	827,173	458,298	58,360	242,413	55,960	14,142	—	204,236	3,732	200,504
Bedford	18	321,727	787,124	607,481	502,005	38,366	41,843	3,634	21,633	—	6,245	265	5,980
Blair	14	150,248	343,568	304,632	234,097	25,754	24,726	481	17,356	2,238	12,671	7,528	5,543
Butler	57	606,367	1,233,862	1,019,684	819,916	29,990	105,910	7,633	55,344	691	51,044	15,683	35,161
Cambria	177	13,784,840	30,474,660	26,409,276	20,183,247	1,597,784	3,190,599	309,235	969,865	178,546	1,306,443	400,595	905,848
Centre	38	426,383	820,425	668,629	529,039	33,389	67,266	1,433	34,694	2,808	12,952	5,789	7,163
Clarion	35	1,367,275	2,391,001	1,963,598	1,461,166	73,987	306,909	26,005	61,942	33,579	218,846	9,557	209,491
Clearfield	117	2,909,578	5,833,731	5,094,552	4,005,939	219,651	552,340	34,302	216,615	65,705	79,688	17,225	62,463
Clinton	10	41,740	82,251	58,294	45,679	4,169	6,578	161	1,687	—	1,000	—	1,000

See footnotes at end of table.

MINERAL INDUSTRIES

TABLE 26.—PRODUCTION, VALUE OF PRODUCTS, AND REPORTED PRINCIPAL EXPENSES OF THE BITUMINOUS-COAL INDUSTRY IN THE UNITED STATES, BY STATE AND BY COUNTY: 1939¹—Continued
(For producing operations only)

STATE AND COUNTY	Number of mines	Production of coal (tons of 2,000 pounds)	Value of all products	PRINCIPAL EXPENSES DESIGNATED BELOW							COST OF BUILDINGS ERECTED AND MACHINERY AND EQUIPMENT INSTALLED DURING YEAR		
				Total	Wages	Salaries	Supplies and materials	Fuel	Purchased electric energy	Contract work	Total	Buildings	Machinery and equipment
PENNA.—Con.													
Fayette	107	15,672,679	\$34,654,832	\$23,841,059	\$18,370,343	\$1,133,499	\$3,312,048	\$83,822	\$927,567	\$13,760	\$869,177	\$32,398	\$856,779
Greene	14	3,939,134	8,724,719	7,124,899	5,074,430	413,809	1,234,236	32,633	363,255	5,836	630,514	252,235	378,279
Huntingdon	10	467,100	1,112,937	1,031,645	799,362	35,388	96,347	9,948	55,698	4,902	32,197	21,872	10,325
Indiana	42	5,827,092	10,508,010	10,004,769	7,402,568	1,036,323	1,236,209	89,987	208,445	29,257	1,180,352	312,115	868,237
Jefferson	37	1,743,989	3,431,337	2,694,252	2,219,260	143,415	265,756	20,533	44,948	340	113,588	3,702	109,886
Lycoming	9	55,601	122,998	104,457	79,966	5,006	10,374	1,116	549	7,448	2,672	2,672	—
Mercer	14	217,521	469,109	353,576	268,857	19,775	40,486	12,614	11,594	250	27,437	850	26,587
Somerset	106	4,400,865	9,422,210	7,586,325	6,011,622	411,819	751,212	104,903	283,862	2,907	164,996	540	164,456
Tioga	14	246,940	607,947	444,543	326,571	13,667	69,590	20,048	12,985	1,682	87,476	1,739	85,737
Venango	5	51,794	91,738	73,929	53,512	7,050	10,015	2,177	642	533	21,943	1,950	19,993
Washington	84	15,484,985	29,982,118	24,032,150	18,298,809	1,298,178	3,044,156	87,154	1,071,654	232,199	755,931	27,703	728,228
Westmoreland	115	7,329,434	13,582,630	10,863,469	8,484,695	661,672	1,281,793	72,355	367,915	14,839	512,164	30,576	281,588
Crawford and Lawrence	8	281,878	766,185	663,991	509,273	67,851	52,959	5,375	28,533	—	10,621	325	10,296
Bradford, Cameron, Elk, Forest, Fulton, and Warren	22	824,039	1,653,129	1,678,473	1,322,487	98,010	142,597	49,258	63,846	2,275	67,511	61,039	6,472
TENNESSEE													
Anderson	123	5,185,481	10,104,223	\$8,646,377	6,580,669	\$731,935	977,572	57,994	290,026	8,181	481,670	69,745	411,925
Campbell	14	977,476	1,970,449	1,629,624	1,243,238	111,279	197,180	17,158	55,814	4,955	49,580	7,412	42,168
Claiborne	30	1,367,226	2,810,564	2,282,763	1,790,716	128,528	282,334	3,257	77,928	—	287,033	36,645	250,388
Cumberland	11	1,222,576	2,292,789	1,913,237	1,511,287	101,013	219,155	3,214	78,568	—	49,293	4,006	45,287
Hamilton	4	9,272	17,131	12,157	10,023	—	1,986	94	54	—	100	—	100
Hamilton	7	23,707	43,088	40,067	33,710	1,200	4,468	389	—	300	2,050	2,000	50
Putnam	3	21,951	41,358	32,395	24,390	2,007	4,888	246	864	—	—	—	—
Scott	10	126,909	239,186	198,647	148,992	15,116	24,630	5,248	4,661	—	1,465	715	750
White	4	6,435	12,372	9,678	7,775	—	1,332	481	90	—	300	300	—
Fentress, Morgan, and Overton	16	505,827	772,390	719,265	547,646	44,948	79,376	20,523	23,846	2,926	65,919	6,300	59,619
Blount, Grundy, Marion, Rhea, Sequatchie, and Van Buren	24	924,102	1,905,698	1,744,516	1,262,692	233,816	162,223	7,584	48,201	—	25,930	12,367	13,563
TEXAS*	4	16,259	52,470	44,643	34,497	2,853	5,165	1,033	1,095	—	653	—	653
UTAH	51	3,284,904	7,025,257	\$5,146,415	3,308,153	\$645,529	884,754	16,694	313,285	—	930,564	157,150	773,414
Carbon	27	2,601,874	5,608,396	3,964,994	2,718,549	317,682	682,451	5,759	242,583	—	789,889	138,539	651,350
Summit	4	29,544	58,479	48,546	39,375	788	5,980	341	2,062	—	—	—	—
Emery, Grand, Iron, Sevier, and Uintah	20	653,486	1,358,362	862,545	552,229	54,739	176,323	10,594	68,680	—	140,675	18,611	122,064
VIRGINIA	112	13,530,974	24,993,885	\$20,784,624	15,781,303	\$1,365,086	2,737,682	46,491	832,621	21,461	652,717	53,174	599,543
Buchanan	16	4,280,775	7,619,425	5,296,122	4,108,216	185,065	814,791	773	187,277	—	295,441	6,675	288,766
Dickenson	7	1,551,888	2,613,137	2,399,368	1,972,020	69,097	252,213	1,877	104,161	—	40,927	9,560	32,367
Lee	22	1,196,100	2,429,562	2,001,547	1,620,051	88,240	202,452	6,567	82,457	1,800	128,748	21,238	107,510
Tazewell	14	2,787,984	5,266,301	4,694,579	3,520,111	453,552	690,711	13,844	203,781	12,630	16,400	25	16,375
Wise	30	2,940,580	5,480,145	4,755,011	3,507,442	384,333	634,874	10,940	210,391	7,031	169,479	16,006	153,473
Montgomery and Pulaski	5	152,967	299,603	248,983	190,427	14,800	32,229	2,202	9,325	—	—	—	—
Russell and Scott	18	650,699	1,285,712	1,169,769	863,036	150,574	110,612	10,288	35,279	—	1,722	670	1,052
WASHINGTON	52	1,690,442	5,261,681	\$4,158,798	2,947,264	\$305,963	677,881	48,393	175,425	3,872	77,351	31,395	45,956
King	24	621,202	2,046,496	1,670,517	1,137,580	154,864	287,503	6,759	81,128	2,685	46,634	25,530	21,104
Lewis	6	33,685	85,559	65,826	49,709	3,000	6,311	1,622	3,184	—	3,214	—	3,214
Pierce	10	39,213	135,694	116,429	89,889	2,617	19,019	662	4,242	—	593	450	143
Kittitas, Thurston, and Whatcom	12	996,334	2,993,942	2,299,376	1,670,086	139,632	365,048	39,350	66,873	1,187	26,910	5,415	21,495
WEST VIRGINIA	721	108,361,934	190,668,091	\$159,017,383	119,563,909	\$8,917,376	22,774,730	604,768	6,601,801	354,799	7,987,806	894,250	7,093,556
Barbour	12	1,427,718	2,342,028	1,863,967	1,536,543	62,381	216,093	1,967	66,853	130	33,663	8,334	25,329
Boone	19	3,247,461	5,626,107	4,903,402	3,702,475	281,499	537,963	4,005	221,629	155,831	519,316	84,968	434,348
Brooke	26	1,533,388	2,603,037	1,811,541	1,234,748	66,462	402,054	15,604	86,400	6,273	132,816	20,098	112,718
Fayette	67	11,086,940	22,446,722	19,129,672	14,671,583	1,053,086	2,426,650	45,782	892,421	40,150	803,280	43,865	759,415
Greenbrier	19	1,487,479	2,766,861	2,338,632	1,791,085	117,691	298,125	2,763	121,512	5,456	72,369	731	71,638
Hancock	7	256,747	288,326	198,552	125,255	23,137	27,147	19,105	3,908	—	42,461	7,000	35,461
Harrison	31	3,342,034	5,330,793	4,368,728	3,325,016	264,910	600,450	5,476	166,582	8,294	457,674	61,587	396,087
Kanawha	47	6,337,904	11,161,858	9,355,850	7,299,131	461,855	1,151,537	7,427	436,100	—	408,883	78,796	330,087
Logan	60	14,837,071	23,622,133	17,825,428	12,670,467	1,125,798	2,888,363	13,234	901,351	26,198	1,027,566	66,939	960,627
McDowell	73	20,329,630	37,403,655	30,363,632	22,996,261	1,590,312	4,580,635	205,938	961,207	37,259	852,858	57,191	795,667
Marion	26	7,978,778	12,731,061	11,701,467	8,688,922	869,450	1,628,554	66,620	447,284	637	549,060	9,360	539,700
Mason	10	71,249	119,667	124,763	103,094	2,556	10,417	1,726	6,970	—	400	—	400
Mercer	15	3,009,399	5,442,352	4,747,453	3,462,669	425,437	623,420	1,618	229,791	4,518	145,334	24,133	121,201
Mineral	8	172,955	413,591	375,825	309,066	19,839	33,079	387	9,754	3,700	869	300	569
Kingo	20	3,048,645	4,694,779	4,443,256	3,357,775	233,593	587,723	35	254,676	9,454	154,591	35,536	119,053
Monongalia	40	6,618,702	8,978,644	7,524,144	5,130,940	298,151	1,591,949	4,421	497,664	1,019	958,988	145,707	813,281
Nicholas	18	57,219	86,112	59,115	49,666	—	7,280	895	355	—	5,142	50	5,092
Preston	32	612,689	1,099,803	842,538	641,660	42,726	116,510	4,010	29,519	8,113	78,994	21,692	57,302
Raleigh	78	13,206,894	24,821,114	21,331,333	16,280,490	1,082,479	2,901,333	78,320	957,246	31,485	838,373	113,412	724,961
Randolph	18	1,014,602	1,907,613	1,646,027	1,152,495	69,460	226,506	26,192	10,545	829	47,647	16,283	31,364
Taylor	12	418,693	880,805	645,615	505,555	46,780	56,133	119	36,928	—	—	—	—
Upshur	7	68,800	101,470	99,011	77,671	8,182	10,395	2,716	47	—	2,080	1,000	1,080

See footnotes at end of table.

TABLE 26.—PRODUCTION, VALUE OF PRODUCTS, AND REPORTED PRINCIPAL EXPENSES OF THE BITUMINOUS-COAL INDUSTRY IN THE UNITED STATES, BY STATE AND BY COUNTY: 1939¹—Concluded

(For producing operations only)

STATE AND COUNTY	Number of mines	Production of coal (tons of 2,000 pounds)	Value of all products	PRINCIPAL EXPENSES DESIGNATED BELOW							COST OF BUILDINGS ERRECTED AND MACHINERY AND EQUIPMENT INSTALLED DURING YEAR		
				Total	Wages	Salaries	Supplies and materials	Fuel	Purchased electric energy	Contract work	Total	Buildings	Machinery and equipment
WEST VA.—Con.													
Wayne-----	3	26,897	\$44,755	\$36,042	\$28,382	\$1,100	\$5,007	\$475	\$1,078	-----	-----	-----	-----
Wyoming-----	17	2,744,287	5,528,245	4,873,018	3,655,224	289,754	711,783	42,173	166,547	\$7,537	\$489,457	\$75,008	\$414,449
Clay and Putnam-----	12	1,553,722	2,918,183	2,666,108	1,933,735	177,131	462,710	19,659	72,873	-----	66,432	1,655	64,777
Grant and Tucker-----	9	528,896	1,149,941	869,902	704,461	36,790	106,201	21,724	726	-----	31,793	-----	31,793
Marshall and Ohio-----	17	2,080,317	3,523,326	2,982,538	2,311,110	115,067	392,653	6,889	156,819	-----	162,252	1,976	160,274
Braxton, Gilmer, Lewis, and Webster-----	18	1,063,158	2,219,230	1,753,592	1,458,410	43,441	174,240	5,488	65,016	6,997	105,288	18,625	86,663
WYOMING-----	66	5,373,289	11,078,017	8 7,777,029	5,390,056	3 662,473	1,301,703	157,415	254,777	10,605	465,011	14,443	450,568
Converse-----	4	15,719	30,706	23,283	17,261	-----	5,228	657	117	-----	250	-----	250
Hot Springs-----	8	59,361	179,320	127,678	104,116	4,487	11,141	1,758	4,996	1,200	10,463	4,279	6,184
Other counties*-----	54	5,298,209	10,867,991	7,621,268	5,268,659	653,206	1,285,334	155,000	249,664	9,405	454,298	10,164	444,134
ARIZONA, GEORGIA, IDAHO, AND OREGON ¹⁰	6	39,021	115,683	98,802	83,525	2,715	10,611	1,511	440	-----	5,244	330	4,914

¹ For definition of the industry see footnote 1 to tables 1 and 2.² Includes \$555,791 representing compensation of employees at central offices in Minnesota and New York.³ Includes amounts paid to employees at central offices in counties in which no bituminous coal was mined.⁴ Adams, Bond, Bureau, Christian, Clinton, Crawford, Edgar, Greene, Hancock, Henry, Jackson, Jefferson, Logan, Macon, Marion, Morgan, Scott, Warren, Washington, White, Will, and Woodford.⁵ Breathitt, Carter, Elliott, Johnson, Lawrence, McCreary, Magoffin, Martin, Morgan, Owsley, Pulaski, and Wolfe.⁶ Barton, Bates, Callaway, Chariton, Clark, Dade, Daviess, Grundy, Howard, Jasper, Johnson, Lincoln, Macon, Monroe, Morgan, Platte, Ralls, and Warren.⁷ Blaine, Carbon, Cascade, Fergus, Flathead, Gallatin, Judith Basin, Park, Phillips, Pondera, and Rosebud.⁸ Palo Pinto, Webb, and Wise Counties.⁹ Campbell, Carbon, Crook, Fremont, Johnson, Lincoln, Natrona, Sheridan, Sweetwater, and Uinta.¹⁰ Arizona: Coconino and Navajo Counties; Georgia: Dade and Walker; Idaho: Teton; and Oregon: Coos.

MINERAL INDUSTRIES

TABLE 27.—PRODUCTION, EMPLOYMENT, AND OUTPUT PER MAN IN THE BITUMINOUS-COAL INDUSTRY IN THE UNITED STATES, BY STATE AND BY COUNTY: 1939¹

(For producing operations only)

STATE AND COUNTY	Number of mines	Production of coal (tons of 2,000 pounds)	NUMBER OF PERSONS ENGAGED					AVERAGE NUMBER OF WAGE EARNERS AND WORKING PROPRIETORS ON ACTIVE DAYS				TOTAL NUMBER OF MAN-SHIFTS AND MAN-HOURS WORKED BY WAGE EARNERS AND WORKING PROPRIETORS		NUMBER OF MAN-SHIFTS AND MAN-HOURS WORKED BY WAGE EARNERS AND WORKING PROPRIETORS ON ACTIVE DAYS		TONS OF COAL PRODUCED ON ACTIVE DAYS PER—			
			Total	Wage earners (average for the year, including inactive periods)	Salaried employees	Proprietors and firm members		Total	Underground	On surface		Man-shifts	Man-hours	Average number of hours worked per shift	Man-shifts	Man-hours	Average number of full days mines were active	Man-shift	Man-hour
						Total	Per-forming manual labor			In strip pits	All others								
UNITED STATES	5,686	391,728,862	293,308	369,156	219,656	4,496	3,270	419,811	352,319	8,454	59,038	77,729,951	546,120,261	7.0	74,822,486	525,630,246	178	5.24	0.745
ALABAMA	231	12,046,675	20,105	19,178	728	199	150	20,884	17,943	90	2,851	3,961,624	27,776,037	7.0	3,811,442	26,726,335	183	3.16	0.451
Bibb	11	618,244	1,272	1,208	60	4	2	1,267	1,090	14	163	233,505	1,634,521	7.0	228,581	1,600,067	180	2.70	0.386
Blount	10	129,223	336	321	4	11	9	405	341	17	47	72,965	510,355	7.0	71,992	503,544	178	1.79	0.257
Cherokee	3	12,441	26	23	—	—	—	27	23	—	4	5,888	41,216	7.0	5,888	41,216	218	2.11	0.302
Cullman	10	34,420	150	116	1	13	9	151	132	—	19	24,259	169,813	7.0	24,259	169,813	161	1.42	0.203
Etowah	6	22,513	53	47	—	—	6	76	66	—	10	9,863	69,041	7.0	9,863	69,041	130	2.28	0.326
Jefferson	63	7,107,707	11,282	10,766	473	43	31	11,571	10,110	—	1,461	2,245,159	15,722,541	7.0	2,155,926	15,111,909	186	3.30	0.470
Madison	19	249,559	542	505	14	23	19	604	520	6	78	97,872	688,240	7.0	94,229	682,739	158	2.65	0.377
Shelby	22	391,914	891	829	42	20	16	942	776	—	166	160,751	1,128,698	7.0	156,958	1,101,275	187	2.60	0.355
Tuscaloosa	21	123,842	291	262	7	22	16	324	275	6	43	59,106	418,982	7.1	59,802	416,854	181	2.11	0.297
Walker	52	2,277,824	3,462	3,308	111	43	36	3,742	3,169	47	526	641,811	4,492,907	7.0	610,075	4,273,190	163	3.73	0.533
De Kalb, Fayette, Jackson, Madison, St. Clair, and Winston	14	1,078,988	1,820	1,793	16	11	6	1,775	1,441	—	334	412,447	2,899,723	7.0	394,871	2,776,687	222	2.75	0.389
ARKANSAS	78	1,152,038	2,801	2,614	145	42	30	4,004	3,362	45	597	445,592	3,130,658	7.0	427,271	3,002,304	107	2.70	0.384
Franklin	8	112,644	293	273	17	3	1	468	397	17	54	48,591	346,437	7.1	46,816	334,012	100	2.41	0.337
Johnson	17	194,007	372	357	22	13	8	634	523	—	111	74,788	523,616	7.0	70,579	494,053	111	2.75	0.393
Logan	19	359,363	1,057	1,006	46	5	4	1,341	1,130	—	211	149,468	1,049,698	7.0	144,491	1,014,852	108	2.49	0.354
Sebastian	31	428,238	909	854	55	20	16	1,314	1,097	28	189	139,730	979,802	7.0	134,903	946,013	103	3.17	0.453
Pope and Scott	5	57,786	170	164	5	1	1	247	215	—	32	33,015	231,105	7.0	30,482	213,374	123	1.90	0.271
COLORADO	211	5,923,210	8,294	7,607	3507	180	139	8,161	6,782	(4)	(4)	1,528,292	10,702,959	7.0	1,439,069	10,072,008	176	4.12	0.588
Boulder	18	608,433	807	758	34	14	14	779	671	—	108	180,439	1,263,902	7.0	172,218	1,205,540	221	3.53	0.505
Delta	8	61,814	90	73	8	9	9	82	60	—	22	16,468	117,529	7.1	16,468	117,529	201	3.74	0.524
Elbert	3	8,025	11	8	—	—	—	14	12	—	2	2,722	19,054	7.0	2,722	19,054	194	2.95	0.421
Fremont	31	510,007	839	760	52	27	20	813	696	—	117	156,171	1,095,742	7.0	150,051	1,052,380	185	3.40	0.485
Garfield	7	37,978	49	36	4	9	7	45	35	—	10	9,955	72,128	7.2	9,955	72,128	221	3.81	0.527
Gunnison	12	530,425	623	575	38	10	9	561	465	—	96	104,806	736,214	7.0	94,178	659,843	168	5.63	0.804
Huerfano	23	615,167	955	897	42	16	13	967	796	—	171	169,294	1,188,133	7.0	158,576	1,110,536	164	3.88	0.554
La Plata	9	28,195	48	35	—	—	—	47	37	—	10	9,906	66,428	6.7	9,906	66,428	211	2.85	0.424
Las Animas	27	1,067,136	1,583	1,498	63	24	17	1,597	1,395	—	202	276,137	1,931,931	7.0	262,239	1,834,634	164	4.07	0.582
Mesa	13	77,464	125	103	3	19	15	120	102	—	18	21,551	151,265	7.0	21,039	147,681	175	3.68	0.525
Moffat	4	55,900	54	47	—	—	—	47	37	—	10	11,180	82,701	7.4	11,077	81,979	236	5.05	0.682
Routt	15	727,440	1,174	1,129	39	6	2	1,186	914	—	272	196,596	1,378,982	7.0	177,396	1,237,280	150	4.10	0.588
Weld	19	1,134,630	1,282	1,219	57	6	5	1,413	1,174	—	239	257,856	1,806,459	7.0	241,929	1,694,968	171	4.69	0.689
El Paso, Jackson, Jefferson, and Larimer	16	428,360	468	411	44	13	11	428	353	(4)	(4)	97,690	669,503	6.9	94,814	648,740	222	4.52	0.660
Archuleta, Montezuma, Montrose, Pitkin, Pueblo, and Rio Blanco	6	32,418	87	59	4	4	3	62	35	—	27	15,521	123,288	7.9	15,521	123,288	250	2.09	0.283
ILLINOIS	546	46,782,691	533,907	51,013	32,395	499	376	35,894	27,198	1,761	6,935	8,289,257	44,167,453	7.0	5,866,034	41,185,180	165	7.98	1.136
Franklin	12	8,319,649	6,365	5,932	433	—	—	6,242	4,797	—	1,445	1,052,056	7,389,306	7.0	897,658	6,294,759	144	9.27	1.322
Fulton	59	3,793,139	1,323	1,197	64	62	47	1,353	639	267	447	292,637	2,103,694	7.2	284,254	2,043,199	210	13.34	1.856
Gallatin	4	48,571	81	71	4	6	2	79	66	—	13	14,801	109,746	7.4	14,596	108,105	185	3.33	0.449
Grundy	5	124,907	133	119	9	5	3	162	132	13	17	28,739	201,173	7.0	28,097	196,679	173	4.45	0.635
Knox	9	761,764	335	304	23	6	6	321	195	54	72	71,614	504,499	7.0	70,130	493,640	218	10.86	1.545
La Salle	12	367,235	496	462	29	5	2	590	433	82	75	106,877	745,148	7.0	102,690	716,155	174	3.58	0.513
Livingston	3	10,846	23	18	—	—	—	57	44	3	10	3,465	20,685	6.0	3,465	20,685	61	3.13	0.524
Macoupin	12	3,569,170	2,292	2,188	102	2	2	2,329	1,895	—	434	467,287	3,271,012	7.0	423,571	2,964,999	182	7.95	1.136
Madison	18	1,829,489	1,632	1,568	59	5	4	1,643	1,358	—	285	327,237	2,239,602	6.8	310,738	2,125,713	189	5.89	0.861
Menard	10	116,115	182	164	7	11	7	191	173	—	18	38,827	292,090	7.5	37,787	284,299	198	3.07	0.408
Monroe	7	25,365	50	41	—	—	9	73	64	—	9	9,488	63,916	6.7	9,488	63,916	130	2.87	0.397
Mercer	3	685,989	447	415	32	—	—	699	570	—	129	70,584	494,087	7.0	68,367	478,589	98	10.03	1.433
Montgomery	44	1,171,071	1,268	1,159	46	63	48	1,368	1,277	9	103	216,051	1,521,398	7.0	203,105	1,430,680	146	5.77	0.819
Peoria	21	3,169,686	1,524	1,405	106	13	10	1,460	697	423	340	291,963	2,061,188	7.1	279,838	1,975,761	192	11.33	1.604
Perry	12	1,231,918	590	547	31	2	1	564	339	55	170	96,531	682,163	7.1	91,798	648,720	163	13.42	1.899
Randolph	5	24,078	50	41	3	6	6	64	57	—	7	10,578	74,046	7.0	10,578	74,046	165	2.28	0.325
Rock Island	51	2,454,485	1,836	1,692	113	31	22	2,440	1,911	116	413	357,484	2,508,601	7.0	344,774	2,419,512	141	7.12	1.014
St. Clair	21	3,649,773	2,593	2,370	200	13	10	2,836	2,154	100	582	498,944	3,458,724	7.0	459,283	3,215,959	162	7.95	

TABLE 27.—PRODUCTION, EMPLOYMENT, AND OUTPUT PER MAN IN THE BITUMINOUS-COAL INDUSTRY IN THE UNITED STATES, BY STATE AND BY COUNTY: 1939¹—Continued

(For producing operations only)

STATE AND COUNTY	Number of mines	Production of coal (tons of 2,000 pounds)	NUMBER OF PERSONS ENGAGED					AVERAGE NUMBER OF WAGE EARNERS AND WORKING PROPRIETORS ON ACTIVE DAYS				TOTAL NUMBER OF MAN-SHIFTS AND MAN-HOURS WORKED BY WAGE EARNERS AND WORKING PROPRIETORS			NUMBER OF MAN-SHIFTS AND MAN-HOURS WORKED BY WAGE EARNERS AND WORKING PROPRIETORS ON ACTIVE DAYS			Average number of full days mines were active	TONS OF COAL PRODUCED ON ACTIVE DAYS PER—	
			Total	Wage earners (average for the year, including inactive periods)	Salaried employees	Proprietors and firm members		Total	Underground	On surface		Man-shifts	Man-hours	Average number of hours worked per shift	Man-shifts	Man-hours	Man-shift		Man-hour	
						Total	Performing manual labor			In strip pits	All others									
INDIANA—Con.																				
Dubois	5	14,172	25	18	---	7	7	27	24	---	3	5,120	32,820	6.4	5,120	32,820	190	2.77	0.432	
Fountain	11	32,591	68	53	1	14	5	99	31	51	17	11,640	87,934	7.6	11,640	87,934	118	2.80	0.371	
Greene	31	2,147,834	973	894	57	22	16	1,093	358	398	339	211,227	1,500,094	7.1	197,655	1,403,727	161	10.87	1.550	
Knox	14	2,122,107	1,159	1,106	47	6	2	1,198	887	22	289	230,903	1,659,718	7.1	207,633	1,476,632	173	10.22	1.437	
Martin	5	18,765	39	33	---	6	6	45	39	---	6	8,885	65,395	7.4	8,885	65,395	197	2.11	0.287	
Parke	13	132,949	191	173	1	17	13	208	165	6	37	39,956	279,414	7.0	38,524	289,361	185	3.45	0.494	
Perry	6	26,844	45	38	---	7	5	43	38	---	5	9,554	66,878	7.0	9,554	66,878	222	2.81	0.401	
Pike	20	3,396,684	992	911	66	15	13	975	101	454	420	240,163	1,706,140	7.1	205,294	1,462,054	211	16.55	2.323	
Sullivan	23	1,498,804	1,078	1,024	59	15	9	1,162	789	155	218	184,513	1,309,179	7.1	163,230	1,161,498	140	9.18	1.290	
Vermillion	13	487,621	454	428	20	6	5	456	328	46	82	74,866	530,205	7.1	71,924	508,164	158	6.78	0.980	
Vigo	32	3,279,406	1,852	1,705	124	23	20	1,774	1,219	207	348	394,429	2,761,688	7.0	375,908	2,631,141	212	8.72	1.248	
Warren	3	5,359	17	13	---	4	4	21	18	---	3	4,056	28,392	7.0	4,056	28,392	193	1.32	0.189	
Warrick	29	1,251,760	674	614	33	27	19	705	305	222	178	130,768	950,376	7.3	129,603	942,207	184	9.66	1.329	
Gibson, Owen, Spencer, and Vanderburgh	12	1,149,224	809	781	21	7	4	1,020	809	71	140	127,192	895,828	7.0	125,780	885,944	123	9.14	1.297	
IOWA	271	2,947,557	5,037	4,565	209	263	197	6,251	5,220	322	709	940,568	6,709,735	7.1	920,226	6,566,894	147	3.20	0.449	
Adams	9	17,561	61	50	---	11	11	90	78	---	12	12,196	94,448	7.7	12,196	94,448	135	1.44	0.188	
Appanoose	58	344,055	1,015	930	33	52	40	1,338	1,197	---	141	160,275	1,157,200	7.2	157,455	1,137,461	118	2.19	0.302	
Boone	13	248,808	505	465	38	2	1	806	540	---	66	90,865	636,055	7.0	90,141	630,987	149	2.76	0.394	
Dallas	3	389,637	632	614	18	---	---	639	596	---	43	129,417	905,619	7.0	125,079	875,553	196	3.12	0.445	
Greene	5	20,808	41	34	3	4	4	66	43	11	12	5,680	41,580	7.1	5,760	40,740	87	3.61	0.511	
Guthrie	4	24,338	84	80	1	3	3	108	98	---	10	16,799	128,732	7.7	16,534	126,612	153	1.47	0.192	
Jasper	5	27,792	59	49	6	4	4	89	68	6	15	8,210	58,180	7.1	7,489	53,410	84	3.72	0.520	
Mahaska	23	270,781	234	200	10	24	19	285	87	135	63	46,953	341,878	7.3	46,330	336,899	163	5.84	0.804	
Marion	59	529,696	612	525	17	70	49	723	536	95	92	132,540	959,208	7.2	132,138	956,493	135	4.01	0.554	
Monroe	16	103,612	203	186	10	7	6	301	256	7	38	34,029	245,662	7.2	33,289	240,485	111	5.11	0.431	
Page	6	35,611	78	67	5	6	4	98	88	---	10	17,351	121,457	7.0	17,351	121,457	177	2.05	0.293	
Polk	13	308,920	596	543	44	9	3	715	654	5	58	103,539	725,565	7.0	97,922	686,045	137	3.15	0.450	
Van Buren	6	18,355	36	29	---	7	6	39	26	7	6	7,374	55,994	7.8	7,374	55,994	189	2.49	0.328	
Wapello	27	180,930	237	199	2	36	25	336	258	24	54	47,538	342,433	7.2	47,181	339,712	140	3.84	0.533	
Warren	6	67,015	112	100	9	3	3	160	112	21	27	18,430	129,013	7.0	17,252	120,765	108	3.88	0.555	
Wayne	5	24,230	79	69	---	10	6	102	89	---	13	17,185	120,295	7.0	17,185	120,295	168	1.41	0.201	
Webster	4	36,079	45	41	---	4	2	73	59	5	9	10,754	74,921	7.0	10,754	74,921	147	3.55	0.487	
Davis, Jefferson, Lucas, and Taylor	11	299,539	408	384	13	11	11	483	435	6	42	81,233	571,395	7.0	78,838	554,617	163	3.80	0.540	
KANSAS	93	2,674,691	2,597	2,376	124	97	84	2,858	1,772	525	561	530,905	3,766,900	7.1	509,791	3,618,447	178	5.25	0.739	
Crawford	42	1,725,651	1,471	1,345	93	33	27	1,614	1,009	307	298	268,973	1,890,404	7.0	249,201	1,751,601	154	6.92	0.965	
Franklin	4	16,686	45	39	---	6	6	47	41	---	6	8,442	59,094	7.0	8,442	59,094	180	1.97	0.282	
Labette	4	10,756	16	11	---	5	4	18	8	7	3	2,941	22,828	7.8	2,941	22,828	163	3.65	0.470	
Linn	8	16,904	48	39	---	9	8	64	53	3	8	9,019	64,819	7.2	9,019	64,819	141	1.87	0.261	
Osage	19	79,151	255	229	---	26	23	349	292	16	41	57,389	408,327	7.1	56,858	404,612	163	1.39	0.196	
Bourbon, Cherokee, and Leavenworth	16	825,589	762	713	31	18	16	766	569	192	205	184,141	1,321,428	7.2	183,330	1,315,495	239	4.50	0.628	
KENTUCKY	478	42,556,568	34,972	46,826	32,000	246	170	50,641	43,881	95	6,867	9,375,987	66,080,265	7.0	9,097,560	64,124,141	180	4.68	0.664	
Bell	49	1,620,896	2,528	2,368	150	30	22	2,856	2,486	---	370	489,059	3,500,258	7.2	477,511	3,417,847	167	3.40	0.474	
Boyd	9	25,655	79	71	---	8	4	89	78	---	11	16,225	119,485	7.4	16,225	119,485	182	1.58	0.215	
Butler	6	11,286	44	38	---	6	5	50	44	---	6	6,770	49,200	7.3	6,770	49,200	135	1.67	0.229	
Clay	9	174,037	389	377	6	6	2	440	379	6	55	88,374	646,098	7.3	88,060	645,586	200	1.98	0.270	
Daviess	17	108,971	137	120	2	15	12	160	160	---	20	28,383	221,103	7.8	28,025	218,239	156	3.89	0.499	
Floyd	23	4,517,275	5,235	5,050	203	2	1	5,384	4,835	---	701	1,015,765	7,120,856	7.0	998,829	6,999,905	186	4.52	0.645	
Greenup	3	3,798	10	8	---	4	3	21	18	---	3	1,620	11,340	7.0	1,620	11,340	77	2.34	0.335	
Harlan	52	12,261,012	13,751	13,241	506	4	4	13,598	12,035	---	1,563	2,773,947	19,434,029	7.0	2,685,292	18,812,669	197	4.57	0.652	
Henderson	12	104,138	167	144	13	10	9	204	170	---	34	50,515	214,305	7.0	28,827	201,769	141	3.61	0.516	
Hopkins	52	3,708,145	3,099	2,897	173	29	19	3,214	2,609	70	535	528,557	3,795,952	7.2	518,088	3,736,120	161	7.16	0.995	
Jackson	8	205,255	465	448	13	4	2	462	400	---	62	90,369	684,711	7.6	90,309	684,231	195	2.27	0.300	
Knott	4	433,536	531	508	23	---	---	590	519	---	71	82,202	575,414	7.0	80,983	566,881	137	5.55	0.765	
Knox	6	648,184	927	897	29	1	1	913	829	---	94	213,010	1,559,054	7.2	217,752	1,557,248	239	2.98	0.416	
Laurel	13	50,148	116	100	1	15	11	144	126	---	18	24,461	172,687	7.1	24,461	172,687	170	2.05	0.280	
Lee	7	17,906	42	35	---	7	5	57	50	---	7	8,921	65,207	7.3	8,921	65,207	177	2.01	0.275	
Letcher	20	3,762,298	4,396	4,185	209	2	2	4,841	4,224	---	617	895,065	6,266,191	7.0	853,361	5,974,265	176	4.41	0.630	
Mc																				

(For producing operations only)

See footnotes at end of table.

BITUMINOUS COAL

277

TABLE 27.—PRODUCTION, EMPLOYMENT, AND OUTPUT PER MAN IN THE BITUMINOUS-COAL INDUSTRY IN THE UNITED STATES, BY STATE AND BY COUNTY: 1939¹—Continued

(For producing operations only)

STATE AND COUNTY	Number of mines	Production of coal (tons of 2,000 pounds)	NUMBER OF PERSONS ENGAGED					AVERAGE NUMBER OF WAGE EARNERS AND WORKING PROPRIETORS ON ACTIVE DAYS					TOTAL NUMBER OF MAN-SHIFTS AND MAN-HOURS WORKED BY WAGE EARNERS AND WORKING PROPRIETORS					NUMBER OF MAN-SHIFTS AND MAN-HOURS WORKED BY WAGE EARNERS AND WORKING PROPRIETORS ON ACTIVE DAYS					Average number of full days mines were active	TONS OF COAL PRODUCED ON ACTIVE DAYS PER—	
			Total	Wage earners (average for the year, including inactive periods)	Salaried employees	Proprietors and firm members		Total	Underground	On surface		Man-shifts	Man-hours	Average number of hours worked per shift	Man-shifts	Man-hours	Man-shifts	Man-hours	Man-shift	Man-hour					
						Total	Performing manual labor			In strip pits	All others														
OKLAHOMA	88	1,187,562	1,585	1,409	113	63	44	2,032	1,510	144	378	285,001	2,053,178	7.2	270,561	1,948,926	135	4.39	0.609						
Coal	7	17,941	47	40	-----	7	7	58	51	-----	7	8,951	65,385	7.3	8,951	65,385	154	2.00	0.274						
Craig	3	8,288	16	12	-----	4	4	18	-----	14	4	3,253	26,024	8.0	3,253	26,024	181	2.55	0.318						
Latimer	3	6,794	17	11	2	4	1	24	19	-----	5	2,480	16,180	6.5	2,480	16,180	103	2.74	0.420						
Le Flore	29	219,253	552	492	38	22	15	838	707	-----	131	83,324	583,270	7.0	81,171	568,196	97	2.70	0.386						
Muskogee	4	6,797	21	19	-----	2	2	24	11	9	4	2,444	18,548	7.6	2,444	18,548	102	2.78	0.366						
Oklmulgee	9	231,575	239	211	25	3	3	257	215	-----	42	44,273	309,912	7.0	40,562	284,128	158	5.71	0.815						
Pittsburg	18	159,689	329	297	20	12	5	460	385	-----	75	69,128	482,780	7.0	64,749	452,010	141	2.47	0.353						
Tulsa	6	38,010	90	80	6	4	3	105	87	5	13	15,654	109,373	7.0	15,180	106,280	145	2.50	0.358						
Haskell and Sequoyah	4	75,315	80	75	4	1	-----	90	35	31	24	17,885	134,413	7.5	16,420	123,099	182	4.59	0.612						
Rogers and Wagoner	5	423,900	194	172	18	4	4	158	-----	85	73	37,609	307,313	6.2	35,351	289,116	224	11.99	1.466						
PENNSYLVANIA	1,258	92,584,113	399,352	95,033	55,294	1,025	671	110,346	96,732	1,219	12,395	20,079,080	140,664,122	7.0	19,408,472	135,937,710	176	4.77	0.681						
Allegheny	155	12,922,910	12,697	11,205	1,351	141	109	13,371	11,553	185	1,633	2,591,839	18,170,175	7.0	2,512,894	17,815,811	188	5.14	0.734						
Armstrong	29	2,845,669	3,330	3,194	118	20	14	3,481	3,107	10	364	650,019	4,552,373	7.0	623,084	4,363,823	179	4.57	0.652						
Beaver	23	664,275	446	379	40	27	17	445	153	156	136	91,466	704,360	7.7	89,049	685,803	200	7.46	0.989						
Bedford	18	521,727	514	477	19	18	12	540	483	-----	57	92,465	647,258	7.0	92,443	647,104	171	3.48	0.497						
Blair	14	150,248	341	310	20	11	8	416	364	-----	52	65,273	455,558	7.0	62,340	435,030	150	2.41	0.345						
Butler	57	806,387	1,095	996	32	67	47	1,280	1,116	6	158	204,585	1,432,080	7.0	196,951	1,378,840	154	3.08	0.440						
Cambria	177	13,784,840	18,123	17,278	735	112	72	19,480	17,347	-----	2,133	3,599,528	25,258,005	7.0	3,469,889	24,352,711	178	3.97	0.587						
Centre	38	426,583	780	697	23	40	31	815	719	-----	96	136,621	955,576	7.0	134,507	940,785	165	3.17	0.453						
Clarion	35	1,367,275	1,418	1,341	39	38	26	1,640	1,424	72	144	317,933	2,246,300	7.1	308,446	2,181,395	188	4.43	0.627						
Clearfield	117	2,909,578	4,646	4,404	130	112	59	5,232	4,582	110	540	868,947	6,076,544	7.0	854,720	5,848,179	160	3.49	0.498						
Clinton	10	41,740	77	57	4	16	12	87	76	-----	11	18,747	117,545	7.0	16,715	117,322	192	2.50	0.356						
Fayette	107	15,672,679	12,818	12,206	533	79	42	16,462	14,408	280	1,774	2,811,963	19,408,758	6.9	2,739,414	18,888,319	166	5.72	0.830						
Greene	14	3,939,184	3,432	3,247	181	4	1	3,698	3,143	-----	553	720,235	5,104,071	7.1	682,068	4,828,805	185	5.78	0.816						
Huntingdon	10	467,100	744	703	34	7	4	815	725	-----	90	152,010	1,064,065	7.0	148,908	1,042,354	183	3.14	0.448						
Indiana	42	5,827,092	6,399	5,845	535	19	10	6,227	5,551	-----	678	1,165,034	8,211,971	7.0	1,101,542	7,764,616	177	5.29	0.750						
Jefferson	37	1,743,989	2,072	1,968	67	37	27	2,280	2,003	36	241	418,489	2,942,581	7.0	402,487	2,850,114	177	4.33	0.616						
Lycoming	9	55,601	108	92	8	8	6	116	100	-----	16	22,518	163,140	7.2	22,279	161,352	192	2.50	0.345						
Mercer	14	217,521	246	215	15	16	8	353	253	45	65	55,881	398,543	7.2	54,874	392,998	151	3.96	0.555						
Somerset	106	4,400,665	5,768	5,478	216	74	53	6,432	5,710	-----	722	1,064,115	7,444,286	7.0	1,030,569	7,208,395	180	4.27	0.611						
Tioga	14	246,940	348	329	7	12	8	417	321	33	63	77,754	550,680	7.1	76,802	543,853	184	3.22	0.454						
Venango	5	51,794	89	56	4	5	4	68	46	11	11	15,431	115,259	7.5	15,304	114,370	225	3.58	0.453						
Washington	84	15,484,985	14,538	13,984	503	51	29	16,571	14,742	209	1,620	3,122,694	21,900,440	7.0	3,023,188	21,199,546	182	5.12	0.730						
Westmoreland	113	7,329,434	7,381	6,990	312	79	53	8,294	7,252	38	1,004	1,472,133	10,309,728	7.0	1,434,652	10,047,170	173	5.11	0.730						
Crawford and Lawrence	8	281,878	456	406	42	8	3	461	407	12	42	95,359	673,066	7.1	92,728	654,423	201	3.04	0.431						
Bradford, Cameron, Elk, Forest, Fulton, and Warren	22	824,039	1,250	1,178	51	21	16	1,357	1,147	16	194	252,543	1,781,784	7.1	243,021	1,714,594	179	3.39	0.481						
TENNESSEE	123	5,185,481	37,559	7,081	3388	90	64	7,925	6,777	(*)	(*)	1,459,603	10,284,252	7.0	1,408,174	9,921,942	178	3.68	0.523						
Anderson	14	977,476	1,334	1,255	71	8	5	1,489	1,185	-----	304	273,324	1,913,264	7.0	264,380	1,850,663	178	3.70	0.528						
Campbell	30	1,567,228	1,943	1,826	99	18	15	2,173	1,909	-----	284	391,528	2,736,887	7.0	379,629	2,654,359	175	3.60	0.515						
Claborn	11	1,222,576	1,730	1,676	52	2	-----	1,714	1,520	-----	194	307,731	2,181,989	7.1	291,574	2,075,813	170	4.19	0.589						
Cumberland	4	9,272	20	14	-----	6	5	23	21	-----	2	3,854	29,212	7.6	3,854	29,212	168	2.41	0.317						
Hamilton	7	25,707	45	39	2	4	2	63	55	-----	8	8,680	60,760	7.0	8,680	60,760	138	2.78	0.390						
Putnam	3	21,951	63	55	5	3	-----	107	93	-----	14	9,940	71,120	7.2	9,940	71,120	93	2.21	0.309						
Scott	10	126,909	206	189	8	9	7	238	187	(*)	(*)	39,724	279,508	7.0	39,724	279,508	167	3.19	0.454						
White	4	6,435	15	12	-----	3	2	18	16	-----	2	3,040	22,200	7.3	3,040	22,200	169	2.12	0.290						
Fentress, Morgan, and Overton	16	505,827	731	692	25	14	12	659	575	(*)	(*)	142,340	1,005,404	7.1	138,966	981,788	211	3.64	0.515						
Bledsoe, Grundy, Marion, Rhea, Sequatchie, and Van Buren	24	924,102	1,454	1,323	108	23	16	1,441	1,216	-----	225	279,442	1,973,908	7.1	268,587	1,896,519	186	3.44	0.487						
TEXAS	4	16,259	94	75	16	3	2	236	175	-----	61	11,474	94,473	8.2	10,501	86,180	44	1.55	0.189						
UTAH	51	3,284,904	32,618	2,328	3280	30	23	2,544	1,861	(*)	(*)	501,773	3,543,976	7.1	436,283	3,072,197	171	7.53	1.069						
Carbon	27	2,601,874	1,998	1,874	106	8	5	2,077	1,514	-----	563	399,443	2,807,058	7.0	357,484	2,503,390	172	7.28	1.039						
Summit	4	29,544	41	34	1	6	4	44	35	-----	9	8,768	66,956	7.6	8,768	66,956	199	3.37	0.441						
Emery, Grand, Iron, Sevier, and Uintah																									

TABLE 27.—PRODUCTION, EMPLOYMENT, AND OUTPUT PER MAN IN THE BITUMINOUS-COAL INDUSTRY IN THE UNITED STATES, BY STATE AND BY COUNTY: 1939¹—Concluded

(For producing operations only)

STATE AND COUNTY	Number of mines	Production of coal (tons of 2,000 pounds)	NUMBER OF PERSONS ENGAGED						AVERAGE NUMBER OF WAGE EARNERS AND WORKING PROPRIETORS ON ACTIVE DAYS				TOTAL NUMBER OF MAN-SHIFTS AND MAN-HOURS WORKED BY WAGE EARNERS AND WORKING PROPRIETORS			NUMBER OF MAN-SHIFTS AND MAN-HOURS WORKED BY WAGE EARNERS AND WORKING PROPRIETORS ON ACTIVE DAYS			TONS OF COAL PRODUCED ON ACTIVE DAYS PER—		
			Total	Wage earners (average for the year, including inactive periods)	Salaried employees	Proprietors and firm members		Total	Underground	On surface		Man-shifts	Man-hours	Average number of hours worked per shift	Man-shifts	Man-hours	Average number of full days mines were active	Man-shift	Man-hour		
						Total	Per-forming manual labor			In strip pits	All others										
WASHINGTON—	52	1,690,442	32,409	2,219	3,137	53	42	2,275	1,755	(4)	(4)	450,202	3,151,300	7.0	433,749	3,038,226	191	3.90	0.557		
King—	24	821,202	935	838	73	24	18	899	683	(4)	(4)	189,190	1,324,217	7.0	185,002	1,294,999	206	3.36	0.480		
Lewis—	6	33,893	50	43	1	6	6	50	43	—	7	8,114	56,798	7.0	8,114	56,798	182	4.15	0.593		
Pierce—	10	39,213	84	64	1	19	16	89	75	—	14	16,191	113,538	7.0	16,999	111,995	180	2.45	0.350		
Kittitas, Thurston, and Whatcom—	12	996,334	1,337	1,274	59	4	4	1,237	954	—	283	236,707	1,656,949	7.0	224,634	1,572,434	182	4.44	0.634		
WEST VIRGINIA—	721	108,361,934	398,342	94,084	3,985	293	205	103,233	89,410	269	14,554	20,280,013	142,068,558	7.0	19,650,091	137,656,740	190	5.61	0.787		
Barbour—	12	1,427,718	1,429	1,391	35	3	1	1,528	1,351	—	175	282,143	1,975,001	7.0	275,170	1,928,190	180	5.19	0.741		
Boone—	19	3,247,461	3,041	2,916	123	2	2	3,592	2,872	—	510	650,014	4,545,708	7.0	626,910	4,388,188	185	5.18	0.740		
Brooke—	26	1,533,368	898	857	57	24	22	1,120	772	184	164	215,459	1,569,233	7.3	211,419	1,539,878	189	7.25	0.995		
Fayette—	67	11,086,940	11,692	11,286	418	8	7	12,233	10,861	—	1,362	2,491,713	17,436,590	7.0	2,416,540	16,907,922	198	4.59	0.656		
Greenbrier—	19	1,487,479	1,666	1,627	52	7	6	1,708	1,543	—	165	316,051	2,215,774	7.0	302,679	2,122,167	177	4.91	0.701		
Hancock—	7	258,747	124	109	10	5	2	125	54	53	18	28,081	210,858	7.5	27,808	208,674	222	9.23	1.230		
Harrison—	31	3,542,034	2,582	2,404	181	17	10	2,724	2,305	—	419	499,588	3,495,241	7.0	480,441	3,361,342	176	7.37	1.054		
Kanawha—	47	6,337,904	6,394	6,108	278	10	9	6,896	6,195	—	671	1,311,418	9,182,959	7.0	1,279,211	8,957,505	186	4.95	0.708		
Logan—	80	14,837,071	11,295	10,763	530	2	1	11,159	9,233	—	1,928	2,218,510	15,546,283	7.0	2,128,674	14,915,968	191	5.97	0.995		
McDowell—	73	20,329,630	18,581	17,871	689	21	18	19,649	16,432	—	3,237	3,770,134	26,566,488	7.0	3,645,809	25,497,491	186	5.58	0.797		
Larion—	26	7,978,778	6,519	6,155	348	16	12	6,172	5,430	—	742	1,249,787	8,689,266	7.0	1,206,389	8,388,609	195	6.61	0.951		
Mason—	10	71,249	154	142	5	7	7	194	171	—	23	24,356	174,498	7.2	24,356	174,498	126	2.36	0.408		
Mercer—	15	3,009,399	3,457	3,292	164	1	—	3,656	3,044	—	612	683,346	4,788,780	7.0	675,496	4,733,830	185	4.46	0.636		
Mineral—	8	172,955	376	349	23	4	3	444	409	—	35	70,991	502,972	7.1	70,923	502,496	160	2.44	0.544		
Mingo—	20	3,048,645	2,968	2,846	122	—	—	3,232	2,771	—	461	578,684	4,043,403	7.0	570,179	3,983,865	176	5.35	0.765		
Monongalia—	40	6,618,702	3,719	3,536	159	24	16	4,065	3,354	—	731	830,794	5,848,070	7.0	792,391	5,577,770	194	6.35	1.187		
Nicholas—	18	57,219	92	73	—	19	14	114	99	—	15	18,476	137,282	7.4	18,476	137,282	162	3.10	0.417		
Preston—	32	612,689	876	823	51	22	16	941	772	32	137	162,991	1,156,270	7.1	161,565	1,145,599	172	3.79	0.535		
Raleigh—	78	13,206,894	12,417	12,001	402	14	9	13,508	11,677	—	1,831	2,698,622	18,890,730	7.0	2,619,258	18,336,035	194	5.04	0.720		
Randolph—	18	1,014,502	1,162	1,103	36	23	11	1,259	1,046	—	213	255,891	1,795,858	7.0	242,403	1,701,442	193	4.19	0.596		
Taylor—	12	418,695	553	525	20	8	7	578	518	—	60	85,060	592,267	7.0	83,609	584,710	145	5.01	0.716		
Upshur—	7	69,560	89	79	5	5	4	104	77	—	27	12,911	90,777	7.0	12,911	90,777	124	5.31	0.755		
Wayne—	3	28,897	34	30	1	3	1	40	35	—	5	8,080	56,560	7.0	8,080	56,560	202	3.33	0.476		
Wyoming—	17	2,744,287	2,985	2,868	112	5	3	3,175	2,797	—	378	667,936	4,676,080	7.0	642,037	4,494,784	202	4.27	0.611		
Clay and Putnam—	12	1,553,722	1,630	1,558	60	12	8	1,570	1,377	—	193	362,823	2,540,600	7.0	360,576	2,524,872	230	4.31	0.615		
Grant and Tucker—	9	528,898	588	542	24	2	2	591	527	—	64	123,778	881,696	7.1	119,500	851,546	202	4.43	0.621		
Marshall and Ohio—	17	2,080,317	1,840	1,764	60	16	9	1,803	1,626	—	177	430,825	3,035,357	7.0	423,696	2,979,517	235	4.91	0.698		
Braxton, Gilmer, Lewis, and Webster—	18	1,063,156	1,160	1,106	31	13	10	1,275	1,062	—	183	231,591	1,623,757	7.0	223,515	1,567,223	175	4.76	0.678		
WYOMING—	66	5,373,289	34,353	4,074	3,226	53	45	3,757	2,947	53	757	811,855	5,696,701	7.0	776,734	5,449,981	207	6.92	0.986		
Converse—	4	15,719	14	9	—	5	5	17	2	12	3	2,944	22,526	7.7	2,944	22,526	173	5.34	0.698		
Hot Springs—	8	59,361	121	101	3	17	14	136	110	—	28	18,530	131,614	7.1	18,530	131,614	136	3.20	0.451		
Other counties to	54	5,295,209	4,216	3,964	221	31	26	3,604	2,835	41	728	790,381	5,542,561	7.0	755,260	5,295,841	210	7.02	1.000		
ARIZONA, GEORGIA, IDAHO, AND OREGON ¹¹ —	6	39,021	128	120	2	6	6	157	122	—	35	24,835	189,641	7.6	24,165	184,321	154	1.61	0.212		

¹For definition of the industry see footnote 1 to tables 1 and 2.²Includes 208 salaried employees and 1 wage earner employed at central offices in Minnesota and New York.³Includes figures for salaried employees and wage earners employed at central offices in counties in which no bituminous coal was mined.⁴Not shown separately, included in the total for United States.⁵Adams, Bond, Bureau, Christian, Clinton, Crawford, Edgar, Greene, Hancock, Henry, Jackson, Jefferson, Logan, Macon, Marion, Morgan, Scott, Warren, Washington, White, Will, and Woodford.⁶Breathitt, Carter, Elliott, Johnson, Lawrence, McCreary, Magoffin, Martin, Morgan, Owale, Pulaski, and Wolfe.⁷Barton, Bates, Callaway, Chariton, Clark, Dade, Daviess, Grundy, Howard, Jasper, Johnson, Lincoln, Macon, Monroe, Morgan, Platte, Ralls, and Warren.⁸Blaine, Carbon, Cascade, Fergus, Flathead, Gallatin, Judith Basin, Park, Phillips, Pondera, and Rosebud.⁹Palo Pinto, Webb, and Wise Counties.¹⁰Campbell, Carbon, Crook, Fremont, Johnson, Lincoln, Natrona, Sheridan, Sweetwater, and Uinta.¹¹Arizona: Coconino and Navajo Counties; Georgia: Dade and Walker; Idaho: Teton; and Oregon: Coos.

TABLE 28.—DETAILED PRODUCTION STATISTICS FOR THE BITUMINOUS-COAL INDUSTRY IN THE UNITED STATES, BY STATE AND BY COUNTY: 1939¹
(Quantities are in tons of 2,000 pounds)

STATE AND COUNTY	PRODUCTION OF COAL			DISPOSITION OF COAL PRODUCED										VALUE OF PRODUCTS					
	Total	From underground mines	From strip pits	Loaded at mines directly into railroad cars or river barges	Hauled by truck to siding for shipment by rail	Hauled by truck to waterway for shipment by water	Hauled by truck or wagon (excluding coal used by mine employees)	Used by mine employees and owners for house coal	Taken by locomotive tenders at tipple	Used at mines for power and heat	Made into coke at mines	Transported from mines to points of use by conveyor, chute, or aerial tramway	Net change in stocks of coal at mines, January 1, 1939, to January 1, 1940	Total	Value of coal produced (f.o.b. mine or cleaning plant)		Receipts for work or services performed for other concerns	Value of electric energy sold	Value of all other products
															Average per ton	Total			
UNITED STATES	591,729,862	555,425,926	36,302,936	545,601,793	4,043,992	1,080,968	29,060,334	1,969,734	615,229	2,548,074	2,069,475	4,215,489	+200,784	\$727,357,537	\$724,475,837	\$1.85	\$1,668,768	\$1,034,651	\$198,281
ALABAMA	12,046,675	11,985,064	61,611	11,145,542	64,368	782	672,603	51,994	49,768	72,707	—	17,649	-28,778	27,790,156	27,741,791	2.30	—	10,556	37,909
Bibb	618,244	601,351	16,893	575,297	16,893	—	15,705	1,987	—	13,945	—	—	-5,529	1,467,678	1,464,534	2.40	—	—	—
Blount	129,223	116,688	12,535	85,004	10,573	—	35,209	510	—	1,561	—	—	-1,454	312,546	312,546	2.42	—	—	—
Cherokee	12,441	12,441	—	—	—	—	12,441	—	—	—	—	—	—	26,211	26,211	2.11	—	—	—
Chilton	34,420	34,420	—	—	—	—	34,347	73	—	—	—	—	—	85,546	85,546	2.49	—	—	—
Etowah	22,513	22,513	—	—	—	—	11,757	3	—	—	—	—	—	46,496	46,496	2.07	—	—	—
Jefferson	7,107,707	7,107,707	—	6,778,997	2,704	—	243,500	26,749	25,146	24,251	—	17,649	-11,289	16,243,154	16,235,629	2.28	—	—	6,525
Marion	249,559	244,822	4,737	205,180	5,469	—	33,200	431	618	351	—	—	+1,160	723,798	723,798	2.90	—	—	—
Shelby	391,914	391,914	—	312,765	—	—	79,732	2,158	—	1,166	—	—	-977	1,061,017	1,061,017	2.71	—	—	—
Tuscaloosa	123,942	107,550	16,392	15,292	—	—	52,379	—	7	510	—	—	—	241,572	241,572	1.95	—	—	—
Walker	2,277,824	2,266,500	11,324	2,146,080	120	—	104,619	12,741	20,086	580	—	—	-6,602	5,027,660	5,022,696	2.20	—	—	—
De Kalb, Fayette, Jackson, Madison, St. Clair, and Winston	1,078,988	1,078,988	—	991,415	1,584	782	49,656	7,362	3,751	30,545	—	—	-6,107	2,508,158	2,500,746	2.32	—	7,412	—
ARKANSAS	1,182,038	1,126,584	25,454	1,051,936	41,589	—	48,969	2,130	—	7,549	—	—	-36	3,655,657	3,655,438	3.17	—	—	—
Franklin	112,644	101,190	11,454	97,731	8,036	—	4,351	1,065	—	1,461	—	—	—	386,624	386,624	3.43	—	—	—
Johnson	194,007	174,998	19,009	174,998	117	—	16,392	807	—	2,240	—	—	+122	536,094	536,094	2.76	—	—	—
Louisiana	359,363	359,363	—	335,864	20,522	—	2,977	807	—	—	—	—	-1,350	1,319,514	1,319,514	3.67	—	—	—
Sebastian	428,238	414,238	14,000	388,454	11,708	—	24,221	110	—	2,710	—	—	+1,085	1,196,334	1,196,334	2.79	219	—	—
Pope and Scott	57,786	57,786	—	54,871	1,206	—	928	10	—	614	—	—	+157	217,091	217,091	3.76	—	—	—
COLORADO	5,923,210	(²)	(²)	5,982,842	96,823	—	1,533,960	48,228	2,444	147,288	97,591	31,594	-17,460	14,952,288	14,680,726	2.47	203,233	128,329	—
Boulder	608,433	608,433	—	196,057	—	—	395,356	5,226	—	10,716	—	—	+498	1,727,433	1,727,433	2.84	—	—	—
Delta	61,614	61,614	—	29,705	—	—	28,050	776	—	4,083	—	—	—	147,841	147,841	2.40	—	—	—
Elbert	8,023	8,023	—	—	—	—	7,866	157	—	—	—	—	—	19,496	19,496	2.43	—	—	—
Front	510,007	510,007	—	152,124	11,060	—	342,315	4,194	—	2,306	—	—	-1,992	1,276,189	1,276,189	2.50	—	—	—
Garfield	37,978	37,978	—	12,717	—	—	23,982	89	—	1,240	—	—	—	86,127	86,127	2.67	—	—	—
Gunnison	530,425	530,425	—	480,776	16,455	—	23,923	5,473	322	10,874	—	—	-5,398	1,200,036	1,200,036	2.26	463	360	—
Huerfano	615,167	615,167	—	542,008	4,796	—	65,897	4,354	—	1,662	—	—	-1,250	1,546,933	1,546,933	2.51	480	—	—
La Plata	28,195	28,195	—	7,759	3,128	—	17,457	128	—	—	—	—	-277	61,457	61,457	2.18	—	—	—
Las Animas	1,067,156	1,067,156	—	895,540	2,748	—	54,220	3,528	1,642	14,109	97,591	—	-2,242	2,495,010	2,495,010	2.35	—	1,918	—
Mesa	77,464	77,464	—	29,931	—	—	44,455	148	—	2,930	—	—	—	161,050	161,050	2.08	—	—	—
Morfit	55,900	55,900	—	28,342	—	—	26,503	55	—	1,000	—	—	—	115,649	115,649	2.07	—	—	—
Monte	727,440	727,440	—	652,423	17,577	—	16,413	4,504	—	32,121	—	8,514	-4,112	1,775,008	1,775,008	2.44	—	11,329	—
Weld	1,134,630	1,134,630	—	828,314	—	—	285,079	17,960	—	25,474	—	—	-2,197	2,902,621	2,902,621	2.56	—	—	—
El Paso, Jackson, Jefferson, and Larimer	428,380	(³)	(³)	168,723	—	—	216,241	3,137	—	40,789	—	—	-490	1,159,336	1,043,616	2.44	—	114,722	—
Archuleta, Montezuma, Montrose, Pitkin, Pueblo, and Rio Blanco	32,418	32,418	—	482	—	—	7,823	549	480	4	—	25,080	—	276,773	74,465	2.30	202,290	—	—
ILLINOIS	46,782,691	34,694,155	12,088,536	39,734,064	113,392	116,633	6,770,943	236,906	54,772	723,855	—	109,804	-77,566	76,863,708	76,680,593	1.64	120,160	38,171	24,784
Franklin	8,319,849	8,319,849	—	8,148,497	—	—	48,562	48,395	—	133,851	—	—	-59,446	14,059,226	14,059,226	1.68	700	—	—
Fulton	5,793,139	5,793,139	—	5,189,552	45,989	—	428,205	3,168	—	9,314	—	—	+578	5,391,213	5,391,213	1.42	—	—	—
Galatin	48,571	48,571	—	1,650	—	—	42,921	—	—	2,622	—	—	+1,578	75,045	75,045	1.55	—	—	—
Grundy	124,907	70,405	54,502	123,250	—	—	123,250	1,294	—	2,109	—	—	-1,748	325,537	325,537	2.61	—	—	—
Knox	761,784	169,581	592,203	592,203	5,650	—	109,697	1,923	—	5,361	—	—	-2,050	1,211,578	1,211,578	1.59	—	—	—
La Salle	367,235	193,559	173,876	65,744	2,401	—	268,441	5,849	—	2,567	—	—	+4,433	979,714	979,714	2.66	—	1,347	—
Livingston	10,846	8,180	2,666	—	—	—	10,011	5	—	214	—	—	+616	32,276	32,276	2.98	—	—	—
Macoupin	3,569,170	3,569,170	—	3,041,874	18,470	—	177,300	18,470	10,478	129,325	—	—	-8,478	5,035,057	4,997,467	1.48	—	37,570	—
Madison	1,829,489	1,829,489	—	1,623,469	51,614	—	191,166	31,614	—	66,483	—	—	+7,109	2,726,674	2,726,674	1.49	—	—	—
Menard	116,115	116,115	—	1,135,117	—	—	110,006	2,428	—	5,681	—	—	—	240,902	240,902	2.07	—	—	—
Monroe	25,365	25,365	—	—	—	—	24,220	239	—	897	—	—	—	64,787	64,787	2.55	—	—	—

See footnotes at end of table.

TABLE 28.—DETAILED PRODUCTION STATISTICS FOR THE BITUMINOUS-COAL INDUSTRY IN THE UNITED STATES, BY STATE AND BY COUNTY: 1939—Continued
(Quantities are in tons of 2,000 pounds)

STATE AND COUNTY	PRODUCTION OF COAL				DISPOSITION OF COAL PRODUCED										VALUE OF PRODUCTS				
	Total	From underground mines	From strip pits	Loaded at mines directly into railroad cars or river barges	Hauled by truck to siding for shipment by rail	Hauled by truck to waterway for shipment by water	Hauled by wagon (excluding coal used by mine employees)	Used by mine employees and owners for house coal	Taken by locomotive tenders at tipple	Used at mines for power and heat	Made into coke at mines	Transported from mines to points of use by conveyor, chute, or aerial tramway	Net change in stocks of coal at mines, January 1, 1939 to January 1, 1940	Total	Value of coal produced (f.o.b. mine or cleaning plant) ^a		Value of electric energy sold	Value of all other products	
															Average per ton	Receipts for work or services performed for other concerns			
NEW MEXICO	1,280,060	1,280,060	—	1,036,791	19,180	—	115,181	11,503	1,756	36,828	—	—	+8,821	\$3,579,049	\$3,503,032	\$3,584	\$72,653	—	
Colfax	645,407	645,407	—	608,054	52	—	30,101	4,165	—	2,751	—	—	+286	1,771,225	1,771,225	—	—	—	
McKinley	444,504	444,504	—	336,719	15,949	—	55,146	4,855	339	26,454	—	—	+6,862	1,400,845	1,400,845	—	64,049	—	
Sandoval	5,465	5,465	—	—	—	—	5,378	10	—	75	—	—	—	15,765	15,765	—	—	—	
Bernalillo, Rio Arriba, San Juan, Santa Fe, and Socorro	154,886	154,886	—	92,018	5,179	—	24,556	2,495	1,417	7,548	—	—	+1,673	391,214	391,214	—	8,584	—	
OHIO	20,289,553	16,118,650	4,170,903	13,946,237	877,219	654,625	4,655,588	62,952	1,085	98,141	—	107,890	-15,984	35,542,461	33,127,116	1.63	193,115	\$22,230	
Athens	1,659,500	1,659,500	—	1,565,546	928	—	51,067	5,253	—	16,302	—	—	+2,304	2,963,551	2,963,551	—	—	—	
Belmont	5,057,280	4,959,780	97,500	4,781,518	66,177	—	136,921	11,032	—	10,407	—	22,852	-11,555	8,121,621	8,121,621	—	—	—	
Carroll	435,352	270,509	165,023	111,074	—	—	310,526	2,444	—	2,742	—	—	-1,454	775,866	775,866	—	—	—	
Columbiana	680,161	226,654	453,507	35,106	—	—	621,571	431	—	5,003	—	—	—	1,050,389	970,611	1.47	79,778	—	
Coshocton	228,230	202,984	25,246	12,517	3,685	—	210,462	900	—	66	—	—	—	425,765	425,765	—	—	—	
Galena	29,867	29,867	—	—	100	—	29,767	—	—	—	—	—	—	59,170	59,170	—	—	—	
Geary	527,537	527,537	—	368,109	14,427	—	107,456	16,464	210	888	—	—	+53	841,711	841,711	—	—	—	
Harmon	2,581,332	1,943,471	637,861	2,134,180	593,961	—	37,531	965	—	27,586	—	—	-2,651	5,535,991	3,535,991	—	—	—	
Hocking	228,911	211,586	17,325	135,071	3,921	—	90,015	389	—	362	—	—	-517	396,155	396,155	—	—	—	
Holmes	54,613	30,605	4,208	—	—	—	34,754	40	—	39	—	—	—	73,730	73,730	—	—	—	
Jackson	192,375	144,248	48,127	83,664	6,824	—	80,089	160	—	—	—	21,264	+564	437,583	437,583	—	—	—	
Jefferson	4,651,888	3,250,242	1,401,596	4,056,411	266,104	—	317,412	7,974	—	26,714	—	—	-4,777	7,235,676	7,235,676	—	—	—	
Lawrence	72,312	72,312	—	—	100	—	72,136	25	—	51	—	—	—	144,547	144,547	—	—	—	
Madison	433,978	71,802	362,176	—	9,341	—	419,060	468	—	6,109	—	—	—	781,058	781,058	—	—	—	
Medina	4,814	—	—	—	—	—	4,678	9	—	127	—	—	—	10,376	10,376	—	—	—	
Meigs	170,984	170,984	—	35,076	—	—	106,881	5,003	—	15	—	—	—	272,875	272,875	—	—	—	
Muskingum	915,433	827,686	87,747	285,783	26,053	—	235,783	79	—	315	—	—	+450	1,521,001	1,521,001	—	—	—	
Noble	797,971	689,651	118,110	492,857	60,448	—	227,682	3,281	875	619	—	—	+2,199	1,374,056	1,374,056	—	—	—	
Portage	47,977	15,001	32,976	—	—	—	46,871	413	—	693	—	—	—	103,274	103,274	—	—	—	
Stark	576,925	135,151	445,794	—	—	—	573,757	2,975	—	426	—	—	-233	1,136,793	1,071,265	—	—	22,530	
Tuscarawas	885,571	613,684	271,937	—	—	—	751,225	4,276	—	1,047	—	—	+13	1,633,234	1,633,234	—	—	—	
Vinton	105,117	39,547	65,570	—	—	—	101,291	246	—	80	—	—	—	203,708	203,708	—	—	—	
Hamilton, Morgan, Noble, Washington, and Wayne	63,555	63,555	—	34,067	—	—	29,473	15	—	—	—	—	—	199,785	137,786	2.17	61,999	—	
OKLAHOMA	1,187,562	687,186	500,396	923,002	126,018	—	123,815	2,219	—	13,400	—	—	-892	2,504,489	2,503,450	2.11	1,039	—	
Coal	17,941	17,941	—	—	—	—	17,824	97	—	20	—	—	—	49,673	49,673	—	—	—	
Craig	8,288	—	8,288	—	—	—	8,112	49	—	127	—	—	—	18,785	18,785	—	—	—	
Latimer	6,794	6,794	—	5,721	295	—	2,638	25	—	115	—	—	—	17,623	17,623	—	—	—	
Le Flore	219,255	219,255	—	170,785	41,348	—	5,038	382	—	1,546	—	—	+154	577,959	577,959	—	—	—	
Muskogee	6,797	2,719	4,078	—	—	—	3,978	8	—	100	—	—	—	17,840	17,840	—	—	—	
Nowata	231,575	230,555	1,220	211,541	150	—	18,245	187	—	850	—	—	+602	435,608	435,608	—	—	—	
Pittsburg	159,689	159,689	—	109,955	27,047	—	16,854	501	—	5,122	—	—	+250	425,130	425,130	—	—	—	
Pushmataha	58,010	56,754	1,276	28,574	—	—	9,122	123	—	191	—	—	—	80,540	80,540	—	—	—	
Sequoyah	75,315	13,681	61,634	59,969	14,315	—	922	89	—	1,020	—	—	—	150,777	150,777	—	—	—	
Haskell and Rogers and Wagoner	423,900	—	423,900	339,477	40,152	—	41,102	758	—	4,308	—	—	-1,898	732,548	732,548	—	—	—	
PENNSYLVANIA	92,584,113	89,619,274	2,964,839	80,544,714	1,347,212	23,615	5,604,285	343,702	113,042	489,251	1,554,179	2,398,287	+165,828	188,925,506	187,609,657	2.03	1,060,635	59,706	
Allegheny	12,922,910	12,544,445	378,467	10,030,086	155,655	—	66,880	5,118	51,898	60,580	—	800,547	-19,893	25,171,151	24,468,791	1.89	679,281	5,099	
Armstrong	2,845,669	2,835,677	11,992	2,756,947	11,992	—	5,118	827	—	340	—	25,032	-1,107	5,567,795	5,567,795	—	—	—	
Beaver	664,275	78,094	586,181	223,509	5,029	—	419,965	867	—	5,457	—	185,411	+628	1,289,839	1,289,839	—	—	—	
Bedford	321,727	321,727	—	77,179	—	—	68,750	400	141	512	—	—	+2,212	787,124	787,124	—	—	—	
Blair	150,248	150,248	—	76,230	—	—	68,750	892	—	164	—	—	—	340,421	340,421	—	—	—	
Butler	606,387	595,432	10,955	287,012	2,007	—	311,597	2,866	2,258	115	—	—	+572	1,233,862	1,233,862	—	—	—	
Cambria	13,784,840	13,784,840	—	12,208,517	67,683	—	588,434	47,382	616	127,660	—	880,470	+17,333	30,474,660	30,474,660	—	—	2,118	
Centre	284,435	284,435	—	128,947	3,528	—	128,947	1,757	—	226	—	7,477	+13	820,425	820,425	—	—	1,92	
Clarion	1,587,275	1,101,947	265,328	995,540	200,611	—	149,354	1,094	19,477	1,015	—	—	+4	2,391,001	2,391,001	—	—	1,75	
Clearfield	2,909,578	2,786,849	122,729	2,503,327	169,935	—	240,886	5,022	42	25,211	—	9,273	-41,318	5,633,731	5,633,731	—	—	2,01	

Clinton	41,740	41,740	1,789	9,106	59,847	86	32,658	18	997,104	—	—	—	—	—	82,951	82,951	1.97	15,000	2,665
Clinton	15,672,879	15,672,879	13,916,237	235,472	32,875	50,697	32,658	33,223	997,104	—	—	—	—	—	34,654,652	34,654,652	2.21	15,000	2,665
Clinton	3,959,164	3,959,164	3,959,164	949	32,875	50,697	32,658	33,223	997,104	—	—	—	—	—	6,724,719	6,724,719	2.21	15,000	2,665
Clinton	4,671,100	4,671,100	4,671,100	949	32,875	50,697	32,658	33,223	997,104	—	—	—	—	—	1,112,937	1,112,937	2.38	15,000	2,665
Clinton	5,827,092	5,827,092	5,827,092	45,513	46,759	11,558	230	71,995	131,001	—	—	—	—	—	10,504,123	10,504,123	1.80	2,664	1,023
Jefferson	1,745,989	1,683,929	1,589,308	52,771	92,924	5,398	—	2,777	—	—	—	—	—	—	3,431,337	3,431,337	1.97	—	—
Jefferson	5,601	51,829	5,980	6,531	45,230	120	—	45,230	—	—	—	—	—	—	122,998	122,998	2.14	—	—
Jefferson	217,821	129,479	18,935	45,089	154,653	702	—	1,201	—	—	—	—	—	—	469,109	469,109	2.14	3,900	—
Jefferson	4,400,865	4,400,865	4,129,588	95,656	89,346	32,034	1,618	55,009	—	—	—	—	—	—	9,389,629	9,389,629	2.13	5,757	26,824
Jefferson	246,940	197,277	49,665	19,978	71,440	722	—	4,900	—	—	—	—	—	—	607,947	607,947	2.43	7,446	—
Jefferson	51,794	29,523	22,271	—	51,744	50	—	—	—	—	—	—	—	—	91,738	91,738	1.77	—	—
Washington	15,484,985	14,712,024	14,727,535	97,862	315,049	60,985	1,574	28,211	—	—	—	—	—	—	29,982,118	29,975,036	1.94	6,943	137
Washington	7,829,434	7,259,091	6,159,274	51,953	549,759	32,795	200	32,652	890,529	—	—	—	—	—	13,689,650	13,582,456	1.85	174	—
Washington	281,878	262,894	217,631	—	65,818	2,344	—	344	—	—	—	—	—	—	766,185	766,185	2.72	—	—
Washington	824,059	790,705	709,724	25,296	67,824	1,396	2,112	19,077	—	—	—	—	—	—	1,655,129	1,655,129	2.01	—	—
Washington	5,185,481	(*)	4,721,515	58,832	311,636	32,277	23,427	34,643	—	—	—	—	—	—	10,104,223	10,100,541	1.95	3,882	—
Washington	977,476	977,476	919,439	—	45,737	5,207	—	7,753	—	—	—	—	—	—	1,970,449	1,970,449	2.02	—	—
Washington	1,867,226	1,867,226	1,809,781	800	32,008	7,557	14,904	1,182	—	—	—	—	—	—	2,610,564	2,610,564	2.06	—	—
Washington	1,222,578	1,222,578	1,181,462	—	23,250	9,566	2,576	1,509	—	—	—	—	—	—	2,268,907	2,268,907	1.87	5,862	—
Washington	3,272	3,272	3,272	—	9,272	—	—	—	—	—	—	—	—	—	17,151	17,151	1.85	—	—
Washington	25,707	25,707	25,707	—	25,707	—	—	—	—	—	—	—	—	—	45,086	45,086	1.82	—	—
Washington	21,951	21,951	12,372	1,128	9,320	106	—	155	—	—	—	—	—	—	41,358	41,358	1.88	—	—

See footnotes at end of table.

TABLE 28.—DETAILED PRODUCTION STATISTICS FOR THE BITUMINOUS-COAL INDUSTRY IN THE UNITED STATES, BY STATE AND BY COUNTY: 1939.—Continued
(Quantities are in tons of 2,000 pounds)

STATE AND COUNTY	PRODUCTION OF COAL				DISPOSITION OF COAL PRODUCED										VALUE OF PRODUCTS				
	Total	From underground mines	From strip pits	Loaded at mines directly into railroad cars or river barges	Hauled by truck to siding for shipment by rail	Hauled by truck to waterway for shipment by water	Hauled by wagon (excluding coal used by mine employees)	Used by mine employees and owners for house coal	Taken by locomotive tenders at tipple	Used at mines for power and heat	Made into coke at mines	Transported from mines to points of use by conveyor, chute, or aerial tramway	Net change in stocks of coal at January 1, 1939, to January 1, 1940	Total	Value of coal produced (f.o.b. mine or cleaning plant) ^a		Receipts for work or services performed for other concerns	Value of electric energy sold	Value of other products
															Total	Average per ton			
WEST VIRGINIA—Continued																			
Kanawha	6,357,904	6,357,904		6,281,143	1,057		35,442	42,756	10,707	4,778			-37,979	\$11,181,858	\$1.76			\$5,244	
Logan	14,557,071	14,557,071		14,448,125			3,848	97,880		27,429	154		+259,955	23,622,133	1.61		\$1,459	74,944	
Mohawh	20,329,650	20,329,650		20,100,525	18,302		59,767	125,550	37	120,914			-75,445	37,527,172	1.84				
Marion	7,978,778	7,978,778		7,699,940	249		224,857	10,875		41,968			-1,189	12,730,860	1.60				
Mason	71,249	71,249		12,510		6,665	49,204	359		1,325			+1,338	119,667	1.68				
Mercer	3,009,399	3,009,399		2,979,100			7,903	21,718		919			-141	5,442,352	1.81				
Mineral	172,955	172,955		125,291			33,842	193						413,591	2.39				
Mingo	3,046,645	3,046,645		3,020,459			2,655	22,251		272			+3,296	4,894,779	1.61				
Monongalia	6,613,702	6,613,702		6,385,662	70,179		56,587	7,350	11,936	272			+14,916	8,970,550	1.36	8,294			
Nicholas	57,219	57,219		58,025			57,133	47		39				86,112	1.50				
Preston	612,689	576,598	36,091	404,185	108,946		13,670	645	72,703	451	12,079			1,039,803	1.75			27,218	
Raleigh	13,206,894	13,206,894		13,005,983			45,238	102,376	9,701	51,211			-8,516	24,821,114	1.88			17,715	
Randolph	1,014,502	1,014,502		954,462			4,935	2,931	1,591	13,442			-2,179	1,907,613	1.88				
Taylor	418,693	418,693		397,967			19,785	928		13				680,805	1.63				
Upshur	88,560	88,560		88,026			9,969	37		508			+120	101,470	1.48				
Wayne	26,897	26,897					26,897							44,755	1.66				
Wyoming	2,744,287	2,744,287		2,684,332	18,126		7,356	16,455	755	17,652			-999	5,826,245	2.01				
Clay and Putnam	1,553,722	1,553,722		1,493,028	4,578		12,744	10,658	14,439	25,782			-7,614	2,916,163	1.88				
Grant and Tucker	528,896	528,896		489,459			51,839	5,751	19,152				+2,696	1,128,672	2.13			21,269	
Marshall and Ohio	2,080,517	2,080,517		1,691,861	6,790	1,154	246,004	1,295	122,509	2,663			+6,861	3,523,326	1.69				
Braxton, Gilmer, Lewis, and Webster	1,063,158	1,063,158		1,018,355	769		19,140	2,667	16,421	2,137		3,016	+653	2,219,230	2.09	88			
WYOMING	5,373,289	5,195,062	178,227	5,000,880	5,863		197,282	33,895		98,922		20,817	+15,620	11,076,017	2.00	9,245		315,239	
Converse	15,719	2,154	13,565				15,719							30,706	1.95				
Hot Springs and other counties ^a	89,561	89,561		37,143	306		20,956	450		3			+503	179,320	3.02				
	5,298,209	5,133,547	164,662	4,963,747	5,557		160,607	33,445		98,919		20,817	+15,117	10,867,991	1.99	9,245		315,239	
ARIZONA, GEORGIA, IDAHO, AND OREGON	39,021	39,021		22,706			14,710	496		376			+753	115,663	2.96				

1 For definition of the industry see footnote 1 to tables 1 and 2.

2 Value of all coal produced, f.o.b. mine or cleaning plant, excluding selling expense. The value of cleaned coal, rather than that of raw coal, was used in the cases of operations that cleaned coal.

3 Not shown separately, included in total for United States.

4 Adams, Bond, Bureau, Christian, Clinton, Crawford, Edgar, Greene, Hancock, Henry, Jackson, Jefferson, Logan, Macon, Marion, Morgan, Scott, Warren, Washington, White, Will, and Woodford.

5 Breathitt, Carter, Elliott, Johnson, Lawrence, McCreary, Magoffin, Martin, Morgan, Owsley, Pulaski, and Wolfe.

6 Barton, Bates, Callaway, Charlton, Clark, Dade, Davies, Grundy, Howard, Jasper, Johnson, Lincoln, Macon, Monroe, Morgan, Platte, Ralls, and Warren.

7 Blaine, Carbon, Cascade, Fergus, Flathead, Gallatin, Judith Basin, Park, Phillips, Pondera, and Rosebud.

8 Polio Pinto, Webb, and Wise Counties.

9 Campbell, Carbon, Crook, Fremont, Johnson, Lincoln, Natrona, Sheridan, Sweetwater, and Uinta.

10 Arizona: Coconino and Navajo Counties; Georgia: Dade and Walker; Idaho: Teton; and Oregon: Coos.

TABLE 29.—NUMBER OF OPERATING COMPANIES, NUMBER AND HORSEPOWER RATING OF PRIME MOVERS AND ELECTRIC MOTORS, AND ELECTRIC ENERGY CONSUMED IN THE BITUMINOUS-COAL INDUSTRY IN THE UNITED STATES, BY STATE AND BY COUNTY: 1939¹

(For producing operations only)

STATE AND COUNTY	Number of operating companies ²	Number of mines	Number of wage earners (average for the year, including inactive periods)	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY								ELECTRIC MOTORS DRIVEN BY ENERGY GENERATED BY REPORTING COMPANIES		ELECTRIC ENERGY CONSUMED (thousands of kilowatt-hours)		
				Aggregate horsepower				Prime movers		Electric motors driven by purchased energy		Number	Horsepower	Total	Purchased	Generated by reporting companies
				Total	Per wage earner	Stationary	Mobile	Number	Horsepower	Number	Horsepower					
UNITED STATES	5,009	5,688	369,156	3,326,209	9.0	1,819,384	1,506,825	5,517	902,545	78,926	2,423,664	21,323	620,987	2,564,012	1,947,863	616,149
ALABAMA	202	251	19,178	150,302	7.8	119,485	30,817	173	29,610	2,710	120,692	2,215	78,252	158,910	66,562	92,348
Bibb	11	11	1,208	9,296	7.7	8,351	965	10	2,515	177	6,761	86	1,700	8,885	7,085	1,800
Blount	10	10	521	1,684	5.2	1,077	607	21	1,377	20	507	---	---	208	208	---
Cherokee	3	3	23	30	1.3	30	---	1	30	---	---	---	---	18	18	---
Cullman	10	10	116	157	1.4	157	---	5	145	---	12	---	---	27	27	---
Etowah	5	6	47	---	---	---	---	---	---	---	---	---	---	11	11	---
Jefferson	55	63	10,766	58,362	5.4	49,566	9,016	54	11,662	876	46,720	1,903	67,558	99,418	24,779	74,639
Marion	19	19	505	3,729	7.4	2,079	1,650	7	254	139	3,475	---	---	2,193	2,193	---
Shelby	20	22	829	7,523	9.1	5,325	2,198	14	456	287	7,087	---	---	5,960	5,960	---
Tuscaloosa	20	21	262	1,295	4.9	1,151	144	14	1,025	12	270	---	---	56	56	---
Walker	47	52	3,308	58,336	17.0	40,549	15,787	23	1,161	1,155	55,155	---	---	25,282	25,282	---
De Kalb, Fayette, Jackson, Madison, St. Clair, and Winston	10	14	1,793	11,870	6.6	11,420	450	24	10,985	10	885	226	8,994	16,822	913	15,909
ARKANSAS	78	78	2,614	25,214	9.6	17,033	8,181	65	7,378	918	17,836	---	---	9,351	9,351	---
Franklin	8	8	273	2,976	10.9	1,927	1,049	12	1,732	76	1,244	---	---	864	864	---
Johnson	18	17	337	4,923	14.6	3,840	1,083	21	2,051	166	2,872	---	---	1,374	1,374	---
Logan	18	19	1,006	7,686	7.6	4,160	3,526	2	350	338	7,336	---	---	3,298	3,298	---
Sebastian	31	31	834	7,817	9.4	5,594	2,233	26	3,015	228	4,802	---	---	2,322	2,322	---
Pope and Scott	3	3	164	1,812	11.0	1,522	290	2	230	60	1,582	---	---	1,693	1,693	---
COLORADO	197	211	7,607	63,924	11.0	64,876	19,048	229	31,301	1,853	52,623	706	18,057	32,946	24,179	8,767
Boulder	18	18	759	9,328	12.3	6,068	3,260	22	1,150	362	8,178	29	775	3,760	3,313	447
Delta	8	8	73	1,570	21.5	1,535	35	11	1,500	2	70	2	100	63	63	---
Elbert	3	3	8	60	7.5	60	---	2	60	---	---	---	---	10	10	---
Fremont	28	31	760	9,402	12.4	5,812	3,590	4	455	367	8,967	---	---	2,504	2,504	---
Garfield	7	7	36	175	4.9	140	35	6	133	5	42	---	---	5	5	---
Gunnison	13	12	575	4,022	7.0	3,127	895	25	1,612	71	2,410	84	2,610	1,433	1,150	283
Huerfano	26	25	897	10,292	11.5	8,507	1,785	24	1,290	241	9,002	15	250	3,295	3,227	68
La Plata	9	9	35	60	1.7	60	---	2	60	---	---	---	---	9	9	---
Las Animas	27	27	1,496	9,479	6.3	8,104	3,375	17	1,918	205	7,561	26	770	4,469	4,162	307
Mesa	13	13	103	1,196	11.6	981	215	13	680	22	516	18	465	187	60	127
Moffat	4	4	47	603	12.8	573	30	10	555	6	48	22	274	185	5	180
Routt	13	15	1,129	10,806	9.6	9,476	1,330	34	7,006	139	3,800	413	10,379	6,420	1,609	4,811
Weld	16	19	1,219	10,989	9.0	7,391	3,598	24	2,230	355	8,759	41	1,588	5,294	4,820	474
El Paso, Jackson, Jefferson, and Larimer	16	16	411	14,087	34.3	13,187	900	32	12,547	28	1,540	51	988	3,966	2,002	1,964
Archuleta, Montezuma, Montrose, Pitkin, Pueblo, and Rio Blanco	7	6	59	1,855	31.4	1,855	---	3	125	50	1,730	9	58	1,546	1,500	46
ILLINOIS	528	546	31,013	510,943	16.5	265,852	245,091	1,024	238,143	8,869	272,800	2,824	77,064	269,980	191,590	78,390
Franklin	6	12	5,982	177,304	29.9	63,176	114,128	53	108,695	1,710	68,609	530	18,080	59,362	35,681	23,701
Fulton	58	59	1,197	59,317	32.8	20,928	18,389	101	9,263	650	30,054	80	1,788	23,611	19,720	3,891
Gallatin	4	4	71	697	9.6	---	---	9	695	2	---	16	307	32	1	31
Grundy	6	5	119	1,090	9.2	642	448	8	587	19	503	2	40	281	246	35
Knox	9	9	504	5,254	17.3	2,209	3,045	19	2,235	125	3,019	24	450	4,798	4,598	200
La Salle	12	12	462	3,715	8.0	1,637	2,078	14	1,291	94	2,424	---	---	867	867	---
Livingston	3	3	18	339	18.8	225	114	5	259	10	80	---	---	28	28	---
Macoupin	10	12	2,188	19,286	8.8	18,774	512	37	17,688	118	1,598	592	18,272	11,519	556	10,953
Madison	18	18	1,568	11,452	7.3	10,702	750	58	8,354	125	3,098	315	8,502	19,664	3,251	16,613
Menard	10	10	164	806	4.9	783	25	13	545	20	263	5	350	937	187	750
Mercer	7	7	41	220	5.4	190	30	4	82	18	138	---	---	126	126	---
Montgomery	3	3	415	4,395	10.6	4,395	---	14	4,205	4	190	139	2,065	8,302	517	7,985
Peoria	45	44	1,159	8,456	5.6	2,479	3,977	40	877	240	5,579	18	485	4,077	3,822	255
Perry	22	21	1,405	36,372	25.9	13,412	22,960	98	9,177	895	27,195	42	1,116	21,149	20,777	372
Randolph	12	12	547	10,649	19.5	6,431	4,218	63	7,413	108	3,236	147	2,805	6,657	5,084	1,573
Rock Island	5	5	41	340	8.3	265	75	1	30	23	310	---	---	69	69	---
St. Clair	54	51	1,892	19,403	11.5	12,743	6,660	71	8,727	472	10,676	123	2,881	9,485	7,409	2,076
Saline	16	21	2,370	45,363	19.1	26,069	19,294	40	12,889	1,189	32,474	176	3,947	19,485	18,025	1,460
Sangamon	18	22	2,140	17,569	8.2	10,416	7,153	19	3,015	633	14,554	23	530	6,274	5,849	425
Schuyler	10	10	91	225	2.5	190	35	11	180	1	35	---	---	53	53	---
Shelby	5	5	50	47	1.6	47	---	3	47	---	---	---	---	---	---	---
Stark	6	5	33	37	1.1	2	---	2	35	1	55	---	---	41	41	---
Tazewell	4	4	274	1,740	6.4	1,090	650	2	600	50	1,140	---	---	537	537	---
Vermilion	53	51	2,188	16,045	7.3	7,885	8,362	67	3,917	489	12,128	---	---	7,501	7,501	---
Wabash	4	4	17	91	5.4	91	---	5	90	2	---	---	---	10	10	---
Williamson	73	69	1,428	21,335	14.9	15,819	5,516	106	12,251	288	9,084	292	8,813	10,914	6,997	3,917
Other counties ³	67	68	5,119	71,394	15.9	44,757	26,637	162	25,019	1,603	46,575	300	8,853	53,981	49,838	4,143
INDIANA	248	266	8,541	142,632	16.7	67,926	74,706	553	57,136	2,596	85,496	761	16,405	80,063	70,087	9,976
Clay	42	42	678	15,696	23.2	2,821	12,875	126	11,003	137	4,693	3	35	4,584	4,544	40
Daviess	7	7	72	583	8.1	509	274	9	359	14	224	---	---	141	141	---
Dubois	5	5	18	405	22.5	405	---	13	400	1	5	---	---	9	9	---
Fountain	11	11	53	1,418	26.8	389	1,029	24	1,348	4	70	1	25	26	4	22
Greene	26	31	894	16,515	18.5	6,111	10,404	72	6,073	423	10,442	17	180	11,301	11,101	200
Knox	14	14	1,108	19,796	17.9	11,538	8,258	18	6,101	305	13,695	99	5,439	8,310	4,554	3,756
Martin	5	5	33	60	1.8	60	---	4	60	---	---	---	---	11	11	---

See footnotes at end of table.

TABLE 29.—NUMBER OF OPERATING COMPANIES, NUMBER AND HORSEPOWER RATING OF PRIME MOVERS AND ELECTRIC MOTORS, AND ELECTRIC ENERGY CONSUMED IN THE BITUMINOUS-COAL INDUSTRY IN THE UNITED STATES, BY STATE AND BY COUNTY: 1939¹—Continued

(For producing operations only)

STATE AND COUNTY	Number of operating companies ²	Number of mines	Number of wage earners (average for the year, including inactive periods)	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY								ELECTRIC MOTORS DRIVEN BY ENERGY GENERATED BY REPORTING COMPANIES		ELECTRIC ENERGY CONSUMED (thousands of kilowatt-hours)		
				Aggregate horsepower				Prime movers		Electric motors driven by purchased energy		Number	Horse-power	Total	Purchased	Generated by reporting companies
				Total	Per wage earner	Stationary	Mobile	Number	Horse-power	Number	Horse-power					
INDIANA—Continued																
Parke	13	13	173	1,672	9.7	1,548	124	29	1,644	3	28	16	242	106	41	65
Perry	6	6	38	33	0.9	33		2	33					8	8	
Pike	19	20	911	18,895	20.7	6,965	11,930	43	3,106	378	15,789			17,896	17,896	
Sullivan	23	23	1,024	16,287	15.9	6,230	10,057	61	5,498	420	10,789	28	319	5,091	5,027	64
Vermillion	12	13	428	3,542	8.3	2,065	1,477	30	1,853	37	1,689	173	1,750	2,069	1,348	241
Vigo	33	32	1,705	30,120	17.7	16,418	13,702	62	6,578	690	23,542	59	928	19,050	18,747	303
Warren	5	3	13	60	4.6	60		4	60							
Warrick	29	29	614	6,373	10.4	2,473	3,900	43	2,242	152	4,131			5,968	5,966	
Gibson, Owen, Spencer, and Vanderburgh	12	12	781	11,177	14.5	10,501	676	13	10,778	22	399	362	7,382	5,475	283	5,192
IOWA	264	271	4,565	28,585	6.3	16,279	12,304	267	12,266	673	16,317	44	841	18,014	17,603	411
Adams	9	9	50	316	6.3	316		8	316					15	15	
Appanoose	54	56	930	3,513	3.8	2,213	1,300	37	1,175	132	2,338	4	108	1,013	982	31
Boone	14	13	465	2,774	6.0	1,684	1,110	17	659	88	2,115	2	10	11,852	11,845	9
Dallas	3	3	614	3,685	6.3	2,740	1,145			117	3,885			1,481	1,481	
Greene	5	5	34	308	9.1	234	74	5	144	13	164			60	60	
Guthrie	4	4	80	219	2.7	219		4	219					24	24	
Jasper	5	5	49	330	6.7	235	95	1	25	12	305			91	91	
Kahaska	23	23	200	4,397	22.0	1,512	2,885	55	4,027	30	370	18	410	318	148	169
Marion	59	59	525	2,674	5.1	1,334	1,340	47	2,204	25	470	9	147	250	237	13
Monroe	16	16	186	729	3.9	605	124	23	644	7	85			21	21	
Page	5	6	67	338	5.0	148	190	2	60	10	278			54	54	
Polk	13	13	543	2,866	5.3	1,841	1,025	5	267	117	2,599			891	891	
Van Buren	5	6	29	311	10.7	144	167	11	303	2	8			19	19	
Wapello	27	27	199	1,243	6.2	696	547	35	1,220	3	23	3	18	116	100	16
Warren	6	6	100	1,707	17.1	1,147	560	3	330	53	1,377	5	115	672	508	164
Wayne	5	5	69	123	1.8	123		3	120	2	3			65	65	
Webster	4	4	41	30	0.7	30		1	30					13	13	
Davis, Jefferson, Lucas, and Taylor	11	11	384	2,820	7.3	1,078	1,742	10	523	62	2,297	3	35	1,061	1,051	10
KANSAS	91	93	2,376	22,795	9.6	11,105	11,690	151	8,486	643	14,309	1	32	20,296	20,268	28
Crawford	42	42	1,345	13,818	10.3	7,458	6,360	59	3,860	438	9,958			12,277	12,277	
Franklin	4	4	39	200	5.1	135	65	4	86	9	114			77	77	
Labette	4	4	11	851	77.4	216	635	18	851					44	44	
Linn	8	8	39	295	7.6	245	50	17	295					7	7	
Osage	18	19	229	1,357	5.9	607	750	11	370	67	987			239	239	
Bourbon, Cherokee, and Leavenworth	16	16	713	6,274	8.8	2,444	3,830	42	3,024	129	3,250	1	32	7,652	7,624	28
KENTUCKY	424	478	46,826	258,717	5.5	115,705	143,012	301	37,324	8,366	221,393	1,271	33,112	195,111	170,043	25,068
Bell	49	49	2,368	15,861	6.7	8,497	9,364	18	2,511	445	13,350	66	1,022	9,925	8,879	1,046
Boyd	9	9	71	355	5.0	293	60	6	293	3	60	4	75	75	3	66
Butler	6	6	38	284	7.5	284		6	284					3	3	
Clay	9	9	377	1,798	4.8	1,463	335	4	811	34	987			795	790	5
Davless	16	17	120	606	5.1	606		19	606					14	14	
Floyd	20	23	5,030	23,011	4.6	9,365	13,646	4	3,340	1,021	19,671	151	4,564	24,105	18,951	5,154
Greenup	3	3	6	60	10.0	60		2	60					4	4	
Harlan	42	52	13,241	73,157	5.5	26,416	46,741	8	1,518	2,499	71,639			64,647	62,544	2,103
Henderson	12	12	144	1,220	8.5	1,220		12	1,100	9	120	22	537	310	29	281
Hopkins	48	52	2,897	21,420	7.4	11,794	9,626	32	1,606	736	19,814	5	250	14,544	14,501	43
Jackson	8	8	448	728	1.6	618	110	4	595	7	133	23	648	318	78	240
Knott	4	4	508	3,115	6.1	1,398	1,717			102	3,115			1,576	1,576	
Knox	8	8	897	3,048	3.4	961	2,087	9	704	59	2,344	16	228	2,314	2,095	219
Laurel	12	13	100	383	3.8	238	145	7	273	4	110	5	180	270	170	100
Lee	7	7	35	87	2.5	87		7	87					8	8	
Letcher	15	20	4,185	27,082	6.5	8,348	18,734	3	77	1,151	27,005	1	35	17,965	17,954	31
McLean	4	4	11	232	21.1	197	35	5	197	1	35			7	7	
Muhlenberg	27	30	2,669	13,685	5.1	8,861	4,794	44	3,648	364	10,037	187	4,555	6,438	4,760	1,678
Ohio	11	11	283	1,535	5.4	930	605	19	537	40	998	4	195	537	531	6
Perry	26	32	4,306	23,062	5.4	7,632	15,430	1	30	841	23,032			17,733	17,733	
Pike	31	33	3,866	21,137	5.5	10,283	10,874	12	5,948	464	15,189	216	7,500	19,781	11,877	8,384
Rockcastle	7	7	39	180	4.6	180		4	180					48	17	31
Union	6	6	762	3,238	4.2	1,800	1,438	19	1,460	77	1,778	49	861	1,676	1,235	441
Webster	14	16	1,316	5,548	4.2	3,076	2,472	11	1,211	179	4,337	62	1,600	2,377	2,309	63
Whitley	9	9	678	2,343	3.5	1,205	1,138	15	1,419	46	924	105	1,815	827	586	241
Christian and Hancock	4	4	74	1,264	17.1	738	526	8	846	32	418			188	188	
Other counties ⁴	29	34	2,355	14,280	6.1	11,145	3,135	22	7,983	252	6,297	354	9,012	8,646	3,715	4,931
MARYLAND	76	83	2,100	11,721	5.6	7,751	3,990	49	4,483	388	7,238	140	4,745	8,506	3,177	5,329
Allegany	51	56	1,263	7,709	6.1	4,082	3,627	21	1,392	343	6,317	15	440	3,272	3,038	254
Garrett	25	27	837	4,012	4.8	3,649	363	28	3,091	45	921	125	4,305	5,234	139	5,095
MICHIGAN	11	11	802	6,940	8.7	6,605	335	23	5,898	71	1,042	140	3,124	3,347	1,040	2,307
Bay	3	3	110	980	8.9	980		6	980			15	342	161	42	119
Saginaw	6	5	262	1,531	5.8	1,311	220	10	1,220	16	311	26	552	1,138	400	758
Shiawassee and Tuscola	3	3	430	4,429	10.3	4,314	115	7	3,698	55	731	99	2,230	2,048	598	1,450

See footnotes at end of table.

TABLE 29.—NUMBER OF OPERATING COMPANIES, NUMBER AND HORSEPOWER RATING OF PRIME MOVERS AND ELECTRIC MOTORS, AND ELECTRIC ENERGY CONSUMED IN THE BITUMINOUS-COAL INDUSTRY IN THE UNITED STATES, BY STATE AND BY COUNTY: 1939¹—Continued

(For producing operations only)

STATE AND COUNTY	Number of operating companies ²	Number of mines	Number of wage earners (average for the year, including inactive periods)	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY								ELECTRIC MOTORS DRIVEN BY ENERGY GENERATED BY REPORTING COMPANIES		ELECTRIC ENERGY CONSUMED (thousands of kilowatt-hours)		
				Aggregate horsepower				Prime movers		Electric motors driven by purchased energy		Number	Horsepower	Total	Purchased	Generated by reporting companies
				Total	Per wage earner	Stationary	Mobile	Number	Horsepower	Number	Horsepower					
MISSOURI	179	180	3,275	37,337	11.4	20,159	17,178	297	15,954	870	21,403	63	1,723	19,634	18,900	734
Adair	8	8	170	742	4.4	562	180	5	325	17	417	15	383	281	227	54
Boone	6	6	26	610	23.5	275	335	22	569	9	41	13	237	21	21	80
Clay	6	6	287	1,449	5.0	1,224	225	10	1,063	16	386	1	30	249	169	27
Harrison	3	3	49	170	3.5	170		6	170					31	4	
Henry	13	12	273	6,439	23.6	1,576	4,863	44	5,182	154	3,257			4,422	4,422	
Lafayette	19	22	753	3,783	5.2	3,166	617	23	2,334	86	1,449	18	563	846	362	464
Linn	6	6	187	289	1.5	204	85	3	80	10	209			178	178	
Putnam	17	17	72	295	4.1	295		8	295					34	34	
Randolph	14	15	339	4,189	12.4	3,156	1,033	9	243	135	3,946			2,727	2,727	
Ray	25	24	576	2,246	6.0	1,776	470	19	1,043	74	1,203	11	305	387	318	69
Vernon	10	9	57	1,000	17.5	586	614	21	893	16	107			38	38	
Other counties ³	52	52	706	16,125	22.6	7,369	8,756	127	5,737	353	10,388	5	205	10,420	10,380	40
MONTANA	58	59	1,193	23,539	19.7	8,628	14,911	73	2,732	703	20,807	17	988	88,000	87,814	186
Chouteau	3	3	14	211	15.1	189	22	9	189	1	22					
Custer	3	3	10	92	9.2	92		4	92							
Hill	4	4	9	130	14.4	130		7	130							
Musselshell	14	14	538	10,351	19.2	4,687	5,664	21	583	298	9,768	1	30	8,976	8,949	27
Powder River	4	4	3	68	22.0	22	44	5	66					34	34	
Other counties ³	30	31	619	12,689	20.5	3,508	9,181	27	1,672	404	11,017	16	958	78,990	78,851	159
NEW MEXICO	37	42	2,193	21,352	9.7	16,245	5,107	41	11,475	362	9,877	140	6,604	12,114	5,307	6,807
Colfax	12	14	943	7,933	8.4	3,123	4,810	5	98	275	7,835			4,910	4,910	
McKinley	14	14	908	8,537	9.4	8,320	217	19	7,125	56	1,412	106	4,799	4,679	339	4,340
Sandoval	3	3	21	227	10.8	227		4	227							
Bernalillo, Rio Arriba, San Juan, Santa Fe, and Socorro	8	11	321	4,855	14.5	4,575	80	13	4,025	31	630	34	1,805	2,525	58	2,467
OHIO	614	656	17,385	130,675	7.5	64,082	66,593	656	53,941	2,821	76,734	728	20,786	89,020	69,005	20,015
Athens	26	26	2,086	10,321	4.9	6,678	3,643	27	4,105	239	6,216	90	2,459	8,013	6,549	1,464
Belmont	39	43	4,737	28,040	5.9	12,816	15,224	41	6,575	801	21,435	138	6,736	29,816	22,964	6,852
Carroll	25	27	371	3,654	9.8	1,825	1,829	37	2,007	55	1,647	37	521	1,186	1,016	170
Columbiana	41	51	394	6,569	16.7	3,890	2,879	51	4,484	130	2,105	28	393	1,246	1,158	88
Coshocton	42	43	229	3,678	16.1	2,278	1,398	47	2,282	71	1,594	11	201	613	519	94
Gallia	6	6	45	245	5.4	130	65	4	180	2	65	2	60	17	9	8
Guernsey	20	20	470	3,840	8.2	2,574	1,266	13	903	129	2,937	2	32	2,390	2,362	28
Harrison	20	20	1,242	10,568	8.3	4,440	5,928	28	3,755	177	6,832	113	2,915	12,558	9,637	5,621
Hocking	25	25	245	2,863	11.7	1,822	1,041	25	1,475	74	1,598	9	219	563	466	97
Holmes	9	9	59	475	8.1	259	216	9	296	13	179			41	41	
Jackson	23	23	237	1,768	7.5	209	1,559	26	1,638	5	130	41	855	608	172	438
Jefferson	53	55	3,655	23,216	6.4	10,194	13,022	64	6,041	510	17,175	106	3,870	19,438	15,968	3,452
Lawrence	14	14	99	328	3.3	208	120	5	168	6	160	1	40	83	48	35
Mahoning	19	20	208	4,181	20.1	1,762	2,419	24	2,704	54	1,477			675	675	
Medina	3	3	8	169	21.1	169		3	169					3	3	
Meigs	24	24	218	2,327	10.7	1,554	773	13	922	67	1,405	5	128	468	444	24
Muskingum	35	35	577	4,709	8.2	3,214	1,495	29	3,105	62	1,604	37	504	3,544	3,261	283
Perry	64	65	1,152	6,596	5.7	2,681	3,917	41	1,920	200	4,678	23	419	3,411	2,997	414
Portage	3	3	38	678	17.8	90	588	5	648	3	30	5	120	154	148	6
Stark	31	34	317	4,291	13.5	1,077	3,214	54	3,707	34	584	30	538	917	248	653
Tuscarawas	85	85	797	8,875	11.1	4,426	4,449	81	5,133	133	3,742	48	728	2,804	2,557	247
Vinton	14	15	94	2,048	21.8	1,177	871	24	1,623	15	425	1	30	61	34	27
Hamilton, Morgan, Noble, Washington, and Wayne	11	10	107	1,436	13.4	759	677	5	130	61	1,306	1	18	411	395	16
OKLAHOMA	86	88	1,409	20,474	14.5	10,092	10,382	88	7,476	666	12,996			6,234	6,234	
Coal	7	7	40	168	4.0	127	31			20	158			79	79	
Craig	3	3	12	555	46.3	153	402	9	554	1	1			7	7	
Latimer	3	3	11	150	13.6	115	35	2	115	1	35			1,333	1,333	
Le Flore	29	29	492	6,028	12.3	4,019	2,009	12	1,865	237	4,343					
Muskogee	4	4	19	408	21.5	104	304	7	408							
Oklmulgee	9	9	211	2,591	12.3	965	1,626			139	2,591			982	982	
Pittsburg	17	18	297	4,322	14.6	3,532	790	24	2,174	73	2,148			452	452	
Tulsa	6	6	80	557	7.0	362	195	4	163	26	394			123	123	
Haskell and Sequoyah	5	4	75	1,686	22.5	275	1,411	18	1,366	20	320			61	61	
Rogers and Wagoner	4	5	172	4,019	23.4	440	3,579	13	1,011	149	3,008			3,197	3,197	
PENNSYLVANIA	1,046	1,258	93,033	829,350	8.9	492,137	337,213	858	206,986	19,363	622,364	7,736	209,195	734,996	523,461	211,537
Allegheny	138	155	11,205	100,757	9.0	51,822	48,935	88	7,144	2,994	93,613	467	16,682	102,518	83,054	19,464
Armstrong	28	29	3,194	33,646	10.5	20,802	12,844	14	6,871	801	24,775	308	8,172	24,026	13,310	10,716
Beaver	23	23	379	4,447	11.7	1,216	3,231	50	3,271	52	1,176	14	205	1,277	1,175	102
Bedford	17	18	477	2,755	5.7	2,325	410	7	357	88	2,378	22	295	1,436	934	502
Blair	11	14	310	1,380	4.5	941	439			61	1,380	2	7	777	771	8
Butler	55	57	996	6,964	7.0	4,248	2,716	33	1,497	287	5,467	14	300	2,859	2,808	31
Cambria	145	177	17,276	140,997	8.2	91,239	49,758	94	39,580	3,276	101,437	2,890	54,847	149,943	92,121	57,822
Centre	36	38	697	3,896	5.6	2,834	1,062	12	1,069	120	2,827	11	690	2,171	1,633	538
Clarion	33	35	1,341	9,498	7.1	2,470	7,028	36	2,376	347	7,122	1	35	4,834	4,702	132
Clearfield	106	117	4,404	29,153	6.6	18,771	10,382	57	9,556	808	19,795	259	9,158	28,916	20,215	8,701
Clinton	10	10	57	1,114	19.5	1,079		3	662	26	452			46	46	

See footnotes at end of table.

TABLE 29.—NUMBER OF OPERATING COMPANIES, NUMBER AND HORSEPOWER RATING OF PRIME MOVERS AND ELECTRIC MOTORS, AND ELECTRIC ENERGY CONSUMED IN THE BITUMINOUS-COAL INDUSTRY IN THE UNITED STATES, BY STATE AND BY COUNTY: 1939¹—Continued

(For producing operations only)

STATE AND COUNTY	Number of operating companies ²	Number of mines	Number of wage earners (average for the year, including inactive periods)	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY								ELECTRIC MOTORS DRIVEN BY ENERGY GENERATED BY REPORTING COMPANIES		ELECTRIC ENERGY CONSUMED (thousands of kilowatt-hours)		
				Aggregate horsepower				Prime movers		Electric motors driven by purchased energy		Number	Horsepower	Total	Purchased	Generated by reporting companies
				Total	Per wage earner	Stationary	Mobile	Number	Horsepower	Number	Horsepower					
PENNSYLVANIA—Con.																
Fayette	81	107	12,206	107,939	8.8	51,557	56,382	98	9,973	2,582	97,966	72	1,714	93,948	93,758	190
Greene	14	14	3,247	45,297	14.0	23,983	21,314	22	4,640	932	40,657	49	1,167	30,984	30,813	171
Huntingdon	9	10	703	3,721	5.3	2,916	805	5	80	116	3,641	—	—	4,724	4,724	—
Indiana	35	42	5,845	56,232	9.6	40,746	15,466	14	32,763	1,015	23,469	1,684	51,513	66,854	18,544	48,310
Jefferson	37	37	1,968	9,197	4.7	7,024	2,173	24	5,477	190	3,720	352	14,466	16,963	2,965	13,996
Lycoming	10	9	92	478	5.2	222	256	9	478	—	—	—	—	49	49	—
Mercer	12	14	215	2,416	11.2	1,348	1,068	17	1,407	78	1,009	—	—	406	406	—
Somerset	86	106	5,478	66,534	12.1	51,892	14,442	48	35,681	1,226	30,653	1,267	28,646	46,765	21,020	25,745
Tioga	13	14	329	2,272	6.9	431	1,841	20	1,469	34	803	11	110	921	859	62
Venango	5	5	56	179	3.2	130	49	4	151	5	28	6	77	19	16	3
Washington	73	94	13,984	112,724	8.1	55,117	57,607	95	15,205	2,645	97,519	42	1,359	96,310	93,087	3,223
Westmoreland	96	113	6,990	73,245	10.5	49,982	23,363	90	18,344	1,408	54,901	318	14,584	49,362	29,581	19,781
Crawford and Lawrence	8	8	406	2,800	6.9	1,185	1,615	11	761	81	2,039	6	74	2,833	2,784	49
Bradford, Cameron, Elk, Forest, Fulton, and Warren	18	22	1,178	11,929	10.1	8,157	3,772	15	6,392	191	5,537	141	5,314	6,077	4,086	1,991
TENNESSEE																
Anderson	114	123	7,061	46,268	6.5	28,339	17,929	80	12,353	1,338	33,915	136	3,380	22,204	21,144	1,060
Campbell	12	14	1,255	8,826	7.0	5,191	3,635	10	2,410	187	6,416	2	85	3,454	3,336	118
Claiborne	28	30	1,826	13,820	7.6	7,852	5,968	14	3,085	478	10,755	—	—	6,124	6,124	—
Cumberland	10	11	1,676	8,959	5.3	4,088	4,871	5	1,426	284	7,513	14	607	5,582	5,198	384
Hamilton	4	4	14	85	4.6	85	—	2	65	—	—	—	—	4	4	—
Putnam	7	7	39	151	3.9	151	—	5	151	—	—	—	—	—	—	—
Scott	3	3	55	830	15.1	760	70	3	630	10	200	—	—	28	28	—
White	10	10	189	950	5.0	801	149	10	750	10	200	—	—	285	280	5
Fentress, Morgan, and Overton	4	4	12	104	8.7	104	—	4	104	—	—	—	—	7	7	—
Bledsoe, Grundy, Marion, Rhea, Sequatchie, and Van Buren	16	16	692	3,250	4.7	2,350	900	8	2,010	30	1,240	120	2,688	2,423	1,870	553
TEXAS	23	24	1,323	9,333	7.1	6,997	2,336	19	1,722	339	7,611	—	—	4,297	4,297	—
UTAH	4	4	75	1,288	17.2	1,243	45	9	1,218	8	70	—	—	65	50	15
Carbon	50	51	2,328	40,190	17.3	21,007	19,183	38	2,646	1,137	37,544	3	72	24,028	23,964	64
Summit	26	27	1,874	30,906	16.5	15,580	15,326	8	320	884	30,086	2	35	17,846	17,815	31
Emery, Grand, Iron, Sevier, and Uintah	4	4	34	307	9.0	297	10	1	30	18	277	—	—	56	56	—
VIRGINIA	20	20	420	8,977	21.4	5,130	3,847	29	1,796	235	7,181	1	37	6,126	6,093	33
Buchanan	91	112	15,065	63,240	5.5	31,802	31,438	46	6,167	2,700	77,073	89	4,270	58,653	56,152	2,501
Dickenson	15	16	3,615	15,659	3.8	4,613	9,046	3	147	448	13,512	—	—	12,699	12,699	—
Lee	6	7	1,642	10,866	6.5	3,033	7,833	5	550	334	10,116	—	—	7,839	7,839	—
Tazewell	17	22	1,777	8,321	4.7	3,733	4,588	9	546	304	7,775	19	624	5,815	5,725	90
Wise	12	14	3,084	18,473	6.0	8,057	10,416	3	2,518	508	15,955	70	3,646	12,352	9,941	2,411
Montgomery and Pulaski	24	30	3,705	23,098	6.2	7,958	15,140	8	402	840	22,696	—	—	16,826	16,826	—
Russell and Scott	5	5	375	2,470	6.6	2,380	90	8	1,860	51	610	—	—	506	506	—
WASHINGTON	16	18	897	6,553	7.6	2,028	4,525	10	144	255	6,409	—	—	2,616	2,616	—
King	42	52	2,219	34,333	15.5	29,211	5,122	37	6,523	959	27,810	—	—	18,773	18,757	16
Lewis	19	24	838	9,134	10.9	8,239	895	11	440	306	8,694	—	—	7,382	7,366	16
Pierce	6	6	43	864	20.1	745	119	7	459	28	405	—	—	225	225	—
Kittitas, Thurston, and Whatcom	10	10	64	828	12.9	753	75	5	395	16	433	—	—	260	260	—
WEST VIRGINIA	8	12	1,274	23,507	18.5	19,474	4,033	14	5,229	609	18,278	—	—	10,906	10,906	—
Barbour	557	721	94,084	764,029	8.1	365,646	398,383	380	117,643	20,135	646,386	3,308	109,537	651,786	531,139	120,647
Boone	13	12	1,391	5,288	3.8	1,810	3,478	1	150	168	5,138	6	110	4,510	4,110	400
Brooke	15	19	2,918	26,945	9.2	10,574	16,371	5	281	791	26,664	1	35	15,456	15,425	31
Fayette	24	26	637	12,151	14.5	4,683	7,448	32	2,076	333	10,055	—	—	7,041	7,041	—
Greenbrier	44	67	11,266	96,907	8.6	36,261	60,646	30	8,649	2,774	88,258	404	10,268	82,502	77,287	5,215
Hancock	19	19	1,627	11,614	7.3	3,625	8,189	8	76	351	11,738	—	—	6,634	6,634	—
Harrison	7	7	109	1,865	17.1	1,028	859	14	1,580	17	285	3	57	352	159	193
Kanawha	30	31	2,404	15,054	6.3	3,769	11,285	27	1,673	429	13,381	30	1,053	12,146	11,081	1,065
Logan	34	47	8,108	44,057	7.2	17,217	26,840	9	795	1,290	43,282	51	1,328	28,555	27,887	688
McDowell	56	80	10,763	97,701	9.1	43,786	53,915	11	12,730	3,141	84,971	472	14,274	66,468	71,679	14,789
Marion	50	73	17,871	127,494	7.1	83,894	43,600	41	43,099	2,656	84,595	1,145	41,463	143,701	85,853	57,848
Mason	19	26	6,155	47,596	7.7	26,521	21,075	28	9,360	919	38,236	3	50	39,235	39,060	175
Mercer	12	10	142	1,361	9.6	1,126	235	11	838	30	523	3	65	412	372	40
Mineral	12	15	3,292	25,411	7.7	10,112	15,299	22	600	795	24,811	—	—	15,188	15,188	—
Mingo	9	8	349	2,281	6.5	786	1,495	3	81	45	2,200	—	—	461	461	—
Monongalia	17	20	2,846	21,706	7.6	7,517	14,189	7	705	635	21,001	—	—	16,491	16,491	—
Nicholas	40	40	3,536	40,882	11.8	15,230	25,652	15	426	939	40,456	1	35	39,454	39,423	31
Preston	18	18	73	199	2.7	199	—	14	199	—	—	3	30	55	55	—
Raleigh	31	32	823	7,050	8.6	5,349	1,701	16	4,978	62	2,072	33	1,135	1,761	1,492	289
Randolph	55	78	12,001	97,766	8.1	46,106	51,660	23	6,477	2,652	91,289	487	18,197	91,055	78,743	12,312
Taylor	19	18	1,105	6,210	5.6	4,301	1,909	22	4,333	67	1,877	175	4,325	2,466	642	1,604
Upshur	11	12	525	4,487	8.5	1,806	2,681	5	280	115	4,187	—	—	2,172	2,172	—
Wayne	7	7	79	593	4.8	133	250	2	383	—	—	9	605	222	222	—
Wyoming	3	3	50	630	27.7	830	—	3	630	10	200	—	—	36	36	—
Yonkers	17	17	2,868	21,452	7.5	11,016	10,436	12	5,740	783	15,712	140	4,179	21,721	10,496	11,225

See footnotes at end of table.

TABLE 29.—NUMBER OF OPERATING COMPANIES, NUMBER AND HORSEPOWER RATING OF PRIME MOVERS AND ELECTRIC MOTORS, AND ELECTRIC ENERGY CONSUMED IN THE BITUMINOUS-COAL INDUSTRY IN THE UNITED STATES, BY STATE AND BY COUNTY: 1939¹—Concluded

(For producing operations only)

STATE AND COUNTY	Number of operating companies ²	Number of mines	Number of wage earners (average for the year, including inactive periods)	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY								ELECTRIC MOTORS DRIVEN BY ENERGY GENERATED BY REPORTING COMPANIES		ELECTRIC ENERGY CONSUMED (thousands of kilowatt-hours)		
				Aggregate horsepower				Prime movers		Electric motors driven by purchased energy		Number	Horsepower	Total	Purchased	Generated by reporting companies
				Total	Per wage earner	Stationary	Mobile	Number	Horsepower	Number	Horsepower					
WEST VIRGINIA—Con.																
Clay and Putnam-----	12	12	1,558	11,903	7.6	7,507	4,396	13	4,406	97	7,497	155	4,351	12,751	4,599	8,152
Grant and Tucker-----	6	9	542	5,600	10.3	5,595	5	7	5,580	2	20	161	6,703	5,579	18	5,561
Marshall and Ohio-----	16	17	1,764	18,659	10.6	9,077	9,582	10	625	454	18,034	17	339	10,332	10,210	122
Braxton, Gilmer, Lewis, and Webster-----	15	18	1,106	11,017	10.0	5,790	5,227	9	893	380	10,124	29	947	5,250	4,568	682
WYOMING-----	53	66	4,074	52,237	12.8	38,146	14,091	76	25,310	986	28,927	999	32,800	41,959	12,016	29,943
Converse-----	4	4	9	190	21.1	88	104	9	170	1	20	-----	-----	8	6	-----
Hot Springs-----	8	8	101	718	7.1	433	285	7	263	32	455	2	15	258	245	13
Other counties ³ -----	41	54	3,964	51,329	12.9	37,627	13,702	60	24,877	953	26,452	997	32,785	41,695	11,765	29,930
ARIZONA, GEORGIA, ⁴ IDAHO, AND OREGON ⁵ -----	6	6	120	126	1.0	50	76	4	116	1	10	-----	-----	20	20	-----

¹ For definition of the industry see footnote 1 to tables 1 and 2.² Companies with operations in more than 1 State or county are counted only once in the totals.³ Adams, Bond, Bureau, Christian, Clinton, Crawford, Edgar, Greene, Hancock, Henry, Jackson, Jefferson, Logan, Macon, Marion, Morgan, Scott, Warren, Washington, White, Will, and Woodford.⁴ Breathitt, Carter, Elliott, Johnson, Lawrence, McCreary, Lagoffin, Martin, Morgan, Owsley, Pulaski, and Wolfe.⁵ Barton, Bates, Callaway, Chariton, Clark, Dade, Daviess, Grundy, Howard, Jasper, Johnson, Lincoln, Macon, Monroe, Morgan, Platte, Ralls, and Warren.⁶ Blaine, Carbon, Cascade, Fergus, Flathead, Gallatin, Judith Basin, Park, Phillips, Pondera, and Rosebud.⁷ Palo Pinto, Webb, and Wise Counties.⁸ Campbell, Carbon, Crook, Fremont, Johnson, Lincoln, Natrona, Sheridan, Sweetwater, and Uinta.⁹ Arizona: Coconino and Navajo Counties; Georgia: Dade and Walker; Idaho: Teton; and Oregon: Coos. Idaho and Oregon reported no power equipment or consumption of electric energy.

TABLE 30.—SELECTED STATISTICS FOR SMALL OPERATIONS IN THE BITUMINOUS-COAL INDUSTRY IN THE UNITED STATES, BY STATE AND BY COUNTY: 1939¹

(For producing operations only)

STATE AND COUNTY	Number of mines	PRODUCTION OF COAL		Number of wage earners (average for the year)	NUMBER OF PROPRIETORS AND FIRM MEMBERS		STATE AND COUNTY	Number of mines	PRODUCTION OF COAL		Number of wage earners (average for the year)	NUMBER OF PROPRIETORS AND FIRM MEMBERS	
		Tons of 2,000 pounds	Value at mine		Total	Per-forming manual labor			Tons of 2,000 pounds	Value at mine		Total	Per-forming manual labor
UNITED STATES	3,046	1,089,332	\$2,190,481	2,329	4,194	3,646	IOWA—Continued						
ALABAMA	82	32,920	70,650	128	114	93	Monroe	5	3,688	\$7,010	7	11	11
Blount	4	1,612	3,184	5	5	4	Wapello	5	1,289	3,033	4	6	6
Cullman	4	2,112	5,281	12	6	5	Webster	3	1,060	3,916	3	2	2
Jackson	3	796	2,205	9	3	2	Boone, Davis, Jasper, Polk, Van Buren, and Wayne	8	3,172	7,919	9	10	8
Jefferson	23	9,729	19,317	33	31	26	KANSAS	66	22,066	46,293	57	103	94
Marion	9	3,949	7,325	14	16	14	Cherokee	12	3,347	6,447	6	21	20
Tuscaloosa	9	2,603	6,179	9	13	11	Crawford	16	7,319	13,062	12	26	25
Walker	21	8,600	18,743	29	28	21	Franklin	7	1,436	3,544	4	13	12
Bibb, De Kalb, Etowah, Madison, Shelby, and Winston	9	3,519	8,436	17	12	10	Linn	9	3,689	6,306	9	13	7
ARKANSAS	38	10,746	26,452	26	55	51	Osage	14	5,117	14,293	22	20	20
Franklin	4	737	2,161	2	7	7	Bourbon, Coffey, and Leavenworth	8	1,158	2,641	4	10	10
Johnson	5	2,341	6,157	10	7	6	KENTUCKY	336	86,074	134,886	228	435	372
Sebastian	24	5,983	12,826	5	35	33	Bell	11	4,086	6,663	13	12	7
Logan and Pope	5	1,685	5,208	9	6	5	Boyd	4	1,705	3,345	9	5	5
COLORADO	111	48,279	119,442	96	155	127	Breathitt	3	1,010	1,448	1	4	3
Boulder	3	1,942	4,472	4	2	2	Rutler	16	4,683	7,077	16	21	21
Delta	6	2,140	5,035	8	6	5	Carter	30	6,123	11,963	20	32	30
Fremont	12	4,871	11,783	10	17	14	Davless	9	3,286	4,132	5	17	16
Garfield	8	4,042	10,619	8	10	6	Elliott	4	1,001	2,028	7	7	6
Gunnison	5	3,253	9,099	1	9	9	Floyd	15	2,818	4,164	4	20	18
Huerfano	7	2,930	6,948	10	12	11	Greenup	8	1,325	2,302	3	10	9
La Plata	6	4,220	9,589	7	7	5	Harlan	10	2,788	4,683	6	15	11
Las Animas	24	9,088	21,891	20	35	26	Hopkins	14	5,022	5,684	8	19	18
Mesa	5	2,786	7,883	3	8	8	Jackson	7	2,392	4,619	9	12	8
Moffat	4	1,793	3,080	3	6	6	Johnson	4	2,378	3,791	7	7	4
Montezuma	3	1,579	5,045	3	4	4	Knox	5	1,175	1,703	5	6	4
Rio Blanco	7	3,240	8,024	6	7	6	Laurel	4	1,103	1,801	4	5	4
Routt	13	3,142	6,811	7	21	17	Lawrence	20	1,807	3,104	5	22	18
Archuleta, El Paso, Jackson Montrose, Ouray, and San Miguel	8	3,253	8,953	6	11	8	Lee	12	1,453	2,629	4	15	12
ILLINOIS	174	59,785	130,148	138	258	228	Leslie	3	188	213	2	4	3
Fulton	26	8,513	15,397	13	38	35	Letcher	13	3,040	4,076	8	13	8
Gallatin	4	1,029	1,480	2	6	6	McCreary	4	1,180	2,551	6	4	3
Greene	16	4,028	9,801	13	18	15	McLean	7	2,702	3,968	7	9	8
Jackson	4	1,545	2,462	4	6	6	Martin	5	698	856	1	6	3
Jefferson	4	409	1,007	2	5	5	Morgan	15	3,187	7,279	8	19	17
Knox	14	3,397	5,833	9	22	16	Muhlenberg	26	8,681	7,656	21	30	30
La Salle	9	2,720	7,582	2	18	16	Ohio	25	5,620	7,139	11	40	40
Livingston	3	1,932	4,996	4	3	3	Perry	11	4,217	6,559	8	14	9
McDonough	8	3,485	9,591	11	12	12	Pike	20	4,944	7,006	11	24	19
Madison	4	1,429	3,358	2	9	8	Rockcastle	3	563	1,134	4	3	2
Marshall	5	2,239	4,777	4	9	9	Whitley	14	3,953	6,994	10	21	21
Mercer	6	973	2,502	2	13	11	Other counties ³	14	4,994	7,729	12	19	15
Peoria	12	4,137	9,260	10	19	15	MARYLAND	29	9,579	18,506	15	41	36
Rock Island	3	727	2,369	3	5	5	Allegany	14	5,622	11,915	8	19	17
Schuyler	8	3,294	8,162	7	13	12	Garrett	15	3,957	6,591	7	22	19
Shelby	5	1,902	6,438	9	5	4	MISSOURI	133	48,653	103,867	148	180	158
Vermillion	9	5,151	9,225	10	9	8	Adair	4	1,635	3,772	6	8	8
Williamson	8	2,419	2,981	7	10	10	Audrain	3	1,087	2,627	4	3	3
Other counties ²	26	10,456	22,947	24	38	32	Barton	10	3,775	7,075	5	16	12
INDIANA	181	54,242	92,706	83	275	269	Bates	21	7,236	12,733	10	29	26
Clay	35	10,029	18,658	11	54	54	Boone	16	5,958	12,215	12	21	20
Davless	7	2,422	4,398	3	11	11	Dade	3	575	1,172	1	3	3
Fountain	12	5,352	10,989	9	19	17	Henry	2	1,887	4,465	7	9	7
Greene	9	2,676	3,997	3	15	15	Johnson	3	996	2,451	4	3	3
Martin	14	3,350	6,425	6	21	20	Lafayette	18	8,037	19,641	36	24	20
Owen	5	1,004	1,777	2	9	9	Putnam	6	3,642	5,960	11	8	5
Parke	20	4,803	8,225	4	34	34	Ralls	7	2,160	5,083	8	6	8
Perry	6	1,808	2,806	4	8	8	Randolph	7	1,952	3,526	4	9	8
Pike	12	3,297	4,086	7	17	17	Ray	10	4,787	12,274	22	16	15
Spencer	9	3,019	5,898	4	11	10	St. Clair	4	1,388	3,217	4	6	6
Sullivan	4	587	802	6	6	6	Other counties ⁴	13	3,538	7,656	14	17	14
Vermillion	17	3,919	7,038	9	25	23	MONTANA	166	57,836	172,370	121	224	200
Vigo	17	6,707	10,266	13	25	25	Blaine	11	2,703	8,401	7	13	12
Warrick	9	4,020	5,050	5	13	13	Carbon	20	6,703	22,463	14	31	28
Dubois, Knox, and Warren	5	1,447	2,509	3	7	7	Cascade	34	11,423	32,845	22	49	41
IOWA	50	20,465	46,175	61	67	63	Chouteau	5	3,048	10,468	8	6	6
Adams	5	3,295	9,392	18	6	6	Custer	3	723	1,069	5	5	5
Appanoose	8	2,963	5,619	9	10	10	Fergus	27	7,105	17,469	8	33	26
Lucas	3	834	1,618	2	3	3	Gallatin	3	2,007	5,724	5	3	2
Malaska	6	1,810	3,360	4	5	5	Golden Valley	3	1,145	3,371	4	4	4
Marion	7	2,354	4,308	5	14	12	Hill	8	3,599	11,244	12	11	11
							Judith Basin	8	2,159	7,366	4	13	11

See footnotes at end of table.

TABLE 30.—SELECTED STATISTICS FOR SMALL OPERATIONS IN THE BITUMINOUS-COAL INDUSTRY IN THE UNITED STATES, BY STATE AND BY COUNTY: 1939—Continued
(For producing operations only)

STATE AND COUNTY	Number of mines	PRODUCTION OF COAL		Number of wage earners (average for the year)	NUMBER OF PROPRIETORS AND FIRM MEMBERS		STATE AND COUNTY	Number of mines	PRODUCTION OF COAL		Number of wage earners (average for the year)	NUMBER OF PROPRIETORS AND FIRM MEMBERS	
		Tons of 2,000 pounds	Value at mine		Total	Per-forming manual labor			Tons of 2,000 pounds	Value at mine		Total	Per-forming manual labor
MONTANA—Continued							TENNESSEE						
McCone	5	2,471	\$4,553	2	7	7		65	22,135	\$42,960	72	92	74
Musselshell	11	3,635	10,776	3	14	13	Anderson	13	5,328	9,680	11	20	17
Pondera	7	2,493	13,705	16	7	6	Campbell	28	7,906	16,478	38	37	28
Powder River	3	1,769	2,264	2	3	3	Cumberland	6	2,217	4,395	10	6	5
Rosebud	6	1,537	3,110	3	8	8	Hamilton	3	2,076	5,144		9	8
Other counties ¹	12	5,516	17,462	15	17	17	Marion	5	1,662	3,062	5	8	8
NEW MEXICO							Morgan	4	1,681	2,747	5	5	4
Colfax	5	2,122	5,276	7	6	5	Scott	3	775	914	2	4	3
McKinley	4	2,241	7,019	4	8	6	Grundy and Sequatchie	3	490	540	1	3	1
San Juan	4	1,844	4,044	5	5	3	UTAH						
Rio Arriba, Sandoval, and Socorro	5	1,556	4,785	3	8	7		20	6,074	16,639	16	29	26
OHIO							Carbon	6	3,498	6,811	4	7	6
Athens	9	3,536	6,643	13	8	7	Emery	3	1,655	2,866	5	4	4
Belmont	29	9,433	15,179	17	39	32	Kane	4	939	2,415	2	5	3
Carroll	12	5,828	10,647	8	23	3	Duchesne, Garfield, Iron, and Summit	7	1,982	4,527	5	13	13
Columbiana	28	10,533	20,986	13	39	36	VIRGINIA						
Coshocton	23	11,074	19,631	18	31	31		99	29,848	55,498	92	137	99
Gallia	19	6,033	9,421	11	24	22	Dickenson	11	3,996	6,675	13	14	13
Quernsey	8	2,417	3,642	1	18	18	Lee	29	7,649	15,899	24	38	28
Harrison	15	5,194	8,940	8	19	17	Russell	16	6,076	11,245	21	21	16
Hocking	10	5,152	9,006	10	20	17	Tazewell	6	2,605	5,166	9	7	3
Holmes	6	2,664	6,431	6	9	4	Wise	31	7,806	12,609	25	46	29
Jackson	17	5,606	10,972	15	23	19	Buchanan and Scott	6	1,716	3,904		11	10
Jefferson	28	7,878	15,218	13	38	36	WASHINGTON						
Lawrence	39	11,216	21,419	34	51	45		9	2,761	9,776	6	15	14
Mahoning	7	1,641	4,356	1	12	12	King	3	771	2,199	2	7	6
Meigs	9	2,233	3,135	3	16	13	Lewis	4	1,112	3,912		7	7
Morgan	4	1,766	2,967	3	4	2	Kittitas and Pierce	2	898	3,667	4	1	1
Muskingum	26	10,929	20,600	10	50	49	WEST VIRGINIA						
Noble	13	4,195	5,778	6	16	16		335	107,401	170,235	237	413	322
Perry	39	15,161	27,743	22	64	60	Barbour	6	1,932	2,668	5	7	5
Stark	16	6,343	13,093	13	19	18	Boone	5	1,260	2,236	3	7	6
Tuscarawas	46	23,315	42,635	27	82	60	Braxton	9	2,835	3,855	8	8	6
Vinton	10	2,953	5,409	9	15	13	Brooke	29	8,295	15,359	12	35	31
Washington	4	1,294	3,179	1	6	6	Cabell	6	595	1,137	1	7	7
Monroe and Trumbull	3	477	1,713		3	3	Clay	3	613	961	2	4	3
OKLAHOMA							Fayette	19	6,790	13,532	23	21	17
Coal	3	1,990	6,959	6	5	5	Gilmer	7	3,300	4,704	4	13	11
Haskell	9	4,230	12,431	13	15	13	Greenbrier	13	3,007	4,485	6	17	14
Latimer	6	4,167	10,066	13	5	5	Hancock	35	6,472	17,053	23	43	34
Muskogee	5	2,508	11,153	11	5	4	Harrison	25	5,447	6,817	9	30	21
Okmulgee	10	4,019	10,123	15	12	11	Kanawha	9	2,514	4,263	4	11	10
Pittsburg	8	2,344	5,350	10	8	7	Lewis	8	1,804	2,063	4	11	10
Craig, Le Flore, McIntosh, and Rogers	7	2,068	5,903	7	11	9	Lincoln	5	1,262	1,750	1	6	4
PENNSYLVANIA							Logan	3	1,285	2,010	1	5	5
Allegheny	54	25,030	51,940	32	81	69	McDowell	9	4,507	9,098	10	10	4
Armstrong	29	12,493	23,853	21	36	31	Marion	15	6,914	11,900	15	20	19
Beaver	22	8,389	19,641	21	29	25	Mason	10	5,210	9,333	13	11	7
Bedford	7	3,795	8,088	7	12	10	Mineral	3	1,261	2,265	1	4	3
Butler	36	14,484	28,715	16	51	50	Monongalia	23	7,466	6,239	16	32	27
Cambria	57	30,110	63,111	53	92	80	Nicholas	3	1,396	1,243	2	4	2
Centre	4	1,670	3,037	4	5	4	Ohio	8	1,537	2,685	3	12	12
Clarion	20	7,095	10,851	15	27	24	Preston	25	6,935	10,362	15	26	17
Clearfield	38	17,060	28,122	30	45	38	Putnam	3	336	612	1	3	2
Clinton	4	1,361	2,652	1	6	5	Raleigh	12	3,735	6,670	12	16	11
Elk	10	4,532	9,163	9	13	9	Randolph	4	1,647	2,496	2	5	5
Fayette	34	11,727	17,897	17	35	32	Taylor	8	3,642	4,539	9	9	6
Greene	17	5,212	9,113	4	24	24	Upshur	3	2,575	2,653	4	4	2
Indiana	21	6,333	10,000	11	31	27	Wayne	4	927	1,555	4	5	4
Jefferson	32	11,955	20,493	21	43	40	Webster	6	2,770	3,758	9	8	2
Lawrence	23	5,498	10,929	6	35	31	Wyoming	6	2,500	4,030	7	6	5
McKean	3	1,469	3,186		3	3	Other counties ¹	11	2,592	5,464	8	13	10
Mercer	4	1,351	3,049	2	6	6	WYOMING						
Somerset	50	25,210	47,834	27	68	62		64	26,622	70,394	64	88	82
Tioga	10	4,405	10,918	8	11	9	Converse	7	2,864	6,883	8	12	12
Venango	5	2,535	4,840	3	7	7	Fremont	8	2,320	7,626	8	12	11
Washington	40	16,158	32,661	32	50	42	Hot Springs	6	2,025	6,060	5	9	9
Westmoreland	75	33,878	61,178	36	96	87	Johnson	7	4,474	9,525	6	9	9
Blair, Cameron, and Huntingdon	4	2,517	5,494	2	5	4	Lincoln	6	1,993	4,471	5	6	6
							Park	7	2,559	8,813	9	10	10
							Sheridan	5	2,571	4,862	2	6	3
							Teton	5	2,646	10,042	13	5	3
							Uinta	3	1,168	2,024		8	8
							Other counties ²	10	3,802	10,068	8	11	8
							OREGON AND TEXAS						
								3	1,379	4,895	7	5	5

¹Represents statistics for bituminous-coal mines that produced less than 1,000 tons of coal and for which neither reported principal expenses nor cost of buildings, machinery, and equipment during the year amounted to as much as \$2,500. It was not possible to obtain complete coverage of such mines.

²Brown, Bureau, Cass, Edgar, Grundy, Hancock, Henry, Jasper, Jersey, Macoupin, Menard, Morgan, Perry, Saline, Scott, St. Clair, Stark, Wabash, and Warren.

³Christian, Clay, Hancock, Henderson, Knott, Magoffin, Owsley, and Wayne.

⁴Callaway, Cedar, Cole, Howard, Lincoln, Linn, Macon, Monroe, and Vernon.

⁵Beaverhead, Big Horn, Garfield, Madison, Park, Prairie, Stillwater, Toole, and Treasure.

⁶Doddridge, Grant, Marshall, Mercer, Mingo, Pleasants, and Ritchie.

⁷Big Horn, Campbell, Carbon, Crook, Natrona, Sublette, Sweetwater, and Weston.

Lignite

The lignite industry of the United States produced 2,978,000 net tons of lignite with a mine value of \$3,457,000.

Lignite-mining operations employed an average of 1,480 wage earners in 1939. There were, in addition, 144 proprietors and firm members, 118 of whom performed manual work in and about the mines, and 115 salaried employees. The wage earners worked an average of 204 days during the year, the average length of workday being 8.2 hours. Altogether the wage earners worked 3,027,000 man-hours—876,000 at strip pits, 2,141,000 at underground mines, and 10,000 at combination (underground and strip-pit) mines.

The amount paid to wage earners was \$1,384,000; to salaried employees, \$219,000. Supplies and materials consumed during 1939 cost \$342,000; purchased electric energy, \$145,000; and fuel, \$80,000. The amount paid for work done on contract by others was \$11,000. Thus expenditures for wages, salaries, supplies and materials, fuels, purchased electric energy, and contract work totaled \$2,182,000. Almost \$110,000 was spent during the year for buildings, machinery, and equipment.

Lignite was produced in 1939 by 130 companies that operated 131 mines,¹ each producing at least 1,000 tons. These mines were located in four States, as follows: 102 in North Dakota, 17 in Montana, 4 in South Dakota, and 8 in Texas. Reports for 187 additional mines, each with an output of less than 1,000 tons, indicated that such mines produced 78,000 tons of lignite. Although there were over 300 lignite producers in 1939, five companies (four in North Dakota and one in Texas) operating seven mines accounted for about 70 percent of all the lignite produced in the United States during the year.

Of the 131 mines with an output of 1,000 tons or more, 94 were underground mines, 34 were strip pits, and 3 were combination mines. Although strip pits employed only 29 percent of the average number of wage earners, they accounted for about half of the 1939 lignite production. The average man-hour output of wage earners was 1.61 tons at strip pits, more than double that at underground mines.² Strip pits produced, on the average, more than twice as many tons per mine during the year as did the underground mines.

North Dakota, with 78 percent of the lignite mines, produced 70 percent of the total tonnage. An average of 859 wage earners at the North Dakota mines worked a total of 1,690,000 man-hours. Their average output per man-hour was almost twice as high as that of the wage earners at lignite mines in the other three producing States. This was due mainly to the fact that only 8 percent of the 905,500 tons of lignite produced in Montana, South Dakota, and Texas came from strip pits whereas almost two-thirds of the North Dakota lignite was produced by stripping. It is noteworthy, however, that output per man-hour was higher at both underground and surface mines in North Dakota than at underground and surface mines in other States.

¹One company operated three mines and another operated two mines; on the other hand, two mines which changed hands during the year were each operated by two companies.

²Because man-hour and wage data were collected only for wage earners, the figures for output per man-hour and average hourly earnings are based on statistics for mines at which there were no working proprietors or at which working proprietors constituted only a small part of the working force. Mines thus excluded, however, accounted for less than 6 percent of the total production.

The average hourly earning of wage earners in the lignite industry was 46 cents. For North Dakota it was 51 cents; for the other States, 40 cents. The amount of wages paid per ton of lignite mined averaged 46 cents for the industry as a whole. In North Dakota, where output per man-hour was relatively high, 41 cents was paid in wages per ton of lignite mined; in the other States the per-ton wage payments averaged 58 cents.

Much of the lignite mined in the north-central part of the United States is produced for immediate distribution to local consumers, and as a result, employment in the winter months was considerably higher than at other times during the year. Wage earners in North Dakota and Montana worked fewer days during the year than those in South Dakota and Texas, the most important of which was Texas, and fluctuations in monthly employment in North Dakota and Montana were greater than in other States. In July, the month of lowest employment in North Dakota, the 458 wage earners represented about a third of the number employed in the peak month, November. In Texas, on the other hand, employment in the low month of June was about 86 percent of that of the peak month, September.

The power equipment in use or available for use at the end of 1939 had an aggregate horsepower rating of 21,000, or an average of 14 horsepower per wage earner. Nearly 9,000 horsepower, or 41 percent, represented prime movers and motors used for driving stationary or fixed equipment such as hoists, pumps, compressors, and fans. The remaining horsepower was for driving mobile equipment such as power shovels, locomotives, trucks, and drills.

Comparable census data for the lignite industry in 1929 and 1919 are available only for North Dakota, which in 1939 accounted for 71 percent of the total value of products for the industry. Production of lignite in this State increased 141 percent between 1919 and 1929 and 12 percent between 1929 and 1939. The mine value per ton of lignite declined from \$2.51 in 1919 to \$1.73 in 1929 and to \$1.18 in 1939. Wage payments per ton of lignite produced in the respective years averaged \$1.34, \$0.70, and \$0.41.

The North Dakota lignite mines used more power equipment in 1939 than in the previous census years. For example, the horsepower rating of power equipment per wage earner increased from 2.6 in 1919 to 10.4 in 1929 and to 16.5 in 1939. An increasing proportion of the equipment, moreover, was driven by electric power. The cost of electric energy purchased by North Dakota lignite producers increased 13-fold between 1919 and 1929 and nearly doubled between 1929 and 1939.

As defined for census purposes, the lignite industry includes all coal-mining operations in the areas mapped as "lignite" in the United States Geological Survey Professional Paper 100-A. Subbituminous coal, sometimes known as "black lignite," is not included. Lignite is a variety of coal intermediate between peat and bituminous coal; it is comparatively recent in origin, is noncaking, contains much volatile matter, and is usually brownish-black in color. Separate census reports are being prepared for bituminous coal (including subbituminous coal, and anthracite and semianthracite produced outside of Pennsylvania) and for Pennsylvania anthracite.

TABLE 31.—PRINCIPAL STATISTICS FOR THE LIGNITE INDUSTRY IN THE UNITED STATES, BY TYPE OF OPERATION AND BY STATE: 1939¹

ITEM	United States	TYPE OF OPERATION			STATE			
		Underground mines	Strip-pit mines	Combination (underground and strip-pit) mines	North Dakota	Montana	South Dakota	Texas
Number of operating companies-----	² 130	96	31	3	101	17	4	8
Number of mines-----	131	94	34	3	102	17	4	8
Production of lignite:								
Tons of 2,000 pounds, total-----	2,978,046	1,556,472	1,413,899	7,675	2,072,493	47,713	47,762	610,058
From underground mines-----	1,556,472	1,556,472	-----	-----	726,820	43,267	(³)	(³)
From strip pits-----	1,413,899	-----	1,413,899	-----	1,338,199	4,446	(³)	(³)
From combination (underground and strip-pit) mines-----	7,675	-----	-----	7,675	7,675	-----	-----	-----
Value at mines-----	\$3,454,653	\$1,831,446	\$1,614,725	\$8,482	\$2,443,822	\$75,730	\$64,396	\$870,703
Value of all products ⁴ -----	\$3,457,139	\$1,831,946	\$1,616,711	\$8,482	\$2,445,808	\$76,230	\$64,398	\$870,703
Number of persons engaged, total-----	⁵ 1,739	1,196	534	9	1,055	77	39	553
Wage earners (average for the year, including inactive periods)-----	1,480	1,045	428	7	859	51	28	542
Salaried employees-----	⁶ 115	49	66	-----	82	8	6	15
Proprietors and firm members-----	144	102	40	2	115	18	5	6
Performing manual labor-----	118	85	31	2	96	14	5	3
Principal expenses designated below, total-----	⁷ \$2,182,014	\$1,244,002	\$932,884	\$5,128	\$1,480,118	\$62,614	\$41,462	\$588,452
Wages-----	\$1,384,433	\$903,160	\$477,401	\$3,872	\$855,920	\$39,372	\$16,780	\$472,361
Salaries-----	\$218,781	\$77,501	\$141,290	-----	\$161,118	\$4,449	\$12,900	\$30,956
Supplies and materials-----	\$342,319	\$184,527	\$157,118	\$674	\$268,926	\$14,559	\$4,315	\$54,519
Fuel-----	\$80,051	\$27,702	\$52,215	\$134	\$67,059	\$2,276	\$1,585	\$9,131
Purchased electric energy-----	\$144,979	\$50,902	\$94,077	-----	\$121,511	\$1,696	\$85	\$21,465
Contract work-----	\$11,441	\$210	\$10,763	\$448	\$5,564	\$60	\$5,797	-----
Cost of buildings, machinery, and equipment erected or installed during year-----	\$109,655	\$46,857	\$62,798	-----	\$67,179	\$1,179	\$41,229	\$66
Buildings-----	\$16,069	\$10,977	\$5,092	-----	\$15,133	\$746	\$150	\$40
Machinery and equipment, total-----	\$93,586	\$35,880	\$57,706	-----	\$62,046	\$433	\$41,079	\$28
Purchased in new condition-----	\$73,438	\$20,110	\$53,326	-----	\$52,123	\$208	\$41,079	\$28
Purchased in used condition-----	\$20,148	\$15,770	\$4,378	-----	\$19,923	\$225	-----	-----
Total number of man-shifts worked by wage earners-----	370,402	255,928	113,214	1,260	216,785	11,371	6,014	136,232
Total number of man-hours worked by wage earners-----	3,027,227	2,141,108	876,039	10,080	1,669,631	90,644	42,564	1,204,186
Average number of hours worked per shift-----	8.2	8.4	7.7	8.0	7.6	8.0	7.1	8.6
Average hourly earning of wage earners-----	\$0.46	\$0.42	\$0.54	\$0.36	\$0.51	\$0.43	\$0.39	\$0.39
Tons of lignite produced per man-hour, all mines ⁸ -----	0.98	0.73	1.61	0.76	1.23	0.53	1.12	0.67
At underground mines-----	0.73	0.73	-----	-----	0.63	0.51	(³)	(³)
At strip pits-----	1.61	-----	1.61	-----	1.67	0.85	(³)	(³)
At combination (underground and strip-pit) mines-----	0.76	-----	-----	0.76	0.76	-----	-----	-----
Average number of equivalent full days operations were active, all mines-----	204	200	216	97	191	155	221	237
Underground mines-----	200	200	-----	-----	170	160	170	242
Strip pits-----	216	-----	216	-----	223	89	223	38
Combination (underground and strip-pit) mines-----	97	-----	-----	97	97	-----	-----	-----
Horsepower rating of power equipment, total-----	21,052	10,763	10,179	110	14,144	693	235	5,980
Per wage earner-----	14.2	10.3	23.8	15.7	16.5	13.6	6.4	11.0
Stationary equipment ⁷ -----	8,676	5,935	2,741	-----	6,045	488	-----	2,143
Mobile equipment ⁸ -----	12,376	4,828	7,438	110	8,099	205	235	3,837
Electric energy consumed (thousands of kw.-hrs.), total-----	7,405	3,424	3,981	-----	5,379	96	2	1,928
Purchased-----	7,275	3,294	3,981	-----	5,250	95	2	1,928
Generated by reporting companies-----	130	130	-----	-----	129	1	-----	-----
Fuels consumed: ⁹								
Anthracite (tons of 2,000 pounds)-----	1	1	-----	-----	-----	1	-----	-----
Lignite (tons of 2,000 pounds)-----	29,110	16,261	12,828	21	20,685	236	20	8,189
Fuel oils (barrels of 42 gallons)-----	2,659	2,111	529	19	279	32	348	2,000
Gasoline and kerosene (gallons)-----	355,520	38,240	317,220	60	343,660	9,370	90	2,400

¹ Statistics are for coal mines in areas mapped as "lignite" in Marius R. Campbell, "General Introduction," *The Coal Fields of the United States* (U. S. Dept. Int., Geol. Survey, Professional Paper 100-A, 1922). Statistics for mines producing subbituminous coal, sometimes known as "black lignite," are not included. Figures represent mines that produced 1,000 tons or more of lignite during the year or for which the reported principal expenses or cost of buildings, machinery, and equipment erected or installed during the year amounted to \$2,500 or more. Statistics for 187 smaller lignite mines are shown in table 44. No nonproducing lignite operations were reported.

² Companies with mines in more than 1 State or more than 1 type of operation are counted only once in the total.

³ Not shown separately.

⁴ Includes, in addition to the value of lignite, receipts for services performed for others.

⁵ Includes statistics for central-office employees in Minnesota.

⁶ Computed by dividing the total production of lignite by the total number of man-hours worked by wage earners. Thus the figures include a number of smaller mines at which most or all of the labor was performed by proprietors for whom no working time was reported. Basing the computation on statistics for those mines at which the working proprietors constituted less than 20 percent of the total working force, output averaged 1.01 tons of lignite per man-hour.

⁷ Aggregate horsepower rating of engines, motors, etc., used for driving stationary or fixed equipment such as mine hoists, pumps, crushers, ventilating fans, compressors, etc.

⁸ Aggregate horsepower rating of engines, motors, etc., used for driving mobile equipment such as power shovels, locomotives, trucks, tractors, churn drills, etc.

⁹ No natural gas was reported consumed.

MINERAL INDUSTRIES

TABLE 32.—PRINCIPAL STATISTICS FOR THE LIGNITE INDUSTRY IN NORTH DAKOTA: 1939, 1929, and 1919¹

ITEM	1939	1929	1919	ITEM	1939	1929	1919
Number of mines	102	115	79	Principal expenses designated below, total	\$1,460,116	\$1,931,997	\$1,540,849
Production of lignite (tons of 2,000 pounds)	2,072,493	1,653,604	767,695	Wages	\$855,920	\$1,289,376	\$1,029,125
Value of all products	\$2,445,808	\$3,206,931	\$1,927,304	Salaries	\$161,118	\$167,878	\$159,645
Number of persons engaged, total	1,056	1,175	939	Supplies and materials	\$268,926	\$348,451	\$285,633
Wage earners (average for the year)	859	994	774	Fuel	\$67,059	\$44,615	\$32,653
Salaried employees	82	57	90	Purchased electric energy	\$121,511	\$67,931	\$4,641
Proprietors and firm members	115	114	75	Contract work	\$5,584	\$8,746	\$30,750
Performing manual labor	96	(²)	25	Horsepower rating of power equipment	14,144	10,310	2,037

¹For definition of the industry see table 31, footnote 1. Census statistics for lignite mines are available separately only for North Dakota for the years 1929 and 1919. Statistics for the lignite industry in all States are included with those for the bituminous-coal industry in table 2, which shows comparative statistics for the two industries combined for all census years back to 1880.

²Not available.

TABLE 33.—NUMBER OF WAGE EARNERS IN THE LIGNITE INDUSTRY IN THE UNITED STATES BY TYPE OF OPERATION, BY STATE, AND BY MONTH: 1939¹

TYPE OF OPERATION AND STATE	Average for the 12 months	NUMBER RECEIVING PAY DURING PAY-ROLL PERIOD ENDING NEAREST THE 15TH OF THE MONTH											
		January	February	March	April	May	June	July	August	September	October	November	December
United States, total	1,480	1,812	1,727	1,513	1,065	998	1,018	1,049	1,170	1,488	1,999	2,008	1,913
TYPE OF OPERATION —													
Underground mines	1,045	1,317	1,284	1,089	792	708	696	734	807	1,022	1,372	1,386	1,346
Strip pits	428	484	452	414	272	289	318	314	362	459	614	609	552
Combination (underground and strip-pit) mines	7	11	11	10	1	1	4	1	1	7	13	13	13
STATE													
North Dakota	859	1,139	1,076	888	503	488	494	458	563	851	1,297	1,337	1,234
Montana	51	81	75	59	23	11	9	14	14	42	93	94	91
South Dakota	28	39	37	27	11	20	20	18	21	22	41	44	39
Texas	542	553	539	539	528	499	495	559	572	573	568	533	549

¹For definition of the industry see table 31, footnote 1.

TABLE 34.—EMPLOYMENT AND WORKING TIME IN THE LIGNITE INDUSTRY IN THE UNITED STATES, BY DEPARTMENT, BY TYPE OF OPERATION, AND BY STATE: 1939¹

DEPARTMENT	United States	TYPE OF OPERATION			STATE			
		Underground mines	Strip pits	Combination (underground and strip-pit) mines	North Dakota	Montana	South Dakota	Texas
Average number of wage earners on active days, total	1,771	1,256	502	13	1,118	71	26	556
Underground	1,091	1,086	—	5	560	55	1	475
Strip-pit	337	—	329	8	305	7	14	11
Surface shops and yards	343	170	173	—	253	9	11	70
Average number of equivalent full days operations were active ²	204	200	216	97	191	153	221	237
Underground	197	197	—	103	165	162	170	238
Strip-pit	225	—	228	93	234	89	228	38
Surface shops and yards	207	222	192	—	195	147	216	257
Number of man-shifts worked by wage earners, total	370,402	255,928	113,214	1,260	216,785	11,371	6,014	136,232
On active days, total	361,275	251,815	108,200	1,260	213,024	10,852	5,737	131,662
Underground	214,554	214,038	—	516	92,258	8,904	170	113,222
Strip-pit	75,698	—	74,952	744	71,463	621	3,194	418
Surface shops and yards	71,025	37,777	33,248	—	49,303	1,327	2,373	18,022
On inactive days	9,127	4,113	5,014	—	3,761	519	277	4,570
Number of man-hours worked by wage earners, total	3,027,227	2,141,108	876,039	10,080	1,689,631	90,844	42,564	1,204,188
On active days, total	2,952,199	2,107,271	834,848	10,080	1,660,830	87,161	40,325	1,163,583
Underground	1,794,368	1,790,260	—	4,128	721,081	71,850	1,360	1,000,097
Strip-pit	586,266	—	580,314	5,952	554,882	4,968	22,654	3,762
Surface shops and yards	571,545	317,011	254,534	—	364,887	10,343	16,611	159,724
On inactive days	75,028	33,837	41,191	—	28,801	3,683	1,939	40,605

¹For definition of the industry see table 31, footnote 1.

²Represents number of man-shifts worked on active days in the department divided by average number of wage earners on active days in the department.

SELECTED STATISTICS FOR INCORPORATED AND FOR UNINCORPORATED CONCERNS IN THE LIGNITE INDUSTRY IN THE UNITED STATES,
BY STATE: 1939¹

TYPE OF OWNERSHIP	Number of operating companies	Number of mines	Production of lignite (tons of 2,000 pounds)	Value of all products	NUMBER OF PERSONS ENGAGED					Wages	Salaries
					Total	Wage earners (average for the year)	Salaried employees	Proprietors and firm members			
								Total	Per-forming manual labor		
total	130	131	2,978,046	\$3,457,139	1,739	1,480	² 115	144	118	\$1,384,433	² \$218,791
d- ted	25	26	2,495,851	2,859,655	1,219	1,119	² 100	-----	-----	1,126,014	² 202,976
	105	105	482,195	597,484	520	361	15	144	118	258,419	15,815
al	101	102	2,072,493	2,445,808	1,056	859	82	115	96	855,920	161,118
	17	18	1,659,786	1,932,185	641	570	71	-----	-----	837,452	148,080
	84	84	412,707	513,623	415	289	11	115	96	218,468	15,038
	8	8	810,058	870,703	563	542	15	6	3	472,361	30,956
	5	5	774,999	839,205	515	500	15	-----	-----	455,444	30,956
	3	3	35,059	31,498	48	42	-----	6	3	16,917	-----
Dakota, total	21	21	95,495	140,628	116	79	14	23	19	56,152	17,345
	3	3	61,066	88,265	59	49	10	-----	-----	33,118	16,572
	18	18	34,429	52,363	57	30	4	23	19	23,034	777

on of the industry see table 31, footnote 1.
Statistics for central-office employees in Minnesota.

SELECTED STATISTICS FOR LIGNITE MINES IN THE UNITED STATES, CLASSIFIED BY VALUE OF PRODUCTS AND BY STATE: 1939¹

NAME AND VALUE OF PRODUCTS	Number of mines	Production of lignite (tons of 2,000 pounds)	Value of all products	NUMBER OF PERSONS ENGAGED					Wages	Salaries
				Total	Wage earners (average for the year)	Salaried employees	Proprietors and firm members			
							Total	Performing manual labor		
total	131	2,978,046	\$3,457,139	² 1,739	1,480	² 115	144	118	\$1,384,433	² \$218,791
Alabama	111	416,311	511,983	518	363	17	138	115	222,696	14,257
Arkansas	10	349,406	417,335	299	274	22	3	3	206,630	36,804
California	2	667,076	763,992	243	226	16	1	-----	268,773	40,867
Dakota	3	1,545,253	1,763,829	643	617	26	-----	-----	686,334	47,834
Dakota, total	1	-----	-----	² 56	-----	² 34	2	-----	-----	² 78,229
total	102	2,072,493	2,445,808	1,056	859	82	115	96	855,920	161,118
Alabama	87	302,145	393,695	365	247	9	109	93	155,924	8,380
Arkansas	7	166,462	211,182	144	130	11	3	3	106,173	12,923
California	1	1,603,886	1,840,931	515	482	32	1	-----	593,623	69,954
Dakota	4	-----	-----	32	-----	30	2	-----	-----	69,861
Dakota, and Texas, total	29	905,553	1,011,331	679	621	29	29	22	528,513	48,305
Alabama	24	114,166	118,288	153	116	8	29	22	66,772	5,877
Arkansas	3	791,387	893,043	526	505	21	-----	-----	461,741	42,428
Dakota	1	-----	-----	-----	-----	-----	-----	-----	-----	-----
Dakota, total	1	-----	-----	-----	-----	-----	-----	-----	-----	-----

on of the industry see table 31, footnote 1. Reports classified by value of products represent single mines. Statistics shown for "Unclassified" represent mines reported separately from their associated mining operations.
Statistics for central-office employees in Minnesota.

SELECTED STATISTICS FOR LIGNITE MINES IN THE UNITED STATES, CLASSIFIED BY QUANTITY OF LIGNITE PRODUCED: 1939¹

LIGNITE (tons of 2,000 pounds)	Number of mines	Production of lignite (tons of 2,000 pounds)	Value of all products	NUMBER OF PERSONS ENGAGED					Wages	Salaries
				Total	Wage earners (average for the year)	Salaried employees	Proprietors and firm members			
							Total	Performing manual labor		
total	131	2,978,046	\$3,457,139	1,739	1,480	115	144	118	\$1,384,433	\$218,791
	42	60,149	83,895	105	46	4	55	49	31,065	777
	47	150,503	197,387	186	125		61	54	75,558	
	15	98,791	132,462	116	90	8	18	11	59,856	5,803
	11	160,522	191,814	170	157	9	4	1	105,469	13,264
	7	218,529	256,280	199	179	17	3	3	112,928	28,943
	2	513,035	600,450	184	169	14	1		204,867	30,441
	2									
	4									
	1	1,776,517	1,994,871	743	714	29			794,708	60,334
				36		34	2			79,229

on of the industry see table 31, footnote 1. Reports classified by quantity of lignite produced represent single mines. Statistics shown for "Unclassified" represent central offices reported separately from their associated mines.

MINERAL INDUSTRIES

TABLE 38.—SELECTED STATISTICS FOR LIGNITE MINES IN THE UNITED STATES, CLASSIFIED BY NUMBER OF WAGE EARNERS AND BY STATE: 1939¹

STATE AND NUMBER OF WAGE EARNERS	Number of mines	Production of lignite (tons of 2,000 pounds)	Value of all products	NUMBER OF PERSONS ENGAGED					Wages	Salaries
				Total	Wage earners (average for the year)	Salaried em- ployees	Proprietors and firm members			
							Total	Performing manual labor		
United States, total-----	131	2,978,046	\$3,457,139	² 1,739	1,480	² 115	144	118	\$1,384,433	² \$218,791
None-----	3	3,910	3,426	6	-----	-----	6	6	-----	-----
1 to 5-----	80	214,411	289,463	279	169	6	104	92	109,992	3,751
6 to 20-----	19	233,941	289,089	219	190	13	16	8	144,718	14,260
21 to 50-----	13	933,134	1,105,467	470	430	35	5	2	378,612	67,919
51 to 100-----	2	1,563,790	1,734,071	695	670	25	-----	-----	739,179	53,479
101 to 250-----	1									
251 to 500-----	1									
Unclassified-----	12	28,860	35,643	² 70	21	² 36	13	10	11,932	² 79,382
North Dakota, total-----	102	2,072,493	2,445,808	1,056	859	82	115	96	855,920	161,118
None-----	3	3,910	3,426	6	-----	-----	6	6	-----	-----
1 to 5-----	62	175,383	231,904	220	139	2	79	70	84,577	2,042
6 to 20-----	16	184,162	242,537	168	143	10	15	8	109,185	10,058
21 to 50-----	8	808,044	960,678	325	296	26	3	2	321,399	46,499
51 to 100-----	2	900,994	1,007,263	337	281	44	12	10	340,759	102,519
101 to 250-----	1									
Unclassified-----	10									
Montana, South Dakota, and Texas, total-----	29	905,553	1,011,331	679	621	29	29	22	528,513	46,305
1 to 5-----	18	39,028	57,559	59	30	4	25	22	25,415	1,709
6 to 20-----	3	49,779	46,532	51	47	3	1	-----	4,202	35,533
21 to 50-----	5	125,090	144,789	145	134	9	2	-----	57,213	21,420
251 to 500-----	1	691,656	762,451	424	410	13	1	-----	410,352	20,974
Unclassified-----	2									

¹For definition of the industry see table 31, footnote 1. Reports classified by average number of wage earners employed during the year represent single mines. Statistics shown for "Unclassified" represent reports on which number of wage earners, by month, was not adequately reported, and central offices reported separately from their associated mines.

²Includes statistics for central-office employees in Minnesota.

TABLE 39.—SELECTED STATISTICS FOR LIGNITE MINES IN THE UNITED STATES, CLASSIFIED BY NUMBER OF HOURS PER WAGE EARNER IN THE FULL-TIME WORKWEEK, AND BY STATE: 1939¹

STATE AND HOURS PER WEEK	Number of mines	Production of lignite (tons of 2,000 pounds)	Value of all products	NUMBER OF PERSONS ENGAGED					Wages	Salaries
				Total	Wage earners (average for the year)	Salaried employees	Proprietors and firm members			
							Total	Performing manual labor		
United States, total	131	2,978,046	\$3,457,139	² 1,739	1,480	² 115	144	116	\$1,384,433	² \$218,791
1 to 34	2	13,491	19,506	18	14	1	3	3	11,028	2,450
36 to 39	1									
40	21	590,562	708,579	395	355	20	20	14	305,189	38,405
41 to 42	18	2,025,951	2,265,055	871	818	43	10	9	870,629	84,898
43 to 44	6	45,300	61,114	54	42	5	7	7	27,723	4,528
45 to 47	1									
48	18	71,665	99,567	87	63	3	21	15	42,628	3,686
49 to 53	2	31,556	35,767	28	19	4	5	4	14,455	2,297
54 to 59	3									
60 and over	4	15,220	21,252	19	13		6	6	11,325	
Unclassified	55	184,301	248,299	² 267	156	² 39	72	60	101,256	² 82,527
North Dakota, total	102	2,072,493	2,445,808	1,056	859	82	115	96	855,920	161,118
1 to 34	2	460,652	582,102	242	214	12	16	13	246,239	19,435
40	12									
41 to 42	13	1,501,212	1,471,254	419	383	28	8	8	435,941	59,575
43 to 44	4	39,258	52,054	47	38	5	4	4	23,379	4,528
45 to 47	1									
48	15	66,420	90,344	79	59	2	18	13	38,453	3,382
49 to 53	1	38,040	43,615	36	26	2	8	7	19,285	1,212
54 to 59	3									
60 and over	3	166,911	226,439	233	139	33	61	51	92,623	73,006
Unclassified	48									
Montana, South Dakota, and Texas, total	29	905,553	1,011,331	679	621	29	29	22	528,513	48,305
36 to 39	1	143,401	165,983	171	155	9	7	4	69,978	46,743
40	9									
41 to 42	5	724,739	791,801	452	435	15	2	1	434,688	
43 to 44	2	20,023	31,687	26	14	3	9	8	15,214	1,409
48	3									
49 to 53	1	17,390	21,860	30	17	2	11	9	8,633	153
60 and over	1									
Unclassified	7									

¹For definition of the industry see table 31, footnote 1. Reports classified by number of hours per wage earner in the full-time workweek represent single mines. Statistics shown for "Unclassified" represent reports on which number of hours per week was not reported and central offices reported separately from their associated mines.

²Includes statistics for central-office employees in Minnesota.

TABLE 40.—SELECTED STATISTICS FOR LIGNITE MINES IN THE UNITED STATES, CLASSIFIED BY NUMBER OF DAYS ACTIVE DURING THE YEAR: 1939¹

NUMBER OF DAYS ACTIVE DURING YEAR	Number of mines	Production of lignite (tons of 2,000 pounds)	Value of all products	NUMBER OF PERSONS ENGAGED					Wages	Salaries
				Total	Wage earners (average for the year)	Salaried em- ployees	Proprietors and firm members			
							Total	Performing manual labor		
United States, total-----	131	2,978,046	\$3,457,139	1,739	1,480	115	144	118	\$1,384,433	\$218,791
1 to 49-----	2	77,733	81,012	83	68	8	7	4	48,870	8,773
50 to 99-----	7									
100 to 149-----	27									
150 to 199-----	39	338,002	431,171	225	180	15	30	26	140,963	18,325
200 to 224-----	39	789,703	897,596	466	401	17	48	39	353,590	55,868
225 to 249-----	11	712,178	841,897	249	221	17	11	9	255,106	33,058
250 to 274-----	2	869,616	977,114	494	470	18	6	5	470,379	38,726
275 to 299-----	5									
300 to 324-----	1									
Unclassified-----	6	104,195	106,296	77	69	3	5	4	66,249	3,159
	31	86,619	122,053	145	71	37	37	31	49,276	80,882

¹For definition of the industry see table 31, footnote 1. Reports classified by number of days active during the year represent single mines. Statistics shown for "Unclassified" represent reports on which number of days active was not adequately reported, and central offices reported separately from their associated mines.

TABLE 41.—SELECTED STATISTICS FOR LIGNITE MINES IN THE UNITED STATES, CLASSIFIED BY OUTPUT PER MAN-HOUR: 1939¹

OUTPUT PER MAN-HOUR	Number of mines	Production of lignite (tons of 2,000 pounds)	Value of all products	NUMBER OF PERSONS ENGAGED					Wages	Salaries
				Total	Wage earners (average for the year)	Salaried em- ployees	Proprietors and firm members			
							Total	Performing manual labor		
United States, total-----	131	2,978,046	\$3,457,139	1,739	1,480	115	144	118	\$1,384,433	\$218,791
0.20 to 0.39-----	7	33,432	48,880	56	47	11	9	4	32,250	15,921
0.40 to 0.59-----	24	184,618	225,262	244	210	20	23	15	122,644	51,059
0.60 to 0.79-----	11	815,258	925,703	545	520	12	5	1	488,033	24,517
0.80 to 0.99-----	6	452,851	457,175	233	219	18	2	-----	241,505	39,126
1.00 to 1.19-----	1	515,884	613,700	197	179	17	1	1	206,522	27,486
1.40 to 1.59-----	1									
1.80 to 1.99-----	2									
2.00 and over-----	4	789,436	932,202	153	135	37	104	97	207,448	80,882
Unclassified-----	75	186,367	254,237	311	170				86,031	

¹For definition of the industry see table 31, footnote 1. Reports classified by output per man-hour represent single mines. Statistics shown for "Unclassified" represent reports on which man-hours worked were not adequately reported, and central offices reported separately from their associated mines.

MINERAL INDUSTRIES

TABLE 42.—NUMBER AND HORSEPOWER RATING OF PRIME MOVERS AND ELECTRIC MOTORS IN THE LIGNITE INDUSTRY IN THE UNITED STATES, BY TYPE OF OPERATION AND BY STATE: 1939¹

TYPE OF OPERATION, STATE, AND TYPE OF EQUIPMENT	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY										ELECTRIC MOTORS DRIVEN BY ENERGY GENERATED BY REPORTING COMPANIES		
	Aggregate horse- power	Prime movers								Electric motors driven by purchased energy			
		Total		Driving generators		Not driving generators		Ordinarily idle (included in preceding columns)					
		Number	Horse- power	Number	Horse- power	Number	Horse- power	Number	Horse- power	Number	Horse- power	Number	Horse- power
United States, total	21,052	160	9,855	18	904	142	8,951	6	412	439	11,197	39	449
Stationary	8,676	76	2,558	17	844	59	1,714	3	279	358	6,118	32	341
Mobile	12,376	84	7,297	1	60	83	7,237	3	133	81	5,079	7	108
TYPE OF OPERATION													
Underground mines, total	10,763	90	4,446	18	904	72	3,542	3	279	293	6,317	39	449
Stationary	5,955	72	2,512	17	844	55	1,668	3	279	235	3,423	32	341
Mobile	4,828	18	1,934	1	60	17	1,874			58	2,894	7	108
Strip pits, total	10,179	69	5,299			69	5,299	3	133	146	4,880		
Stationary	2,741	4	46			4	46			123	2,695		
Mobile	7,438	65	5,253			65	5,253	3	133	23	2,185		
Combination (underground and strip-pit) miner (mobile only)	110	1	110			1	110						
STATE													
North Dakota, total	14,144	124	6,771	16	897	108	5,874	6	412	286	7,373	38	448
Stationary	6,045	64	2,106	15	837	49	1,269	3	279	230	3,939	32	341
Mobile	8,099	60	4,665	1	60	59	4,605	3	133	56	3,434	6	107
Montana, total	693	13	357	2	7	11	350			18	336	1	1
Stationary	488	9	212	2	7	7	205			16	276		
Mobile	205	4	145			4	145			2	60	1	1
South Dakota (mobile only)	235	2	235			2	235						
Texas, total	5,980	21	2,492			21	2,492			135	3,486		
Stationary	2,143	3	240			3	240			112	1,903		
Mobile	3,837	18	2,252			18	2,252			23	1,583		

¹ For definition of the industry see table 31, footnote 1; for explanation of the terms "stationary" and "mobile" see table 31, footnotes 7 and 8.

TABLE 43.—NUMBER OF SURFACE POWER LOADING MACHINES IN THE LIGNITE INDUSTRY IN THE UNITED STATES, BY TYPE, KIND OF POWER USED, SIZE, AND STATE: 1939¹

TYPE OF MACHINE, KIND OF POWER USED, AND SIZE	United States ²	North Dakota ²	South Dakota and Texas ³
Power shovels, total—	31	25	6
Kind of power used:			
Steam—	10	6	4
Electric—	10	8	2
Internal-combustion engine—	11	11	—
Dipper capacity (cubic yards):			
Less than 3—	20	17	3
3 to 5—	3	3	—
More than 5—	8	5	3
Dragline excavators, total—	9	6	3
Kind of power used:			
Steam—	2	1	1
Internal-combustion engine—	7	5	2
Bucket capacity (cubic yards):			
Less than 3—	8	5	3
3 to 5—	1	1	—
Tractor-drawn scrapers ⁴ —	3	3	—

¹ For definition of the industry see table 31, footnote 1.

² In addition to surface power loading machines, 4 electric underground loaders of the gathering type were reported.

³ No power loading machines were reported in use in Montana.

⁴ These loaders were driven by internal-combustion engines.

TABLE 44.—SELECTED STATISTICS FOR SMALL LIGNITE MINES IN THE UNITED STATES, BY STATE: 1939¹

ITEM	United States	North Dakota	Montana	South Dakota	ITEM	United States	North Dakota	Montana	South Dakota
Number of mines—	187	166	11	10	Number of wage earners (average for the year)—	61	50	4	7
Production of lignite:					Number of proprietors and firm members (not applicable to corporations)—	174	148	19	7
Tons of 2,000 pounds—	78,003	69,507	5,279	3,217	Performing manual labor—	171	145	19	7
Value at mines—	\$105,950	\$91,187	\$8,668	\$6,095					

¹ Represents statistics for lignite mines that produced less than 1,000 tons of lignite and for which neither reported principal expenses nor cost of buildings, machinery, and equipment during the year amounted to as much as \$2,500.

Pennsylvania Anthracite

In 1939 the Pennsylvania anthracite industry produced 51,865,000 short tons of marketable hard coal, had products valued at \$189,648,000 at points of production, and employed 82,822 wage earners and 5,411 salaried employees.

The statistics presented in this report relate entirely to anthracite produced in eastern Pennsylvania, where the principal hard-coal deposits of this country are concentrated within an area of less than 500 square miles. These deposits are in adjacent counties beginning at the junction of Susquehanna, Wayne, and Lackawanna Counties in the north and running southward through Lackawanna, Luzerne, Carbon, Columbia, Northumberland, and Schuylkill Counties to Dauphin County in the south. Sullivan County, although having deposits classified as semianthracite, is commonly grouped with the anthracite counties. Some deposits of anthracite and semianthracite occur in Virginia, Arkansas, Colorado, and New Mexico; however, because of geographic location and nature of the product, operations exploiting these deposits are more closely allied with the bituminous-coal industry, and statistics for the comparatively small tonnages mined by these operations are included in statistics for that industry.

Underground mining predominates in the hard-coal region, but in recent years strip pits have contributed an increasing proportion of the fresh-mined output. Small-size anthracite, formerly discarded with the breaker waste because it had no commercial value, is now being recovered by washing material from old culm banks; river coal—fine particles of culm and silt carried downstream by the rivers and creeks draining the region—is being reclaimed by dredging. In 1939 river coal was reclaimed in six of the anthracite counties and in Berks, Lehigh, Northampton, and York Counties outside the anthracite region. The greater part of the strip-pit and culm-bank output in 1939 was produced by contractors; statistics for these contract operations are included in the report for the industry.¹

PRINCIPAL EXPENSES

The anthracite industry paid a total of \$107,446,000 in wages and \$12,123,000 in salaries in 1939. Expenditures for supplies and materials totaled \$25,412,000; for fuel, \$3,887,000; for purchased electric energy, \$6,389,000; and for contract work other than that done by stripping contractors, \$532,000.* The sum of these reported expenditures is \$155,787,000. Of this total, \$7,725,000 represents principal expenses reported by stripping contractors, including \$3,166,000 for wages, \$749,000 for salaries, \$2,956,000 for supplies and materials, \$619,000 for fuel, \$94,000 for purchased electric energy, and \$141,000 for subcontract work such as hauling. These expenses cannot be used for determining profits or losses in anthracite production since they do not include such items as taxes, depletion, depreciation, interest, rent, insurance, and other costs; the industry was not requested to supply information concerning these expenses.

The principal expenses reported by the anthracite industry amounted to \$3.01 per short ton of anthracite produced, about twice as much as similar costs per ton of coal produced in the bituminous-coal industry. Although the anthracite deposits of

Pennsylvania are geologically of the same age as the great bituminous-coal fields of the Appalachian range, they have been more compressed, folded, and inclined by past geological changes. The coal is harder and located in deeper beds than in the bituminous-coal mines. As a result, more water has to be pumped out of the mines, and more timber is needed to prevent caving. The beds are also steeply pitched in most parts of the anthracite region, and where much folding and faulting has occurred the coal is badly crushed, mixed with waste, and difficult to mine. Moreover, whereas only about one-fifth of the bituminous coal was cleaned mechanically in 1939, virtually the entire output of anthracite was cleaned and sized, generally by more elaborate processes.

The cost of new buildings erected, major alterations of existing structures, and new and used machinery and equipment installed by the anthracite industry during the year amounted to \$4,949,000. Of this amount, colliery and dredge operators reported \$3,948,000, including \$1,753,000 as the cost of buildings and building alterations and \$2,195,000 as the cost of machinery and equipment. These figures include installation costs, which are partly duplicated in other reported expenditures.

PRODUCTION

Pennsylvania anthracite was produced in 1939 by 291 operating companies and 58 contracting concerns from 292 underground mines, 116 strip pits, 65 culm banks, and 34 dredging operations. The fresh-mined and culm-bank coal was prepared at 143 breakers and 15 washeries, the latter washing material primarily from culm banks; river coal was separated from waste materials by simple screening methods either on the dredges or at small washeries on river banks. The five largest companies produced about 60 percent of the total value of the industry's products.

The 51,865,000 tons of marketable anthracite produced in 1939 (including colliery fuel), although only slightly less than the 1935 output, was 30 percent below the production reported for 1929 and 41 percent below that for 1919. The value of the industry's products declined even more sharply, dropping nearly 10 percent below the 1935 figure, 51 percent below that of 1929, and 48 percent below that of 1919.

Of the total production in 1939, 50,987,000 tons were produced at colliery operations and 878,000 tons were reclaimed at dredging operations. As culm-bank operations are for the most part carried on in connection with other colliery operations, statistics for culm-bank production are combined with the figures for fresh-mined production at underground and strip-pit mines. The reclaiming of river coal, however, constitutes a distinct segment of the industry and statistics for dredging operations are presented separately.

Fresh-Mined and Culm-Bank Coal

Operating companies reported a total of 71,064,000 tons of raw coal mined—55,943,000 from underground mines, 8,694,000 from strip pits, and 6,426,000 tons from culm banks. Contractors produced 7,249,000 tons of the strip-mined coal and 4,909,000 tons of the culm-bank material. Of the total raw coal mined, 70,574,000 tons were sent to preparation plants for cleaning and sizing and the remaining 490,000 tons were used or sold for use as run-of-mine coal or were stored for preparation after 1939.³ Including some coal purchased from

¹ Contractors were covered in the 1935 census but not in the censuses of 1929 and 1919. Stripping operations were relatively unimportant in the earlier years, however, and the figures on employment and expenditures in those years would have been affected only slightly had statistics for contractors been included.

² Colliery companies paid \$10,618,000 to stripping contractors—\$10,562,000 for stripping fresh-mined coal and loading and hauling culm-bank material and \$56,000 for miscellaneous services; these payments are excluded, however, in order to avoid duplication of principal expenses reported by the stripping contractors and included in the totals for the industry.

³ These figures for raw coal mined cover only those producing operations for which the value of products, reported principal expenses, or cost of buildings, machinery, and equipment during the year amounted to at least \$2,500.

concerns operating mines that were too small to come within the scope of the census canvass, breakers and washeries reported receiving for preparation 70,610,000 tons of raw coal from which 50,498,000 tons of prepared coal were recovered. Thus the prepared coal represented 72 percent of the quantity of raw coal received for preparation.

More than half of the total raw coal and nearly two-thirds of the final prepared product were produced in the northern counties of Luzerne, Lackawanna, Susquehanna, and Wayne. Operations in these counties were predominantly underground, strip pits accounting for less than 8 percent and culm banks for less than 2 percent of the raw-coal output. All of the coal mined in Sullivan County was from underground mines. In the remaining counties coal from sources other than underground mines represented a larger proportion of the raw-coal output. More than half of the raw coal produced in Columbia County and about one-third of that in Carbon County was mined at strip pits. In Northumberland County over 17 percent was from strip pits and nearly 16 percent from culm banks. In Schuylkill, Dauphin, and Lebanon Counties, strip pits accounted for approximately 16 percent and culm banks for 23 percent of the total raw coal mined.

The 50,498,000 tons of prepared coal produced represents the net product recovered from all underground, strip-pit, and culm-bank coal sent through breakers and washeries in 1939. Although operators indicated the source of the raw coal mined, no separation was made for prepared coal by source because of the general practice of cleaning and sizing strip-mined coal, and frequently culm-bank material, along with coal from underground mines. The percentage of recoverable coal contained in the raw material depends not only upon the proportion of impurities mixed with the coal but also upon the content of fine coal particles. Although the average ratio of prepared coal to raw coal was approximately 72 percent for the anthracite region as a whole, the ratio ranged from about 81 percent in the northern counties of Lackawanna, Susquehanna, Wayne, and Luzerne, where the beds are comparatively flat and undisturbed by folding, to 57 percent in Schuylkill, Dauphin, and Lebanon Counties, where the beds pitch more steeply and are more folded than in other anthracite counties. The average for Columbia County was 75 percent; for Northumberland County 63 percent; and for Carbon County, 62 percent.

River Coal

In 1939, 25 companies carried on 34 dredging operations, including river washeries,* in reclaiming coal from the rivers and their tributaries draining the anthracite region. The total dredge product, including a small tonnage of culm-bank coal and breaker tailings purchased and screened, was 878,000 tons of fine-sized anthracite.

Approximately four-fifths of the river coal produced in 1939 was dredged from the Susquehanna River and from Mahanoy, Shamokin, and Wiconisco Creeks which empty into the river. All of the river coal reclaimed in Columbia, Luzerne, Northumberland, Dauphin, and York Counties and more than half of that in Schuylkill County came from these streams. The remaining production in Schuylkill County and all of that in Berks County was reclaimed from the Schuylkill River. Operations on the Lehigh River, into which most of the silt is carried from Nesquehoning Creek, accounted for all of the dredge product in Carbon, Lehigh, and Northampton Counties. Northumberland and Schuylkill Counties accounted for almost two-thirds of the total dredge product.

The reported costs per ton of coal produced were considerably less at dredging operations than at colliery operations, averaging \$0.63 compared with \$3.04. The average value of coal produced, however, was \$0.99 per ton at dredging operations compared with \$3.70 per ton at collieries.

* These washeries are located on the banks of streams too narrow, shallow, or swift to permit the use of floating equipment. The anthracite silt is pumped directly to the washing plant from the stream bed. River washeries should not be interpreted as culm-bank washeries.

EMPLOYMENT AND WORKING TIME

The anthracite industry in 1939 was the third largest employer of labor among the mineral industries in the United States, being exceeded only by the "Bituminous coal" and the "Crude petroleum and natural gas" industries. The industry gave employment to an average of 82,822 wage earners, of whom 80,361 were employed by colliery and dredge operators and 2,461 by contractors engaged in stripping anthracite from surface pits and loading material from culm banks. A total of 5,411 salaried employees were reported for October of the year; of these, 5,226 were employed by the operators and 185 by the contractors. The average number of wage earners employed by the industry in 1939 was 44 percent lower than the average of 147,372 reported for 1919, 42 percent lower than the 142,801 for 1929, and 10 percent below the 1935 average of 92,438. Although production also declined during this period, especially after 1929, the drop in tonnage was smaller than the curtailment in employment.

Wage earners in the anthracite industry in 1939 worked a total of 123,969,000 man-hours—118,694,000 on days when the respective operations were actively engaged in production or development work and 5,275,000 on inactive days when only such employees as watchmen, inspectors, or maintenance men were at work. Of the total number of man-hours, 4,038,500 were worked by wage earners employed by stripping contractors and 532,100 by wage earners at dredging operations. Wage earners engaged in mining and dredging (including contractors' employees) worked 112,328,000 man-hours, underground mines accounting for 94.6 percent, strip pits for 4.1 percent, culm banks for 0.8 percent, and dredge operations for 0.5 percent. Wage earners engaged in coal preparation at breakers and washeries worked 11,640,000 man-hours—less than 10 percent of the total.

Anthracite collieries were active the equivalent of 186 full days during the year, with county averages ranging from 107 days in Sullivan County to 195 days in Northumberland County. Operations in Carbon County averaged 175 days; in Columbia County, 126; in Lackawanna, Susquehanna, and Wayne Counties, 180; in Luzerne County, 191; and in Schuylkill, Dauphin, and Lebanon Counties, 183. Contracting concerns engaged in strip-pit mining and culm-bank loading worked the equivalent of 200 full days. Dredges averaged 189 full days of operation. The length of shift worked by wage earners averaged 7.0 hours at collieries, 7.1 hours at contractors' operations, and 8.8 hours at dredges.

The average hourly earning in 1939 of all wage earners in the anthracite industry (including those employed by stripping contractors) was 87 cents. The average for wage earners employed by colliery operators was the same as that for the industry as a whole; wage earners employed by stripping contractors received an average of 78 cents per hour; and those employed by dredge operators, 52 cents. The average hourly earning of wage earners employed by colliery operators ranged between 95 cents in Northumberland County and 53 cents in Sullivan County. The average for Carbon County was 93 cents; for Columbia and Luzerne Counties, 85 cents; for Lackawanna, Susquehanna, and Wayne Counties, 84 cents; and for Schuylkill, Dauphin, and Lebanon Counties, 90 cents. These figures for hourly earnings are approximate averages for all wage earners and should not be interpreted as hourly wage rates. The latter apply to specific occupations and take into account special conditions of work.

OUTPUT PER MAN-HOUR

To mine a short ton of raw anthracite in 1939 wage earners worked an average of about 1.57 man-hours; to clean, break, and screen a ton required an additional 0.16 man-hour. The average output of raw coal per man-hour worked by wage earners engaged in mining was 0.64 short ton—0.53 at underground mines, 1.87 at strip pits, and 7.31 at culm banks. There were, however,

considerable variations among counties. The average for underground mines ranged from 0.34 ton in Columbia County to 0.64 ton in Northumberland County. The average for Carbon County was 0.62 ton; for Lackawanna, Susquehanna, and Wayne Counties, 0.50 ton; for Luzerne County, 0.49 ton; and for Schuylkill, Dauphin, and Lebanon Counties, 0.60 ton.

Output of prepared product per man-hour of mine and plant labor averaged 0.41 ton, with Northumberland County having the highest average, 0.49 ton.* In Schuylkill, Dauphin, and Lebanon Counties the average was 0.45 ton; in Columbia County and in Lackawanna, Susquehanna, and Wayne Counties, 0.41 ton; in Luzerne County, 0.39 ton; and in Carbon County, 0.38 ton. Sullivan County, which prepared all of its production, had an output of 0.29 ton of breaker product per man-hour. Output per man-hour at all dredging operations averaged 1.65 tons.

POWER EQUIPMENT AND FUELS

Horsepower Rating

Power equipment in use or available for use by the industry at the end of 1939, including idle equipment held for standby, had an aggregate rated capacity of 1,037,200 horsepower. This amounted to an average of 12.5 horsepower per wage earner in 1939 compared with 7.3 in 1929 and 6.1 in 1919. The 1939 total includes 70,600 horsepower reported by stripping contractors and 6,500 reported by dredge operators, an average per wage earner of 28.7 at contract operations and 25.5 at dredges.

Approximately three-fourths of the horsepower reported in 1939 was for driving stationary equipment such as crushers, screens, other breaker machinery, mine hoists, electric generators, compressors, ventilating fans, and dredge and drainage pumps. The remaining horsepower was for driving mobile equipment such as power shovels, dragline excavators, clamshells, locomotives, scraper loaders, hand-loaded face conveyors, pit-car loaders, mobile loading machines, bulldozers, and self-loading conveyors. Since 1929 the horsepower for driving mobile equipment has increased 80 percent, in part because of greater mechanization in the underground mines, particularly of haulage and loading, and in part because of an expansion of surface mining. The horsepower for driving stationary equipment showed a net decline of 14 percent between 1929 and 1939, with the horsepower rating of stationary prime movers decreasing from 552,300 to 365,400 and that of stationary electric motors increasing from 340,100 to 404,000.

Power Loading Machines

Power loading machines in use or available for use at underground mines at the end of the year included 2,020 hand-loaded face conveyors (principally shaker chutes), 572 scraper loaders, 40 self-loading conveyors, 28 pit-car loaders, and 7 mobile loading machines. Electricity was used to drive 2,470 of the underground units and compressed air was used for the remaining 197. Most of the scrapers, 354 units, were operated by hoists with a rating of from 10 to 25 horsepower; 202 had a rating of less than 10 horsepower; and 16 had a rating of 26 to 100 horsepower.

*The averages of output per man-hour in mining presented in the previous paragraph are based upon the amount of raw material extracted from the mines and the working time of mining labor; they do not take into account man-hours worked by wage earners at preparation plants. A considerable quantity of raw coal moves from one county to another for preparation, and the quantity of coal handled by plant labor in any one county—with the exception of Sullivan County—differs from the quantity mined by mining labor in that county. In order to arrive at an average output per man-hour for all wage earners employed in a single county, the man-hours worked at mines per ton of raw coal mined were added to the fraction of a man-hour worked at preparation plants per ton of raw coal prepared and the sum was converted into the number of tons of raw coal mined and prepared per man-hour of mine and plant employment. This average, in turn, was converted from raw coal to the equivalent prepared coal by multiplying the figure for each county by the ratio of prepared coal recovered to raw coal sent through preparation plants in that county. The county averages for "output of prepared product per man-hour of mine and plant labor" were computed in this manner.

Physical conditions in the anthracite region are such that mechanical loading devices are not generally adaptable to underground mining in the entire area. They are used most widely in working the comparatively flat beds of the northern fields. Lackawanna, Susquehanna, Wayne, and Luzerne Counties, which comprise this field, accounted for 85 percent of all underground loaders reported in the anthracite industry.

Power loaders at anthracite strip-pit and culm-bank operations, including 302 units owned by contracting concerns, consisted of 165 shovels, 185 dragline excavators, and 33 other loaders such as bulldozers, tractor-drawn scrapers, and belt loaders. The major portion of these loading machines were driven by gasoline or Diesel engines. Only 14 steam-operated units were reported, all of them power shovels. Electrically driven units included 19 power shovels, 42 draglines, and 2 other loaders. Power machines used for dredging or loading river coal consisted primarily of 54 pumps and 13 surface scrapers. Other loaders included 5 dragline excavators, 3 power shovels, and 12 other units such as clamshells, ladder dredges, and conveyor lines. Of the power shovels and dragline excavators reported by the industry, 310 had dipper or bucket capacities of less than 3 cubic yards, 38 had capacities of 3 to 5 cubic yards, and 10 had capacities of 6 to 12 cubic yards.

Power and Fuel Consumption

The industry consumed 951,444,000 kilowatt-hours of electric energy in 1939, purchasing 577,284,000, or 61 percent, and generating 374,160,000, or 39 percent. In 1929 slightly more than 50 percent of the 948,677,000 kilowatt-hours consumed were generated by the reporting companies. The trend toward large, modern central breakers and a general shift from the use of steam to electricity as the primary source of power are important factors in both the decline in total horsepower for driving stationary equipment and the decrease in energy generated by the reporting companies for their own use.

The anthracite industry in 1939 consumed (for heat and power) 2,524,315 short tons of anthracite, 4,705 short tons of bituminous coal, 82,301 barrels of fuel oils, and 4,104,574 gallons of gasoline and kerosene. Colliery operators reported the consumption of 2,521,120 tons of anthracite, 4,751 barrels of fuel oils, and 736,209 gallons of gasoline and kerosene. Stripping contractors, who were requested to report only the cost of fuel consumed, are estimated to have used 1,075 tons of anthracite, 75,600 barrels of fuel oils, and 3,224,400 gallons of gasoline and kerosene at strip-pit and culm-bank operations. Fuel consumption at dredging operations included 2,120 tons of anthracite, 4,705 tons of bituminous coal, 1,950 barrels of fuel oils, and 143,965 gallons of gasoline and kerosene.

NONPRODUCING OPERATIONS

Statistics presented above cover only operations that had products in 1939. Eleven anthracite mines were reported that had no products and for which reported principal expenses or cost of buildings, machinery, and equipment during the year amounted to \$2,500 or more. The largest single item of expense reported for these 11 mines was \$135,000 for the purchase of 13,832,000 kilowatt-hours of electric energy. Wages amounting to \$98,000 were paid to an average of 68 wage earners who worked 154,700 man-hours. Payments to salaried employees, of whom there were 58 in October, amounted to \$109,000. The cost of supplies and materials was \$40,000; of fuel, \$7,000; and of work done on contract by other concerns, \$21,000. These reported principal expenses aggregated \$410,000. Buildings, machinery, and equipment were erected or installed during the year at a cost of \$18,000. Power equipment available for use at these operations at the end of the year had a horsepower rating of 51,900, nearly all of which was for driving stationary equipment.

TABLE 45.—PRINCIPAL STATISTICS FOR THE PENNSYLVANIA ANTHRACITE INDUSTRY

(For producing

ITEM	1939		
	All operations	Colliery and dredge operations	Stripping contractors
1 Number of operating companies ¹ -----	346	289	58
2 Number of collieries, washeries, and dredges-----	363	363	-----
3 Collieries ² -----	314	314	-----
4 Cull-bank washeries-----	15	15	-----
5 Dredges-----	34	34	-----
6 Number of breakers-----	143	143	-----
7 Production of anthracite (tons of 2,000 pounds), total-----	51,865,328	³ 51,865,328	(⁴)
8 Fresh-mined and cull-bank product-----	50,987,456	⁵ 50,987,456	(⁶)
9 River-dredge product-----	¹² 877,872	¹² 877,872	-----
10 Value of products, total-----	\$189,647,913	⁷ \$189,647,913	(⁸)
11 Value of coal ¹⁵ -----	\$189,431,931	⁹ \$189,431,931	(¹⁰)
12 Fresh-mined and cull-bank product-----	\$188,561,351	⁹ \$188,561,351	(¹¹)
13 River-dredge product-----	¹² 870,580	¹² 870,580	-----
14 Value of other products and services rendered ¹⁷ -----	\$215,982	\$215,982	-----
15 Number of persons engaged, total-----	88,520	85,818	2,702
16 Wage earners (average for the year, including inactive periods)-----	82,922	80,361	2,461
17 Salaried employees-----	5,411	5,226	185
18 Proprietors and firm members-----	287	231	56
19 Performing manual labor-----	159	138	21
20 Principal expenses designated below, total ²¹ -----	\$155,787,311	\$148,062,135	\$7,725,176
21 Wages-----	\$107,445,669	\$104,279,746	\$3,165,923
22 Salaries-----	\$12,122,606	\$11,373,681	\$748,925
23 Supplies and materials-----	\$25,411,553	\$22,455,527	\$2,956,026
24 Fuel-----	\$3,886,950	\$3,268,066	\$618,884
25 Purchased electric energy-----	\$6,388,676	\$6,294,508	\$94,168
26 Contract work ²¹ -----	²³ \$531,857	\$390,607	²³ \$141,250
27 Cost of machinery and equipment erected or installed during year-----	\$3,195,744	\$2,195,264	²⁴ \$1,000,480
28 Horsepower rating of power equipment, total-----	1,037,216	966,653	70,553
29 Per wage earner-----	12.5	12.0	28.7
30 Prime movers-----	491,794	430,274	61,520
31 Electric motors driven by purchased energy-----	545,422	536,389	9,033
32 Horsepower rating of electric motors driven by energy generated by reporting companies-----	368,255	368,181	74
33 Fuels consumed: ²⁷			
34 Anthracite (tons of 2,000 pounds)-----	²⁸ 2,524,315	2,523,240	²⁸ 1,075
35 Bituminous coal (tons of 2,000 pounds)-----	4,705	4,705	-----
36 Fuel oils (barrels of 42 gallons)-----	²⁸ 82,301	6,701	²⁸ 75,600
37 Gasoline and kerosene (gallons)-----	²⁸ 4,104,574	880,174	²⁸ 3,224,400
38 Electric energy consumed (thousands of kw.-hrs.), total-----	²⁹ 951,444	942,864	²⁹ 8,580
39 Purchased-----	²⁹ 577,284	568,723	²⁹ 8,561
Generated by reporting companies-----	²⁹ 374,160	374,141	²⁹ 19

¹ Statistics presented in this report relate entirely to anthracite produced in Pennsylvania, where the principal hard-coal deposits of the United States are situated. Small quantities of anthracite and semianthracite produced in other States are included, in accordance with the usual trade practice and historical usage, with totals for the bituminous-coal industry. The statistics in this report cover the extraction and preparation (by cleaning and sizing) of anthracite from virgin deposits, from piles of old breaker waste known as "cull banks" which contain considerable quantities of small-size coal formerly discarded because it had no commercial value, and from river and creek beds where fine particles of anthracite washed into the streams draining the anthracite region have accumulated. Figures for 1939 represent producing anthracite mines for which the value of products, reported principal expenses, or cost of buildings, machinery, and equipment erected or installed during the year amounted to \$2,500 or more. Statistics for 1929 represent "enterprises" whose output was valued at \$2,500 or more or for which the cost of development work amounted to at least \$2,500; the corresponding minimum for 1919 was \$500 for value of products and \$5,000 for cost of development work. For these years, however, the figures on quantity and value of products account for virtually all the anthracite produced since, in general, small operators sell their run-of-mine coal to other companies for preparation and distribution. No minimum was placed on the size of operations included for 1935, 1909, 1902, 1889, and 1880. Statistics for operations without products are excluded; statistics for such operations in 1939 are shown in table 66.

Reports from "stripping contractors" were received for 1939 and 1935 only. The term "stripping contractor" refers to contracting concerns engaged either in stripping of overburden or fresh-mined coal at surface mines or in shoveling and loading material from old cull banks, or both, on contract for colliery companies. Had statistics for such contractors been included in the figures for earlier years, the summary statistics would not have been greatly changed, for stripping operations were relatively unimportant in the earlier years. According to figures published by the U. S. Bureau of Mines strip-mined anthracite represented only 2.6 percent of the total production in 1929 and 2.3 percent in 1919; similar percentages for 1939 and 1935 are 10.7 and 9.9, respectively. Contractors engaged both in strip-pit and cull-bank work were canvassed in 1939; in 1935 contractors were asked only for reports covering their stripping operations, but as some of them engaged in both types of work, it is believed that the figures for that year include some statistics for work performed at cull banks. Cull-bank work of contractors in comparison with stripping work by them is relatively unimportant. In 1939 payments by colliery companies to contractors for cull-bank work amounted to only 13 percent of the total paid to contractors for both cull-bank and strip-pit work. Statistics for 1902, 1889, and 1880 exclude dredge operations; such operations were negligible in these years, since the small sizes recovered by dredging were not marketable.

² During 1902 mining operations in the anthracite region were almost entirely suspended for more than 5 months, due to a strike among mine workers.

³ For 1939 and 1909 companies that submitted more than one report are counted only once in the totals.

⁴ Not available.

⁵ Includes statistics for 3 operating companies with 3 mines and 4 washeries, producing 106,256 tons of coal, valued at \$69,848 for which no other statistics were reported.

⁶ Includes 49 small diggings and washeries supplying local trade.

⁷ Includes 21 small surface mines.

⁸ The term "colliery" applies to (a) a breaker engaged exclusively in preparing coal mined by companies other than the one operating the breaker, (b) a breaker and a mine or group of mines operated as a unit by the same company, and (c) a mine or group of mines operated as a unit by the same company without preparation-plant facilities. The 314 collieries in 1939 include 18 of type (a), 125 of type (b), and 171 of type (c). In 1939 operators were requested to submit separate reports for each underground mine, strip pit, cull bank, dredge, breaker, and washery operated during the year.

⁹ Statistics for stripping contractors are included with those for colliery and dredge operators.

¹⁰ Excludes statistics for cull-bank coal.

¹¹ Excludes statistics for the production of about 908,250 tons of "cull" anthracite which was used for steam at the mines.

¹² Includes statistics for a small quantity of cull-bank coal and breaker tailings prepared at a river washery.

IN THE UNITED STATES: 1939, 1935, 1929, 1919, 1909, 1889, AND 1880¹

operations only)

1935			1929	1919	1909	1902 ²	1889	1880	
All operations	Colliery and dredge operations	Stripping contractors	Colliery and dredge operations	Colliery and dredge operations	Colliery and dredge operations	Colliery operations	Colliery operations	Colliery operations	
(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	⁵ 192	119	(⁴)	(⁴)	1
350	350	-----	303	421	⁵ 427	369	⁶ 392	⁷ 297	2
(⁴) 319	(⁴) 319	-----	241	261	⁵ 308	334	⁶ 392	⁷ 297	3
31	31	-----	20	79	⁵ 56	35	-----	-----	4
(⁴)	(⁴)	(⁴)	(⁴)	245	305	334	343	276	5
52,158,783	⁹ 52,158,783	(⁹)	74,545,900	88,170,508	⁵ 80,987,362	41,373,595	¹⁰ 45,544,970	¹¹ 28,711,379	6
51,568,316	⁹ 51,568,316	(⁹)	73,816,984	87,474,579	⁵ 80,868,374	41,373,595	¹⁰ 45,544,970	¹¹ 28,711,379	7
590,467	590,467	-----	728,916	695,929	118,988	(⁴)	-----	-----	8
\$210,351,222	⁹ \$210,351,222	(⁹)	\$384,854,300	¹³ \$363,650,824	⁵ \$149,027,742	¹⁴ \$76,173,586	¹⁴ \$65,721,578	¹⁴ \$42,282,948	9
\$210,130,565	⁹ \$210,130,565	(⁹)	\$384,754,011	¹³ \$363,511,456	⁵ \$149,027,742	\$76,173,586	¹⁰ \$65,721,578	¹¹ \$42,282,948	10
\$209,613,261	⁹ \$209,613,261	(⁹)	\$383,926,986	¹³ \$362,618,390	\$148,936,270	\$76,173,586	¹⁰ \$65,721,578	¹¹ \$42,282,948	11
\$517,304	\$517,304	-----	\$827,025	\$893,066	\$91,472	(⁴)	(⁴)	(⁴)	12
\$220,657	\$220,657	-----	\$100,289	\$139,368	-----	(⁴)	(⁴)	(⁴)	13
¹⁴ 99,308	¹⁴ 96,053	¹⁴ 3,255	151,209	154,882	173,665	¹⁴ 72,705	¹⁴ 124,203	¹⁴ 70,975	14
92,438	89,385	3,053	142,801	147,372	169,175	69,691	¹⁹ 122,375	69,688	15
6,870	6,668	202	8,370	7,351	4,302	3,014	1,828	²⁰ 1,287	16
(⁴)	(⁴)	(⁴)	38	159	188	(⁴)	(⁴)	(⁴)	17
(⁴)	(⁴)	(⁴)	(⁴)	34	72	(⁴)	(⁴)	(⁴)	18
¹⁴ \$173,296,513	¹⁴ \$166,267,404	¹⁴ \$7,029,109	\$315,346,147	\$297,887,115	\$125,105,997	\$54,770,607	\$52,433,638	¹⁴ \$29,492,924	19
\$120,101,896	\$115,364,341	\$3,737,555	\$229,957,059	\$210,289,473	\$92,169,906	\$38,716,113	\$37,768,431	\$22,751,223	20
\$14,659,407	\$14,217,026	\$442,381	\$21,281,541	\$12,995,469	\$4,572,489	\$2,907,293	\$1,509,924		21
\$27,140,346	\$24,954,854	\$2,185,492	\$43,367,491	¹⁵ \$59,738,376	\$23,472,809	\$12,740,780	\$10,822,363	\$6,741,701	22
\$4,197,451	\$3,642,415	\$555,036	\$7,419,721	\$11,406,117	²² \$3,189,279				23
\$7,197,413	\$7,088,768	\$108,645	\$6,508,527	²² \$1,899,835	\$1,701,514	\$406,421	\$2,332,920	(⁴)	24
(⁴)	(⁴)	(⁴)	\$6,801,908	\$1,557,845	(⁴)	(⁴)	(⁴)	(⁴)	25
(⁴)	(⁴)	(⁴)	\$5,579,720	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	26
(⁴)	(⁴)	(⁴)	1,041,465	899,783	676,128	434,220	¹⁴ 154,077	¹⁴ 105,777	27
(⁴)	(⁴)	(⁴)	7.3	6.1	4.0	5.2	1.3	1.5	28
(⁴)	(⁴)	(⁴)	618,042	782,090	674,718	434,220	²⁵ 154,077	²⁶ 105,777	29
(⁴)	(⁴)	(⁴)	423,423	117,693	1,410	-----	(²⁵)	(⁴)	30
(⁴)	(⁴)	(⁴)	454,164	185,723	45,088	5,755	(²⁵)	(⁴)	31
(⁴)	2,745,984	(⁴)	5,650,388	9,573,985	8,613,888	4,994,007	¹⁰ 3,942,289	(⁴)	32
(⁴)	(⁴)	(⁴)	28,833	4,096	(⁴)	(⁴)	(⁴)	(⁴)	33
(⁴)	(⁴)	(⁴)	879	671	(⁴)	(⁴)	(⁴)	(⁴)	34
(⁴)	(⁴)	(⁴)	92,033	58,002	(⁴)	(⁴)	(⁴)	(⁴)	35
(⁴)	(⁴)	(⁴)	948,677	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	36
(⁴)	(⁴)	(⁴)	470,248	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	37
(⁴)	(⁴)	(⁴)	478,429	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	38

¹³ Excludes \$433,318 representing the cost of coal purchased for resale in condition purchased or for sale after preparation. It is not possible to determine whether the corresponding quantity of coal is duplicated in the quantity statistics for 1919.

¹⁴ Excludes statistics for items for which information was not available as indicated by footnotes.

¹⁵ Represents value at breaker, washery, or dredge of prepared coal recovered from raw coal mined or dredged during the census year and the mine value of raw coal mined but not prepared during the year.

¹⁶ Excludes the value of anthracite used for steam at the mines.

¹⁷ Represents value of other products; receipts for electric energy generated and sold; receipts received for services such as pumping, hauling, and coal preparation performed for others; and value added in preparing coal mined prior to the specified year. In 1939 the value added in preparing coal mined prior to 1939 amounted to \$136,010.

¹⁸ On schedules for the 1902 census, concerns were instructed that "The average number employed during the year is the number that would be required, at continuous employment for the twelve months, to produce the quantity of products reported." "In editing the schedules...the figures for the average number of employees were reduced to a 300-day basis whenever the schedule showed them to be the average number for a shorter period; when it was evident that the employees had worked more than 300 days, the average number for the longer period was allowed to stand." In 1902, in addition to the figure shown for employees of colliery companies, 1,731 persons were reported employed by contractors for work at anthracite mines.

¹⁹ The 1889 census schedules called for "average number employed," presumably an average for active periods; and requested that figures for wage earners "include those employed by contractors and subcontractors."

²⁰ Represents "administrative forces."

²¹ Figures for 1929 and earlier years include payments to stripping contractors; figures for 1939 exclude such payments in order to avoid duplication of expenses reported by stripping contractors. (See also footnote 1.) Colliery companies in 1939 paid a total of \$10,617,759 to stripping contractors—\$10,561,673 for strip-pit and culm-bank work and \$56,086 for miscellaneous services.

²² Includes amounts paid for purchased power other than electric.

²³ Stripping contractors were not asked to report amounts paid to subcontractors; the figure shown for expenditures of stripping contractors for contract work performed for them in 1939 represents amounts received by general contractors who reported that they performed work for stripping contractors. It is believed that the figure does not include all of the payments to subcontractors for general contract work; not all of the subcontractors that reported indicated for whom they performed services.

²⁴ Stripping contractors were asked to report only the total cost of buildings, machinery, and equipment erected or installed during the year. The nature of the work in which these contractors were engaged and supplemental information supplied by several of the concerns, however, indicate that most, and possibly all, of the cost reported represents expenditures for machinery and equipment and the data are so classified.

²⁵ Statistics for "prime movers" represent horsepower of steam boilers. Statistics were also reported for 153 "motors" having an aggregate horsepower of 6,906

²⁶ Represents horsepower of steam engines.

²⁷ Statistics for fuels include, in addition to purchased fuels, those produced and consumed by the reporting company. No natural gas was reported consumed.

²⁸ Stripping contractors were not requested to report the quantity of fuels consumed; the figures are estimates based on costs of fuels reported and kinds of fuel reported used by loading equipment.

²⁹ Figures for quantity of electric energy consumed by stripping contractors are estimated: purchased energy on the basis of reported cost and generated energy on the basis of horsepower rating of electric motors driven by energy generated by the reporting companies.

TABLE 46.—SUMMARY FOR THE PENNSYLVANIA ANTHRACITE

(For producing

	REGION AND CENSUS YEAR	Number of mines ²	Production of anthracite (tons of 2,000 pounds)	Value of all products
1	Pennsylvania: 1939, total	507	51,865,328	\$189,647,915
2	Colliery operators	(5) 473	50,987,456	188,775,678
3	Stripping contractors	(5) 34	(5) 877,872	(5) 872,235
4	Dredge operators			
5	1935, total	350	52,158,783	210,351,222
6	Colliery operators	(5) 319	51,568,316	209,833,918
7	Stripping contractors	(5) 31	(5) 590,467	(5) 517,304
8	Dredge operators			
9	1929, total ³	303	74,545,900	384,854,300
10	Colliery operators	261	73,816,984	384,027,275
11	Dredge operators	42	728,916	827,025
12	1919, total	534	88,170,508	⁴ 353,850,824
13	Colliery operators	453	87,474,579	⁴ 362,757,758
14	Dredge operators	81	695,929	893,066
15	Wyoming district: ¹⁰ 1939, total	255	28,259,383	106,362,582
16	Colliery operators	(5) 255	28,259,383	106,362,582
17	Stripping contractors	(5)	(5)	(5)
18	1935, total	201	28,414,942	120,587,775
19	Colliery operators	(5) 201	28,414,942	120,587,775
20	Stripping contractors	(5)	(5)	(5)
21	1919, Colliery and dredge operators, total ¹¹	281	48,512,923	208,738,489
22	Lehigh district: 1939, total	76	8,714,742	32,544,333
23	Colliery operators	(5) 73	8,668,543	32,290,100
24	Stripping contractors	(5)	(5)	(5)
25	Dredge operators	3	46,199	54,233
26	1935, total	38	7,753,391	31,569,211
27	Colliery operators	(5) 35	7,655,586	31,446,194
28	Stripping contractors	(5)	(5)	(5)
29	Dredge operators ¹²	3	97,805	123,017
30	1919, Colliery and dredge operators, total ¹¹	67	13,505,208	54,376,559
31	Schuylkill district: 1939, total	176	14,891,223	50,940,998
32	Colliery operators	(5) 145	14,059,550	50,122,896
33	Stripping contractors	(5)	(5)	(5)
34	Dredge operators ¹²	31	831,673	818,002
35	1935, total	111	15,990,450	58,214,236
36	Colliery operators	(5) 83	15,497,788	57,819,949
37	Stripping contractors	(5)	(5)	(5)
38	Dredge operators	28	492,662	394,287
39	1919, Colliery and dredge operators, total ¹³	186	26,152,377	100,969,094

¹ For definition of the industry see table 45, footnote 1.² For 1939, represents the number of underground mines, strip pits, culm banks, and dredges; the count of breakers is not included. For 1935, represents the number of operations, each breaker, washery, dredge, and independent mine without preparation facilities being counted as one operation. For 1929, represents the number of collieries (a single unit producing fresh-mined anthracite from one or more mines), culm-bank washeries, and dredges. For 1919, represents the number of mines, culm-bank washeries, and dredges.³ Includes statistics for central-office employees reported separately from their associated mines.⁴ To avoid duplication of expenses reported by collieries and contractors, excludes amounts paid to stripping contractors for strip-pit and culm-bank work.⁵ Included with data for colliery operators.

PENNSYLVANIA ANTHRACITE

305

 INDUSTRY, BY TRADE DISTRICTS: 1939, 1935, 1929, AND 1919¹

operations only)

NUMBER OF PERSONS ENGAGED					PRINCIPAL EXPENSES							Aggregate horsepower rating of power equipment	
Total	Wage earners (average for the year)	Salaried employees	Proprietors and firm members		Total	Wages	Salaries	Supplies and materials	Fuel	Purchased electric energy	Contract work		
			Total	Performing manual labor									
88,520	82,822	35,411	287	159	\$155,787,811	\$107,445,669	\$12,122,608	\$25,411,553	\$3,886,950	\$6,388,676	\$551,957	1,037,216	1
85,482	80,108	35,179	195	126	\$147,509,800	104,002,894	\$11,286,186	22,375,805	3,227,649	6,246,679	\$390,607	960,212	2
2,702	2,461	185	56	21	7,725,176	3,165,925	748,925	2,958,026	618,884	94,188	141,250	70,555	3
356	253	347	336	12	552,535	276,852	107,515	79,722	40,417	47,829		6,451	4
(e)	92,438	36,870	(e)	(e)	7173,296,513	120,101,896	\$14,659,407	27,140,346	4,197,451	7,197,413	(e)	(e)	5
(e)	89,191	36,631	(e)	(e)	7165,915,911	116,179,057	\$14,165,805	24,894,697	3,613,157	7,063,195	(e)	(e)	6
(e)	3,053	202	(e)	(e)	77,029,109	3,737,555	442,381	2,185,492	555,036	108,845	(e)	(e)	7
(e)	194	37	(e)	(e)	351,493	185,284	51,221	60,157	29,258	25,575	(e)	(e)	8
151,209	142,801	8,370	38	(e)	315,346,147	229,967,059	21,281,541	43,367,491	7,419,721	6,508,527	6,801,808	1,041,465	9
(e)	142,532	(e)	(e)	(e)	(e)	229,580,966	(e)	43,288,747	7,376,213	6,491,194	(e)	1,037,208	10
(e)	269	(e)	(e)	(e)	(e)	386,093	(e)	78,744	43,508	17,333	(e)	4,257	11
154,882	147,372	7,351	159	34	297,887,115	210,289,473	12,995,469	\$9,738,376	11,406,117	1,899,835	1,557,845	899,783	12
154,587	147,016	7,305	46	10	297,183,703	209,902,922	12,936,472	\$9,549,255	11,349,112	1,889,375	1,556,567	896,041	13
515	356	46	113	24	703,412	386,551	58,997	189,121	57,005	10,460	1,278	3,742	14
52,429	48,787	3,467	175	106	\$86,326,967	60,715,185	7,454,284	13,626,171	2,206,970	2,189,036	\$136,341	519,368	15
51,880	48,303	3,418	159	99	\$84,621,130	60,125,666	7,275,048	12,834,311	2,074,767	2,174,997	\$136,341	502,087	16
484	49	16	16	7	1,705,837	589,519	179,216	791,860	132,203	13,039		17,281	17
(e)	53,935	(e)	(e)	(e)	(e)	68,558,367	(e)	13,346,839	2,139,664	2,212,552	(e)	(e)	18
(e)	(e)	(e)	(e)	(e)	(e)	68,108,613	(e)	13,082,294	2,042,288	2,206,528	(e)	(e)	19
(e)	(e)	(e)	(e)	(e)	(e)	449,754	(e)	284,545	97,576	6,024	(e)	(e)	20
(e)	83,959	(e)	(e)	(e)	(e)	118,765,340	(e)	34,956,493	6,423,876	615,784	558,242	409,101	21
15,883	14,964	882	37	10	\$28,595,817	19,785,912	2,262,995	4,307,223	632,592	1,279,199	\$128,096	197,259	22
15,017	14,191	819	7	3	\$26,299,549	18,753,615	1,905,598	3,639,717	626,949	1,245,576	\$128,096	176,576	23
539	761	59	19	4	2,268,214	1,017,036	354,511	661,393	201,651	33,623		20,199	24
27	12	4	11	3	28,054	15,283	2,886	6,113	5,792			484	25
(e)	14,819	(e)	(e)	(e)	(e)	18,993,414	(e)	4,917,518	856,016	1,361,193	(e)	(e)	26
(e)	(e)	(e)	(e)	(e)	(e)	17,730,155	(e)	4,238,958	672,273	1,320,879	(e)	(e)	27
(e)	(e)	(e)	(e)	(e)	(e)	1,233,958	(e)	870,278	175,561	36,605	(e)	(e)	28
(e)	27	(e)	(e)	(e)	760,588	29,301	11,114	8,282	10,182	1,709	(e)	(e)	29
(e)	19,472	(e)	(e)	(e)	(e)	27,964,065	(e)	8,157,986	2,159,402	681,054	615,165	112,923	30
20,069	19,071	924	74	43	\$40,430,579	26,944,572	1,971,399	7,475,159	847,588	2,921,441	\$267,420	320,609	31
18,458	17,614	815	29	24	\$36,203,595	25,123,615	1,699,794	5,901,777	525,933	2,826,106	\$126,170	281,549	32
1,314	1,216	77	21	10	3,751,125	1,559,368	215,198	1,502,773	285,030	47,506	141,250	33,073	33
297	241	32	24	9	476,059	261,589	56,407	73,609	36,625	47,829		5,987	34
(e)	23,684	(e)	(e)	(e)	(e)	32,550,115	(e)	8,875,989	1,201,571	3,623,668	(e)	(e)	35
(e)	(e)	(e)	(e)	(e)	(e)	30,340,289	(e)	7,573,445	898,596	3,535,788	(e)	(e)	36
(e)	(e)	(e)	(e)	(e)	(e)	2,053,845	(e)	1,250,669	283,899	64,016	(e)	(e)	37
(e)	187	(e)	(e)	(e)	7290,905	155,983	40,107	51,875	19,076	23,884	(e)	(e)	38
(e)	43,941	(e)	(e)	(e)	(e)	63,560,070	(e)	17,057,215	2,822,839	602,997	404,438	377,759	39

¹Not available.

²Exclusive of payments for contract work. These data were not requested in 1935.

³Statistics by trade districts are not available for 1929.

⁴The sum of \$453,318, cost of coal purchased for resale, is excluded from the industry total, but included in the district figures.

⁵Includes Sullivan County. Data for Wyoming district dredges are included in Schuylkill district for 1939 and in Lehigh district for 1935.

⁶Includes 3 dredging operations for which separate statistics are not available.

⁷Includes statistics for Wyoming district dredges.

⁸Includes 75 dredging operations for which separate statistics are not available.

MINERAL INDUSTRIES

TABLE 47.—PRINCIPAL STATISTICS FOR THE PENNSYLVANIA ANTHRACITE INDUSTRY, BY TYPE OF OPERATION AND BY COUNTY: 1939¹
(For producing operations only)

ITEM	All operations	OPERATIONS ENGAGED IN MINING AND PREPARING FRESH-MINED AND CULM-BANK COAL					
		Total	Colliery operations				
			Total	Carbon	Columbia	Lackawanna, Susquehanna, and Wayne ²	Luzerne
Number of operating companies-----	346	322	265	6	4	123	66
Number of mines, total-----	473	473	473	11	8	150	143
Underground mines-----	292	292	292	5	3	117	95
Strip pits-----	116	116	116	4	5	23	40
Culm banks-----	65	65	65	2	—	10	8
Number of preparation plants, total-----	158	158	158	6	3	39	49
Breakers, total-----	143	143	143	6	3	38	46
Connected with mining operations (at the mine or as a central breaker)	125	125	125	6	3	25	45
Operated independently-----	18	18	18	—	—	13	1
Culm-bank washeries-----	15	15	15	—	—	1	3
Number of dredging operations-----	34	—	—	—	—	—	—
Number of persons engaged, total-----	88,520	88,184	¹⁰ 85,482	3,166	522	16,973	41,893
Wage earners (average for the year)-----	82,822	82,589	80,108	2,986	484	15,145	39,681
Salaried employees-----	5,411	5,364	¹⁰ 5,179	180	37	1,723	2,156
Proprietors and firm members (not applicable to corporations)-----	287	251	195	—	1	105	56
Performing manual labor-----	159	147	126	—	—	65	37
Production of anthracite (tons of 2,000 pounds), total ¹¹ -----	51,865,328	50,987,456	50,987,456	1,879,373	432,551	9,082,064	23,204,429
Raw coal used or sold for use as run-of-mine and raw coal stored for preparation after 1939-----	489,817	489,817	489,817	—	—	360,127	82,395
Breaker, washery, and dredge product ¹¹ -----	51,375,511	50,497,639	50,497,639	1,879,373	432,551	8,721,937	23,122,034
Value of all products-----	\$189,647,913	\$188,775,678	\$188,775,678	\$6,635,288	\$1,625,880	\$33,602,047	\$88,401,566
Coal (value at the mine, preparation plant, or dredge)-----	\$189,431,931	\$188,561,351	\$188,561,351	\$6,635,288	\$1,625,880	\$33,475,397	\$88,336,985
Other products ¹² -----	\$215,982	\$214,327	\$214,327	—	—	\$126,650	\$84,601
Average value of coal per ton-----	\$3.65	\$3.70	\$3.70	\$3.53	\$3.76	\$3.69	\$3.81
Principal expenses designated below, total ¹⁵ -----	\$155,787,311	\$155,234,976	¹⁰ \$147,509,800	\$5,789,503	\$1,043,334	\$28,333,856	\$68,543,412
Wages-----	\$107,445,689	\$107,168,817	\$104,002,894	\$3,964,080	\$692,644	\$18,449,573	\$50,416,288
Salaries-----	\$12,122,008	\$12,015,091	¹⁰ \$11,266,166	\$487,682	\$76,880	\$3,736,625	\$4,581,583
Supplies and materials-----	\$25,411,553	\$25,351,831	\$22,375,805	\$664,078	\$187,553	\$4,445,562	\$10,024,103
Fuel-----	\$3,886,950	\$3,846,533	\$3,227,649	\$141,700	\$28,145	\$681,796	\$1,481,010
Purchased electric energy-----	\$8,368,678	\$8,340,847	\$6,246,679	\$321,445	\$93,134	\$770,640	\$1,688,037
Contract work ¹⁶ -----	\$531,657	\$531,657	\$390,607	\$10,558	—	\$49,160	\$172,531
Cost of buildings, machinery, and equipment erected or installed during year-----	\$4,948,930	\$4,921,952	\$3,921,472	\$72,656	\$25,158	\$457,283	\$2,451,691
Buildings-----	\$1,753,186	\$1,747,966	\$1,747,966	\$19,367	\$25,158	\$152,486	\$1,118,109
Machinery and equipment-----	\$3,195,744	\$3,173,986	\$2,173,486	\$53,289	—	\$304,797	\$1,333,582
Purchased in new condition-----	\$2,873,704	\$2,865,752	\$1,966,120	\$28,153	—	\$221,717	\$1,251,107
Purchased in used condition-----	\$322,040	\$308,234	\$207,366	\$25,136	—	\$85,080	\$84,475
Number of man-shifts worked by wage earners, total-----	17,693,197	17,632,633	17,080,279	606,391	116,573	3,150,594	8,431,352
On active days ¹⁷ -----	16,946,657	16,887,016	16,333,489	582,539	110,480	3,035,129	8,056,388
On inactive days ¹⁸ -----	746,540	745,617	726,790	23,852	6,093	115,465	374,966
Number of man-hours worked by wage earners, total-----	123,988,647	123,436,538	119,598,077	4,244,937	816,012	21,995,661	59,007,693
On active days ¹⁷ -----	118,694,034	118,169,200	114,266,287	4,077,987	773,361	21,161,476	56,374,288
On inactive days ¹⁸ -----	5,274,613	5,267,338	5,131,790	166,950	42,651	834,185	2,633,405
Average number of equivalent full days operations were active-----	186	186	186	175	126	180	191
Average number of hours worked per shift-----	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Average hourly earning per wage earner-----	\$0.87	\$0.87	\$0.87	\$0.93	\$0.85	\$0.84	\$0.85
Tons of anthracite produced per man hour-----	0.42	0.41	(20)	(20)	(20)	(20)	(20)
Horsepower rating of power equipment, total-----	1,037,216	1,030,765	960,212	46,520	5,803	166,035	405,740
Per wage earner-----	12.5	12.5	12.0	15.6	12.0	11.0	10.2
Stationary equipment ²¹ -----	769,371	764,758	765,741	29,199	4,450	128,515	352,669
Mobile equipment ²² -----	267,845	266,007	196,471	17,321	1,353	37,520	73,051

¹For definition of the industry see table 45, footnote 1; for explanations of terms used see appropriate footnotes to table 45.²Includes 3 underground mines and 1 breaker in Susquehanna County and 1 underground mine in Wayne County. The tonnage of these two counties, however, represents less than 2 percent of the total tonnage of the three counties.³Includes 1 underground mine and breaker in Dauphin County and 1 culm bank and washery in Lebanon County. The tonnage of these two counties, however, represents less than 3 percent of the total tonnage of the three counties.⁴Berks, 3 dredging operations; Northumberland, 10; and Schuylkill, 5.⁵Carbon, 1 dredging operation; Lehigh, 1; and Northampton, 1.⁶Columbia, 5 dredging operations; Luzerne, 1.⁷Dauphin, 6 dredging operations; York, 1.⁸Companies having operations in more than one county are counted separately in each county but only once for the State total. Only one company was engaged in both colliery and dredging operations, and only one operated as both a colliery operator and stripping contractor.⁹Represents the number of concerns engaged in work at strip pits and culm banks on contract for anthracite-producing companies.¹⁰Includes statistics for salaried employees at central offices located in counties other than those listed—127 such employees, receiving \$385,726 in salaries, were at central offices connected with colliery operations and 11 employees, receiving \$48,222 in salaries, were at central offices connected with dredge operations.¹¹Figures for colliery operations include prepared coal produced from raw coal mined in counties other than those in which it was prepared and from raw coal mined at operations for which neither value of products nor cost of development work amounted to as much as \$2,500. Figures do not include statistics for 132,798 tons of prepared coal recovered during 1939 from raw coal mined prior to 1939.¹²Statistics for stripping contractors are included with those for colliery operations.

TABLE 47.—PRINCIPAL STATISTICS FOR THE PENNSYLVANIA ANTHRACITE INDUSTRY, BY TYPE OF OPERATION AND BY COUNTY: 1939¹—Continued
(For producing operations only)

ITEM	OPERATIONS ENGAGED IN MINING AND PREPARING FRESH-MINED AND CULM-BANK COAL—Continued				DREDGE OPERATIONS				
	Colliery operations—Continued			Stripping contractors	Total	Berks, North- umber- land, and Schuyl- kill ⁴	Carbon, Lehigh, and North- ampton ⁵	Columbia and Luzerne ⁶	Dauphin and York ⁷
	North- umberland	Schuylkill, Dauphin, and Lebanon ³	Sullivan						
Number of operating companies-----	11	55	4	⁹ 58	25	11	3	5	6
Number of mines, total-----	34	121	6						
Underground mines-----	13	53	6						
Strip pits-----	10	34							
Culm banks-----	11	34							
Number of preparation plants, total-----	11	46	4						
Breakers, total-----	9	37	4						
Connected with mining operations (at the mine or as a central breaker)-----	9	33	4						
Operated independently-----		4							
Culm-bank washeries-----	2	9							
Number of dredging operations-----					34	18	3	6	7
Number of persons engaged, total-----	6,358	16,350	93	2,702	¹⁰ 336	132	27	36	130
Wage earners (average for the year)-----	6,140	15,588	64	2,461	253	101	12	26	114
Salaried employees-----	211	739	6	185	¹⁰ 47	16	4	6	10
Proprietors and firm members (not applicable to corporations)-----	7	23	3	56	36	15	11	4	6
Performing manual labor-----	7	17		21	12	5	3	4	
Production of anthracite (tons of 2,000 pounds), total ¹¹ -----	5,293,317	11,061,731	33,991	(¹²)	¹³ 877,872	¹³ 546,783	46,199	55,316	229,574
Raw coal used or sold for use as run-of-mine and raw coal stored for preparation after 1939-----	8,144	39,151		(¹²)					
Breaker, washery, and dredge product ¹¹ -----	5,285,173	11,022,580	33,991	(¹²)	¹³ 877,872	¹³ 546,783	46,199	55,316	229,574
Value of all products-----	\$19,975,824	\$38,446,185	\$88,888	(¹²)	\$872,235	\$494,534	\$54,233	\$53,718	\$269,750
Coal (value at the mine, preparation plant, or dredge)-----	\$19,982,208	\$38,436,725	\$88,888	(¹²)	\$870,580	\$494,534	\$54,233	\$53,718	\$268,095
Other products ¹⁴ -----	\$13,616	\$9,460		(¹²)	\$1,655				\$1,655
Average value of coal per ton-----	\$3.77	\$3.48	\$2.82		\$0.99	\$0.90	\$1.17	\$0.97	\$1.17
Principal expenses designated below, total ¹⁵ -----	\$13,228,079	\$30,103,340	\$82,550	\$7,725,176	¹⁰ \$552,335	\$233,684	\$28,054	\$40,703	\$201,672
Wages-----	\$9,041,769	\$21,377,048	\$61,512	\$3,165,923	\$276,852	\$99,988	\$15,263	\$17,594	\$144,027
Salaries-----	\$411,132	\$1,599,581	\$7,007	\$748,925	¹⁰ \$107,515	\$21,037	\$2,886	\$10,120	\$25,250
Supplies and materials-----	\$2,552,710	\$4,312,293	\$9,506	\$2,956,026	\$79,722	\$59,009	\$6,113	\$6,889	\$7,711
Fuel-----	\$77,325	\$620,835	\$1,840	\$618,684	\$40,417	\$10,558	\$3,792	\$4,302	\$21,765
Purchased electric energy-----	\$1,087,830	\$2,092,608	\$2,685	\$94,168	\$47,829	\$43,112		\$1,798	\$2,919
Contract work ¹⁶ -----	\$57,313	\$100,995		\$141,250					
Cost of buildings, machinery, and equipment erected or installed during year-----	\$45,318	\$888,841	\$52.5	\$1,000,480	\$26,978	\$2,000	\$37.5	\$4,903	\$19,700
Buildings-----	\$6,023	\$428,843		(¹⁶)	\$5,200	\$1,200			\$4,000
Machinery and equipment-----	\$39,295	\$459,998	\$52.5	¹⁶ \$1,000,480	\$21,778	\$800	\$37.5	\$4,903	\$15,700
Purchased in new condition-----	\$32,677	\$432,066	\$400	\$899,632	\$7,952		\$37.5	\$4,877	\$2,700
Purchased in used condition-----	\$6,618	\$27,932	\$125	\$100,848	\$13,826	\$800		\$2.6	\$13,000
Number of man-shifts worked by wage earners, total-----	1,351,608	3,387,644	16,117	572,354	60,564	27,755	3,226	6,031	23,552
On active days ¹⁷ -----	1,312,748	3,220,552	15,655	553,527	59,641	27,580	3,226	5,610	23,245
On inactive days ¹⁸ -----	38,860	167,092	462	18,827	923	195		421	307
Number of man-hours worked by wage earners, total-----	9,484,840	23,732,584	116,350	4,038,461	532,109	224,261	32,260	47,230	228,358
On active days ¹⁷ -----	9,212,700	22,553,461	113,014	3,902,913	524,634	222,524	32,260	43,862	226,188
On inactive days ¹⁸ -----	272,140	1,179,123	3,336	135,548	7,275	1,737		3,368	2,170
Average number of equivalent full days operations were active-----	195	183	107	200	189	240	170	130	167
Average number of hours worked per shift-----	7.0	7.0	7.2	7.1	8.8	8.1	10.0	7.8	9.7
Average hourly earning per wage earner-----	\$0.95	\$0.90	\$0.53	\$0.78	\$0.92	\$0.45	\$0.47	\$0.37	\$0.63
Tons of anthracite produced per man-hour ¹⁹ -----	(²⁰)	(²⁰)	(²⁰)	(²⁰)	1.65	2.44	1.43	1.17	1.01
Horsepower rating of power equipment, total-----	86,554	249,079	481	70,553	6,451	3,707	464	688	1,592
Per wage earner-----	14.1	16.0	5.7	28.7	25.5	36.7	36.7	26.5	14.0
Stationary equipment ²¹ -----	66,678	201,903	307	1,017	4,613	3,181	464	513	455
Mobile equipment ²² -----	19,876	47,176	174	69,536	1,838	526		175	1,137

¹³ Includes statistics for a small quantity of culm-bank coal and breaker tailings run through a dredge washery.¹⁴ Represents receipts for electric energy generated and sold; services such as pumping, hauling, and coal preparation performed for others; and value added by the preparation during 1939 of raw coal mined prior to 1939.¹⁵ Excludes amounts paid by colliery companies to stripping contractors, totaling \$10,561,673 for strip-pit and culm-bank work and \$58,086 for miscellaneous services.¹⁶ For explanation of cost of buildings, machinery, and equipment reported by stripping contractors see table 45, footnote 24.¹⁷ Represents employment for days on which the respective mines or plants were actively engaged in production or development work.¹⁸ Represents employment for days on which only watchmen, inspectors, or maintenance men were employed and the respective operations were not actively engaged in production or development work.¹⁹ Computed by dividing the total production of anthracite by the total number of man-hours worked by wage earners.²⁰ For average output per man-hour see table 52.²¹ Aggregate horsepower rating of engines, motors, etc. for driving stationary or fixed equipment such as generators, mine hoists, pumps, ventilating fans, compressors, and crushers.²² Aggregate horsepower rating of engines, motors, etc. for driving mobile equipment such as locomotives, trucks, tractors, churn drills, and power shovels.

TABLE 48.—QUANTITY AND VALUE OF PRODUCTS IN THE PENNSYLVANIA ANTHRACITE INDUSTRY, BY KIND AND BY COUNTY: 1939¹

PRODUCT	Total	Berks and Carbon	Columbia ²	Dauphin and Lebanon	Lackawanna	Lehigh, Northampton, and York	Luzerne ²	Northumberland	Schuylkill	Sullivan	Susquehanna and Wayne
Value of all products-----	\$189,647,913	\$6,690,464	\$1,679,598	\$1,919,022	\$32,983,710	\$63,879	\$88,401,566	\$20,264,414	\$36,938,035	\$88,888	\$618,337
Production of anthracite:											
Prepared ³ —											
Tons of 2,000 pounds-----	51,375,511	1,950,327	487,867	622,640	8,560,491	54,234	23,122,034	5,591,119	10,811,362	33,991	161,446
Value-----	\$188,989,248	\$6,690,464	\$1,679,598	\$1,910,699	\$32,622,179	\$63,879	\$88,228,946	\$20,252,679	\$36,853,579	\$88,888	\$618,337
Unprepared (sold or used run-of-mine or stored for preparation after 1939)-----											
Tons of 2,000 pounds-----	489,817				360,127		82,395	8,144	39,151		
Value-----	\$442,663				\$234,681		\$106,019	\$18,119	\$81,664		
Production of sand and gravel:											
Tons of 2,000 pounds-----	1,152			1,152							
Value-----	\$1,655			\$1,655							
Electric energy sold:											
Thousands of kilowatt-hours-----	6,477			2,945	649		2,983				
Value-----	\$53,429			\$6,688	\$7,366		\$39,395				
Receipts for services performed for others, excluding coal preparation	\$9,323				\$3,177			\$6,146			
Value added by preparing coal mined before 1939 or by others during 1939-----	\$151,575				\$116,107		\$25,206	\$7,470	\$2,792		

¹ For definition of the industry see table 45, footnote 1.² Data for one dredging operation in Luzerne County included in those for Columbia County.³ Represents breaker, washery, and dredge product.TABLE 49.—NUMBER OF WAGE EARNERS IN THE PENNSYLVANIA ANTHRACITE INDUSTRY, BY TYPES OF OPERATION, BY COUNTY, AND BY MONTH: 1939¹

(For producing operations only)

ITEM	Average for the 12 months	NUMBER RECEIVING PAY DURING PAY-ROLL PERIOD ENDING NEAREST THE 15TH OF THE MONTH											
		January	February	March	April	May	June	July	August	September	October	November	December
Pennsylvania, total-----	82,622	84,180	85,595	85,734	85,799	84,746	82,015	73,397	74,869	80,171	85,535	86,530	85,319
Operations engaged in mining and preparing fresh-mined and culm-bank coal, total-----	82,569	84,026	85,452	85,490	85,453	84,380	81,702	73,133	74,653	79,914	85,258	86,234	85,136
Colliery operations, total-----	80,108	81,465	83,012	82,978	82,856	81,776	79,268	70,861	72,514	77,618	82,759	83,594	82,594
Carbon-----	2,986	2,428	3,114	3,124	3,093	3,104	3,105	2,462	2,524	3,148	3,180	3,271	3,275
Columbia-----	484	842	837	839	845	859	320	29	49	318	316	278	278
Lackawanna, Susquehanna, and Wayne-----	16,145	15,264	15,347	16,083	16,647	16,599	15,154	11,684	12,809	14,142	15,774	16,042	15,992
Luzerne-----	39,681	40,206	41,247	41,039	40,855	39,783	39,178	36,273	36,557	38,472	40,439	41,120	41,010
Northumberland-----	6,140	6,963	6,610	6,445	6,545	6,539	6,595	5,679	5,722	5,821	5,947	5,830	4,982
Schuylkill, Dauphin, and Lebanon-----	15,588	15,622	15,711	15,518	14,762	14,870	14,913	14,528	14,832	15,699	16,979	16,919	16,920
Sullivan-----	84	140	143	132	109	22	5	6	21	28	124	134	137
Stripping contractors-----	2,461	2,561	2,440	2,512	2,597	2,604	2,434	2,272	2,139	2,296	2,499	2,640	2,542
Dredge operations, total-----	253	134	143	244	346	366	313	264	216	257	277	296	183
Berks, Northumberland, and Schuylkill-----	101	80	81	98	115	121	107	93	106	114	97	103	93
Carbon, Lehigh, and Northampton-----	12	1	1	1	14	18	19	19	19	19	19	17	1
Columbia and Luzerne-----	26	4	10	11	43	50	47	48	12	6	29	53	20
Dauphin and York-----	114	49	51	134	174	177	140	104	79	118	132	143	69

¹ For definition of the industry see table 45, footnote 1.

TABLE 50.—EMPLOYMENT AND WORKING TIME IN THE PENNSYLVANIA ANTHRACITE INDUSTRY, BY DEPARTMENT,
AND BY TYPE OF OPERATION AND COUNTY: 1939 ¹
(For producing operations only)

DEPARTMENT, TYPE OF OPERATION, AND COUNTY	Average number of wage earners on active days	Average number of equivalent full days operations were active ²	NUMBER OF MAN-SHIFTS WORKED BY WAGE EARNERS			NUMBER OF MAN-HOURS WORKED BY WAGE EARNERS		
			Total	On active days	On inactive days	Total	On active days	On inactive days
Total, all operations	90,996	186	17,693,197	16,946,657	746,540	123,968,647	118,694,034	5,274,613
DEPARTMENT								
At mines, total	81,342	188	15,987,691	15,260,013	727,678	111,898,496	106,760,024	5,138,472
Underground	68,276	187	15,492,728	12,795,427	697,301	94,410,168	89,491,859	4,918,309
Strip-pit and culm-bank	3,905	193	784,128	753,751	30,377	5,559,960	5,319,817	220,163
Surface shops and yards	9,161	187	1,710,835	1,710,835	(3)	11,948,348	11,948,348	(3)
At breakers and washeries	9,338	174	1,644,942	1,627,003	417,939	11,538,042	11,409,176	4128,866
At dredges	316	189	60,564	59,641	923	532,109	524,834	7,275
TYPE OF OPERATION AND COUNTY								
Operations engaged in mining and preparing fresh-mined and culm-bank coal, total	90,680	186	17,632,633	16,887,016	745,617	123,436,539	118,169,200	5,267,338
Colliery operations, total	87,917	186	17,060,279	16,333,489	726,790	119,399,077	114,266,287	5,131,790
Carbon	3,331	175	806,391	582,539	23,852	4,244,937	4,077,997	166,950
Columbia	877	128	118,573	110,480	8,093	816,012	773,361	42,651
Lackawanna, Susquehanna, and Wayne	16,899	180	3,150,594	3,035,129	115,465	21,995,681	21,161,476	834,185
Luzerne	42,286	191	8,431,352	8,058,396	374,956	59,007,693	56,374,288	2,633,405
Northumberland	6,735	195	1,351,608	1,312,748	38,860	9,484,840	9,212,700	272,140
Schuylkill, Dauphin, and Lebanon	17,643	183	3,367,644	3,220,552	187,092	23,732,564	22,553,461	1,179,123
Sullivan	146	107	16,117	15,655	462	116,550	113,014	3,536
Stripping contractors	2,763	200	572,354	553,527	18,827	4,036,461	3,902,913	133,548
Dredge operations, total	316	189	60,564	59,641	923	532,109	524,834	7,275
Berks, Northumberland, and Schuylkill	115	240	27,755	27,560	195	224,261	222,524	1,737
Carbon, Lehigh, and Northampton	19	170	3,226	3,226	—	32,260	32,260	—
Columbia and Luzerne	43	130	6,031	5,610	421	47,230	45,862	3,368
Dauphin and York	139	167	23,552	23,245	307	226,358	226,183	2,170

¹ For definition of the industry see table 45, footnote 1.

² Computed by dividing the number of man-shifts worked on active days by the average number of men working on active days.

³ Included in the figures for the mines.

⁴ Working time on inactive days at mines and breakers reported together is included with the mine; the figures shown for man-shifts and man-hours at breakers and washeries on inactive days are for plants reported separately.

TABLE 51.—NUMBER OF OPERATIONS IN THE PENNSYLVANIA ANTHRACITE INDUSTRY WORKING ONE, TWO, OR THREE SHIFTS
AND NUMBER OF MAN-SHIFTS WORKED, BY SHIFT: 1939 ¹
(For producing operations only)

OPERATION OR DEPARTMENT	NUMBER OF OPERATIONS WORKING—				NUMBER OF MAN-SHIFTS WORKED BY WAGE EARNERS ON ACTIVE DAYS ²			
	Total	One shift	Two shifts	Three shifts	Total	During first shift	During second shift	During third shift
Total operations	3540	(4)	(4)	(4)	16,946,657	14,440,573	1,988,703	517,381
Mines, total	473	(4)	(4)	(4)	15,260,013	12,902,905	1,856,611	500,497
Underground	292	206	49	37	12,795,427	10,689,229	1,679,969	426,229
Strip-pit and culm-bank	181	(5)	(5)	(5)	753,751	610,433	98,737	44,581
Surface shops and yards	(6)	(6)	(6)	(6)	1,710,835	1,603,243	77,805	29,687
Breakers and washeries	160	113	28	19	1,627,003	1,481,948	128,628	16,227
Dredges	34	29	4	1	59,641	55,620	3,164	657

¹ For definition of the industry see table 45, footnote 1.

² Includes man-shifts worked by stripping contractors.

³ Represents the number of mines, number of breakers and washeries reported separately from mines, and number of dredges.

⁴ Not available.

⁵ The exact number of strip pits and culm banks operating one, two, or three shifts is not determinable because of duplication arising from operations at the same pit or bank by both colliery employees and stripping contractors, or by more than one contracting concern. Furthermore, contractors that performed work at two or more strip pits or culm banks and reported working more than one shift may not have worked more than one shift at all operations. Of the 58 stripping contractors, 40 worked one shift only; 7, two shifts; and 11, three shifts. Colliery employees worked one shift at 35 strip pits and culm banks, two shifts at 12, and three shifts at only 1.

⁶ Included with their associated mines.

TABLE 52.—PRODUCTION, MAN-HOURS, AND OUTPUT PER MAN-HOUR IN THE PENNSYLVANIA ANTHRACITE INDUSTRY,
EXCLUSIVE OF DREDGE OPERATIONS, BY TYPES OF OPERATION AND BY COUNTY: 1939¹
(Quantities of coal ore in net tons of 2,000 pounds)

ITEM	State total	Carbon	Columbia	Lackawanna, Susquehanna, and Wayne	Luzerne	Northumber- land	Schuylkill, Dauphin, and Lebanon	Sullivan
Number of mines, total	473	11	8	150	143	34	121	6
Underground mines, total	292	5	3	117	95	13	53	6
Operated in connection with breaker	173	5	3	47	59	11	42	6
Operated independently	119			70	36	2	11	
Strip pits, total	116	4	5	23	40	10	34	
Operated in connection with breaker	94	4	5	11	32	9	33	
Operated independently	22			12	8	1	1	
Culm banks ²	65	2		10	8	11	34	
Number of preparation plants, total	158	6	3	39	49	11	46	4
Breakers, total	143	6	3	38	46	9	37	4
Operated in connection with mines	125	6	3	25	45	9	33	4
Operated independently	18			13	1		4	
Culm-bank washeries ³	15			1	3	2	9	
Raw coal mined, total	^a 71,063,587	^b 2,706,430	493,113	11,465,654	28,701,306	7,739,194	^c 19,923,879	^d 33,991
From underground mines	^a 55,943,307	1,806,914	227,358	10,058,110	26,514,792	5,200,339	12,301,803	^d 33,991
From strip-pits, total	8,693,816	899,516	265,755	906,073	2,183,741	1,334,577	3,104,154	
Mined by colliery companies	^a 1,444,961	616,246	7,063	115,381	198,544	(^e)	507,727	
Mined by stripping contractors	^a 7,248,855	283,270	258,692	790,692	1,985,197	^e 1,334,577	2,596,427	
From culm banks, total	8,428,444	(^e)		501,471	202,773	1,204,278	^e 4,517,922	
Mined by colliery companies	^a 1,517,175				122,077	(^e)	1,395,098	
Mined by stripping contractors	^a 4,909,269	(^e)		501,471	80,696	^e 1,204,278	^e 3,122,824	
Raw coal mined for preparation (reported by mining operations), total	^a 70,573,750	2,706,430	493,113	11,105,527	28,618,911	7,731,060	19,884,728	^d 33,991
At plants of same company	^a 66,237,813	2,706,430	493,113	8,752,308	27,004,355	7,665,845	19,581,773	^d 33,991
At plants of other companies	4,335,937			2,353,221	1,614,556	65,205	302,955	
Raw coal received at plants for preparation (reported by breakers and washeries), total	^a 70,609,721	3,047,892	573,580	10,788,389	28,517,671	8,362,296	19,285,902	^d 33,991
Mined by same company	^a 66,237,813	3,047,892	565,307	8,377,848	28,853,851	8,308,765	19,050,179	^d 33,991
Mined by other companies	4,371,908		8,273	2,410,541	1,663,840	53,531	235,723	
Final coal product, total:								
Tons	50,987,456	1,879,373	432,551	9,082,064	23,204,429	5,293,317	11,061,751	33,991
Value at the mine or preparation plant	\$188,561,351	\$6,635,288	\$1,625,880	\$33,475,397	\$88,336,965	\$19,962,208	\$38,436,725	\$68,888
Average value per ton	\$3.70	\$3.53	\$3.76	\$3.69	\$3.81	\$3.77	\$3.47	\$2.82
Coal used or sold for use as run-of-mine and raw coal stored for preparation after 1939—								
Tons	489,817			360,127	82,395	8,144	39,151	
Value	\$442,683			\$234,881	\$108,019	\$18,119	\$81,664	
Breaker and washery product, totals—								
Tons	50,497,639	1,879,373	432,551	8,721,937	23,122,034	5,285,173	11,022,580	33,991
Value	\$188,118,668	\$6,635,288	\$1,625,880	\$33,240,516	\$88,228,946	\$19,944,069	\$38,355,061	\$68,888
Mined by same company								
Tons	46,974,408	1,879,373	426,760	8,757,795	21,784,145	5,241,753	10,850,591	33,991
Value	\$174,751,742	\$6,635,288	\$1,604,661	\$25,824,219	\$83,084,348	\$19,797,755	\$37,716,593	\$68,888
Mined by other companies								
Tons	3,523,231		5,791	1,964,142	1,337,889	43,420	171,989	
Value	\$13,366,926		\$21,219	\$7,416,297	\$5,144,598	\$146,354	\$638,478	
Ratio of prepared coal to raw coal (percent) ⁹	^a 71.5	61.7	75.4	80.8	81.1	63.2	57.2	(^d)
Number of man-hours worked by wage earners, total ¹⁰	123,438,538	^a 4,443,863	927,692	22,482,884	60,130,498	9,983,825	^b 25,351,426	116,350
At mining operations, total	111,796,308	^a 3,798,759	784,875	20,666,774	55,369,050	8,684,886	^b 22,395,575	96,409
Underground	106,264,247	2,898,125	663,878	20,039,259	54,099,454	8,111,905	20,355,217	96,409
Strip-pit, total	4,653,162	900,634	120,997	533,712	1,219,888	414,923	1,463,028	
Employed by colliery operators	^a 1,212,436	701,708	9,317	140,292	117,941	(^e)	245,178	
Employed by stripping contractors	^a 3,440,726	198,926	111,680	393,420	1,101,927	^e 414,923	1,218,850	
Culm-bank, total	878,899	(^e)		95,803	49,728	158,038	^b 577,330	
Employed by colliery operators	^a 207,188				28,850	(^e)	178,338	
Employed by stripping contractors	^a 671,711	(^e)		93,803	20,878	^e 158,038	^b 398,992	
At preparation plants	11,640,230	645,104	142,817	1,816,110	4,761,448	1,298,939	2,955,851	19,941
Tons of raw coal produced per man-hour of mining employment, at all operations ¹¹	^a 0.64	0.71	0.63	0.55	0.52	0.89	0.89	(^d)
Underground mines	^a 0.53	0.62	0.54	0.50	0.49	0.64	0.60	(^d)
Strip pits, all operations	1.87	1.00	2.20	1.70	1.79	3.22	2.12	
Colliery operations	^a 1.19	0.88	0.76	0.82	1.68	(^e)	2.09	
Strip-pit contract operations	^a 2.11	1.42	2.32	2.01	1.80	^e 3.22	2.13	
Culm banks, all operations	7.81	(^e)		5.35	4.08	7.62	7.85	
Colliery operations	^a 7.22				4.23	(^e)	7.82	
Culm-bank contract operations	^a 7.81	(^e)		5.35	3.87	^e 7.62	7.85	
Tons of prepared coal produced per man-hour of plant employment ¹²	4.34	2.91	3.03	4.80	4.86	4.07	3.75	1.70

See footnotes at end of table.

PENNSYLVANIA ANTHRACITE

311

TABLE 52.—PRODUCTION, MAN-HOURS, AND OUTPUT PER MAN-HOUR IN THE PENNSYLVANIA ANTHRACITE INDUSTRY,
EXCLUSIVE OF DREDGE OPERATIONS, BY TYPES OF OPERATION AND BY COUNTY: 1939—Continued
(Quantities of coal are in net tons of 2,000 pounds)

ITEM	State total	Carbon	Columbia	Lackawanna, Susquehanna, and Wayne	Luzerne	Northumber- land	Schuylkill, Dauphin, and Lebanon	Sullivan
Number of man-hours worked per ton of raw coal, total ¹	41.73	1.62	1.84	1.97	2.10	1.28	1.27	(*)
At mines, per ton of raw coal mined	41.57	1.41	1.59	1.80	1.93	1.12	1.12	(*)
At preparation plants, per ton of raw coal prepared	40.16	0.21	0.25	0.17	0.17	0.16	0.15	(*)
Average output per man-hour in mining and preparing coal:								
In tons of raw coal ¹⁴	40.58	0.62	0.54	0.51	0.48	0.78	0.78	(*)
In tons of prepared coal ¹⁵	0.41	0.38	0.41	0.41	0.39	0.49	0.45	0.29

¹For definition of the industry see table 45, footnote 1; for explanation of terms used and distribution of operations by county see appropriate footnotes to tables 45 and 47.

²All operated in connection with a breaker or washery.

³All operated in connection with culm banks.

⁴Tonnage figures for Sullivan County represent prepared coal; census statistics for raw coal mined in that county are not available. State totals for raw coal mined thus include the prepared-coal output of Sullivan County. In computing the ratio of prepared coal to raw coal and the raw-coal output per man-hour for the State, the relatively small prepared output of Sullivan County was included in the raw-coal totals; had statistics for Sullivan County been excluded from these computations, the resulting figures would have been identical with those shown.

⁵Statistics for the mining of a small tonnage of culm-bank coal by contractors in Carbon County are included in the statistics for Schuylkill, Dauphin, and Lebanon Counties.

⁶Statistics for colliery companies in Northumberland County are included with those for contractors.

⁷Figures include coal received from mines for which either value of products nor cost of development work during the year amounted to as much as \$2,500; they do not include coal mined prior to 1939 and received for preparation during 1939.

⁸Figures include prepared coal produced from raw coal mined in counties other than those in which it was prepared and from raw coal mined at operations for which neither value of products nor cost of development work amounted to as much as \$2,500. Figures do not include statistics for 132,798 tons of prepared coal recovered during 1939 from raw coal mined prior to 1939.

⁹Computed by dividing total quantity of breaker and washery product by the total quantity of raw coal received at breakers and washeries for preparation.

¹⁰Represents man-hours worked on both active and inactive days. The county totals for man-hours differ from those given in table 47 because they include the man-hours worked by wage earners employed by contractors at strip-pit and culm-bank operations, which are presented only as a total in table 47. Many of the contractors worked in only one county and engaged in only one type of operation—either strip-pit mining or culm-bank loading. Some concerns, however, performed only one type of work but had operations in more than one county, some were engaged in both strip-pit and culm-bank operations within the same county, and some had both strip-pit and culm-bank operations in more than one county. The number of man-hours reported by each contracting concern, however, represented the total number of man-hours worked by all wage earners in its employ. For the purpose of this table the total numbers of man-hours reported by contractors that operated in more than one county and did both strip-pit and culm-bank work were distributed approximately among the counties in which the work was performed and according to the type of work performed. This distribution was made on the basis of corresponding tonnages and output-per-man-hour averages for the other contracting concerns.

¹¹Computed by dividing the quantity of raw coal mined by the number of man-hours worked by wage earners at the respective types of mining operations.

¹²Computed by dividing the total quantity of breaker and washery product by the total number of man-hours worked by wage earners at preparation plants.

¹³The sum of the average number of man-hours worked per ton of raw coal mined (computed by dividing the total number of man-hours worked by wage earners at mining operations by the total quantity of raw coal mined) and the average number of man-hours worked per ton of raw coal prepared (computed by dividing the number of man-hours worked by wage earners at preparation plants by the total quantity of raw coal received at plants for preparation). This method of computation permits an approximate measurement of raw coal output per man-hour in both mining and preparation, even though the quantity of raw coal mined in each county differs from the quantity of raw coal sent through breakers and washeries in that county.

¹⁴Reciprocal of total number of man-hours worked per ton of raw coal.

¹⁵Computed for the State and for all counties but Sullivan by multiplying the average output of raw coal per man-hour, as given in the line above, by the ratio of prepared coal to raw coal. The average for Sullivan County was computed by dividing the quantity of prepared coal by the total number of man-hours worked.

TABLE 53.—QUANTITY OF FUEL AND ELECTRIC ENERGY CONSUMED IN THE PENNSYLVANIA ANTHRACITE INDUSTRY BY KIND,
1939, 1929, 1919, BY TYPE OF OPERATION AND BY COUNTY, 1939¹
(For producing operations only)

TYPE OF OPERATION AND COUNTY	FUEL ²				ELECTRIC ENERGY (thousands of kilowatt-hours)		
	Anthracite (tons of 2,000 pounds)	Bituminous coal (tons of 2,000 pounds)	Fuel oils (barrels of 42 gallons)	Gasoline and kerosene (gallons)	Total	Purchased	Generated by reporting companies
Total	1939 2,524,315 1929 5,650,388 1919 9,575,985	4,705 28,833 4,096	82,301 879 671	4,104,574 92,053 58,002	951,444 948,877 (3)	577,284 470,248 (3)	374,180 478,429 (2)
Operations engaged in mining and preparing fresh-mined and culm-bank coal, total	2,522,195		80,351	3,980,609	949,575	575,415	374,180
Colliery operations, total	2,521,120		4,751	736,209	940,995	566,654	374,141
Carbon	63,486		360	59,484	32,006	32,006	
Columbia	22,023			100	7,125	7,125	
Lackawanna, Susquehanna, and Wayne	554,466		1,239	189,039	177,897	70,504	107,198
Luzerne	1,455,130		1,608	103,222	387,491	158,278	229,213
Northumberland	43,289			30,215	100,583	100,583	
Schuylkill, Dauphin, and Lebanon	381,536		1,544	349,548	235,992	198,257	37,735
Sullivan	1,190			4,500	101	101	
Stripping contractors	41,075		475,600	43,224,400	58,580	58,581	519
Dredge operations, total	2,120	4,705	1,950	143,965	1,869	1,869	
Berks, Northumberland, and Schuylkill	1,850		1,780	71,263	1,762	1,762	
Carbon, Lehigh, and Northampton				31,948			
Columbia and Luzerne			170	18,165	41	41	
Dauphin and York	270	4,705		22,589	66	66	

¹For definition of the industry see table 45, footnote 1.

²No natural gas was reported consumed.

³Not available.

⁴Stripping contractors were not requested to report the quantity of fuels consumed; the figures are estimates based on costs of fuels reported and kinds of fuel reported used by loading equipment.

⁵Figures for quantity of electric energy consumed by stripping contractors are estimated: purchased energy on the basis of reported cost, and generated energy on the basis of horsepower rating of electric motors driven by energy generated by reporting companies.

TABLE 54.—NUMBER AND HORSEPOWER RATING OF PRIME MOVERS AND ELECTRIC MOTORS IN THE PENNSYLVANIA ANTHRACITE INDUSTRY, BY TYPE OF OPERATION AND BY COUNTY: 1939¹
(For producing operations only)

TYPE OF EQUIPMENT	All operations	OPERATIONS ENGAGED IN MINING AND PREPARING FRESH-MINED AND CULM-BANK COAL						
		Total	Colliery operations					
			Total	Carbon	Columbia	Lackawanna, Susquehanna, and Wayne	Luzerne	Northumberland
Prime movers, total:								
Number, total	2,558	2,345	1,653	65	13	431	679	27
Stationary	1,246	1,140	1,136	8	5	299	516	19
Mobile	1,292	1,205	517	57	8	132	161	8
Horsepower, total	491,794	487,453	425,936	12,722	1,568	98,172	222,546	5,015
Stationary	365,354	362,773	362,513	587	345	86,788	201,286	4,050
Mobile	126,440	124,683	63,423	12,135	1,223	11,384	21,260	963
Driving generators ² —								
Number, total	81	80	80	-----	1	23	49	-----
Stationary	70	69	69	-----	-----	23	40	-----
Mobile	11	11	11	-----	1	-----	9	-----
Horsepower, total	160,036	160,026	160,026	-----	25	54,256	84,615	-----
Stationary	159,716	159,706	159,706	-----	-----	54,256	84,345	-----
Mobile	320	320	320	-----	25	-----	270	-----
Not driving generators ² —								
Number, total	1,765	1,573	1,573	65	12	408	650	27
Stationary	1,172	1,067	1,067	8	5	276	478	19
Mobile	593	506	506	57	7	132	152	8
Horsepower, total	270,238	265,910	265,910	12,722	1,543	43,916	137,931	5,015
Stationary	205,378	202,807	202,807	587	345	32,532	116,941	4,050
Mobile	64,860	63,103	63,103	12,135	1,198	11,384	20,990	963
Held for stand-by (included above) ² —								
Number, total	173	166	166	-----	-----	37	80	2
Stationary	149	142	142	-----	-----	24	71	1
Mobile	24	24	24	-----	-----	13	9	1
Horsepower, total	29,399	29,164	29,164	-----	-----	8,643	16,625	119
Stationary	27,063	26,828	26,828	-----	-----	7,407	15,615	45
Mobile	2,336	2,336	2,336	-----	-----	1,236	1,010	74
Electric motors driven by purchased energy:								
Number, total	11,832	11,645	11,526	527	88	2,135	4,687	1,326
Stationary	8,253	8,073	8,033	435	81	1,171	3,202	973
Mobile	3,579	3,572	3,493	92	7	964	1,485	353
Horsepower, total	545,422	543,309	534,276	33,798	4,235	67,863	183,194	81,541
Stationary	404,017	401,985	401,228	28,612	4,105	41,727	131,403	82,629
Mobile	141,405	141,324	133,048	5,186	130	26,136	51,791	18,913
Electric motors driven by energy generated by reporting companies:								
Number, total	8,099	8,099	8,098	-----	-----	3,041	4,943	-----
Stationary	5,378	5,378	5,378	-----	-----	1,764	3,527	-----
Mobile	2,721	2,721	2,720	-----	-----	1,277	1,416	-----
Horsepower, total	368,255	368,255	368,181	-----	-----	125,222	225,631	-----
Stationary	282,041	282,041	282,041	-----	-----	88,595	177,729	-----
Mobile	86,214	86,214	86,140	-----	-----	36,627	47,902	-----

See footnotes at end of table.

TABLE 54.—NUMBER AND HORSEPOWER RATING OF PRIME MOVERS AND ELECTRIC MOTORS IN THE PENNSYLVANIA ANTHRACITE INDUSTRY, BY TYPE OF OPERATION AND BY COUNTY: 1939¹—Continued
(For producing operations only)

TYPE OF EQUIPMENT	OPERATIONS ENGAGED IN MINING AND PREPARING FRESH-MINED AND CULM-BANK COAL—Continued			DREDGE OPERATIONS				
	Colliery operations—Continued		Stripping contractors	Total	Berks, Northumberland, and Schuylkill	Carbon, Lehigh, and Northampton	Columbia and Luzerne	Dauphin and York
	Schuylkill, Dauphin, and Lebanon	Sullivan						
Prime movers, total:								
Number, total	429	9	692	195	74	20	18	81
Stationary	279	8	4	106	63	20	11	12
Mobile	150	1	688	87	11	—	7	69
Horsepower, total	85,684	231	61,520	4,338	1,912	464	570	1,392
Stationary	69,300	157	280	2,581	1,464	464	395	258
Mobile	16,384	74	61,280	1,757	448	—	175	1,134
Driving generators ² —								
Number, total	7	—	—	1	1	—	—	—
Stationary	6	—	—	1	1	—	—	—
Mobile	1	—	—	—	—	—	—	—
Horsepower, total	21,130	—	—	10	10	—	—	—
Stationary	21,105	—	—	10	10	—	—	—
Mobile	25	—	—	—	—	—	—	—
Not driving generators ² —								
Number, total	422	9	—	192	73	20	18	81
Stationary	273	8	—	105	62	20	11	12
Mobile	149	1	—	87	11	—	7	69
Horsepower, total	64,554	231	—	4,328	1,902	464	570	1,392
Stationary	48,195	157	—	2,571	1,454	464	395	258
Mobile	16,359	74	—	1,757	448	—	175	1,134
Held for stand-by (included above) ² —								
Number, total	47	—	—	7	7	—	—	—
Stationary	46	—	—	7	7	—	—	—
Mobile	1	—	—	—	—	—	—	—
Horsepower, total	3,777	—	—	235	235	—	—	—
Stationary	3,761	—	—	235	235	—	—	—
Mobile	16	—	—	—	—	—	—	—
Electric motors driven by purchased energy:								
Number, total	2,574	9	119	187	168	—	7	12
Stationary	2,166	5	40	180	163	—	7	10
Mobile	408	4	79	7	5	—	—	2
Horsepower, total	163,395	250	9,033	2,113	1,795	—	118	200
Stationary	132,603	150	757	2,032	1,717	—	118	197
Mobile	30,792	100	8,276	81	78	—	—	3
Electric motors driven by energy generated by reporting companies:								
Number, total	114	—	1	—	—	—	—	—
Stationary	87	—	—	—	—	—	—	—
Mobile	27	—	1	—	—	—	—	—
Horsepower, total	17,328	—	74	—	—	—	—	—
Stationary	15,717	—	—	—	—	—	—	—
Mobile	1,611	—	74	—	—	—	—	—

¹For definition of the industry see table 45, footnote 1; for explanation of terms "Stationary" and "Mobile" see table 47, footnotes 21 and 22.

²Separation of prime movers into those driving generators and those not driving generators and segregation of prime movers ordinarily idle but held for stand-by equipment was not requested of strip-pit and culm-bank contractors. Accordingly, statistics for prime movers of such contractors are included only in the figures for total prime movers.

MINERAL INDUSTRIES

TABLE 55.—NUMBER OF MECHANICAL-POWER LOADING MACHINES AT PENNSYLVANIA ANTHRACITE OPERATIONS,
BY TYPE, BY KIND OF POWER, AND BY COUNTY: 1939¹
(For producing operations only)

TYPE OF MACHINE AND KIND OF POWER USED	All operations	OPERATIONS ENGAGED IN MINING AND PREPARING FRESH-MINED AND CULM-BANK COAL						
		Total	Colliery operations					
			Total	Carbon	Columbia	Lackawanna, Susquehanna, and Wayne	Luzerne	Northum- berland
All types, total-----	3,137	3,050	2,748	34	8	912	1,387	243
Steam-----	34	14	11	-----	1	8	-----	-----
Electric-----	2,570	2,533	2,488	25	7	892	1,275	201
Compressed air-----	197	197	197	-----	-----	-----	102	59
Gasoline or Diesel-----	336	306	52	9	-----	12	12	5
Underground, total-----	2,667	2,667	2,667	18	7	892	1,368	237
Electric-----	2,470	2,470	2,470	18	7	892	1,266	198
Compressed air-----	197	197	197	-----	-----	-----	102	59
Scraper loaders, total-----	² 572	572	572	4	4	243	232	71
Electric-----	564	564	564	4	4	243	228	67
Compressed air-----	8	8	8	-----	-----	-----	4	4
Hand-loaded face conveyors (including shaker chutes), total-----	2,020	2,020	2,020	14	3	639	1,098	149
Electric-----	1,847	1,847	1,847	14	3	639	1,000	130
Compressed air-----	173	173	173	-----	-----	-----	98	19
Other, total-----	³ 75	75	75	-----	-----	10	38	17
Electric-----	59	59	59	-----	-----	10	38	1
Compressed air-----	16	16	16	-----	-----	-----	-----	16
Surface and dredge, total-----	470	383	81	16	1	20	19	6
Steam-----	34	14	11	-----	1	8	-----	-----
Electric-----	100	63	18	7	-----	-----	7	3
Gasoline or Diesel-----	336	306	52	9	-----	12	12	3
Power shovels, total-----	⁴ 168	165	48	9	1	13	9	3
Steam-----	15	14	11	-----	1	8	-----	-----
Electric-----	19	19	10	5	-----	-----	2	2
Gasoline or Diesel-----	134	132	27	4	-----	5	7	1
Dragline excavators, total-----	⁵ 190	185	25	7	-----	4	8	2
Electric-----	45	42	6	2	-----	-----	3	1
Gasoline or Diesel-----	145	143	19	5	-----	4	5	1
Surface scrapers, total-----	⁶ 13	-----	-----	-----	-----	-----	-----	-----
Electric-----	10	-----	-----	-----	-----	-----	-----	-----
Gasoline or Diesel-----	3	-----	-----	-----	-----	-----	-----	-----
Dredge pumps, total-----	54	-----	-----	-----	-----	-----	-----	-----
Steam-----	15	-----	-----	-----	-----	-----	-----	-----
Electric-----	19	-----	-----	-----	-----	-----	-----	-----
Gasoline or Diesel-----	20	-----	-----	-----	-----	-----	-----	-----
Other, total-----	45	33	78	-----	-----	3	2	1
Steam-----	4	-----	-----	-----	-----	-----	-----	-----
Electric-----	7	2	2	-----	-----	-----	2	-----
Gasoline or Diesel-----	34	31	6	-----	-----	3	-----	1

¹For definition of the industry see table 45, footnote 1.

²Includes 202 scraper hoists with a rating of less than 10 horsepower, 354 with a rating of 10 to 25 horsepower, and 16 with a rating of 26 to 100 horsepower.

³Includes 40 self-loading conveyors, 28 pit-car loaders, and 7 mobile loading machines.

⁴Includes 154 shovels with a dipper capacity of less than 3 cubic yards; 12 with a capacity of 3 to 5 cubic yards; and 2 with a capacity of 6 to 12 cubic yards.

⁵Includes 156 dragline excavators with a bucket capacity of less than 3 cubic yards; 26 with a capacity of 3 to 5 cubic yards; and 8 with a capacity of 6 to 12 cubic yards.

⁶Includes 8 scraper hoists with a rating of less than 10 horsepower; 3 with a rating of 10 to 25 horsepower; and 2 with a rating of 26 to 100 horsepower.

⁷Includes 2 electrically driven conveyor lines and 3 bulldozers, 2 self-loading conveyors, and 1 clamshell operated by gasoline or Diesel engines.

PENNSYLVANIA ANTHRACITE

315

TABLE 55.—NUMBER OF MECHANICAL-POWER LOADING MACHINES AT PENNSYLVANIA ANTHRACITE OPERATIONS,
BY TYPE, BY KIND OF POWER, AND BY COUNTY: 1939¹—Continued
(For producing operations only)

TYPE OF MACHINE AND KIND OF POWER USED	OPERATIONS ENGAGED IN MINING AND PREPARING FRESH-MINED AND CULM-BANK COAL—Continued			DREDGE OPERATIONS				
	Colliery operations—Continued		Stripping contractors	Total	Berks, Northumberland, and Schuylkill	Carbon, Lehigh, and Northampton	Columbia and Luzerne	Dauphin and York
	Schuylkill, Dauphin, and Lebanon	Sullivan						
All types, total	163	1	302	87	51	4	9	23
Steam	2		3	20	9			11
Electric	90		45	57	27		2	8
Compressed air	58							
Gasoline or Diesel	15	1	254	50	15	4	7	4
Underground, total	145							
Electric	89							
Compressed air	58							
Scraper loaders, total	18							
Electric	18							
Compressed air								
Hand-loaded face conveyors (including shaker chutes), total	117							
Electric	61							
Compressed air	58							
Other, total	10							
Electric	10							
Compressed air								
Surface and dredge, total	18	1	302	87	51	4	9	23
Steam	2		3	20	9			11
Electric	1		45	57	27		2	8
Gasoline or Diesel	15	1	254	50	15	4	7	4
Power shovels, total	12	1	117	3	2			1
Steam	2		3	1				1
Electric	1		9					
Gasoline or Diesel	9	1	105	2	2			
Dragline excavators, total	4		160	5	2			3
Electric			56	3	2			1
Gasoline or Diesel	4		124	2				2
Surface scrapers, total				13	11		2	
Electric				10	8		2	
Gasoline or Diesel				3	3			
Dredge pumps, total				54	34	4	6	10
Steam				15	7			8
Electric				19	17			2
Gasoline or Diesel				20	10	4	6	
Other, total	2		25	12	2		1	9
Steam				4	2			2
Electric				5				5
Gasoline or Diesel	2		25	3			1	2

¹ For definition of the industry see table 45, footnote 1.

² Includes 12 bulldozers, 7 tractors, 4 cranes, 1 tractor-drawn scraper, and 1 belt loader.

³ Includes 3 clamshells and 1 conveyor line operated by steam; 5 electrically driven ladder dredges; and 2 conveyor lines and 1 clamshell driven by gasoline or Diesel engines.

MINERAL INDUSTRIES

TABLE 56.—SELECTED STATISTICS FOR INCORPORATED AND UNINCORPORATED CONCERNS IN THE PENNSYLVANIA ANTHRACITE INDUSTRY, 1939 AND 1929, AND BY TYPE OF OPERATION, 1939 ¹

(For producing operations only)

TYPE OF OWNERSHIP AND TYPE OF OPERATION	Number of compa- nies ²	Number of collieries, washeries, and dredges	Number of prepa- ration plants	Value of all products	NUMBER OF PERSONS ENGAGED					Wages	Salaries
					Total	Wage earners (average for the year)	Salaried employ- ees	Proprietors and firm members			
								Total	Performing manual labor		
Pennsylvania, total-----1939	346	363	192	\$189,647,913	88,520	82,822	5,411	287	159	\$107,445,669	\$12,122,606
-----1929	(³)	303	(³)	384,854,300	151,209	142,801	8,370	38	(³)	229,987,059	21,281,541
Incorporated-----1939	164	209	139	183,587,875	84,428	79,190	5,238	-----	-----	103,461,023	11,804,352
-----1929	(³)	246	(³)	373,371,684	(³)	139,033	(³)	(³)	(³)	(³)	(³)
Unincorporated-----1939	182	154	53	6,050,038	4,092	3,632	173	287	159	3,984,648	318,243
-----1929	(³)	57	(³)	11,482,616	(³)	3,768	(³)	(³)	(³)	(³)	(³)
Collieries and washeries, total-----	265	329	158	188,775,678	85,482	80,108	5,179	195	126	104,002,894	11,266,122
Incorporated-----	138	196	126	183,076,243	82,593	77,515	5,078	-----	-----	101,301,451	11,107,185
Unincorporated-----	127	133	32	5,699,435	2,889	2,593	101	195	126	2,701,443	158,937
Strip-pit and culm-bank contractors, total-----	58	(⁴)	(⁴)	(⁴)	2,702	2,461	185	56	21	3,165,923	748,821
Incorporated-----	21	(⁴)	(⁴)	(⁴)	1,868	1,540	128	-----	-----	2,000,085	604,811
Unincorporated-----	37	(⁴)	(⁴)	(⁴)	1,034	921	57	56	21	1,165,838	144,010
Dredge operations, total-----	25	34	34	872,235	336	253	47	36	12	276,852	107,511
Incorporated-----	5	13	13	521,632	187	155	32	-----	-----	159,487	92,269
Unincorporated-----	20	21	21	350,603	149	118	15	36	12	117,365	15,242

¹For definition of the industry see table 45, footnote 1.²Companies having more than one type of operation are counted separately by type of operation but only once for the State total.³Not available.⁴Statistics for strip-pit and culm-bank contractors are included with those for collieries and washeries.TABLE 57.—SELECTED STATISTICS FOR PENNSYLVANIA ANTHRACITE OPERATIONS, CLASSIFIED BY VALUE OF PRODUCTS: 1939 ¹

(For producing operations only)

STATE AND VALUE OF PRODUCTS	Number of mines	Number of prepa- ration plants	Value of all products	NUMBER OF PERSONS ENGAGED						Wages	Salaries
				Total	Wage earners (average for the year)	Salaried employees	Proprietors and firm members				
							Total	Performing manual labor			
Pennsylvania, total-----	507	192	\$189,647,913	88,520	82,822	5,411	287	159	\$107,445,669	\$12,122,606	
\$1 - \$19,999-----	70	23	681,050	533	424	24	85	60	343,577	21,000	
\$20,000 - \$49,999-----	36	15	1,094,986	583	492	31	40	22	511,086	34,781	
\$50,000 - \$99,999-----	25	6	1,717,695	1,013	955	31	27	17	1,019,882	38,523	
\$100,000 - \$249,999-----	21	3	3,228,989	1,505	1,431	67	7	2	1,680,715	134,833	
\$250,000 - \$499,999-----	15	5	5,561,349	2,380	2,279	100	1	1	3,164,476	197,783	
\$500,000 - \$999,999-----	8	2	5,519,507	2,753	2,601	152	0	0	3,391,209	347,893	
\$1,000,000 - \$2,499,999-----	17	6	27,622,531	14,475	13,944	531	0	0	18,935,495	1,131,171	
\$2,500,000 - \$4,999,999-----	10	8	31,912,244	15,049	14,547	502	0	0	19,659,099	1,060,399	
\$5,000,000 and over-----	0	0	0	0	0	0	0	0	0	0	
Unclassified-----	305	124	112,309,562	50,249	46,149	3,973	127	57	58,740,130	9,146,122	

¹For definition of the industry see table 45, footnote 1. Reports classified by value of products represent a single mine, or a single mine and preparation plant reported together. Statistics shown for "Unclassified" represent reports for more than one mine; reports for preparation plants serving more than one mine; reports for stripping contractors; and reports for central offices reported separately from their associated mines.

TABLE 58.—SELECTED STATISTICS FOR PENNSYLVANIA ANTHRACITE OPERATIONS, CLASSIFIED BY NUMBER OF WAGE EARNERS: 1939¹
(For producing operations only)

STATES AND NUMBER OF WAGE EARNERS	Number of mines	Number of prepa- ration plants	Value of all products	NUMBER OF PERSONS ENGAGED					Wages	Salaries
				Total	Wage earners (average for the year)	Salaried employees	Proprietors and firm members			
							Total	Performing manual labor		
Pennsylvania, total—	507	192	\$189,647,913	88,520	82,822	5,411	287	159	\$107,445,669	\$12,122,808
None—	1	1	361,030	172	112	16	44	30	118,038	14,995
1 - 5—	35	17	—	—	—	—	—	—	—	—
6 - 20—	65	22	1,684,998	843	734	37	72	46	710,251	33,790
21 - 50—	27	5	2,200,238	951	884	38	29	18	934,267	59,409
51 - 100—	14	2	2,424,886	1,072	1,027	43	2	2	1,299,894	89,775
101 - 250—	16	3	5,793,409	2,986	2,856	130	—	—	3,851,899	280,505
251 - 500—	8	2	5,965,275	3,024	2,885	139	—	—	3,779,532	315,448
501 - 1,000—	14	4	22,204,928	10,910	10,500	410	—	—	14,984,222	682,842
1,001 - 2,500—	12	9	36,044,456	18,115	17,512	603	—	—	22,850,050	1,312,124
Unclassified—	315	127	112,970,697	50,447	46,312	3,995	140	65	58,917,516	9,170,714

¹For definition of the industry see table 45, footnote 1. Reports classified by average number of wage earners employed during the year represent a single mine, or a single mine and preparation plant reported together. Statistics shown for "Unclassified" represent reports for more than one mine; reports for preparation plants serving more than one mine; reports for stripping contractors; and reports for central offices reported separately from their associated mines.

TABLE 59.—SELECTED STATISTICS FOR PENNSYLVANIA ANTHRACITE OPERATIONS, CLASSIFIED BY NUMBER OF HOURS
PER WAGE EARNER IN THE FULL-TIME WORKWEEK: 1939¹
(For producing operations only)

STATE AND HOURS PER WEEK	Number of mines	Number of prepara- tion plants	Value of all products	NUMBER OF PERSONS ENGAGED					Wages	Salaries
				Total	Wage earners (average for the year)	Salaried employees	Proprietors and firm members			
							Total	Performing manual labor		
Pennsylvania, total-----	507	192	\$189,647,913	88,520	82,822	5,411	287	159	\$107,445,669	\$12,122,808
1 - 34-----	8	3	1,924,080	1,125	1,046	74	5	3	1,278,676	144,131
35-----	277	90	134,679,771	59,626	56,957	2,555	114	62	77,272,231	5,624,583
36 - 39-----	4	2	879,520	358	339	19			434,104	30,276
40-----	12	9	2,302,390	1,101	1,043	49	9	3	1,252,619	85,943
41 - 42-----	66	42	43,922,690	21,040	20,136	870	34	13	23,648,781	1,918,551
43 - 44-----	3	3	265,889	53	45	4	4	2	80,551	7,745
45-----	1	2		13	10	1	2	2	11,161	600
49 - 53-----	4	4	48,243	25	19	2	4	2	24,253	300
54 - 59-----	8	8	324,989	125	102	8	15	5	132,580	23,986
60 and over-----	8	8	324,989	125	102	8	15	5	132,580	23,986
Unclassified-----	124	29	5,300,361	5,054	3,125	1,829	100	67	3,330,733	4,266,491

¹For definition of the industry see table 45, footnote 1. Reports were classified by number of hours in the full-time workweek reported for wage earners in that department of the operation for which the largest number of man-hours was reported. Statistics shown for "Unclassified" represent reports on which number of hours was not reported; reports on which no wage earners were reported; and reports for central offices reported separately from their associated mines.

TABLE 60.—SELECTED STATISTICS FOR PENNSYLVANIA ANTHRACITE OPERATIONS, CLASSIFIED BY
NUMBER OF DAYS ACTIVE DURING THE YEAR: 1939¹
(For producing operations only)

STATE AND NUMBER OF DAYS ACTIVE DURING YEAR	Number of mines	Number of preparation plants	Value of all products	NUMBER OF PERSONS ENGAGED					Wages	Salaries
				Total	Wage earners (average for the year)	Salaried employees	Proprietors and firm members			
							Total	Performing manual labor		
Pennsylvania, total—	507	192	\$189,647,913	88,520	82,822	5,411	287	159	\$107,445,669	\$12,122,808
1 - 49—	19	2	412,113	94	74	11	9	6	78,233	5,775
50 - 99—	24	6	1,850,007	690	633	41	18	9	708,245	80,601
100 - 149—	35	9	2,741,556	1,233	1,158	42	33	26	1,552,954	89,982
150 - 199—	64	21	28,781,704	15,776	15,180	549	47	25	17,957,751	1,182,612
200 - 224	39	12	39,906,146	18,517	17,803	693	21	12	25,638,715	1,460,784
225 - 249	13	4	2,528,889	1,112	1,055	50	7	6	1,427,792	85,854
250 - 274	12	4	2,623,252	1,083	1,027	46	10	7	1,375,496	72,812
275 - 299	4	4	565,053	117	103	7	7	3	118,946	11,801
300 - 324	5	5								
Unclassified—	294	125	110,242,213	49,898	45,789	3,972	137	65	58,387,537	9,101,885

¹For definition of the industry see table 45, footnote 1. Reports classified by number of days active during the year represent a single mine, or a single mine and preparation plant reported together. Statistics shown for "Unclassified" represent reports for more than one mine; reports for preparation plants serving more than one mine; reports for stripping contractors; and reports for central offices reported separately from their associated mines.

MINERAL INDUSTRIES

TABLE 61.—SELECTED STATISTICS FOR 140 PENNSYLVANIA ANTHRACITE UNDERGROUND MINES WITHOUT PREPARATION PLANTS, CLASSIFIED BY OUTPUT PER MAN-HOUR (IN TONS OF RAW COAL): 1939¹
(For producing operations only)

OUTPUT PER MAN-HOUR (tons of raw coal)	Number of mines	Raw coal produced (tons of 2,000 pounds)	Value of raw coal	NUMBER OF PERSONS ENGAGED					Wages	Salaries ²
				Total	Wage earners (average for the year)	Salaried em- ployees ²	Proprietors and firm members			
							Total	Per- forming manual labor		
Pennsylvania, total-----	140	15,527,513	\$35,348,280	15,722	14,862	748	112	78	\$24,028,791	\$1,522,482
Less than 0.20-----	4	9,470	24,674	40	34	-----	6	6	21,817	-----
0.20 - 0.29-----	10	183,576	620,061	515	478	31	6	3	515,197	51,030
0.30 - 0.39-----	16	688,051	1,596,897	1,163	1,107	44	12	9	1,324,599	86,378
0.40 - 0.49-----	21	1,645,711	3,947,260	2,512	2,402	89	21	15	2,875,467	162,310
0.50 - 0.59-----	27	6,194,998	14,266,024	7,828	7,497	325	6	4	10,279,147	670,978
0.60 - 0.69-----	13	1,887,988	4,326,194	1,903	1,820	72	11	9	2,686,163	150,420
0.70 - 0.79-----	16	3,658,352	7,794,480	462	323	128	11	8	4,766,823	277,957
0.80 - 0.89-----	8	621,922	1,285,875	587	551	32	4	-----	747,039	81,820
0.90 - 0.99-----	2	-----	-----	-----	-----	-----	-----	-----	-----	-----
1.00 - 1.09-----	1	483,474	1,025,082	344	319	20	5	2	477,225	35,515
1.10 and over-----	1	-----	-----	-----	-----	-----	-----	-----	-----	-----
Unclassified ² -----	23	175,971	461,733	368	331	7	30	22	335,314	5,774

¹For definition of the industry see table 45, footnote 1. Reports classified by output per man-hour represent a single underground mine, the coal from which was prepared at a breaker located elsewhere than at the mine. Statistics shown for "Unclassified" represent reports for which computations could not be made because data were inadequately reported.

²Exclusive of data for employees located at central administrative offices.

TABLE 62.—SELECTED STATISTICS FOR PENNSYLVANIA ANTHRACITE STRIPPING CONTRACTORS, CLASSIFIED BY RECEIPTS FOR SERVICES RENDERED: 1939¹

RECEIPTS FOR SERVICES RENDERED	Number of contracting concerns ²	Number of strip pits and culm banks at which work was performed	Receipts for services ³	NUMBER OF PERSONS ENGAGED					Wages	Salaries
				Total	Wage earners (average for the year)	Salaried employees	Proprietors and firm members			
							Total	Performing manual labor		
Total-----	58	168	\$10,936,024	2,702	2,461	185	56	21	\$3,165,923	\$748,925
\$1 - \$19,999-----	12	15	127,693	65	49	5	11	5	48,215	2,555
\$20,000 - \$49,999-----	9	13	257,795	116	100	7	9	5	96,644	10,646
\$50,000 - \$99,999-----	8	23	615,112	265	236	19	10	7	224,571	29,462
\$100,000 - \$249,999-----	12	32	2,066,732	392	358	26	8	1	532,714	126,900
\$250,000 - \$499,999-----	9	40	3,264,978	655	602	39	14	1	835,624	181,288
\$500,000 - \$999,999-----	6	37	4,414,828	1,151	1,064	87	-----	-----	1,383,943	395,994
Unclassified-----	3	8	188,886	58	52	2	4	2	44,212	2,100

¹For explanation of the term "Stripping Contractor" see table 45, footnote 1. Reports classified by receipts for services represent a single report of a contracting concern, irrespective of the number of strip pits or culm banks at which work was performed. Statistics for "Unclassified" represent operations for which data were inadequate.

²One contracting concern submitted separate reports for its strip-pit and culm-bank operations which fall in different class intervals. This concern is therefore counted twice in the class intervals but only once in the total.

³Includes some compensation for stripping at bituminous-coal mines and for general contract services such as trucking, filling air shafts, making fire-cuts, etc., for anthracite colliery and other companies.

TABLE 63.—SELECTED STATISTICS FOR PENNSYLVANIA ANTHRACITE STRIPPING CONTRACTORS, CLASSIFIED BY NUMBER OF WAGE EARNERS: 1939¹

NUMBER OF WAGE EARNERS	Number of contracting concerns	Number of strip pits and culm banks at which work was performed	Receipts for services.	NUMBER OF PERSONS ENGAGED					Wages	Salaries
				Total	Wage earners (average for the year)	Salaried employees	Proprietors and firm members			
							Total	Performing manual labor		
Total-----	58	168	\$10,936,024	2,702	2,461	185	56	21	\$3,165,923	\$748,925
1 - 5-----	11	14	133,464	46	30	7	9	7	31,950	3,555
6 - 20-----	18	35	1,127,414	269	227	19	23	11	282,040	37,808
21 - 50-----	14	42	2,425,937	532	490	35	7	-----	647,115	171,123
51 - 100-----	7	28	2,545,969	564	523	34	7	1	655,240	115,221
101 - 250-----	7	49	4,903,240	1,291	1,191	90	10	2	1,569,578	421,220
Unclassified-----	2									

¹See footnotes to table 62.

TABLE 64.—SELECTED STATISTICS FOR PENNSYLVANIA ANTHRACITE STRIPPING CONTRACTORS, CLASSIFIED BY NUMBER OF HOURS PER WAGE EARNER IN THE FULL-TIME WORK WEEK: 1939¹

HOURS PER WEEK	Number of contracting concerns	Number of strip pits and culm banks at which work was performed	Receipts for services	NUMBER OF PERSONS ENGAGED					Wages	Salaries
				Total	Wage earners (average for the year)	Salaried employees	Proprietors and firm members			
							Total	Performing manual labor		
Total-----	58	168	\$10,936,024	2,702	2,461	185	56	21	\$5,165,923	\$748,925
1 - 34-----	11	83	5,901,677	1,429	1,295	106	28	7	1,746,080	515,765
35-----	23		80,458	36	32	2	2	1	29,230	1,020
40-----	4	4								
41 - 42-----	17	57	4,293,804	1,001	924	66	11	1	1,161,457	214,968
49 - 53-----	1									
Unclassified-----	13	24	660,085	236	210	11	15	12	229,166	17,172

¹ See footnotes to table 62.TABLE 65.—SELECTED STATISTICS FOR PENNSYLVANIA ANTHRACITE STRIPPING CONTRACTORS, CLASSIFIED BY NUMBER OF DAYS ACTIVE DURING THE YEAR: 1939¹

NUMBER OF DAYS ACTIVE DURING YEAR	Number of contracting concerns	Number of strip pits and culm banks at which work was performed	Receipts for services	NUMBER OF PERSONS ENGAGED					Wages	Salaries
				Total	Wage earners (average for the year)	Salaried employees	Proprietors and firm members			
							Total	Performing manual labor		
Total-----	58	168	\$10,936,024	2,702	2,461	185	56	21	\$5,165,923	\$748,925
1 - 49-----	3	4	22,162	12	7	4	1	1	5,559	1,585
50 - 99-----	7	8	672,787	133	124	8	1	-----	135,340	26,074
100 - 149-----	6	10	213,425	163	143	13	7	3	107,258	24,868
150 - 199-----	8	19	699,225	202	184	7	11	5	224,695	7,358
200 - 224-----	4	16	1,153,613	270	236	30	4	1	274,251	54,488
225 - 249-----	5	12	1,488,129	336	291	37	8	-----	358,914	146,416
250 - 274-----	7	33	2,469,974	578	545	31	2	-----	768,006	221,729
275 - 299-----	11	40	3,294,561	765	705	45	15	5	1,028,503	248,695
300 - 324-----	2									
Unclassified-----	6	26	932,348	243	226	10	7	6	269,417	17,712

¹ See footnotes to table 62.TABLE 66.—PRINCIPAL STATISTICS FOR NONPRODUCING OPERATIONS IN THE PENNSYLVANIA ANTHRACITE INDUSTRY: 1939¹

Number of operating companies-----	5	Number of man-hours worked by wage earners, total-----	154,696
Number of mines-----	11	On active days-----	16,000
Number of breakers-----	5	Underground-----	11,200
Number of persons engaged, total-----	127	At breakers-----	4,800
Wage earners (average for the year)-----	68	On inactive days-----	138,696
Salaried employees-----	58	Average number of equivalent full days operations were active-----	200
Proprietors and firm members-----	1	Average number of hours worked per shift-----	7.1
Performing manual labor-----	1	Average hourly earning of wage earners-----	\$0.64
Principal expenses designated below, total-----	\$409,834	Horsepower rating of power equipment, total-----	51,898
Wages-----	\$38,504	Per wage earner-----	765.2
Salaries-----	\$106,536	Stationary equipment-----	48,057
Supplies and materials-----	\$40,023	Mobile equipment-----	3,841
Fuel-----	\$7,550	Fuels consumed: ²	
Purchased electric energy-----	\$134,933	Anthracite (tons of 2,000 pounds)-----	4,371
Contract work-----	\$20,688	Gasoline and kerosene (gallons)-----	516
Cost of buildings erected during year ³ -----	\$17,899	Electric energy consumed (thousands of kw.-hrs.) ⁴ -----	13,832

¹ Figures cover operations ordinarily engaged in the mining or mining and preparation of Pennsylvania anthracite but whose activities during 1939 were confined to development, construction, or maintenance work, for which designated principal expenses or cost of buildings, machinery, and equipment amounted to \$2,500 or more. For explanations of terms see appropriate footnotes to tables 45 and 47. The mines were distributed as follows: Luzerne County, 5; Northumberland County, 1; and Schuylkill County, 5.

² No machinery and equipment were reported installed during the year.

³ No bituminous coal, fuel oils, or natural gas were reported consumed.

⁴ Only purchased electric energy was reported.

MINERAL INDUSTRIES

TABLE 2.—SUMMARY FOR THE IRON-ORE INDUSTRY IN THE UNITED STATES, BY STATE: 1939, 1929, AND 1919¹

(For producing operations only)

STATE AND CENSUS YEAR	Number of mines	Production of iron ore (tons of 2,240 pounds)	Value of all products	NUMBER OF PERSONS ENGAGED				
				Total	Wage earners (average for the year)	Salaried employees	Proprietors and firm members	
							Total	Performing manual labor
United States-----1939	177	51,645,289	\$150,872,108	22,397	20,137	2,228	32	14
-----1929	208	73,983,485	197,334,548	30,998	28,516	2,473	9	(³)
-----1919	406	61,173,254	218,217,905	48,787	45,741	2,985	41	9
Minnesota-----1939	69	32,164,449	96,250,606	7,188	6,030	1,154	4	2
-----1929	85	46,815,208	125,353,950	11,132	10,078	1,054	-----	(³)
-----1919	141	36,258,483	128,377,174	17,422	16,236	1,184	2	-----
Michigan-----1939	39	9,167,385	29,455,893	6,220	5,735	484	1	-----
-----1929	57	15,238,409	43,194,938	9,407	8,894	513	-----	(³)
-----1919	100	15,410,494	60,906,692	17,169	16,160	1,007	2	-----
Alabama-----1939	32	5,956,402	10,024,197	5,074	4,820	239	15	9
-----1929	18	6,424,478	11,777,914	5,674	5,336	338	-----	(³)
-----1919	48	5,053,035	12,291,760	6,877	6,485	390	2	1
Other States-----1939 ⁴	37	4,357,053	15,141,412	3,915	3,552	351	12	5
-----1929 ⁵	48	5,485,390	17,027,766	4,494	4,208	277	9	(³)
-----1919 ⁶	117	4,451,242	16,642,279	7,299	6,860	404	35	8
STATE AND CENSUS YEAR	PRINCIPAL EXPENSES							Aggregate horsepower rating of power equipment
	Total	Wages	Salaries	Supplies and materials	Fuel	Purchased electric energy	Contract work	
United States-----1939	\$50,183,130	\$27,200,614	\$5,794,483	\$10,620,991	\$2,266,679	\$4,082,998	\$217,365	573,296
-----1929	77,310,534	40,905,190	6,351,482	18,561,157	5,332,103	4,607,488	1,553,134	488,821
-----1919	121,804,323	75,713,459	6,936,860	27,187,832	8,700,358	1,594,231	1,671,783	370,669
Minnesota-----1939	18,943,886	9,120,330	3,156,294	3,754,219	1,443,628	1,414,805	54,790	278,370
-----1929	32,781,970	16,038,428	2,507,297	8,568,830	2,661,024	1,532,550	1,473,841	184,042
-----1919	51,114,111	28,333,478	2,950,867	13,870,897	4,059,293	455,323	1,444,256	135,924
Michigan-----1939	14,213,527	7,999,096	1,214,410	3,267,636	325,592	1,326,720	80,073	133,996
-----1929	22,085,054	13,049,659	1,279,600	5,179,069	767,137	1,794,284	16,305	173,477
-----1919	45,674,929	32,186,404	2,381,225	7,845,035	2,669,228	769,457	23,580	142,559
Alabama-----1939	8,294,445	5,534,022	563,639	1,531,022	148,651	459,191	57,920	64,415
-----1929	9,217,673	5,637,402	653,235	2,212,803	361,145	350,609	2,479	61,442
-----1919	10,169,433	6,810,301	735,968	1,596,074	846,963	105,629	74,498	36,890
Other States-----1939 ⁴	8,731,292	4,547,166	860,140	2,068,114	348,808	882,482	24,582	96,515
-----1929 ⁵	12,012,659	6,179,701	699,152	2,600,455	1,542,797	930,045	60,509	79,860
-----1919 ⁶	14,645,650	8,363,279	868,600	3,875,826	1,124,874	263,822	129,449	55,486

¹ For definition of the industry see table 1, footnote 1.² Includes data for 291 employees paid \$1,213,178 in salaries at central administrative offices not classified by State.³ Not reported.⁴ California, Georgia, Missouri, New Jersey, New Mexico, New York, Pennsylvania, Tennessee, Texas, Utah, Virginia, Washington, Wisconsin, and Wyoming.⁵ Colorado, Georgia, Missouri, Montana, Nevada, New Jersey, New Mexico, New York, North Carolina, Pennsylvania, Tennessee, Utah, Washington, Wisconsin, and Wyoming.⁶ Arkansas, California, Connecticut, Georgia, Idaho, Maryland, Massachusetts, Missouri, Montana, New Mexico, New Jersey, New York, North Carolina, Pennsylvania, Tennessee, Texas, Utah, Virginia, Washington, Wisconsin, and Wyoming.

IRON ORE

323

TABLE 3.—PRINCIPAL STATISTICS FOR THE IRON-ORE INDUSTRY IN THE UNITED STATES, BY STATE: 1939¹

(For producing operations only)

ITEM	United States	Minnesota	Michigan	Alabama	Other States ²
Number of operating companies-----	100	29	22	23	32
Number of mines-----	177	89	39	32	37
Number of beneficiating plants-----	41	17	—	11	13
Production of merchantable iron ore: ³					
Tons of 2,240 pounds, total-----	51,645,269	32,184,449	9,167,385	5,956,402	4,357,033
From open pits-----	31,912,580	28,525,873	1,246,592	529,560	1,610,555
From underground mines-----	19,732,689	3,658,576	7,920,793	5,426,842	2,746,478
Value at mine-----	\$150,676,756	\$96,239,459	\$29,455,893	\$10,024,197	\$14,957,207
Average percent iron content of ore (natural)-----	51.01	52.17	51.54	37.08	60.32
Value of all products-----	\$150,872,108	\$96,250,606	\$29,455,893	\$10,024,197	\$15,141,412
Number of persons engaged, total-----	22,397	7,188	6,220	5,074	3,915
Wage earners (average for the year, including inactive periods)-----	20,137	6,030	5,735	4,820	3,552
Salaried employees-----	2,228	1,154	484	239	351
Proprietors and firm members-----	32	4	1	15	12
Performing manual labor-----	14	2	—	9	3
Principal expenses designated below, total-----	\$50,183,130	\$18,943,886	\$14,213,527	\$8,294,445	\$8,731,292
Wages-----	\$27,200,614	\$9,120,330	\$7,999,096	\$5,534,022	\$4,547,166
Salaries-----	\$5,794,483	\$3,156,294	\$1,214,410	\$563,639	\$860,140
Supplies and materials-----	\$10,620,991	\$3,754,219	\$3,267,636	\$1,531,022	\$2,068,114
Fuel-----	\$2,266,879	\$1,443,628	\$325,592	\$148,651	\$348,608
Purchased electric energy-----	\$4,082,998	\$1,414,605	\$1,326,720	\$459,191	\$982,482
Contract work-----	\$217,365	\$54,760	\$80,073	\$57,920	\$24,582
Cost of buildings, machinery, and equipment erected or installed during year-----	\$4,372,759	\$1,603,836	\$373,583	\$1,181,990	\$1,213,350
Buildings-----	\$770,123	\$351,911	\$33,321	\$119,441	\$265,450
Machinery and equipment-----	\$3,602,636	\$1,251,925	\$340,262	\$1,062,549	\$947,900
Purchased in new condition-----	\$3,409,617	\$1,121,913	\$300,737	\$1,060,349	\$926,618
Purchased in used condition-----	\$193,019	\$130,012	\$39,525	\$2,200	\$21,232
Number of man-shifts worked by wage earners, total-----	4,758,929	1,463,719	1,296,786	1,084,985	913,439
On active days-----	4,504,887	1,364,090	1,228,419	1,030,740	881,638
At open pit mines-----	1,202,330	835,067	36,846	138,139	192,778
At underground mines-----	3,302,557	529,023	1,192,073	892,601	688,860
On inactive days-----	254,042	99,629	68,367	54,245	31,801
At open-pit mines-----	100,474	84,944	7,845	5,070	2,615
At underground mines-----	153,568	14,685	60,522	49,175	29,186
Number of man-hours worked by wage earners, total-----	38,186,549	11,707,027	10,372,026	8,783,470	7,324,026
On active days-----	36,147,432	10,909,738	9,825,101	8,343,890	7,068,755
At open pit mines-----	9,727,656	6,677,536	289,971	1,203,055	1,557,094
At underground mines-----	26,419,826	4,232,200	9,535,130	7,140,835	5,511,661
On inactive days-----	2,039,067	797,291	546,925	439,580	255,271
At open pit mines-----	809,803	679,821	62,758	46,192	21,032
At underground mines-----	1,229,264	117,470	484,167	393,388	234,239
Average number of equivalent full days operations were active-----	217	194	217	221	258
Average number of hours worked per shift-----	8.0	8.0	8.0	8.1	8.0
Average hourly earning of wage earners-----	\$0.71	\$0.78	\$0.77	\$0.63	\$0.62
Tons of ore produced per man-hour, all mines ⁴ -----	1.35	2.75	0.88	0.68	0.59
Open-pit mines-----	3.03	3.88	3.55	0.42	1.02
Underground mines-----	0.71	0.84	0.79	0.72	0.48
Horsepower rating of power equipment, total-----	573,296	278,370	133,996	64,415	96,515
Per wage earner-----	28.5	46.2	23.4	13.4	27.2
Stationary equipment ⁷ -----	316,037	84,885	106,471	51,291	73,400
Mobile equipment ⁸ -----	257,259	193,485	27,525	13,124	23,115
Electric energy consumed (thousands of kilowatt hours), total-----	369,133	87,041	120,304	70,964	90,874
Purchased-----	346,123	86,830	97,463	70,956	90,874
Generated by reporting companies-----	23,060	211	22,841	8	—

¹ For definition of the industry see table 1, footnote 1.² California, 1 mine; Georgia, 4; Missouri, 6; New Jersey, 4; New Mexico, 1; New York, 4; Pennsylvania, 4; Tennessee, 2; Texas, 1; Utah, 2; Virginia, 2; Washington, 3; Wisconsin, 2; and Wyoming, 1.³ Of this number, 3 companies operated mines in 2 of the designated areas and 1 company operated mines in each of the 4 areas. Five companies were engaged in the production of both iron ore (ore containing less than 5 percent manganese) and manganese iron ore (ore containing 5 percent or more manganese, but which is valued chiefly for its iron content). In some cases a single mine was operated by more than one company during the year.⁴ Of this number, 3 mines were engaged in the production of both iron ore and manganese iron ore.⁵ Includes small quantities of crude ore stocked in 1939 and of concentrates produced in 1939 from ore stocked in previous years.⁶ Computed by dividing the total production of merchantable iron ore by the total number of man-hours worked by wage earners.⁷ Aggregate horsepower rating of engines, motors, etc., used for driving stationary or fixed equipment such as mine hoists, pumps, crushers, ventilating fans, compressors, etc.⁸ Aggregate horsepower rating of engines, motors, etc., used for driving mobile equipment such as power shovels, locomotives, tractors, churn drills, etc.

TABLE 4.—PRINCIPAL STATISTICS FOR THE IRON-ORE INDUSTRY IN THE UNITED STATES, BY TYPE OF OPERATION: 1939¹

ITEM	All operations	PRODUCING OPERATIONS							General contract services for the iron-ore industry	Nonproducing operations
		All types	Mines only			Mines and beneficiating plants operated together				
			Total ²	Underground mines ²	Open pits ²	Total ²	Underground mines ²	Open pits ²		
Number of operating companies ³	122	100	76	31	50	31	8	25	6	16
Number of mines	198	177	119.5	55	63.5	57.5	11.5	45	19	19
Number of beneficiating plants	44	41				41	10	31		3
Number of persons engaged, total	22,799	22,397	16,511	13,402	3,109	5,381	2,241	3,140	116	286
Wage earners (average for the year, including inactive periods)	20,475	20,137	15,193	12,647	2,546	4,944	2,099	2,875	98	240
Salaried employees	2,285	2,228	1,291	755	536	434	172	262	11	46
Proprietors and firm members	49	32	27		27	3		3	7	
Performing manual labor	16	14	13		13	1		1	2	
Production of merchantable iron ore:										
Tons of 2,240 pounds, total	51,845,269	51,645,269	40,351,814	18,224,338	22,127,476	11,293,455	1,508,351	9,785,104		
From underground mines	19,732,689	19,732,689	18,224,338	18,224,338		1,508,351	1,508,351			
From open pits	31,912,580	31,912,580	22,127,476		22,127,476	9,785,104		9,785,104		
Value at mines	\$150,678,756	\$150,678,756	\$116,095,390	\$50,958,544	\$65,156,816	\$34,581,396	\$7,558,503	\$27,222,893		
Value of all products	\$151,125,866	\$150,872,108	\$116,108,402	\$50,943,678	\$65,162,724	\$34,785,706	\$7,539,351	\$27,226,355	\$253,758	
Principal expenses designated below, total	\$51,016,732	\$50,185,130	\$36,176,289	\$28,390,330	\$7,785,959	\$12,429,628	\$5,162,163	\$7,267,465	\$209,035	\$624,517
Wages	\$27,659,013	\$27,200,614	\$20,864,354	\$17,329,993	\$3,534,361	\$6,336,260	\$2,699,088	\$3,637,192	\$127,733	\$230,666
Salaries	\$5,918,333	\$5,794,483	\$3,168,348	\$1,845,900	\$1,320,448	\$1,050,922	\$385,934	\$664,988	\$23,824	\$100,028
Supplies and materials	\$10,838,128	\$10,620,991	\$7,854,685	\$6,340,835	\$1,513,850	\$2,766,306	\$1,262,155	\$1,504,151	\$47,382	\$169,755
Fuel	\$2,288,776	\$2,266,679	\$1,322,312	\$456,060	\$866,252	\$944,367	\$253,188	\$691,179	\$5,354	\$13,743
Purchased electric energy	\$4,176,070	\$4,082,998	\$2,837,231	\$2,317,624	\$519,607	\$1,245,767	\$548,178	\$697,589	\$1,792	\$91,280
Contract work	\$236,412	\$217,365	\$131,359	\$89,818	\$31,441	\$68,006	\$13,540	\$72,366		\$19,047
Cost of buildings, machinery, and equipment erected or installed during year	\$4,570,744	\$4,372,759	\$2,254,944	\$1,718,011	\$536,933	\$2,117,815	\$638,959	\$1,278,856	\$27,200	\$170,785
Buildings	\$733,961	\$770,123	\$339,580	\$208,978	\$130,612	\$430,533	\$229,485	\$201,048	(e)	\$15,838
Machinery and equipment, total	\$3,759,583	\$3,602,636	\$1,915,354	\$1,509,033	\$406,321	\$1,687,282	\$609,474	\$1,077,808	(e)	\$156,947
Purchased in new condition	\$3,549,801	\$3,409,617	\$1,854,612	\$1,465,892	\$400,920	\$1,544,805	\$609,060	\$935,745	(e)	\$140,184
Purchased in used condition	\$209,782	\$193,019	\$50,542	\$45,141	\$5,401	\$142,477	\$414	\$142,063	(e)	\$16,783
Total number of man-shifts worked by wage earners	4,821,837	4,758,929	3,527,701	2,918,167	609,534	1,231,228	537,958	693,270	21,898	41,010
Total number of man-hours worked by wage earners	38,686,390	38,185,549	28,213,831	23,345,879	4,869,952	9,972,718	4,305,211	5,667,507	175,186	326,855
Average number of hours worked per shift	8.0	8.0	8.0	8.0	8.0	8.1	8.0	8.2	8.0	8.0
Average hourly earning of wage earners	\$0.71	\$0.71	\$0.74	\$0.74	\$0.73	\$0.64	\$0.63	\$0.64	\$0.73	\$0.71
Tons of merchantable iron ore produced per man-hour, all mines	1.35	1.35	1.43	0.78	4.54	1.13	0.35	1.73		
Average number of equivalent full days operations were active, all mines	216	217	217	225	185	215	243	197	184	88
Horsepower rating of power equipment, total	602,732	573,296	392,885	242,352	140,533	190,411	57,468	132,943	2,253	27,183
Per wage earner	29.4	29.5	25.2	19.2	55.2	38.5	27.8	46.2	23.0	113.3
Stationary equipment	335,753	316,037	217,225	190,301	26,924	98,812	48,448	50,364	147	19,569
Mobile equipment	266,979	257,259	165,660	52,051	113,609	91,599	9,020	82,579	2,106	7,614
Electric energy consumed (thousands of kw.-hrs.), total	375,290	369,183	255,532	226,157	29,375	113,651	59,691	53,960	(e)	6,107
Purchased	352,182	346,123	232,621	203,258	29,363	113,502	59,691	53,811	(e)	6,059
Generated by reporting companies	23,108	23,060	22,911	22,899	12	149		149	(e)	48

¹ For explanations regarding operations included and terms used see footnotes to tables 1, 3, 21, and the General Contract Services report table 1.² Statistics for mines using a combination of underground and strip-pit mining methods have been distributed; each such underground or open-pit operation is counted as half a mine.³ Companies with more than 1 type of operation are counted only once in the totals.⁴ Includes statistics for central-office employees reported separately from their associated mines and plants.⁵ Excludes statistics for general contract-service operations.⁶ Not available.

TABLE 5.—PRINCIPAL STATISTICS FOR THE IRON-ORE INDUSTRY IN THE UNITED STATES, BY MINING METHOD: 1939¹
(For producing operations only)

ITEM	UNDERGROUND MINES										Open-pit mines			
	Open-stopping methods					Caving methods					Open stopping and caving		Open-pit mines	
	Total	Room-and-pillar and sublevel stopping	Shrinkage stopping	Other	Total	Top slicing	Sublevel caving	Top slicing and sublevel caving	Total	Top slicing	Open stopping and caving	Open-pit mines		
Number of operating companies ²	100	37	21	3	5	17	9	2	8	74				
Number of mines, total ³	177	70	29	4	4	31	18	5	10	112				
Mines only.....	59	12	7	1	2	28	15	5	8	65				
Mines and beneficiating plants operated together.....	58	12	7	1	2	28	15	5	8	47				
Number of beneficiating plants.....	41	10	7	1	2	2	2	—	1	31				
Production of iron ore (tons of 2,000 pounds):														
Crude ore mined.....	59,668,596	21,113,356	8,397,753	815,326	7,997,941	5,100,350	2,032,284	865,307	3,035,961	58,555,240				
Crude ore treated.....	16,924,207	2,809,642	787,328	4,608,069	472,485	472,485	—	—	443,686	14,111,566				
Merchantable ore produced, total.....	51,645,268	19,732,689	8,923,199	399,345	7,969,579	5,071,988	2,032,284	865,307	2,834,911	51,912,580				
Beneficiated ore recovered.....	8,898,183	1,422,278	435,347	5,988,569	942,185	542,185	—	—	274,938	7,471,905				
Direct shipping ore.....	42,747,036	15,906,411	7,610,744	207,337	7,927,394	5,029,803	2,032,284	865,307	2,580,273	24,440,675				
Value of merchantable ore at mine.....	\$150,676,756	\$59,297,047	\$23,794,787	\$2,751,159	\$26,440,823	\$16,697,626	\$6,715,253	\$3,027,744	\$9,056,631	\$92,379,709				
Value per ton of ore.....	\$2.82	\$2.38	\$2.74	\$6.98	\$3.32	\$3.29	\$3.30	\$3.50	\$2.84	\$2.89				
Value of all products.....	\$150,672,108	\$59,483,029	\$23,960,574	\$2,931,933	\$26,445,757	\$16,702,760	\$6,715,253	\$3,027,744	\$9,056,696	\$92,389,079				
Average number of wage earners:														
On active days.....	20,700	14,490	7,507	6,228	5,203	3,239	1,481	483	1,780	8,290				
On the year.....	20,137	14,718	7,676	6,472	5,075	3,132	1,477	466	1,965	8,421				
Number of man-shifts worked, total.....	4,780,929	3,456,125	1,791,748	1,481,598	1,219,922	735,588	357,103	126,231	445,455	1,302,804				
On active days.....	4,504,897	3,302,557	1,697,007	1,403,995	1,177,604	708,914	346,160	122,550	427,946	1,202,350				
On inactive days.....	284,042	155,568	94,741	2,624	41,318	26,674	10,943	3,701	17,509	100,474				
Number of man-hours worked, total.....	38,186,549	27,649,090	14,335,823	11,862,788	9,751,936	5,885,269	2,856,825	1,009,842	3,561,631	10,537,459				
On active days.....	36,147,482	26,419,826	13,576,852	11,231,973	9,421,414	5,671,681	2,769,289	980,234	3,421,550	9,727,655				
On inactive days.....	2,039,067	1,229,264	758,971	22,810	330,522	213,578	87,536	23,608	140,071	809,803				
Average number of days active.....	217	259	225	222	226	219	234	254	240	191				
Tons of merchantable iron ore produced per man-hour.....	1.25	0.71	0.68	0.35	0.82	0.86	0.71	0.66	0.80	5.03				
Average hourly earning of wage earners.....	\$0.71	\$0.72	\$0.68	\$0.71	\$0.66	\$0.70	\$0.73	\$0.77	\$0.75	\$0.68				
Principal expenses designated below, total.....	\$450,185,130	\$33,552,493	\$18,097,690	\$1,582,525	\$12,809,953	\$7,998,823	\$3,414,209	\$1,396,921	\$4,644,960	\$15,053,424				
Per ton of merchantable iron ore produced:														
Wages.....	\$0.87	\$1.70	\$1.80	\$3.96	\$1.61	\$1.83	\$1.68	\$1.61	\$1.64	\$1.64				
Salaries.....	\$27,200,614	\$20,029,061	\$9,802,376	\$855,497	\$7,562,222	\$4,685,629	\$2,097,647	\$780,946	\$2,664,455	\$7,171,553				
Supplies and materials.....	\$45,794,483	\$2,231,854	\$1,075,682	\$126,154	\$796,365	\$561,589	\$263,786	\$127,990	\$553,787	\$1,965,456				
Power.....	\$10,680,991	\$7,602,990	\$3,460,105	\$391,468	\$3,036,350	\$2,046,788	\$963,285	\$366,276	\$1,106,535	\$3,018,001				
Purchased electric energy.....	\$2,666,679	\$709,248	\$375,864	\$14,876	\$103,272	\$91,968	\$121,736	\$76,144	\$45,536	\$1,357,021				
Contract work.....	\$4,082,998	\$1,358,187	\$1,025,055	\$184,700	\$1,052,689	\$775,703	\$321,491	\$25,465	\$434,266	\$1,717,196				
Cost of buildings, machinery, and equipment erected or installed during year.....	\$217,565	\$113,558	\$25,466	\$98	\$77,479	\$39,145	\$13,264	\$50,070	\$103,807	\$103,807				
Buildings.....	\$4,572,759	\$2,556,970	\$1,537,606	\$29,480	\$40,589	\$129,916	\$131,168	\$63,116	\$625,515	\$1,815,789				
Machinery and equipment, total.....	\$770,123	\$438,465	\$239,209	\$314	\$19,197	\$20,584	\$29,016	\$1,108	\$158,455	\$351,960				
Purchased in new condition.....	\$3,602,656	\$2,116,507	\$1,359,397	\$28,666	\$21,172	\$109,592	\$92,152	\$82,008	\$486,880	\$1,464,129				
Purchased in used condition.....	\$3,409,617	\$2,072,952	\$1,554,713	\$28,529	\$21,172	\$105,603	\$90,718	\$54,920	\$476,998	\$1,356,665				
Horsepower rating of power equipment.....	\$138,019	\$45,555	\$13,108	\$414	\$26,151	\$3,659	\$11,454	\$7,088	\$9,882	\$147,464				
Per wage earner.....	573,296	299,820	144,784	15,957	113,496	61,979	43,017	8,500	41,540	273,476				
Stationary.....	28.5	20.4	18.9	26.2	22.4	19.8	29.1	16.2	21.1	50.4				
Electric motors driven by purchased energy.....	316,037	236,749	117,330	14,725	89,827	43,832	37,895	8,100	31,592	77,288				
Mobile.....	38,474	32,093	118	14,725	31,155	490	22,565	9,100	820	6,361				
Prime movers.....	277,563	206,656	117,212	14,725	59,672	43,342	15,330	400	30,772	70,907				
Electric motors driven by purchased energy.....	189,142	12,770	5,331	942	5,839	4,349	1,090	400	1,400	156,372				
Fuels consumed:	86,117	46,301	20,210	290	17,630	13,798	4,032	—	6,548	39,816				
Anthracite (tons of 2,000 pounds).....	86,471	42,706	22,268	397	20,015	10,643	17,739	26	5,484	23,765				
Bituminous coal (tons of 2,000 pounds).....	298,940	101,317	54,091	1,625	41,742	17,739	17,739	13,560	5,484	195,023				
Gasoline (gallons).....	1,049,879	268,457	130,904	41,025	98,964	69,544	20,440	8,980	58,589	21,629				
Electric energy consumed (thousands of kw.-hrs.), total.....	369,183	285,948	151,103	17,628	15,481	53,227	27,164	16,926	37,580	83,335				
Generated by reporting companies.....	346,123	262,949	117,994	17,628	15,481	53,227	27,164	16,926	37,580	83,335				
Generated by other companies.....	23,060	22,999	117,994	17,628	22,999	7,878	7,878	14,951	161	161				

¹ For definition of the industry see table 1, footnote 1.

² Companies with more than one type of operation are counted only once in the totals.

³ Mines that had both underground and open-pit departments have been counted separately in each division but only once in the totals.

⁴ Includes small quantities of ore mined in previous years.

⁵ Includes some beneficiated ore recovered from crude ore mined previous to 1939.

⁶ Includes statistics for 503 central-office employees and 2 proprietors at these offices; these employees were paid \$1,577,213.

TABLE 6.—QUANTITY AND VALUE OF PRODUCTS OF THE IRON-ORE INDUSTRY IN THE UNITED STATES, BY KIND AND BY STATE: 1939¹

PRODUCT	United States	Minnesota	Michigan	Alabama	Other States
Value of all products-----	\$150,872,108	\$96,250,606	\$29,455,893	\$10,024,197	\$15,141,412
Production of iron and manganiferous iron ore, total:					
Prepared--					
Tons of 2,240 pounds-----	² 8,898,183	² 6,027,984	-----	484,912	2,385,287
Value-----	² \$28,850,853	² \$17,264,989	-----	\$1,123,305	\$10,262,555
Unprepared--					
Tons of 2,240 pounds-----	42,747,086	26,156,465	9,167,385	5,471,490	1,971,746
Value-----	\$122,025,903	\$78,974,470	\$29,455,893	\$8,900,892	\$4,694,648
Iron ore:					
Prepared--					
Tons of 2,240 pounds-----	² 8,523,873	² 5,653,674	-----	484,912	2,385,287
Value-----	² \$27,542,731	² \$16,156,867	-----	\$1,123,305	\$10,262,559
Unprepared--					
Tons of 2,240 pounds-----	42,359,852	25,787,862	9,165,474	5,471,490	1,935,026
Value-----	\$120,968,455	\$78,062,034	\$29,449,935	\$8,900,892	\$4,555,594
Manganiferous iron ore:					
Prepared--					
Tons of 2,240 pounds-----	374,310	374,310	-----	-----	-----
Value-----	\$1,108,122	\$1,108,122	-----	-----	-----
Unprepared--					
Tons of 2,240 pounds-----	387,234	348,603	1,911	-----	36,720
Value-----	\$1,057,448	\$912,436	\$5,958	-----	\$139,054
Production of crushed limestone:					
Tons of 2,000 pounds-----	1,568	-----	-----	-----	1,568
Value-----	\$3,058	-----	-----	-----	\$3,058
Production of crushed granite:					
Tons of 2,000 pounds-----	155,963	-----	-----	-----	155,963
Value-----	\$142,332	-----	-----	-----	\$142,332
Production of sand and gravel:					
Tons of 2,000 pounds-----	58,007	-----	-----	-----	58,007
Value-----	\$38,449	-----	-----	-----	\$38,449
Electric energy sold:					
Thousands of kilowatt-hours-----	-----	-----	-----	-----	-----
Value-----	-----	-----	-----	-----	-----
Receipts for services performed for others-----	\$11,513	\$11,147	-----	-----	\$568

¹ For definition of the industry see table 1, footnote 1.² Includes 623 tons of iron ore produced at a manganiferous iron-ore operation.TABLE 7.—QUANTITY AND VALUE OF IRON ORE PRODUCED IN THE UNITED STATES, BY KIND OF ORE AND BY STATE: 1939¹

ITEM	United States	Minnesota	Michigan	Alabama	OTHER STATES			
					Total	Southeastern States ²	Northeastern States ³	Western States ⁴
Merchantable iron ore produced (tons of 2,240 pounds), total-----	51,845,269	32,164,449	9,167,385	5,956,402	4,357,033	64,298	2,355,018	1,937,717
Hematite ⁵ -----	48,066,980	32,164,449	8,819,815	5,432,782	1,649,934	13,259	7,600	1,629,075
Brown ⁶ -----	968,794	-----	347,570	525,620	95,604	51,039	-----	44,565
Magnetite-----	2,611,495	-----	-----	-----	2,611,495	-----	2,347,418	264,077
Value of all products, total-----	\$150,872,108	\$96,250,606	\$29,455,893	\$10,024,197	\$15,141,412	\$178,662	\$10,376,448	\$4,586,302
Hematite ⁵ -----	\$137,322,013	\$96,250,606	\$28,406,793	\$8,809,597	\$3,855,017	\$50,754	\$50,040	\$3,754,223
Brown ore ⁶ -----	\$2,483,527	-----	\$1,049,100	\$1,214,600	\$219,827	\$127,908	-----	\$91,819
Magnetite-----	\$11,066,568	-----	-----	-----	\$11,066,568	-----	\$10,326,408	\$740,160

¹ For definition of the industry see table 1, footnote 1.² Georgia, Tennessee, and Virginia.³ New Jersey, New York, and Pennsylvania.⁴ California, Missouri, New Mexico, Texas, Utah, Washington, Wisconsin, and Wyoming.⁵ Includes all grades of hematite produced in Minnesota, Michigan, and Wisconsin, red hematite produced elsewhere, and the manganiferous iron ores.⁶ Some yellow limonite and ochre is included with brown ore.

TABLE 8.—NUMBER OF WAGE EARNERS IN THE IRON-ORE INDUSTRY IN THE UNITED STATES BY STATE, BY TYPE OF OPERATION, AND BY MONTH: 1939¹
(For producing operations only)

STATE AND TYPE OF OPERATION	Average for the 12 months	NUMBER RECEIVING PAY DURING PAY-ROLL PERIOD ENDING NEAREST THE 15TH OF THE MONTH											
		January	February	March	April	May	June	July	August	September	October	November	December
United States, total	20,137	17,768	18,128	18,269	19,149	20,185	20,618	20,067	21,060	21,294	22,214	21,865	21,007
STATE													
Minnesota	6,030	4,538	4,696	4,854	5,457	6,355	6,563	6,301	6,783	6,781	7,273	6,795	5,972
Michigan	5,735	5,425	5,531	5,485	5,648	5,719	5,789	5,574	5,879	5,908	6,014	5,974	5,891
Alabama	4,820	4,531	4,640	4,653	4,762	4,764	4,885	4,769	4,781	4,878	4,989	5,069	5,100
Other States	3,552	3,276	3,261	3,277	3,282	3,347	3,401	3,453	3,617	3,727	3,958	3,997	4,044
TYPE OF OPERATION													
Mines only, total	15,193	14,061	14,445	14,429	14,765	15,151	15,472	14,880	15,587	15,597	16,274	16,114	15,539
Underground mines	12,647	12,290	12,698	12,640	12,696	12,673	12,787	12,075	12,641	12,441	12,868	12,941	13,062
Open pits	2,546	1,771	1,747	1,789	2,069	2,478	2,755	2,805	2,946	3,156	3,406	3,173	2,477
Mines and preparation plants operated together	4,936	3,707	3,683	3,839	4,375	5,023	5,135	5,186	5,462	5,681	5,924	5,737	5,468
Underground mines	2,069	1,917	1,879	1,845	1,790	1,829	1,934	1,933	2,063	2,224	2,387	2,457	2,558
Open pits	2,867	1,790	1,804	1,994	2,585	3,194	3,201	3,253	3,399	3,457	3,537	3,270	2,910
Preparation plant only	8	—	—	1	9	11	11	11	11	16	16	14	—

¹ For definition of the industry see table 1, footnote 1.

TABLE 9.—EMPLOYMENT AND WORKING TIME IN THE IRON-ORE INDUSTRY IN THE UNITED STATES, BY STATE AND BY TYPE OF OPERATION: 1939¹
(For producing operations only)

DEPARTMENT	United States	STATE				TYPE OF OPERATION					
		Minnesota	Michigan	Alabama	Other States	Mines only			Mines and beneficiating plants operated together		
						Total	Underground mines	Open pits	Total	Underground mines	Open pits
Average number of wage earners on active days, total	20,780	7,024	5,656	4,655	3,445	15,422	12,375	3,049	5,358	2,117	3,241
At mines, total	19,195	6,273	5,656	4,437	2,829	15,349	12,375	2,976	5,846	1,642	2,204
Underground	10,998	1,909	4,016	3,383	1,690	9,778	9,738	40	1,220	1,220	—
Open-pit	3,913	2,788	188	451	506	2,172	—	2,172	1,741	—	1,741
Surface shops and yards	4,284	1,576	1,452	623	633	3,599	2,635	764	885	422	463
At beneficiating plants	1,585	751	—	218	616	73	—	73	1,512	475	1,037
Average number of equivalent full days operations were active	217	194	217	221	256	217	225	185	215	243	197
At mines	219	202	217	222	255	218	225	186	225	245	209
Underground	225	219	221	218	253	222	223	137	243	243	—
Open-pit	191	182	113	205	259	176	—	178	206	—	208
Surface shops and yards	230	218	221	259	254	230	235	211	233	253	214
At beneficiating plants	190	127	—	203	261	144	—	144	192	237	171
Number of man-shifts worked by wage earners, total	4,758,929	1,465,719	1,296,786	1,084,985	913,439	3,527,701	2,918,167	609,534	1,231,228	537,958	693,270
On active days, total	4,504,887	1,364,090	1,228,419	1,030,740	881,638	3,351,125	2,787,278	563,847	1,153,762	515,279	638,483
At mines, total	4,204,213	1,268,662	1,228,419	986,520	720,612	3,340,642	2,787,278	553,364	863,571	402,907	460,664
Underground	2,469,622	418,699	885,846	736,783	428,294	2,173,330	2,167,848	5,482	296,292	296,292	—
Open-pit	748,066	507,119	21,287	88,376	131,284	386,612	—	386,612	361,454	—	361,454
Surface shops and yards	986,525	342,844	321,286	161,361	161,034	780,700	619,430	161,270	205,825	106,615	99,210
At beneficiating plants	300,674	95,428	—	44,220	161,026	10,483	—	10,483	290,191	112,372	177,819
On inactive days	254,042	99,629	68,567	54,245	31,801	176,576	130,899	45,687	77,466	22,679	54,787
Number of man-hours worked by wage earners, total	38,186,549	11,707,027	10,372,026	8,785,470	7,324,026	28,213,831	23,343,879	4,869,952	9,972,718	4,305,211	5,667,507
On active days, total	36,147,482	10,909,756	9,825,101	8,343,890	7,058,755	26,801,278	22,296,799	4,504,479	9,346,204	4,123,027	5,223,177
At mines, total	33,693,869	10,146,813	9,825,101	7,953,352	5,769,125	26,718,563	22,296,799	4,421,764	8,975,306	3,221,244	3,754,062
Underground	19,758,538	3,349,602	7,085,077	5,894,282	3,429,377	17,384,967	17,341,110	43,857	2,373,371	2,373,371	—
Open-pit	6,045,072	4,053,955	169,549	765,108	1,054,360	3,067,651	—	3,067,651	2,955,421	—	2,955,421
Surface shops and yards	7,892,459	2,742,756	2,570,375	1,295,942	1,285,586	6,245,945	4,955,689	1,290,256	1,646,514	847,873	798,641
At beneficiating plants	2,453,613	763,423	—	390,558	1,299,632	82,715	—	82,715	2,370,898	901,783	1,469,115
On inactive days	2,039,067	797,291	546,925	439,580	255,271	1,412,553	1,047,080	365,473	626,514	182,184	444,330

¹ For definition of the industry see table 1, footnote 1.

² Represents number of man-shifts worked on active days in the department divided by average number of wage earners on active days in the department.

MINERAL INDUSTRIES

TABLE 10.—NUMBER OF OPERATIONS IN THE IRON-ORE INDUSTRY IN THE UNITED STATES WORKING ONE, TWO, OR THREE SHIFTS, AND NUMBER OF MAN-SHIFTS WORKED BY SHIFT AND BY STATE: 1939¹
(For producing operations only)

SHIFT	UNITED STATES		Minnesota	Michigan	Alabama	Other States
	Number	Percent of total				
Number of mines, total-----	177	100.0	69	39	32	37
Working 1 shift per day-----	69	39.0	11	7	23	28
Working 2 shifts per day-----	60	33.9	32	22	5	1
Working 3 shifts per day-----	48	27.1	26	10	4	8
Number of beneficiating plants, total-----	41	100.0	17	-----	11	13
Working 1 shift per day-----	21	51.2	5	-----	8	8
Working 2 shifts per day-----	10	24.4	5	-----	3	2
Working 3 shifts per day-----	10	24.4	7	-----	-----	3
Number of man-shifts worked by wage earners on active days, total-----	4,504,887	100.0	1,364,090	1,228,419	1,030,740	881,638
During first shift-----	3,164,870	70.3	969,036	833,129	693,178	669,529
During second shift-----	1,212,363	26.9	351,561	370,877	530,685	159,280
During third shift-----	127,654	2.8	43,493	24,413	6,899	52,849
At mines (including surface shops and yards), total-----	4,204,213	100.0	1,268,682	1,228,419	986,520	720,612
During first shift-----	2,981,775	70.9	910,904	833,129	651,363	586,379
During second shift-----	1,138,579	27.1	326,985	370,877	528,258	112,459
During third shift-----	83,859	2.0	30,773	24,413	6,899	21,774
At underground mines, total-----	3,190,185	100.0	528,280	1,192,073	692,601	577,251
During first shift-----	2,149,851	67.4	332,090	800,140	583,538	454,083
During second shift-----	987,635	31.0	196,170	387,907	322,164	101,394
During third shift-----	52,699	1.6	-----	24,026	6,899	21,774
At open pits, total-----	1,014,028	100.0	740,402	36,346	93,919	143,361
During first shift-----	831,924	82.0	578,814	32,989	87,825	132,296
During second shift-----	150,944	14.9	180,815	2,970	6,094	11,085
During third shift-----	31,160	3.1	30,773	387	-----	-----
At beneficiating plants, total-----	300,674	100.0	95,428	-----	44,220	161,028
During first shift-----	183,095	60.9	58,132	-----	41,813	83,150
During second shift-----	73,784	24.5	24,576	-----	2,407	46,801
During third shift-----	43,795	14.6	12,720	-----	-----	31,075

¹ For definition of the industry see table 1, footnote 1.

TABLE 11.—QUANTITY OF FUEL AND ELECTRIC ENERGY CONSUMED IN THE IRON-ORE INDUSTRY IN THE UNITED STATES BY KIND, 1939, 1929, 1919, AND BY STATE AND TYPE OF OPERATION, 1939¹
(For producing operations only)

STATE AND TYPE OF OPERATION		FUEL ²				ELECTRIC ENERGY (thousands of kilowatt-hours)		
		Anthracite (tons of 2,000 pounds)	Bituminous coal (tons of 2,000 pounds)	Fuel oils (barrels of 42 gallons)	Gasoline and kerosene (gallons)	Total	Purchased	Generated by reporting companies
United States, total-----	1939--	66,471	296,340	42,499	1,049,579	369,183	346,123	23,060
	1929--	58,742	804,815	54,768	506,898	475,371	375,636	99,735
	1919--	78,123	1,499,812	3,807	149,100	(³)	(³)	(³)
STATE: 1939								
Minnesota-----		23,765	172,585	21,929	610,521	87,041	86,830	211
Michigan-----		26	49,566	2,390	112,047	120,304	97,463	22,841
Alabama-----		-----	52,468	4,713	144,806	70,964	70,956	8
Other States-----		42,680	21,721	13,467	182,205	90,874	90,874	-----
TYPE OF OPERATION: 1939								
Mines only, total-----		254	212,962	18,688	552,360	255,532	232,621	22,911
Underground mines-----		28	95,011	9,395	186,365	226,157	203,268	22,899
Open pits-----		226	117,951	9,293	365,995	29,375	29,363	12
Mines and preparation plants operated together, total-----		66,217	63,378	23,811	497,219	113,651	113,502	149
Underground mines-----		42,678	6,306	11,475	82,092	59,691	59,691	-----
Open pits-----		23,539	77,072	12,336	415,127	53,960	53,811	149

¹ For definition of the industry see table 1, footnote 1.

² No natural gas was reported consumed.

³ Not available.

TABLE 12.—NUMBER AND HORSEPOWER RATING OF PRIME MOVERS AND ELECTRIC MOTORS IN THE IRON-ORE INDUSTRY IN THE UNITED STATES, 1939, 1929, AND 1919, AND BY STATE AND TYPE OF OPERATION, 1939¹

(For producing operations only)

STATE, TYPE OF OPERATION, AND TYPE OF EQUIPMENT	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY										ELECTRIC MOTORS DRIVEN BY ENERGY GENERATED BY REPORTING COMPANIES		
	Aggregate horse- power	Prime movers								Electric motors driven by purchased energy			
		Total		Driving generators		Not driving generators		Ordinarily idle (included in preceding columns)					
		Number	Horse- power	Number	Horse- power	Number	Horse- power	Number	Horse- power	Number	Horse- power	Number	Horse- power
United States, total-----1939-	573,296	909	207,616	18	30,675	893	178,941	51	19,945	7,988	365,680	544	21,889
1929-	498,821	937	222,154	(²)	(²)	(²)	(²)	(²)	23,593	5,266	276,667	690	40,688
1919-	370,869	2,425	273,477	(²)	(²)	(²)	(²)	(²)	23,593	1,341	97,392	1,112	67,595
Stationary-----1939-	316,037	79	38,474	14	30,480	65	7,994	21	10,644	4,920	277,563	230	16,179
1929-	353,009	320	124,672	(²)	(²)	(²)	(²)	(²)	10,605	3,662	228,337	429	34,558
Mobile-----1939-	257,259	830	169,142	2	195	828	168,947	30	9,301	3,068	88,117	314	5,890
1929-	145,812	617	97,482	(²)	(²)	(²)	(²)	(²)	12,988	1,604	48,330	261	6,330
STATE: 1939													
Minnesota, total-----	278,370	577	152,795	5	4,105	572	148,690	42	13,371	3,658	125,575	33	600
Stationary-----	84,885	45	6,860	5	4,105	40	2,755	17	4,437	2,370	78,025	25	200
Mobile-----	193,485	532	145,935	---	---	532	145,935	25	8,934	1,288	47,550	8	400
Michigan, total-----	133,996	122	38,263	10	26,485	112	11,778	7	6,424	2,242	95,733	511	21,269
Stationary-----	108,471	21	30,945	9	26,375	12	4,570	4	6,207	927	75,526	205	15,979
Mobile-----	27,525	101	7,318	1	110	100	7,208	3	217	1,315	20,207	306	5,290
Alabama, total-----	64,415	75	4,798	1	85	74	4,713	1	30	625	59,617	---	---
Stationary-----	51,281	5	159	---	---	5	159	---	---	564	51,122	---	---
Mobile-----	13,134	70	4,639	1	85	69	4,554	1	30	61	8,495	---	---
Other States, total-----	96,515	135	11,760	---	---	135	11,760	1	120	1,463	84,755	---	---
Stationary-----	75,400	8	510	---	---	8	510	---	---	1,059	72,890	---	---
Mobile-----	23,115	127	11,250	---	---	127	11,250	1	120	404	11,865	---	---
TYPE OF OPERATION: 1939													
Mines only, total-----	382,885	563	138,854	12	26,705	551	112,148	44	15,825	5,482	244,031	536	21,469
Stationary-----	217,225	57	33,591	11	26,595	46	6,996	16	6,874	2,756	183,634	230	16,179
Mobile-----	165,660	506	105,263	1	110	505	105,153	28	9,151	2,726	60,327	306	5,280
Underground mines, total-----	242,352	148	40,541	10	26,525	138	14,016	10	6,539	4,237	201,811	533	21,324
Stationary-----	190,301	35	32,093	10	26,525	25	5,588	7	6,322	1,995	159,208	230	16,179
Mobile-----	52,051	113	8,448	---	---	113	8,448	3	217	2,242	43,603	303	5,145
Open pits, total-----	140,533	415	98,313	2	180	413	98,133	34	9,286	1,245	42,220	3	145
Stationary-----	26,924	22	1,498	1	70	21	1,428	9	352	761	25,426	---	---
Mobile-----	113,609	393	96,815	1	110	392	96,705	25	8,934	484	16,794	3	145
Mines and beneficiating plants operated together, total-----	190,411	546	68,762	4	3,970	342	64,792	7	4,120	2,506	121,649	8	400
Stationary-----	98,812	22	4,883	3	3,885	19	998	5	3,970	2,164	93,929	---	---
Mobile-----	91,599	324	63,879	1	85	323	63,794	2	150	342	27,720	8	400
Underground mines, total-----	57,468	75	4,322	---	---	75	4,322	---	---	918	53,146	---	---
Stationary-----	48,448	---	---	---	---	---	---	---	---	789	48,448	---	---
Mobile-----	9,020	75	4,322	---	---	75	4,322	---	---	129	4,698	---	---
Open pits, total-----	132,943	271	64,440	4	3,970	267	60,470	7	4,120	1,588	68,503	8	400
Stationary-----	50,364	22	4,883	3	3,885	19	998	5	3,970	1,375	45,481	---	---
Mobile-----	82,579	249	59,557	1	85	248	59,472	2	150	213	23,022	8	400

¹ For definition of the industry see table 1, footnote 1; for explanation of terms "Stationary" and "Mobile" see table 3, footnotes 7 and 8.² Not Available.

TABLE 13.—NUMBER OF POWER-LOADING MACHINES IN THE IRON-ORE INDUSTRY IN THE UNITED STATES, BY TYPE, KIND OF POWER USED, SIZE, AND STATE: 1939¹
(For producing operations only)

TYPE OF MACHINE, KIND OF POWER USED, AND SIZE	United States	Minnesota	Michigan	Alabama	Other States
Surface loading equipment:					
Power shovels, total	275	162	66	21	24
Kind of power used:					
Steam	146	65	55	14	12
Electric	94	80	8	—	6
Internal-combustion engines	33	17	3	7	6
Dipper capacity (cubic yards):					
Less than 3	131	59	35	21	16
3 to 5	129	92	30	—	7
More than 5	13	11	1	—	1
Dragline excavators total	13	10	—	3	—
Kind of power used:					
Steam	1	1	—	—	—
Electric	8	7	—	1	—
Internal-combustion engines	4	2	—	2	—
Bucket capacity (cubic yards):					
Less than 3	10	7	—	5	—
3 to 5	3	3	—	—	—
Scraper loaders, total	36	29	3	2	2
Kind of power used:					
Electric	6	1	3	—	2
Compressed air	27	27	—	—	—
Internal-combustion engines	3	1	—	2	—
Horsepower rating of hoists:					
Less than 10	17	16	1	—	—
10 to 25	13	11	1	—	1
26 to 100	5	2	—	2	1
More than 100	1	—	1	—	—
Cranes and hoists, total	13	10	—	—	3
Kind of power used:					
Steam	7	7	—	—	—
Internal-combustion engines	6	3	—	—	3
Underground loading equipment:					
Shovel loaders, total	16	1	2	1	12
Kind of power used:					
Electric	5	1	1	—	3
Compressed air	11	—	1	1	9
Requiring minimum working height of 8 feet or less, total	14	1	1	—	12
Kind of power used:					
Electric	5	1	1	—	3
Compressed air	9	—	—	—	9
Requiring minimum working height of more than 8 feet ²	2	—	1	1	—
Scraper loaders (including slushers), total	1,833	593	928	127	185
Kind of power used:					
Electric	1,723	555	858	127	183
Compressed air	110	38	70	—	2
Horsepower rating of hoists:					
Less than 10	235	113	119	—	3
10 to 25	1,338	427	789	11	111
26 to 100	260	53	20	116	71
Timber hoists, total	88	—	88	—	—
Kind of power used:					
Electric	2	—	2	—	—
Compressed air	86	—	86	—	—

¹ For definition of the industry see table 1, footnote 1.

² Both units were operated by compressed air.

TABLE 14.—SELECTED STATISTICS FOR INCORPORATED AND UNINCORPORATED CONCERNS IN THE IRON-ORE INDUSTRY IN THE UNITED STATES, BY STATE: 1939¹

(For producing operations only)

STATE AND TYPE	Number of operating companies	Number of mines	Number of benefi- ciating plants	Value of all products	NUMBER OF PERSONS ENGAGED					Wages	Salaries
					Total	Wage earners (average for the year)	Salaried em- ployees	Proprietors and firm members			
								Total	Performing manual labor		
United States, total-----	² 100	177	41	\$150,872,108	22,397	20,137	2,228	32	14	\$27,200,614	\$5,794,483
Incorporated-----	² 76	145	36	149,914,778	21,925	19,709	2,216	-----	-----	26,937,222	5,779,210
Unincorporated-----	24	32	5	957,330	472	428	12	32	14	263,392	15,273
Minnesota, total-----	29	69	17	96,250,606	7,188	6,030	1,154	4	2	9,120,330	3,156,294
Incorporated-----	26	66	17	95,980,822	7,132	5,983	1,149	-----	-----	9,080,570	3,147,616
Unincorporated-----	3	3	-----	269,784	56	47	5	4	2	39,760	8,678
Michigan, total-----	22	39	-----	29,455,893	6,220	5,735	484	1	-----	7,999,096	1,214,410
Incorporated-----	21	38	-----	29,398,930	6,209	5,725	484	-----	-----	7,991,161	1,214,410
Unincorporated-----	1	1	-----	56,963	11	10	-----	1	-----	7,935	-----
Alabama, total-----	23	32	11	10,024,197	5,074	4,820	239	15	9	5,534,022	563,639
Incorporated-----	10	15	8	9,849,819	4,834	4,597	237	-----	-----	5,405,091	561,419
Unincorporated-----	13	17	3	374,378	240	223	2	15	9	128,931	2,220
Other States, total-----	32	37	13	15,141,412	3,915	3,552	351	12	3	4,547,166	860,140
Incorporated-----	25	26	11	14,885,207	3,750	3,404	345	-----	-----	4,460,400	855,765
Unincorporated-----	7	11	2	256,205	165	148	5	12	3	86,766	4,375

¹ For definition of the industry see table 1, footnote 1.

² Companies with operations in more than one State are counted only once in the total.

TABLE 15.—SELECTED STATISTICS FOR IRON-ORE OPERATIONS IN THE UNITED STATES, CLASSIFIED BY VALUE OF PRODUCTS AND BY STATE: 1939¹
(For producing operations only)

STATE AND VALUE OF PRODUCTS	Number of mines	Number of beneficiating plants	Value of all products	NUMBER OF PERSONS ENGAGED					Wages	Salaries
				Total	Wage earners (average for the year)	Salaried employees	Proprietors and firm members			
							Total	Performing manual labor		
United States, total-----	177	41	\$150,872,108	22,397	20,137	2,228	32	14	\$27,200,614	\$5,794,483
\$1 - \$19,999-----	29	4	247,784	198	171	7	18	11	111,757	7,344
\$20,000 - \$49,999-----	16	8	539,297	315	286	24	5	3	204,333	35,224
\$50,000 - \$99,999-----	6	5	428,813	161	150	10	1	-----	102,614	15,422
\$100,000 - \$249,999-----	16	5	2,850,112	827	758	66	3	-----	763,801	161,348
\$250,000 - \$499,999-----	11	2	3,970,016	834	775	59	-----	-----	1,021,909	158,834
\$500,000 - \$999,999-----	20	4	14,667,571	2,838	2,608	230	-----	-----	3,620,626	581,722
\$1,000,000 - \$2,499,999-----	31	3	50,617,626	11,803	11,112	691	-----	-----	14,900,350	1,673,477
\$2,500,000 - \$4,999,999-----	5	4	42,685,852	2,067	1,800	267	-----	-----	2,610,687	700,950
\$5,000,000 and over-----	2	-----	-----	-----	-----	-----	-----	-----	-----	-----
Unclassified-----	41	6	34,865,037	3,358	2,477	874	5	-----	3,864,337	2,450,162
Minnesota, total-----	69	17	96,250,606	7,188	6,030	1,154	4	2	9,120,330	3,156,294
\$1 - \$19,999-----	1	-----	-----	-----	-----	-----	-----	-----	-----	-----
\$20,000 - \$49,999-----	4	1	344,828	122	101	18	3	2	98,346	27,187
\$50,000 - \$99,999-----	2	2	-----	-----	-----	-----	-----	-----	-----	-----
\$100,000 - \$249,999-----	5	1	933,369	172	139	32	1	-----	161,298	81,020
\$250,000 - \$499,999-----	5	1	1,883,554	307	271	36	-----	-----	359,795	90,505
\$500,000 - \$999,999-----	8	3	6,373,724	776	685	91	-----	-----	964,827	242,298
\$1,000,000 - \$2,499,999-----	9	-----	14,939,697	1,715	1,609	106	-----	-----	2,562,338	252,728
\$2,500,000 - \$4,999,999-----	4	3	39,616,069	1,618	1,376	242	-----	-----	2,081,675	609,180
\$5,000,000 and over-----	2	-----	-----	-----	-----	-----	-----	-----	-----	-----
Unclassified-----	29	6	32,189,345	2,478	1,849	629	-----	-----	2,892,051	1,853,376
Michigan, total-----	39	-----	29,455,893	6,220	5,735	484	1	-----	7,999,096	1,214,410
\$20,000 - \$49,999-----	1	-----	-----	-----	-----	-----	-----	-----	-----	-----
\$50,000 - \$99,999-----	1	-----	1,217,349	295	275	19	1	-----	336,119	35,528
\$100,000 - \$249,999-----	6	-----	-----	-----	-----	-----	-----	-----	-----	-----
\$250,000 - \$499,999-----	4	-----	1,439,385	354	338	16	-----	-----	462,897	51,964
\$500,000 - \$999,999-----	8	-----	5,887,950	1,454	1,350	104	-----	-----	1,665,282	261,998
\$1,000,000 - \$2,499,999-----	12	-----	18,900,735	3,559	3,360	199	-----	-----	4,622,888	504,470
Unclassified-----	7	-----	2,030,474	558	412	146	-----	-----	712,140	360,450
Alabama, total-----	32	11	10,024,197	5,074	4,820	239	15	9	5,534,022	563,639
\$1 - \$19,999-----	15	-----	104,660	100	88	-----	12	8	38,454	-----
\$20,000 - \$49,999-----	5	5	293,310	183	171	10	2	1	103,716	11,072
\$50,000 - \$99,999-----	2	2	-----	-----	-----	-----	-----	-----	-----	-----
\$100,000 - \$249,999-----	3	3	829,995	347	337	9	1	-----	253,533	32,832
\$250,000 - \$499,999-----	1	1	-----	-----	-----	-----	-----	-----	-----	-----
\$1,000,000 - \$2,499,999-----	6	-----	8,796,232	4,441	4,224	217	-----	-----	5,138,319	515,595
Unclassified-----	-----	-----	-----	3	-----	3	-----	-----	-----	4,140
Other States, total-----	37	13	15,141,412	3,915	3,552	351	12	3	4,547,166	860,140
\$1 - \$19,999-----	13	3	135,724	91	80	7	4	1	70,912	7,344
\$20,000 - \$49,999-----	6	2	191,087	118	112	4	2	2	66,596	7,152
\$50,000 - \$99,999-----	1	1	300,311	145	133	11	1	-----	113,731	23,203
\$100,000 - \$249,999-----	2	2	-----	-----	-----	-----	-----	-----	-----	-----
\$250,000 - \$499,999-----	1	-----	2,788,327	707	668	39	-----	-----	929,964	97,791
\$500,000 - \$999,999-----	4	1	-----	-----	-----	-----	-----	-----	-----	-----
\$1,000,000 - \$2,499,999-----	4	3	11,050,745	2,537	2,343	194	-----	-----	3,105,617	492,454
\$2,500,000 - \$4,999,999-----	1	1	-----	-----	-----	-----	-----	-----	-----	-----
Unclassified-----	5	-----	875,218	317	216	96	5	-----	260,146	232,196

¹ For definition of the industry see table 1, footnote 1. Reports classified by value of products represent a single mine, a single beneficiating plant or a single mine and a single beneficiating plant reported together. Statistics shown for "Unclassified" represent reports for more than one mine or beneficiating plant and reports for central offices reported separately from their associated mines and plants.

MINERAL INDUSTRIES

TABLE 16.—SELECTED STATISTICS FOR IRON-ORE OPERATIONS IN THE UNITED STATES, CLASSIFIED BY TONS OF MERCHANTABLE IRON ORE PRODUCED AND BY STATE: 1939¹

(For producing operations only)

STATE AND QUANTITY OF MERCHANTABLE IRON ORE PRODUCED (tons of 2,240 pounds)	Number of mines	Number of benefici- ating plants	Value of all products	NUMBER OF PERSONS ENGAGED					Wages	Salaries
				Total	Wage earners (average for the year)	Salaried employees	Proprietors and firm members			
							Total	Performing manual labor		
United States, total-----	177	41	\$150,872,108	22,397	20,137	2,228	32	14	\$27,200,614	\$5,794,483
1 - 24,999-----	47	15	995,105	698	556	119	23	14	405,190	65,541
25,000 - 49,999-----	4	3	381,702	134	125	7	2	-----	81,364	8,317
50,000 - 99,999-----	12	3	2,239,520	595	562	32	1	-----	652,974	84,555
100,000 - 199,999-----	21	4	8,572,314	2,125	1,976	148	1	-----	2,595,397	389,391
200,000 - 349,999-----	18	5	16,140,463	2,983	2,776	207	-----	-----	3,818,933	529,919
350,000 - 499,999-----	10	1	15,621,292	3,260	2,987	273	-----	-----	4,030,455	642,605
500,000 - 749,999-----	11	-----	17,875,797	3,190	3,028	162	-----	-----	4,297,511	389,719
750,000 - 999,999-----	6	2	13,105,404	2,486	2,364	122	-----	-----	3,060,516	363,923
1,000,000 - 1,999,999-----	4	1	10,594,427	2,422	2,283	139	-----	-----	2,879,306	339,175
2,000,000 and over-----	3	1	30,481,047	1,227	1,005	222	-----	-----	1,514,631	551,176
Unclassified-----	41	6	34,865,037	3,277	2,475	797	5	-----	3,864,337	2,450,162
Minnesota, total-----	69	17	96,250,606	7,188	6,030	1,154	4	2	9,120,330	3,166,294
1 - 24,999-----	5	1	140,377	82	66	13	3	2	67,091	19,650
25,000 - 49,999-----	1	2	-----	-----	-----	-----	-----	-----	-----	-----
50,000 - 99,999-----	4	1	715,293	107	92	14	1	-----	89,022	27,075
100,000 - 199,999-----	8	1	3,038,353	561	502	59	-----	-----	708,055	151,987
200,000 - 349,999-----	7	3	5,859,342	752	704	48	-----	-----	998,715	130,454
350,000 - 499,999-----	2	-----	-----	-----	-----	-----	-----	-----	-----	-----
500,000 - 749,999-----	6	-----	12,309,383	1,520	1,371	149	-----	-----	2,172,076	384,572
750,000 - 999,999-----	2	1	-----	-----	-----	-----	-----	-----	-----	-----
1,000,000 - 1,999,999-----	2	1	11,547,466	462	442	20	-----	-----	678,689	58,004
2,000,000 and over-----	3	1	30,481,047	1,227	1,005	222	-----	-----	1,514,631	551,176
Unclassified-----	29	6	32,159,345	2,477	1,848	629	-----	-----	2,892,051	1,853,376
Michigan, total-----	39	-----	29,455,893	6,220	5,735	484	1	-----	7,999,096	1,214,410
25,000 - 49,999-----	1	-----	1,313,356	392	374	17	1	-----	496,761	40,117
50,000 - 99,999-----	6	-----	-----	-----	-----	-----	-----	-----	-----	-----
100,000 - 199,999-----	7	-----	3,054,626	658	608	50	-----	-----	818,730	119,949
200,000 - 349,999-----	8	-----	6,359,771	1,424	1,333	91	-----	-----	1,841,180	237,317
350,000 - 499,999-----	7	-----	10,861,409	2,125	1,975	150	-----	-----	2,738,648	366,637
500,000 - 749,999-----	3	-----	5,837,255	1,063	1,033	30	-----	-----	1,392,397	90,540
Unclassified-----	7	-----	2,038,474	568	412	146	-----	-----	712,140	360,450
Alabama, total-----	32	11	10,024,197	5,074	4,820	239	15	9	5,534,022	563,687
1 - 24,999-----	21	6	356,606	248	225	9	14	9	123,860	9,392
25,000 - 49,999-----	1	1	-----	-----	-----	-----	-----	-----	-----	-----
50,000 - 99,999-----	2	2	891,359	383	372	10	1	-----	271,843	34,512
100,000 - 199,999-----	2	2	-----	-----	-----	-----	-----	-----	-----	-----
200,000 - 349,999-----	2	-----	-----	-----	-----	-----	-----	-----	-----	-----
350,000 - 499,999-----	2	-----	-----	-----	-----	-----	-----	-----	-----	-----
500,000 - 749,999-----	2	-----	8,796,232	4,440	4,223	217	-----	-----	5,138,319	515,595
750,000 - 999,999-----	2	-----	-----	-----	-----	-----	-----	-----	-----	-----
1,000,000 - 1,999,999-----	2	-----	-----	-----	-----	-----	-----	-----	-----	-----
Unclassified-----	-----	-----	-----	3	-----	3	-----	-----	-----	4,140
Other States, total-----	37	13	15,141,412	3,915	3,552	351	12	3	4,547,166	860,140
1 - 24,999-----	21	8	518,122	368	265	97	6	3	214,239	36,499
25,000 - 49,999-----	1	-----	-----	-----	-----	-----	-----	-----	-----	-----
100,000 - 199,999-----	4	1	2,180,547	753	715	37	1	-----	946,024	89,223
200,000 - 349,999-----	3	2	3,922,350	807	739	68	-----	-----	979,098	162,148
350,000 - 499,999-----	1	1	7,845,175	1,748	1,618	130	-----	-----	2,147,659	340,074
750,000 - 999,999-----	2	1	-----	-----	-----	-----	-----	-----	-----	-----
Unclassified-----	5	-----	675,218	239	215	19	5	-----	260,146	232,196

¹ For definition of the industry see table 1, footnote 1. Reports classified by quantity of merchantable iron ore produced represent a single mine, a single beneficiating plant, or a single mine and a single beneficiating plant reported together. Statistics for "Unclassified" represent reports for more than one mine or beneficiating plant and reports for central offices reported separately from their associated mines and plants.

TABLE 17.—SELECTED STATISTICS FOR IRON-ORE OPERATIONS IN THE UNITED STATES, CLASSIFIED BY NUMBER OF WAGE EARNERS
AND BY STATE: 1939 ¹
(For producing operations only)

STATE AND NUMBER OF WAGE EARNERS	Number of mines	Number of beneficiating plants	Value of all products	NUMBER OF PERSONS ENGAGED					Wages	Salaries
				Total	Wage earners (average for the year)	Salaried employees	Proprietors and firm members			
							Total	Performing manual labor		
United States, total-----	177	41	\$150,872,108	22,397	20,137	2,228	32	14	\$27,200,614	\$5,794,483
1 - 5-----	9	1	205,012	33	27	3	3	3	22,826	824
6 - 20-----	28	11	1,861,544	405	357	36	12	6	291,257	56,439
21 - 50-----	18	7	6,997,842	711	634	75	2	-----	878,925	169,511
51 - 100-----	21	5	14,886,579	1,667	1,538	129	2	-----	1,943,123	332,502
101 - 250-----	23	5	32,183,705	4,134	3,848	286	-----	-----	5,458,854	743,000
251 - 500-----	17	4	47,145,545	6,669	6,155	514	-----	-----	8,648,461	1,282,954
501 - 1,000-----	6	1	12,513,700	5,299	4,991	308	-----	-----	6,229,086	739,291
1,001 - 2,500-----	1	-----								
Unclassified-----	54	7	35,078,181	3,479	2,589	877	13	5	3,928,082	2,469,962
Minnesota, total-----	69	17	96,250,606	7,188	6,030	1,154	4	2	9,120,330	3,156,294
1 - 5-----	2	-----	801,639	127	103	21	3	2	105,008	31,949
6 - 20-----	7	3								
21 - 50-----	8	1	5,912,048	343	295	47	1	-----	385,714	111,673
51 - 100-----	10	3	10,333,980	792	712	80	-----	-----	983,003	218,517
101 - 250-----	8	3	47,043,594	3,449	3,072	377	-----	-----	4,754,554	940,779
251 - 500-----	5	1								
Unclassified-----	29	6	32,159,345	2,477	1,848	629	-----	-----	2,892,051	1,853,376
Michigan, total-----	39	-----	29,455,893	6,220	5,735	484	1	-----	7,999,096	1,214,410
6 - 20-----	2	-----	793,423	153	139	13	1	-----	154,737	28,813
21 - 50-----	4	-----								
51 - 100-----	7	-----	3,599,662	549	509	40	-----	-----	663,138	96,420
101 - 250-----	12	-----	10,616,383	2,374	2,209	165	-----	-----	3,101,220	419,005
251 - 500-----	7	-----	12,215,951	2,586	2,466	120	-----	-----	3,367,861	309,722
Unclassified-----	7	-----	2,030,474	558	412	146	-----	-----	712,140	330,450
Alabama, total-----	32	11	10,024,197	5,074	4,820	239	15	9	5,534,022	563,639
6 - 20-----	9	4	203,609	135	125	4	6	4	68,423	2,702
21 - 50-----	3	3	152,611	111	104	6	1	-----	58,747	8,370
51 - 100-----	2	-----	1,750,359	731	709	21	1	-----	747,468	40,640
101 - 250-----	1	1								
251 - 500-----	1	-----	7,738,308	3,999	3,796	203	-----	-----	4,610,439	490,987
501 - 1,000-----	4	-----								
1,001 - 2,500-----	1	-----	179,310	98	86	5	7	5	48,945	20,940
Unclassified-----	11	1								
Other States, total-----	37	13	15,141,412	3,915	3,552	351	12	3	4,547,166	860,140
1 - 5-----	7	1	80,994	24	20	3	1	1	16,199	824
6 - 20-----	10	4	885,399	127	113	10	4	2	103,372	18,288
21 - 50-----	3	3	234,875	129	119	10	-----	-----	100,808	24,155
51 - 100-----	2	-----	1,617,326	426	400	25	1	-----	552,106	84,424
101 - 250-----	2	1								
251 - 500-----	4	3	11,613,966	2,863	2,657	206	-----	-----	3,499,735	517,253
501 - 1,000-----	2	1								
Unclassified-----	7	-----	709,052	346	243	97	6	-----	274,946	235,196

¹ For definition of the industry see table 1, footnote 1. Reports classified by average number of wage earners employed during the year represent a single mine, a single beneficiating plant, or a single mine and a single beneficiating plant reported together. Statistics shown for "Unclassified" represent reports for more than one mine or beneficiating plant, reports on which number of wage earners, by month, was not adequately reported, and reports for central offices reported separately from their associated mines and plants.

MINERAL INDUSTRIES

TABLE 18.—SELECTED STATISTICS FOR IRON-ORE OPERATIONS IN THE UNITED STATES, CLASSIFIED BY NUMBER OF HOURS PER WAGE EARNER IN THE FULL-TIME WORKWEEK AND BY STATE: 1939¹

(For producing operations only)

STATE AND HOURS PER WEEK	Number of mines	Number of beneficiating plants	Value of all products	NUMBER OF PERSONS ENGAGED					Wages	Salaries	
				Total	Wage earners (average for the year)	Salaried employees	Proprietors and firm members				
							Total	Performing manual labor			
United States, total-----	177	41	\$150,872,108	22,397	20,137	2,228	32	14	\$27,200,614	\$5,794,483	
1 - 34-----	3	-----	} 1,272,232	317	300	16	1	1	378,087	47,418	
35-----	1	-----		40	18,784	1,640	6	4	25,922,527	4,029,240	
40-----	131	25		146,482,684	20,440	454	41	5	3	494,635	85,639
41 - 42-----	13	6		1,405,510	500	285	19	4	1	218,484	31,571
43 - 44-----	10	8	918,144	308	285	19	4	1	218,484	31,571	
48-----	1	-----	} 795,538	832	304	512	16	5	186,881	1,600,615	
Unclassified-----	16	2		795,538	832	304	512	16	5	186,881	1,600,615
Minnesota, total-----	69	17		\$6,250,606	7,186	6,030	1,154	4	2	9,120,330	3,156,294
40-----	65	15		95,581,045	6,750	5,989	810	1	-----	9,033,093	2,001,197
41 - 42-----	3	1	12,939	40	34	4	2	2	36,923	7,500	
43 - 44-----	1	1	(2)	(2)	(2)	(2)	(2)	-----	(2)	(2)	
Unclassified-----	2	-----	2,528,622	2,393	2,57	2,340	2	1	2,50,214	2,147,597	
Michigan, total-----	39	-----	29,455,893	6,220	5,735	484	1	-----	7,969,096	1,214,410	
1 - 34-----	3	-----	1,361,902	333	315	17	1	-----	397,675	50,918	
40-----	34	-----	28,083,991	5,792	5,420	372	-----	-----	7,601,421	914,241	
41 - 42-----	1	-----	(3)	(3)	(3)	(3)	(3)	-----	(3)	(3)	
43 - 44-----	1	-----	(3)	(3)	(3)	(3)	(3)	-----	(3)	(3)	
48-----	1	-----	-----	95	-----	95	-----	-----	-----	245,251	
Unclassified-----	-----	-----	-----	95	-----	95	-----	-----	-----	245,251	
Alabama, total-----	32	11	10,024,187	5,074	4,820	239	15	9	5,534,022	563,636	
35-----	1	-----	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	
40-----	13	2	9,080,810	4,614	4,389	223	2	1	5,255,063	526,265	
41 - 42-----	4	2	114,183	65	61	3	1	1	36,147	3,725	
43 - 44-----	5	5	454,195	189	179	8	2	1	129,234	12,692	
Unclassified-----	9	2	4,395,009	4,206	4,191	4	10	4	113,578	20,146	
Other States, total-----	37	13	15,141,412	3,915	3,552	351	12	3	4,547,166	860,146	
40-----	21	8	13,768,858	3,284	3,046	235	3	3	4,032,950	587,519	
41 - 42-----	6	3	1,128,398	595	359	34	2	-----	421,565	74,411	
43 - 44-----	3	2	67,044	44	42	2	-----	-----	28,351	2,125	
Unclassified-----	7	-----	179,142	192	105	80	7	-----	64,290	196,086	

¹ For definition of the industry see table 1, footnote 1. Reports were classified by number of hours in the full-time workweek reported for wage earners in that department of the operation for which the largest number of man-hours worked was reported. Statistics for "Unclassified" represent reports on which number of hours was not reported; reports on which no wage earners were reported; and reports for central offices reported separately from their associated mines and plants.

² Statistics for the interval "43 - 44" are included with those for "Unclassified."

³ Statistics for the class intervals "43 - 44" and "48" are included with those for "1 - 34."

⁴ Statistics for the class interval "53" are included with those for "Unclassified."

TABLE 19.—SELECTED STATISTICS FOR IRON-ORE OPERATIONS IN THE UNITED STATES, CLASSIFIED BY NUMBER OF DAYS ACTIVE DURING THE YEAR: 1939¹

(For producing operations only)

NUMBER OF DAYS ACTIVE DURING YEAR	Number of mines	Number of benefi- ciating plants	Value of all products	NUMBER OF PERSONS ENGAGED					Wages	Salaries
				Total	Wage earners (average for the year)	Salaried employees	Proprietors and firm members			
							Total	Performing manual labor		
United States, total-----	177	41	\$150,872,108	22,397	20,137	2,228	32	14	\$27,200,614	\$5,794,483
1 - 49-----	7	4	807,680	146	111	35	-----	-----	120,616	66,278
50 - 99-----	12	2	1,083,662	263	235	25	5	2	273,599	44,503
100 - 149-----	17	4	6,570,501	638	562	72	4	2	719,933	188,356
150 - 199-----	24	8	32,884,260	1,718	1,602	109	7	4	2,180,609	269,503
200 - 224-----	18	1	16,493,127	4,322	4,057	265	-----	-----	5,170,579	669,856
225 - 249-----	24	7	24,224,623	5,230	4,905	324	1	1	6,789,668	791,562
250 - 274-----	18	3	35,584,485	5,694	5,205	489	-----	-----	7,231,423	1,181,574
275 - 299-----	5	4	5,709,328	706	670	36	-----	-----	889,298	90,422
300 - 324-----	4	1	4,828,854	1,181	1,129	50	2	-----	1,318,544	150,852
325 and over-----	3	2								
Unclassified-----	45	5	22,675,588	2,499	1,661	825	13	5	2,506,345	2,341,580

¹ For definition of the industry see table 1, footnote 1. Reports classified by number of days active represent a single mine, a single beneficiating plant, or a single mine and a single beneficiating plant reported together; such reports for a single mine or a single beneficiating plant were classified by number of days the mine or beneficiating plant was in operation for production or development purposes during the year; such reports for a single mine and a single beneficiating plant reported together were classified by number of days the mine was in operation during the year. Statistics shown for "Unclassified" represent reports for more than one mine or beneficiating plant, reports on which number of days active was not reported, and reports for central offices reported separately from their associated mines and plants.

IRON ORE

335

TABLE 20.—SELECTED STATISTICS FOR IRON-ORE OPERATIONS IN THE UNITED STATES, CLASSIFIED BY OUTPUT PER MAN-HOUR
AND BY STATE: 1939¹
(For producing operations only)

STATE AND TONS OF MERCHANTABLE IRON ORE PER MAN-HOUR (tons of 2,240 pounds)	Number of mines	Number of benefici- ating plants	Value of all products	NUMBER OF PERSONS ENGAGED					Wages	Salaries
				Total	Wage earners (average for the year)	Salaried employees	Proprietors and firm members			
							Total	Performing manual labor		
United States, total-----	177	41	\$150,872,108	22,397	20,137	2,228	32	14	\$27,200,614	\$5,794,483
Less than 0.20-----	8	4	130,027	116	108	8	-----	-----	82,675	9,496
0.20 - 0.39-----	² 26 plus 1 part	12	8,458,786	2,748	2,564	173	11	2	3,105,504	269,882
0.40 - 0.59-----	19	6	5,241,431	1,915	1,789	120	6	6	2,359,827	281,021
0.60 - 0.79-----	24	3	18,981,507	6,045	5,652	392	1	1	7,599,554	945,130
0.80 - 0.99-----	² 14 plus 2 parts	-----	16,466,863	4,009	3,854	155	-----	-----	5,152,261	403,423
1.00 - 1.49-----	² 19 plus 3 parts	4	14,708,361	2,459	2,278	180	1	-----	3,248,004	492,407
1.50 - 1.99-----	13	4	7,151,041	945	797	147	1	-----	1,065,449	372,870
2.00 - 2.49-----	² 14 plus 1 part	3	-----	-----	511	69	-----	-----	790,968	169,591
2.50 - 2.99-----	² 1 part	1	5,827,601	580	-----	-----	-----	-----	-----	-----
3.00 - 6.99-----	² 18 plus 2 parts	4	53,407,729	2,535	2,094	440	1	-----	3,170,816	1,082,677
7.00 and over-----	8	-----	19,432,501	447	408	39	-----	-----	585,378	86,978
Unclassified-----	9	-----	96,261	598	82	505	11	5	40,500	1,581,208
Minnesota, total-----	69	17	96,250,606	7,188	6,080	1,154	4	2	9,120,330	3,156,294
0.20 - 0.39-----	2	1	-----	-----	469	12	2	2	730,185	18,650
0.40 - 0.59-----	3	-----	1,838,698	483	-----	-----	-----	-----	-----	-----
0.60 - 0.79-----	4	1	7,505,464	1,426	1,327	99	-----	-----	2,072,785	231,692
0.80 - 0.99-----	² 3 plus 2 parts	-----	4,722,547	779	716	62	1	-----	1,062,542	166,552
1.00 - 1.49-----	² 11 plus 1 part	3	6,559,763	857	717	139	1	-----	978,251	355,289
1.50 - 1.99-----	10	4	5,501,192	524	462	62	-----	-----	721,549	145,474
2.00 - 2.49-----	² 14 plus 1 part	3	79,145	11	8	3	-----	-----	12,669	4,583
2.50 - 2.99-----	1	-----	51,328,076	2,351	1,937	414	-----	-----	2,978,113	1,024,910
3.00 - 6.99-----	² 12 plus 2 parts	4	18,715,721	429	394	35	-----	-----	564,436	77,210
7.00 and over-----	7	-----	-----	328	-----	328	-----	-----	-----	1,131,934
Unclassified-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Michigan, total-----	39	-----	29,455,893	6,220	5,735	484	1	-----	7,999,096	1,214,410
0.20 - 0.39-----	² 1 plus 1 part	-----	2,127,957	754	679	75	-----	-----	1,009,588	181,991
0.40 - 0.59-----	3	-----	9,369,012	2,133	2,018	115	-----	-----	2,841,763	269,274
0.60 - 0.79-----	12	-----	8,807,858	1,887	1,800	87	-----	-----	2,369,839	235,040
0.80 - 0.99-----	9	-----	7,103,021	1,170	1,063	87	-----	-----	1,557,469	221,687
1.00 - 1.49-----	² 6 plus 1 part	-----	2,048,065	161	155	25	1	-----	190,437	57,167
1.50 - 1.99-----	2	-----	-----	95	-----	95	-----	-----	-----	249,251
2.00 - 2.49-----	5	-----	-----	-----	-----	-----	-----	-----	-----	-----
2.50 - 2.99-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3.00 - 6.99-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
7.00 and over-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Unclassified-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Alabama, total-----	32	11	10,024,197	5,074	4,820	239	15	9	5,534,022	563,639
0.20 - 0.39-----	12	5	506,230	240	226	8	6	2	151,985	12,690
0.40 - 0.59-----	7	5	1,737,491	902	867	33	2	1	916,575	83,709
0.60 - 0.79-----	5	1	7,749,896	3,901	3,705	195	1	1	4,455,462	463,100
0.80 - 0.99-----	2	-----	30,580	31	22	3	6	5	10,000	4,140
Unclassified-----	6	-----	-----	-----	-----	-----	-----	-----	-----	-----
Other States, total-----	37	13	15,141,412	3,915	3,552	351	12	3	4,547,166	860,140
Less than 0.20-----	8	4	130,027	116	108	8	-----	-----	82,675	9,496
0.20 - 0.39-----	11	6	6,490,177	2,034	1,874	155	5	-----	2,297,436	333,198
0.40 - 0.59-----	6	1	999,664	250	238	10	2	3	359,562	30,665
0.60 - 0.79-----	3	1	2,986,160	707	656	51	-----	-----	981,746	149,447
1.00 - 1.49-----	² 2 plus 1 part	1	3,474,071	583	559	39	-----	-----	715,191	121,749
1.50 - 1.99-----	1	-----	-----	-----	-----	-----	-----	-----	-----	-----
2.00 - 2.99-----	² 1 part	-----	995,632	66	57	9	-----	-----	80,256	19,702
2.50 - 2.99-----	1	-----	-----	-----	-----	-----	-----	-----	-----	-----
3.00 - 6.99-----	1	-----	-----	-----	-----	-----	-----	-----	-----	-----
7.00 and over-----	1	-----	-----	-----	-----	-----	-----	-----	-----	-----
Unclassified-----	3	-----	65,681	144	60	79	5	-----	30,300	195,883

¹ For definition of the industry see table 1, footnote 1. Reports classified by output per man-hour represent a single mine, a single beneficiating plant, or a single mine and a single beneficiating plant reported together. Statistics shown for "Unclassified" represent reports on which man-hours worked were not adequately reported for classification and reports for central offices reported separately from their associated mines and plants.

² For the purpose of this table open-pit and underground parts of mines using a combination of open-pit and underground mining methods were treated separately.

MINERAL INDUSTRIES

TABLE 21.--PRINCIPAL STATISTICS FOR NONPRODUCING OPERATIONS IN THE IRON-ORE INDUSTRY IN THE UNITED STATES, BY STATE: 1939¹

ITEM	United States	Minnesota	Michigan	Other States ²
Number of operating companies-----	316	36	36	3
Number of mines-----	19	7	9	3
Number of beneficiating plants-----	8	3	-----	-----
Number of persons engaged, total ⁴ -----	286	90	164	32
Salaried employees-----	46	16	22	8
Wage earners (average for the year)-----	240	74	142	24
Number receiving pay during pay-roll period ending nearest the 15th of:				
January-----	181	72	107	2
February-----	176	71	103	2
March-----	177	73	100	4
April-----	195	82	102	11
May-----	214	82	123	9
June-----	267	98	162	7
July-----	283	65	172	46
August-----	261	58	176	27
September-----	274	49	180	45
October-----	249	40	167	42
November-----	304	93	167	44
December-----	299	106	149	44
Principal expenses designated below, total-----	\$624,517	\$186,021	\$395,725	\$40,771
Wages-----	\$230,656	\$76,835	\$135,585	\$18,246
Salaries-----	\$100,026	\$38,603	\$42,494	\$18,929
Supplies and materials-----	\$169,755	\$38,694	\$130,061	\$1,000
Fuel-----	\$18,743	\$4,221	\$9,422	\$100
Purchased electric energy-----	\$91,280	\$21,300	\$69,980	-----
Contract work-----	\$19,047	\$8,368	\$8,183	\$2,496
Cost of buildings, machinery, and equipment erected or installed during year-----	\$170,785	\$1,280	\$119,983	\$49,522
Buildings-----	\$13,838	-----	\$50	\$13,788
Machinery and equipment, total-----	\$156,947	\$1,280	\$119,933	\$35,734
Purchased in new condition-----	\$140,184	\$1,280	\$119,933	\$18,971
Purchased in used condition-----	\$16,763	-----	-----	\$16,763
Average number of wage earners on active days-----	118	57	20	41
Total number of man-shifts worked by wage earners-----	41,010	13,645	21,880	5,455
On active days, total-----	10,393	2,333	3,274	4,786
At mines-----	5,607	2,333	3,274	-----
At preparation plants-----	4,786	-----	-----	4,786
On inactive days-----	30,617	11,312	18,606	699
Total number of man-hours worked by wage earners-----	326,655	109,162	175,012	42,461
On active days, total-----	83,106	18,664	25,153	38,289
At mines-----	44,817	18,664	25,153	-----
At preparation plants-----	38,289	-----	-----	38,289
On inactive days-----	243,549	90,498	148,859	4,192
Average number of hours worked per shift-----	8.0	8.0	8.0	7.7
Average hourly earning of wage earners-----	\$0.71	\$0.70	\$0.77	\$0.43
Average number of equivalent full days operations were active-----	88	41	164	117
Horsepower rating of prime movers and electric motors driven by purchased energy, total-----	27,183	6,364	19,319	1,500
By stationary and mobile:				
Stationary-----	19,569	2,347	15,722	1,500
Mobile-----	7,614	4,017	3,597	-----
By prime movers and electric motors driven by purchased energy:				
Prime movers-----	5,235	2,640	1,095	1,500
Electric motors driven by purchased energy-----	21,948	3,724	18,224	-----
Electric motors driven by energy generated by reporting companies-----	4,158	4,158	-----	-----
Fuels consumed: ⁵				
Anthracite (tons of 2,000 pounds)-----	2	2	-----	-----
Bituminous coal (tons of 2,000 pounds)-----	1,703	431	1,272	-----
Fuel oils (barrels of 42 gallons)-----	282	229	3	-----
Gasoline and kerosene (gallons)-----	9,685	1,215	7,870	600
Electric energy consumed (thousands of kw.-hrs.), total-----	6,107	1,130	4,977	-----
Purchased-----	6,059	1,082	4,977	-----
Generated by reporting companies-----	48	48	-----	-----

¹ Statistics represent iron-ore mines and beneficiating plants without products for which the reported principal expenses or cost of buildings, machinery, and equipment erected or installed during the year amounted to \$2,500 or more.

² Represents Alabama, Missouri, and New Jersey, and statistics for central-office employees in Wisconsin.

³ One company operated mines in both Michigan and Minnesota.

⁴ No proprietors or firm members were reported.

⁵ No natural gas was reported consumed.

TABLE 22.--PRINCIPAL STATISTICS FOR MANGANIFEROUS IRON-ORE MINING IN THE UNITED STATES: 1939¹

Number of operating companies-----	28	Principal expenses--Continued	
Number of mines-----	310	Fuel-----	\$128,830
Number of wage earners (average for the year)-----	376	Purchased electric energy-----	\$99,988
Number of salaried employees-----	35	Contract work-----	\$11,718
Production of merchantable ore:		Cost of buildings, machinery, and equipment erected or installed during year-----	\$107,403
Tons of 2,240 pounds-----	761,544		
Value at mine-----	\$2,165,570	Horsepower rating of power equipment, total-----	14,776
Average percent iron content of ore (natural)-----	37.83	Stationary equipment-----	7,447
Average percent manganese content of ore (natural)-----	8.45	Mobile equipment-----	7,329
Value of all products-----	\$2,167,409	Total number of man-hours worked by wage earners-----	700,235
Principal expenses designated below, total-----	\$879,958	Tons of merchantable ore produced per man-hour-----	1.09
Wages-----	\$401,578	Average number of equivalent full days operations were active-----	179
Salaries-----	\$81,034	Average number of hours worked per shift-----	8.0
Supplies and materials-----	\$156,810		

¹ Statistics for mines covered by this table have been included in tables 1 through 20.

² Of this number, 5 companies were engaged in the production of both manganiferous iron ore (ore containing 5 percent or more manganese, but which is valued chiefly for its iron content) and iron ore (ore containing less than 5 percent manganese).

³ Of this number, 3 mines were engaged in the production of both manganiferous iron ore and iron ore.