GENERAL REPORT AND REPORTS FOR STATES AND FOR INDUSTRIES

INTRODUCTION AND GENERAL EXPLANATIONS

Scope of the report.—The statistics for mines and quarries, compiled as part of the Fifteenth Decennial Census, are presented in this volume. It contains (1) a general summary of the statistics; (2) general tables which bring together the principal statistics in con-convenient form; (3) a presentation of the principal statistics of the mining industries in the individual States; and (4) presentations of the statistics of all mining industries—anthracite and bituminous-coal mining; the mining of gold, silver, copper, lead, and zinc; iron-ore mining; stone quarrying; the production of sand and gravel; phosphate-rock mining; clay mining; gypsum mining; the mining of miscellaneous minerals.

The summary report for the United States shows the progress of the industries by comparison of the results of the census for 1929 with those for preceding censuses of mines and quarries; statistics for the industries as a whole, by States; statistics for individual industries for the United States as a whole; type of ownership; size of operating enterprises; power equipment, by kind, number, and capacity; time in operation for enterprises and length of working week for wage earners; the numbers of persons engaged in the industries, classified as proprietors and firm members, salaried officers and employees, and wage earners; and fuel consumption, by kind.

The reports for the individual States include: (1) A comparison for 1929 and 1919 of the principal statistics for the producing mining enterprises for the State as a whole; (2) the character of organization of the mining enterprises for the State and for the principal industries, the size of mining enterprises by average number of wage earners for the State and for selected industries, the prevailing hours of labor for wage earners employed in mining enterprises, the number of wage earners employed each month, and power equipment, by kind, number, and capacity; (3) the principal statistics in detail for each industry in the State that can be shown without disclosure of data for individual enterprises.

The reports for each of the leading mining industries include statistics showing the progress of the industry by comparison of the results of the census of 1929 with those of previous censuses; the geographic distribution of the industries; type of ownership; scale of operation; time in operation for enterprises and length of working week for wage earners; persons engaged; and power used in mining enterprises. In addition, the presentation for each industry includes a general statistical table showing by States, in so far as possible without disclosure of data for individual enterprises, all available data in detail.

Scope of the census.—Census data are compiled primarily for the purpose of showing the absolute and the relative magnitude and the growth or the decline of the several industries covered. Incidentally, the effort is made to present statistics throwing light on type of ownership, size of enterprises, time in operation, and similar subjects. When the statistics are used for these purposes, particularly in connection with any attempt to derive from them figures purporting to show average wages, cost of production, or profits, it is imperative that due attention be given to their limitations.

The statistics given in the census reports for 1929 include data for all mineral-producing activities with the following exceptions:

(1) The production of petroleum and natural gas, salt, products derived from natural brines (salt, bromine, calcium chloride, iodine, etc.), marls, natural mineral waters, certain minor and rare minerals (tin, zirconium, chromium, beryllium, magnesium, radium ores, monazite, etc.), and noncommercial clay (clay mined by clay-products manufacturers and used in their own production).

(2) The production of bituminous coal by enterprises whose output was less than 1,000 tons.

(3) The production of sand and gravel by enterprises whose output was less than 25,000 tons. Data for a number of glass-sand and molding-sand enterprises reporting less than 25,000 tons are included, but no data were collected from a larger number of such enterprises whose output fell below this limit.

(4) The production of other mining or quarrying enterprises whose output was valued at less than $2,500; or, if not productive, in which development work costing less than $2,500 was done.

(5) Production by governmental (State, county, and municipal) enterprises, as well as production of stone, sand, and gravel by railroad and public-utility plants for their own consumption. (However, production of coal by governmental enterprises was covered in the canvass.)

(6) The mining of placer gold and the hunting for precious stones by itinerant individuals and miners employing no help.

The scope of the census for 1929 differed considerably from that for 1919, as follows:

(1) The petroleum and natural-gas industries were canvassed for 1919 but not for 1929.

(2) The sand and gravel, glass-sand, and molding-sand industries were canvassed for the first time for 1929.

(3) The quarrying of limestone carried on in connection with the manufacture of lime and cement was also covered by the census for 1929 but not by that for 1919.

(4) Data for the production of sandstone ground into sand are included in the statistics for the glass-sand, the sand and gravel, or the silica industry, according to the nature of the product, whereas in other censuses these data have been included in the statistics for the sandstone industry.

Milling and manufacturing.—Much of the products of mines must be beneficiated, improved in grade, or otherwise treated at or near the mine before the material is suitable for smelting, manufacturing, or other purposes. Among the processes employed are crushing, grinding, washing, drying, air separation, flotation, amalgamation, sintering, etc. Although such milling processes are in the nature of manufacturing, they are commonly considered as belonging to the mining industries, and when they are performed at or near mines by mining enterprises, or by enterprises operating on a custom basis, the data pertaining to them are included in the statistics for the several mining industries. On the other hand, certain other processes by which the mined product is materially changed in nature or otherwise adapted to use, and which ordinarily represent the major activities of the enterprises, are considered as manufacturing, and data for these are not included in the statistics for mines and quarries. Such processes include:

(1) The smelting and refining of metals.

(2) The manufacture of cement and lime, and of gypsum, clay, and phosphate products, etc.

(3) The processing of stone (shaping, dressing, polishing, etc.).

Exceptions to this occur in the cases of a number of establishments which produced lime or processed stone in connection with their quarrying activities but which were unable to segregate the data for these manufacturing activities from those for quarrying. In such instances the manufacturing data are included in the statistics for the quarrying industries.

On the other hand, some mining and quarrying activities have been treated as belonging to manufacturing industries and data for these have not been included in any way in the statistics for mines and quarries. This was chiefly for the reason that the manufacturing phases are predominant in these industries, and accuracy could not be attained by an estimated segregation of the data for mining from those for manufacturing. There was also the further reason that it was necessary to preserve comparableness between the figures for the censuses of manufactures for 1909, 1919, and 1929. This class of operations, excluded from the census for mines and quarries, includes chiefly: The mining of clay and the manufacture of clay products at the same locality when carried on in the same establishment; the mining of salt and the raising of brines and their conversion into commercial salt and other products.

Period covered.—The returns relate to the calendar year 1929 or to the business year which corresponded most nearly to that calendar year, and cover a year's operations, except for enterprises which began or discontinued business within the year.

The enterprise.—As used in this report the term "enterprise" represents one or more mines or quarries, all within the same county, operated under a common ownership or under unified control, or for which only one set of books of account was kept, and for which a single report was made. Thus a single enterprise may comprise a number of plants at several localities within the same county, but reports for individual mines and quarries were obtained whenever it was practicable for the operator to make such reports. In all cases where the plants under one unified control were not all located within the same county, a separate report was obtained for the enterprise or enterprises in each of the counties. The enterprise is further defined as being limited to a single industry. In cases where plants in different industries were operated under unified control, a separate report was obtained as a rule, for the plant or plants in each industry, but in a very few cases where separate reports for plants in two or more industries could not be obtained, a single enterprise represents more than one industry. (See "Classification of enterprises by industries.") The number of enterprises shown in the tables is equivalent to the number of individual reports tabulated, and does not represent the number of individual operators. The latter is considerably smaller than the number of enterprises, because most operators were able to file a separate return for each mine or quarry operated.

Number of mines and quarries.—Under this designation is given the count of the numbers of mines and quarries shown by the returns received. The unit of enumeration for mines and quarries is difficult to define. As a rule, each group of workings at a given locality in which operations were conducted as a unit or were unified by common management or joint handling of some part of the mining process has been considered as a single mine or quarry. Many individual openings, therefore, are not counted as individual mines. The total number reported represents those in operation in 1929.

Classification of enterprises by industries.—The enterprises reported have been grouped by industries according to the kinds of products. In the case of metal mines whose products contained two or more metals, the enterprises were classified according to the metal of chief value. In other cases in which two or more minerals were produced in the same operation, and for which it was impracticable for the operators to file separate returns for the several products, the classification has been determined by the principal product. However, only a few enterprises made consolidated reports covering more than one kind of product.

Several changes have been made in the classification of enterprises for 1929 as compared with 1919, as follows:

(1) Data for production of diatomaceous earth and siliceous mica schist (ganister) have been included in the statistics for the silica industry instead of in those for the abrasive-materials and sandstone industries, respectively, as for 1919.

(2) Data for production of fuller's earth and filtering earths have been combined for 1929.

(3) Data for production of glass sand from quarried sandstone are included in the statistics for the glass-sand industry for 1929 instead of in those for the sandstone industry as for 1919.

(4) Separate industry classifications are shown for gold, silver, lead, and zinc enterprises for 1929, instead of the dual classifications (gold-silver and lead-zinc) used in previous censuses.

Influence of changes in prices.—In comparing figures for the values of products with the corresponding ones for earlier censuses, account should be taken of changes in the prices of commodities. To the extent to which this factor has been influential, the figures fail to afford an exact measure of the increase or decrease in the volume of production.

Persons engaged in the industries.—The following general classes of persons engaged in the mining and quarrying industries are distinguished: (1) Proprietors and firm members, (2) salaried officers of corporations, (3) other salaried employees (including superintendents, managers, technical employees, clerks, and others on a salary basis), and (4) wage earners. In the reports of the census for 1919, separate figures were given for technical employees and for clerks and other subordinate salaried employees.

The figures for employees do not include the numbers employed in connection with expenditures for contract work, as no record is normally kept for those persons engaged by contractors in the fulfillment of a particular contract. Such contractual arrangements, when made, are ordinarily restricted to the sinking of shafts, the driving of tunnels, the construction of surface plants, etc., and only infrequently do they involve the actual extraction of minerals.

The number of persons engaged in each industry was reported for a single representative day. The 14th of December was selected as representing normal conditions of employment in most industries, but where this date was not a representative one a report for another date was requested.

The number of employees other than wage earners thus reported for the representative date has been treated as equivalent to the average for the year, since the number of such employees does not ordinarily vary much from month to month.

The average number of wage earners was obtained by totaling the number reported as employed on the 15th of each month and dividing the sum by 12. The importance of the industry as an employer of labor is believed to be more accurately measured by this average than by the number employed on any given date.

Salaries and wages.—Under these heads are given the total payments during the year for salaries and for wages, respectively. The Census Bureau has not undertaken to calculate the average annual earnings either of salaried employees or of wage earners. Such averages would possess little real value, because they would be based on the earnings of employees of both sexes, of all ages, in different occupations, and of widely varying degrees of skill. Furthermore, so far as wage earners are concerned, it would be impossible to calculate accurately even so simple an average as this, since the number of wage earners fluctuates rapidly and irregularly in every industry, and in some to a very great extent from day to day. The Census Bureau's figures for wage earners, as already explained, are averages based on the number employed on the 15th of each month, and while representing the number, according to the pay rolls, to whom wages were paid on that date, they doubtless represent a larger number than would be required to perform the work in any industry if all were continuously employed during the year.

Prevailing hours of labor.—No attempt was made to ascertain the exact numbers of wage earners working given numbers of hours per week. The inquiry called merely for a report as to the prevailing practice followed in each enterprise. Occasional variations in hours from one part of the year to another, as well as differences in hours for underground and for surface workers, were disregarded, and no attention was paid to the fact that the hours of labor of a few wage earners might be different from those of the majority. All the wage earners in each enterprise are therefore counted in the class within which the enterprise itself falls. In most enterprises, however, practically all the wage earners work the same number of hours, so that the figures give a substantially correct presentation of the hours of labor.

Expenses.—The expenses reported in the census for 1929 were salaries and wages; cost of supplies and fuels, including the freight charges thereon; cost of purchased electric energy; and cost of contract work. The reports for 1919 included, in addition, data for royalties, rents, taxes, and cost of materials purchased for resale.

Supplies, fuel, and power.—Statistics for cost of supplies, fuel, and purchased electric energy relate to the amounts consumed during the year, which may be more or less than the amounts purchased during the year. The term "supplies" is applicable to mine, mill, and quarry supplies.

Contract work.—The amounts reported under this head include expenditures for both productive operations and those prosecuted for development only; they

are in effect indirect expenditures for salaries, wages, supplies and materials, fuel, and power. (See "Persons engaged in the industries.")

Expenditures for development work.—The expenses reported as defined above include costs both of productive operations and of development work. In the statistics for producing enterprises those parts of the expenses for salaries, wages, contract work, supplies, fuel, and electric energy which were charged by the mine operators to development work are shown as expenditures for such work.

Cost of mining and profits.—The census statistics do not show the entire cost of mining operations, and consequently can not be used for the calculation of profits. No account has been taken of depletion, depreciation, interest, rent of offices and buildings, insurance, taxes, rents, royalties, selling expenses, and other sundry expenses.

Value of products.—The amounts given under this heading represent the selling values at point of production, or f. o. b. at point of shipment, or such other values as may represent the net values of or the amounts received for the products mined or quarried in 1929 according to the terms under which they were disposed of, and also include the values, at point of production, of products used by the operating company. The total value of products includes, in addition to the value of the principal product, the amounts received for secondary products, custom milling, power sold, and miscellaneous services. It is to be noted, particularly with respect to the industries producing metalliferous ores, that amounts received by the producers, i. e., the values of products as reported by the census, stand in no readily discernible relation to the quantities and the market values of products recoverable from the materials mined. The census figure for the value of products for the copper-mining industry, for example, must not be taken as the value of copper produced, but only as the value at the mine of ores, concentrates, etc.

Quantity of products.—Statistics on quantities of mineral products are presented only in the special reports on the several mining industries. More detailed and elaborate statistics on quantities of all mineral products will be found in the reports of the United States Bureau of Mines.

Power equipment.—The item "aggregate horsepower" represents the horsepower rating of prime movers used by the enterprises for generating power plus that of electric motors driven by energy purchased from other concerns. It does not cover the rating of electric motors taking their current from generators operated by prime movers reported by the same enterprise (such equipment is reported separately), because the inclusion of this would obviously result in duplication. The figures on power equipment represent the rated capacity of the engines, motors, etc., and not the amount of power in actual daily use.

The statistics for power equipment comprise data for both stationary and mobile equipment. The latter class embraces the power equipment of portable cutting, loading, and conveying machines, shovels, dredges, locomotives, and other machinery moved from place to place in the course of operations, as contrasted with fixed or stationary installations, such as central power plants, hoisting equipment, etc.

Fuel.—Statistics on the quantity of fuel used are shown only for anthracite, bituminous coal, coke, fuel oil, gasoline, kerosene, and gas. They relate to the quantity used during the year, which may be more or less than the quantity purchased.

Special industry and State reports.—Statistics in greater detail for the major individual industries, as well as fuller explanations relating to methods of compilation and completeness of this census, are given in the following industry reports: Coal; Gold, Silver Copper, Lead, and Zinc; Iron Ore; Stone; Sand and Gravel; Phosphate Rock; Clay; Gypsum; Miscellaneous Mineral Industries. Reports for individual States present convenient summaries of the statistics for the several industries in these geographic units; these State reports, however, do not present the statistics in as much detail as do the industry reports.

Differences between the value of products reported by the Bureau of the Census in "Mines and Quarries, 1929," and by the Bureau of Mines in "Mineral Resources of the United States, 1929."—The Bureau of Mines compiles annual statistics pertaining primarily to the quantity and value of mineral products. The Bureau of the Census collects decennially data relating to employment, principal expenses, and other items, as well as value of production for the mining industries. For 1929 the task of canvassing the industries was done independently by the two bureaus, while at preceding censuses the Bureau of the Census and Geological Survey cooperated in the collection of data and, to a considerable extent, collaborated in the preparation of the reports. The figures of production for 1929, collected and compiled independently by the two bureaus, as they were, for over 11,000 mines and quarries, are naturally to be expected to present differences. However, the differences are accounted for principally by the different methods followed and objectives sought in compiling and presenting these statistics. Between these methods there is—first, the fundamental difference that the Bureau of the Census endeavors to present the total value to the producer of the actual output for the calendar year, whereas the Bureau of Mines reports for a number of industries "marketed production," sales, or shipments, and therefore, the two sets of statistics may be quite different; and second, the Bureau of Mines shows

separately the quantity and value of each mineral product, whereas the Bureau of the Census presents the value of products of each mining industry or group of mining enterprises, classified for purposes of tabulation as an industry. Thus the Bureau of the Census figures for an industry include the value of some products not covered by the industry designation, whereas the Bureau of Mines tabulates the value of each mineral product, irrespective of its source.

For example, the crude or mine products of a metal-mining enterprise may include varying combinations of gold, silver, copper, lead, and zinc, and sometimes other metals. The Bureau of the Census classifies each of such enterprises according to the metal of predominant value in ores produced, and tabulates the amount received by the producer for ore and concentrates, etc., as the total value of products in the industry classification to which the particular enterprise is assigned. The Bureau of Mines, on the other hand, presents separately the quantity and value (based on New York average sales realizations for refined product) of the several metals recoverable from ores, etc. Therefore, the values reported by the Bureau of Mines for gold, silver, copper, lead, and zinc production are not comparable with the value of products of the metal-mining industries as compiled and presented by the Bureau of the Census.

Another reason contributing to the differences in the reports of the two bureaus is the fact that mineral products are often dressed, calcined, or otherwise processed by the producers. As far as practicable, census figures relate only to the value of crude mined or beneficiated products, while those of the Bureau of Mines include, in some instances, the value of manufactured products.

For example, quarry operators who also dressed and finished their stone were requested to report (and in most instances so reported) the value of the rough quarry product to the census, while for such operators the value of finished stone is compiled by the Bureau of Mines. Likewise, the value of gypsum reported by the Bureau of the Census represents crude gypsum, while that reported by the Bureau of Mines includes data for calcined gypsum produced by mining enterprises. On the other hand, the Bureau of Mines reports only the value of crude magnesite produced, whereas the census of mines and quarries tabulates the value of both crude and calcined magnesite as reported by the producers.

Another difference of considerable moment in the minor industries, but affecting also all industries, is that the Bureau of Mines includes in its tabulations products reported by enterprises not included in the census tabulations. These were of four kinds: Governmental, penal, and eleemosynary institutions, data for which are omitted (except for coal) from the general tables presented by the census of mines and quarries; small enterprises not within the scope of the census; nonproducing enterprises which marketed or used products mined previously to 1929; and a few minor enterprises from which the Bureau of the Census was unable to obtain financial and other data called for by its schedule, or for which it could secure only a defective report which was not tabulated, whereas the Bureau of Mines was able to obtain the desired information on product.

The following table shows the value of products as given in the general tables of this report, and as published by the Bureau of Mines in its report "Mineral Resources of the United States, 1929." The differences existing between the figures of the two reports are shown by amounts and by the per cents these amounts are of the total reported by the Bureau of Mines.

TABLE SHOWING DIFFERENCES IN VALUE OF PRODUCTS AS REPORTED BY THE BUREAU OF THE CENSUS IN "CENSUS OF MINES AND QUARRIES, 1929," AND BY THE BUREAU OF MINES IN "MINERAL RESOURCES OF THE UNITED STATES, 1929"

INDUSTRY	Bureau of Census	Bureau of Mines	DIFFERENCE [1]	
			Amount	Per cent
Coal:				
Anthracite (Pennsylvania)	$384, 854, 300	$385, 642, 751	−$788, 451	−0. 2
Bituminous	966, 693, 771	952, 781, 000	+13, 912, 771	+1. 4
Metals:				
Iron ore	197, 334, 548	197, 148, 640	+185, 908	+0. 1
Copper	(2)	(2)		
Lead	(2)	(2)		
Zinc	(2)	(2)		
Gold—				
Lode	(2)	(2)		
Placer	(2)	(2)		
Silver	(2)	(2)		
Mercury	2, 820, 166	2, 892, 638	−72, 472	−2. 5
Manganese	1, 184, 561	[3] 1, 612, 357	−427, 796	−26. 5
Minor metals	6, 649, 976	(4)		
Bauxite	2, 238, 892	2, 265, 638	−26, 746	−1. 2
Tungsten	733, 970	654, 000	+79, 970	+12. 2
Molybdenum				
Titanium	(5)	(4)		
Vanadium				
Stone	195, 995, 124	[6] 213, 937, 940	−17, 942, 816	−8. 4
Limestone	117, 257, 784	113, 906, 071	+3, 351, 713	+2. 9
Granite	30, 381, 373	34, 225, 110	−3, 843, 737	−11. 2
Basalt	15, 543, 687	18, 946, 197	−3, 402, 510	−18. 0
Slate	10, 486, 390	11, 245, 178	−758, 788	−6. 7
Marble	7, 538, 905	16, 545, 312	−9, 006, 407	−54. 4
Sandstone	6, 311, 977	11, 023, 981	−4, 712, 004	−42. 7
Miscellaneous	8, 475, 008	8, 046, 091	+428, 917	+5. 3
Other nonmetals:				
Abrasive materials	1, 411, 284	1, 695, 019	−283, 735	−16. 7
Emery		10, 722		
Garnet and industrial sapphires and diamonds		435, 420		
Grinding pebbles and tube-mill lining	(5)	66, 178		
Grindstones		617, 618		
Oilstones, whetstones, scythestones, and rubbing stones		212, 017		
Pumice and volcanic ash (pumicite)		353, 064		
Other nonmetals—Continued.				
Asbestos	$397, 482	$351, 004	+$46, 478	+13. 2
Asphalt (native) and bituminous rock	5, 123, 836	5, 470, 493	−346, 657	−6. 3
Barite	1, 801, 314	1, 850, 706	−49, 392	−2. 7
Clay	10, 753, 445	[7] 14, 850, 744	−4, 097, 299	−27. 6
Feldspar	1, 935, 335	1, 276, 640	+658, 695	+51. 6
Fluorspar	2, 858, 344	2, 791, 126	+67, 218	+2. 4
Fuller's earth	[8] 4, 811, 629	4, 309, 723	+501, 906	+11. 6
Gypsum	(9)	(9)		
Magnesite	(9)	(9)		
Mica	516, 305	404, 222	+112, 083	+27. 7
Millstones and pulpstones	620, 835	655, 335	−34, 500	−5. 3
Phosphate rock	13, 043, 769	13, 153, 259	−109, 490	−0. 8
Sand, glass	[10] 5, 359, 216	[10] 3, 788, 471	+1, 570, 745	+41. 5
Sand, molding	[10] 4, 775, 957	[10] 6, 410, 343	−1, 634, 386	−25. 5
Sand and gravel	[10] 102, 311, 914	[10] 122, 637, 165	−20, 325, 251	−16. 6
Silica	4, 645, 142	(11)		
Diatomaceous earth				
Ganister				
Mica schist, siliceous				
Quartz (silica rock)	(5)	(11)		
Quartzite				
Silica sand				
Tripoli				
Sulphur and pyrites	[12] 37, 126, 148	[12] 45, 050, 141	−7, 923, 993	−17. 6
Sulphur	(5)	[12] 43, 800, 000		
Pyrites	(5)	1, 250, 141		
Talc and soapstone	2, 687, 953	[13] 2, 628, 662	+59, 291	+2. 3
Miscellaneous minerals	[14] 3, 502, 876	[14] 4, 843, 527	−1, 340, 651	−27. 7
Borates		4, 515, 375		
Cyanite		(4)		
Graphite		310, 801		
Lithium minerals	(5)	(4)		
Mineral pigments		(4)		
Tantalum		17, 261		
Vermiculite		(4)		

[1] The plus (+) or minus (−) sign indicates the amounts by which the Bureau of the Census figures exceed or fall below those published by the Bureau of Mines.
[2] Comparable statistics not available as the Bureau of the Census reports net value to producers of mine products, while the Bureau of Mines reports the refined value of recoverable metals based on New York average sales realizations.
[3] Includes production of manganese ores incidental or secondary to mining of other mineral products.
[4] Not available from Bureau of Mines reports.
[5] Included in total; not compiled separately.
[6] Includes value of dressed and finished products for which the Bureau of the Census reports only the value of rough stone; includes value of noncommercial production, which is omitted from census figures; excludes value of limestone produced and consumed by lime and cement manufacturers, which is included in census figures; includes value of siliceous mica schist and ganister used for refractory purposes, which is included in the figures for the silica industry by the census.
[7] Includes value of clay mined and sold by manufacturers of clay products, which is not included in census figures.
[8] Includes value of chemically treated clays for filtering purposes.
[9] Not comparable. See explanation preceding table.
[10] Census figures for these industries do not include data for enterprises whose production was less than 25,000 tons, for noncommercial production, nor for the production of unprepared (i. e., *not* washed and/or screened) production. Census figures for glass sand include data for production derived from ground sandstone.
[11] Not comparable. Census figures include value of ganister, siliceous mica schist, tripoli, and diatomaceous earth, which are classified differently by the Bureau of Mines.
[12] Bureau of Mines figures represent sales value based, in part, on estimated prices, while census figures represent mine value of production as reported. The value of pyrites included in census figures was less than 2 per cent.
[13] Bureau of Mines figures represent *sales* of talc only, while census figures are for *production* of both talc and soapstone.
[14] Difference due principally to value of shipments reported for borates by Bureau of Mines, contrasted with value of production included in census figures.

MINES AND QUARRIES—GENERAL REPORT

PRINCIPAL STATISTICS

Summary for the United States: 1902–1929 (Table 1).—This table gives principal statistics for the mining and quarrying industries, with necessary revisions for comparative purposes, as far as possible to make them, for the census for 1929 and the three next preceding censuses. However, the figures given are not entirely comparable because of different classifications in the mining industries at the different censuses: At the census for 1909 data for the conversion of coal into coke at coal mines were included, but were not included for the other years shown; data for the burning of limestone into lime at quarries are included in the statistics for 1902, but are included in those for manufacturing industries at the later censuses; data for the quarrying of limestone by cement and lime producers are included in the statistics for 1929, but are not included in those for 1919 and 1909; data for those smelting and refining operations conducted by metal-mining enterprises are included in the figures for 1909 (especially significant in the copper figures), but are excluded for all such operations in the other years. No attempt has been made to adjust the figures in order to eliminate these differences. Changes in the price level and other factors should be considered in the interpretation of the figures for the years shown.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1902–1929

[This and all other tables, except Tables 4, 28, 29, and 32, relate to producing enterprises only]

	1929		1919 [1]	1909 [1]	1902 [1]	PER CENT OF INCREASE OR DECREASE (—)		
	All industries	Revised (for comparative purposes) [1]				1919–1929	1909–1919	1902–1909
Number of enterprises [2]	10,135	9,063	11,466	[3] 12,089	[3] 14,816	—21.0	—5.2	—18.4
Number of mines and quarries	11,602	10,277	13,731	18,127	16,892	—25.2	—24.3	7.3
Persons engaged, total	863,948	841,652	952,565	982,329		—11.6	—3.0	
Proprietors and firm members	4,897	4,629	7,695	13,703	(4)	—39.8	—43.8	
Salaried officers and employees [5]	52,633	48,666	59,515	37,946	32,237	—13.9	48.9	17.7
Wage earners (average for the year) [6]	806,418	788,357	888,355	930,680	546,349	—11.3	—4.5	70.3
Power equipment, total horsepower	7,514,843	6,970,091	4,900,102	3,384,759	1,659,254	42.2	44.8	104.4
Prime movers	2,743,025	2,502,132	3,341,350	3,179,270	1,636,490	—25.1	5.1	94.3
Electric motors driven by purchased energy	4,771,818	4,467,959	1,558,752	205,489	19,764	186.6	658.6	939.7
Principal expenses, total [7]	$1,661,167,937	$1,600,941,456	$1,720,930,632	$814,320,031	$474,033,569	—7.0	111.3	71.8
Salaries [5]	137,638,624	126,008,291	115,860,617	46,002,605	33,107,246	8.8	151.4	39.2
Wages	1,091,989,848	1,066,605,507	1,161,414,979	559,546,144	347,364,451	—8.2	107.6	61.1
Contract work	17,056,464	16,595,298	10,716,518	12,151,388	3,251,679	54.9	—11.8	273.7
Supplies and materials	293,568,383	280,622,710	331,626,664	152,856,925	[8] 90,310,193	—15.4	117.0	117.6
Fuel	49,145,531	44,693,267	74,081,877	43,672,969		—39.7	132.0	
Purchased electric energy	71,769,087	66,416,383	27,229,977			143.9		
Value of products [9]	2,302,831,178	2,280,384,091	2,226,670,543	1,052,569,127	669,964,027	2.4	111.5	57.1
Expenditures for development (included above in "Principal expenses")	76,488,000	76,426,000	80,409,000	(10)	(10)	—5.0		
Machinery and other equipment purchased during the year (total cost)	84,508,448	76,546,101	(4)	(4)	(4)			

[1] The figures for the several years have been adjusted to make them comparable. See GENERAL EXPLANATIONS—Scope of the census. See also Table 24, footnote 2.
[2] See GENERAL EXPLANATIONS—The enterprise.
[3] Operators.
[4] Not reported.
[5] Includes data for salaried officers and employees of "Central administrative" offices. (See Table 17.)
[6] See GENERAL EXPLANATIONS—Persons engaged.
[7] See GENERAL EXPLANATIONS—Expenses.
[8] Not including cost of purchased electric energy, probably a negligible amount for that year.
[9] See GENERAL EXPLANATIONS—Value of products.
[10] Not reported separately; included in figures for "Principal expenses."

By-products (Tables 2 and 3).—The values of products given in the tables of this report include, in addition to the values of the minerals indicated by the names of the industries, the value of by-products. The term "by-products" is here used to designate collectively mineral and other products and the receipts for custom milling or other processes, for power sold, and for work or miscellaneous services furnished other enterprises, all of which were incidental to the production of the principal mineral product.

Table 2 shows the value of the different classes of by-products for all industries combined and for each industry separately. Table 3 shows the value of the various by-products, reported by mining enterprises, assembled from the data for the several industries.

TABLE 2.—VALUE OF BY-PRODUCTS, BY CLASSES, BY INDUSTRIES: 1929

INDUSTRY	Total	Mineral	Miscellaneous and unspecified products	Custom milling	Power sold and work or miscellaneous services for other enterprises
All industries, total	$12,350,821	$5,111,207	$1,560,892	$2,612,266	$3,066,456
Coal:					
Anthracite	100,289				100,289
Bituminous	986,483	8,623			977,960
Iron ore	1,249,006	119,550	1,412		1,128,044
Copper	1,459,230	791,291	244,600		423,339
Lead	2,030,568	183,144	656,651	1,188,965	1,808
Zinc	1,016,272	528,694	9,712	349,800	128,066
Gold, lode	755,276	300	18,285	736,691	
Gold, placer	7,476	7,376			100
Silver	119,670	17,594	829	99,293	1,954
Stone:					
Limestone	752,050	299,116	328,935		123,999
Granite	90,062	49,025	33,537		7,500
Sandstone	55,310	55,310			
Basalt	49,446	17,791	31,355		300
Marble	15,355	9,690	200		5,465
Miscellaneous	357,699	129,346	222,753		5,600
Abrasive materials	$15,357	$15,357			
Asphalt and bituminous rock	1,081	710	$371		
Barite	7,659	7,659			
Clay	36,623	23,060	12,252		$1,311
Feldspar	18,250	18,250			
Fluorspar	33,397	33,397			
Fuller's and filtering earths	1,170				1,170
Manganese	262,158			$237,517	24,641
Mica	6,249	6,249			
Sand, glass	1,581,805	1,581,805			
Sand, molding	847,584	806,829			40,755
Sand and gravel	335,308	335,308			(1)
Silica	2,848	2,848			
Sulphur and pyrites	94,155				94,155
Talc and soapstone	62,985	62,985			

[1] Not called for on schedule.

TABLE 3.—BY-PRODUCTS: 1929

BY-PRODUCT	Value	BY-PRODUCT	Value	BY-PRODUCT	Value
Total	$12,350,821	Limestone	$561,693	Sand and gravel	$2,373,861
Mineral by-products, total	5,111,207	Manganese	515,925	Sandstone	29,623
Barite	480	Marble	6,968	Silica	36,556
Clay	184,805	Mica	28,702	Other minerals	5,990
Coal	2,742	Mineral pigments	58,701		
Feldspar	6,249	Miscellaneous stone	252,988	Miscellaneous and unspecified products	1,560,892
Granite	7,943	Platinum	7,376		
Iron	9,912	Pulpstones and grindstones	50,948	Custom milling	2,612,266
Lead	34,175	Pyrites	284,753		
Lime	78,796	Sand, glass	215,627	Power sold and work or miscellaneous services for other enterprises	3,066,456
		Sand, molding	356,394		

Nonproducing mines and quarries (Table 4).—Although of minor importance, the data relating to nonproducing enterprises are necessarily included in a complete canvass of mining activities, but a distinction between nonproducing and producing enterprises and a separate presentation of data relating to them is necessary to preserve the proper balance between the various items reported, and especially to keep the figures in regard to production in proper relation to figures on various factors of operation, such as the number of persons employed, expenses of operation, etc. While every effort was made to get returns for all nonproducing enterprises, there were, nevertheless, a number of cases in which contact with operators was not effected, either by mail or by field canvass, due to isolated location, intermittent activity, or other causes. The figures do not include data for those enterprises which, although primarily engaged in development work, reported products valued at more than $2,500, as these are classed as producing enterprises, statistics for which include data for production as well as development.

The number of wage earners employed in nonproducing enterprises in 1929 was equal to only seven-tenths of 1 per cent of the number employed in producing enterprises, while the expenditures for development work by these enterprises was equal to 17.2 per cent of the corresponding expenditures of producing enterprises and less than eight-tenths of 1 per cent of the aggregate of "Principal expenses" reported for producing enterprises. The metal-mining industries accounted for 87.4 per cent of the total amount reported spent for development work by nonproducing enterprises in 1929, while the iron-ore and coal industries accounted for only 2.6 and 2.1 per cent, respectively. The statistics for nonproducing enterprises are included only in this table and in Tables 28, 29, and 32.

TABLE 4.—SUMMARY FOR NONPRODUCING ENTERPRISES, FOR THE UNITED STATES: 1929

[Data for nonproducing enterprises are given only in this table and in Tables 28, 29, and 32]

	1929	1919	Per cent of increase or decrease (−)
Number of enterprises	861	561	53.5
Number of mines and quarries	904	573	57.8
Persons engaged, total	6,532	6,301	3.7
Proprietors and firm members	32	141	−77.3
Salaried officers and employees	698	990	−29.5
Wage earners (average for the year)	5,802	5,170	12.2
Power equipment, total horsepower	69,620	57,146	21.8
Principal expenses, total	$14,776,237	$17,932,895	−17.6
Salaries	1,384,118	1,533,110	−9.7
Wages	7,905,459	7,597,193	4.1
Supplies and materials	3,985,665	6,228,856	−36.0
Fuel	218,130	695,483	−68.6
Purchased electric energy	425,600	457,832	−7.0
Contract work	857,265	1,420,421	−39.6
Expenditures for development (included above in "Principal expenses")	13,158,491	17,052,836	−22.8

Rank of industries and States according to value of products (Tables 5, 6, and 7).—The coal industries contributed 56.5 per cent of the total value of products for 1929. These, together with the next three in importance—copper, iron-ore, and limestone industries—contributed 81.4 per cent of the total and employed 87.7 per cent of the total number of wage earners (average for the year). Table 6 shows industries ranked according to value of products for 1929, with comparative figures for value of products for 1919 and 1909. Table 7 shows similar statistics for States.

TABLE 5.—PRINCIPAL INDUSTRIES RANKED IN ORDER OF VALUE OF PRODUCTS: 1929

INDUSTRY	Number of enterprises	Number of mines and quarries	Wage earners (average for the year)	Wages	VALUE OF PRODUCTS	
					Amount	Per cent of total
All industries, total	10,135	11,602	806,418	$1,091,989,848	$2,392,831,178	100.0
Coal, total	5,174	5,923	601,533	804,767,131	1,351,548,071	56.5
Anthracite (Pa.)	198	303	142,801	229,967,059	384,854,300	16.1
Bituminous	4,976	5,620	458,732	574,800,072	966,693,771	40.4
Copper	143	180	44,502	73,199,785	283,517,373	11.8
Iron ore	180	208	28,516	40,905,190	197,334,548	8.2
Limestone	1,167	1,256	32,300	39,188,364	117,257,784	4.9
Sand and gravel	957	1,165	15,994	22,779,984	102,311,914	4.3
Lead	155	171	14,007	22,917,435	67,561,778	2.8
Zinc	148	204	11,900	16,274,389	44,866,026	1.9
Sulphur and pyrites	9	10	2,199	3,482,606	37,126,148	1.6
Granite	406	434	10,037	12,639,524	30,381,373	1.3
Gold, lode	174	184	5,353	8,655,505	17,650,174	0.7
Gold, placer	32	37	578	970,010	3,779,241	0.2
Basalt	137	144	3,053	4,498,093	15,543,687	0.6
Phosphate rock	26	33	3,201	$3,303,940	$13,043,769	0.5
Clay	199	236	4,139	3,757,998	10,753,445	0.4
Slate	120	130	4,098	4,884,038	10,486,390	0.4
Stone, miscellaneous	204	234	1,841	2,405,906	8,475,008	0.4
Silver	67	74	2,593	4,326,719	8,457,263	0.4
Marble	70	88	3,350	3,291,541	7,538,905	0.3
Minor metals [1]	26	30	1,244	1,506,851	6,649,976	0.3
Sandstone	145	172	2,156	2,626,437	6,311,977	0.3
Gypsum	60	63	2,078	2,627,733	5,740,188	0.2
Sand, glass	25	32	1,030	1,313,503	5,359,216	0.2
Asphalt and bituminous rock	21	25	1,123	1,254,835	5,123,836	0.2
Fuller's and filtering earths	22	24	991	853,228	4,811,629	0.2
Sand, molding	90	128	1,037	1,290,854	4,775,957	0.2
Silica [2]	70	73	1,433	1,677,407	4,645,142	0.2
Other industries [3]	308	344	6,132	6,590,892	21,780,360	0.9

[1] Bauxite, 9 enterprises; molybdenum, 2; titanium, 1; tungsten, 12; vanadium, 2.
[2] Diatomaceous earth, 10 enterprises; ganister, 18; quartz, 9; quartzite, 2; silica rock, 6; silica sand, 14; siliceous mica schist, 3; tripoli, 8.
[3] Abrasive materials, 30 enterprises; asbestos, 11; barite, 42; feldspar, 51; fluorspar, 28; magnesite, 5; manganese, 19; mercury, 40; mica, 24; millstones and pulpstones, 14; talc and soapstone, 25; miscellaneous minerals, 19.

TABLE 6.—SUMMARY FOR VALUE OF PRODUCTS, BY INDUSTRIES: 1929, 1919, AND 1909

[Industries are ranked in order of value of products for 1929. See GENERAL EXPLANATIONS—Scope of the Census. Figures for the anthracite industry for 1909 include data for 3 enterprises in Colorado and New Mexico, classified as anthracite at the census of 1909 but included in the bituminous-coal industry for 1919 and 1929]

INDUSTRY	1929	1919	1909	PER CENT OF INCREASE OR DECREASE (—)	
				1919–1929	1909–1919
Coal, total	$1,351,548,071	$1,510,061,707	$577,142,935	—10.5	161.6
Anthracite (Pa.)	384,854,300	364,084,142	149,180,471	5.7	144.1
Bituminous	966,693,771	1,145,977,565	427,962,464	—15.6	167.8
Copper	283,517,373	181,258,087	134,616,987	56.4	34.6
Iron ore	197,334,548	218,217,905	106,947,082	—9.6	104.0
Limestone	117,257,784	52,943,924	29,832,492	121.5	77.5
Sand and gravel	102,311,914	(1)	(1)	------	------
Lead	67,561,778	[2] 75,570,347	[2] 31,363,094	48.8	141.0
Zinc	44,866,026				
Sulphur and pyrites	37,126,148	20,344,530	5,109,050	82.5	298.2
Granite	30,381,373	18,279,345	18,997,976	66.2	—3.8
Gold, lode	17,650,174	[3] 58,832,330	[3] 83,885,928	------	------
Basalt	15,543,687	9,657,977	5,578,317	60.9	73.1
Phosphate rock	13,043,769	10,300,198	10,781,192	26.6	—4.5
Clay	10,753,445	10,086,298	2,945,948	6.6	242.4
Slate	10,486,390	5,720,792	6,054,174	83.3	—5.5
Stone, miscellaneous	8,475,008	(4)	(4)	------	------
Silver	8,457,263	(5)	(5)	------	------
Marble	7,538,905	4,397,912	6,239,120	71.4	—29.5
Minor metals [6]	6,649,976	3,915,921	1,639,067	69.8	138.9
Sandstone [7]	$6,311,977	$10,084,969	$9,290,829	—40.9	15.0
Gypsum	5,740,188	6,805,940	5,812,810	—15.7	17.1
Sand, glass	[8] 5,359,216	(1)	(1)	------	------
Asphalt and bituminous rock	5,123,836	749,520	460,461	583.6	60.7
Fuller's and filtering earths	4,811,629	2,019,226	315,762	138.3	530.5
Sand, molding	[9] 4,775,957	(1)	(1)	------	------
Silica [10]	[11] 4,645,142	371,638	231,025	1,149.9	60.9
Gold, placer	3,779,241	9,368,561	10,237,252	—59.7	—8.5
Miscellaneous minerals [12]	3,502,876	1,350,171	495,145	159.4	172.7
Fluorspar	2,858,344	3,334,880	288,509	—14.3	1,055.9
Mercury	2,820,166	1,803,484	868,458	56.4	107.7
Talc and soapstone	2,687,953	2,302,393	1,174,516	16.7	96.0
Magnesite	2,043,905	2,169,571	68,463	—5.8	3,069.0
Feldspar	1,935,335	584,296	271,437	231.2	115.3
Barite	1,801,314	1,592,245	224,766	13.1	608.4
Abrasive materials [13]	1,411,284	721,728	911,586	95.5	—20.8
Manganese	1,184,561	2,188,312	31,216	—45.9	6,910.2
Millstones and pulpstones	620,835	64,631	34,441	860.6	87.7
Mica	516,305	607,025	206,794	—14.9	193.5
Asbestos	397,482	249,839	65,140	59.1	283.5

[1] Not canvassed prior to 1929.
[2] Figures for the lead and zinc industries not shown separately in reports for 1919 and 1909.
[3] Includes figures for the silver-mining industry, not shown separately in reports for 1919 and 1909.
[4] Included in the figures for the other stone industries (principally basalt and sandstone).
[5] Included with figures for the gold-mining (lode) industry.
[6] Bauxite, molybdenum, titanium, tungsten, vanadium.
[7] Including for 1919 and 1909, but excluding for 1929, data for quarrying enterprises whose final product (glass sand, molding sand, or silica material) was derived from sandstone, siliceous mica schist (for use as ganister), etc. The data for these enterprises are included in the glass-sand, molding-sand, or silica industries for 1929.
[8] Data for enterprises producing glass sand from quarried sandstone included for 1929, while similar data were included in statistics for the sandstone industry for 1919 and 1909.
[9] Data for enterprises producing molding sand from quarried sandstone included for 1929, while similar data were included in statistics for the sandstone industry for 1919 and 1909.
[10] Diatomaceous earth, ganister, quartz, quartzite, silica rock, silica sand, siliceous mica schist, tripoli.
[11] Data for enterprises producing diatomaceous earth, siliceous mica schist (for use as ganister), and silica sand from quarried sandstone included for 1929, while similar data were included in statistics for abrasive materials or sandstone industries in 1919 and 1909.
[12] Borates, cyanite, graphite, lithium minerals (amblygonite, lepidolite, and spodumene), mineral pigments, tantalum, vermiculite.
[13] Emery; garnet and industrial sapphires and diamonds; grinding pebbles and tube-mill lining; grindstones, oilstones, whetstones, scythestones, and rubbing stones; pumice and volcanic ash (pumicite).

TABLE 7.—SUMMARY FOR VALUE OF PRODUCTS, BY STATES: 1929, 1919, AND 1909

[The figures for 1929, 1919, and 1909 have been adjusted to make them comparable. See footnotes 1, 2, and 3]

STATE	1929		1919 [2]	1909 [3]	PER CENT OF INCREASE OR DECREASE (—)	
	All industries	Revised (for comparative purposes) [1]			1919-1929	1909-1919
Pennsylvania	$694,975,146	$683,530,842	$753,179,148	[3] $309,862,311	—9.2	143.1
West Virginia	223,930,754	222,316,885	196,088,316	48,099,802	13.4	307.7
Illinois	132,948,261	[4] 124,771,725	147,409,502	[3] 57,763,159	—15.4	155.2
Minnesota	132,400,530	130,359,063	130,399,254	58,664,852	(5)	122.3
Arizona	116,477,536	116,134,804	88,478,111	34,161,165	31.3	159.0
Kentucky	103,840,625	[1] 102,502,027	75,157,389	11,207,794	36.4	570.6
Michigan	95,261,833	87,819,194	[2] 103,870,089	[3] 67,714,479	—15.5	53.4
Utah	83,098,029	82,843,031	41,510,802	[3] 22,083,282	99.6	88.0
Montana	65,182,707	64,773,509	49,665,675	[3] 54,991,961	30.4	—9.7
Ohio	60,095,705	51,757,468	89,034,980	34,146,153	—41.9	160.7
Alabama	54,665,658	53,362,904	59,866,040	24,350,667	—10.9	145.8
Texas	49,758,382	44,333,518	17,040,696	4,350,837	160.2	291.7
Indiana	48,992,786	44,297,266	50,235,857	[3] 18,709,582	—11.8	168.5
Missouri	47,276,257	[4] 43,479,216	33,365,694	31,656,070	30.3	5.4
Colorado	41,530,446	41,205,031	51,063,444	45,362,455	—19.3	12.6
California	38,645,889	[1] 30,638,618	24,751,580	33,961,780	23.8	—27.1
New York	36,045,204	24,272,177	15,230,199	10,665,979	59.4	42.8
Oklahoma	33,139,080	[1] 31,559,649	34,430,282	7,952,800	—8.3	332.9
Virginia	29,540,524	[4] 28,705,823	29,363,449	8,795,646	—2.2	233.8
New Mexico	27,141,764	[1] 27,141,764	[2] 18,872,560	[3] 5,587,744	43.8	237.7
Nevada	26,658,631	26,494,536	18,053,984	23,249,001	46.8	—22.3
Tennessee	24,186,449	22,049,925	[2] 23,292,114	[3] 12,692,547	—5.3	83.5
Kansas	22,463,509	20,688,495	21,823,046	12,040,854	—5.2	81.2
Idaho	20,745,615	[1] 20,745,615	11,840,301	8,649,342	75.2	36.9
Wyoming	18,817,045	[1] 18,817,045	19,968,851	10,553,259	—5.8	89.2
Iowa	16,910,280	14,648,383	18,473,558	[3] 13,877,781	—20.7	33.1
New Jersey	15,789,610	[4] 11,100,362	9,308,902	[3] 8,347,501	19.2	11.5
Florida	14,014,933	13,524,552	8,976,413	8,846,605	50.7	1.5
Washington	13,366,919	12,270,803	13,329,129	10,537,556	—7.9	26.5
Wisconsin	13,163,414	[1] 10,401,057	10,580,833	7,459,404	—1.7	41.8
Arkansas	11,367,754	9,795,695	7,782,703	[3] 4,477,445	25.9	73.8
Maryland	11,122,195	7,341,258	9,698,577	5,782,045	—24.3	67.7
Massachusetts	10,387,014	8,570,533	4,175,699	3,467,888	105.2	20.4
Vermont	10,275,907	[1] 10,275,907	8,555,030	8,221,323	20.1	4.1
Georgia	9,611,219	9,439,132	4,082,152	2,874,595	131.2	42.0
North Carolina	5,081,239	5,631,316	2,736,543	1,358,617	105.8	101.4
Connecticut	4,193,403	3,810,102	1,649,003	1,375,765	131.1	19.9
Oregon	3,512,125	2,410,038	1,884,871	1,191,512	27.9	58.2
Maine	3,468,040	[1] 3,468,040	1,823,442	[3] 2,056,063	90.2	—11.3
South Carolina	3,092,967	[1] 3,092,967	1,350,747	1,252,792	129.0	7.8
Nebraska	2,139,767	459,628	292,766	322,517	57.0	—9.2
New Hampshire	1,562,387	[1] 1,562,387	1,568,195	1,308,597	—0.4	19.8
Rhode Island	809,381	[1] 809,381	952,204	897,606	—15.0	6.1
GROUPS OF STATES						
North Dakota and South Dakota	10,827,367	10,526,518	[2] 7,241,820	[3] 6,997,229	45.4	3.5
Louisiana, Mississippi, Delaware, and District of Columbia	3,407,892	487,585	8,259,724	4,885,277	—94.1	69.1

[1] Figures for 1929 have been revised by the omission of data for the sand and gravel, glass-sand, and molding-sand industries wherever possible to do so without disclosing data reported by individual enterprises. However, the data for these industries are included for 12 States, which together reported a value of products of only $1,198,977 for these industries. Also, data for the production of sand derived from quarried sandstone are included in the figures for 1929 (except as indicated in footnote 4) as similar production also fell within the scope of the censuses for earlier years.

[2] Figures for 1919 have been revised by the omission of data for petroleum and natural gas industries, wherever possible to do so. However, data for these industries are included for 4 States, which together reported a value of products of only $43,131 for these industries.

[3] Figures for 1909 have been revised by the omission of data for petroleum and natural gas, peat, and precious stones industries wherever possible to do so. However, data for these industries are included for 14 States, which together reported a value of products of only $242,572 for these industries.

[4] Not including data for sand derived from quarried sandstone. (See footnote 1.)

[5] Less than one-tenth of 1 per cent.

GEOGRAPHIC DISTRIBUTION

Distribution of mining and quarrying enterprises by geographic divisions; and condensed summary for industries, by States: 1929 (Tables 8 and 9).—The prominence of the Middle Atlantic division in mineral production is due wholly to the State of Pennsylvania, which, as shown in Table 7, with products (mainly coal) valued at nearly $700,000,000, reported 29 per cent of the total value of mineral products (exclusive of petroleum and natural gas) in the United States. The principal statistics, by States, are given in Table 25, for 1929, 1919, and 1909.

TABLE 8.—CONDENSED SUMMARY, BY GEOGRAPHIC DIVISIONS: 1929

DIVISION	Number of enterprises	Number of mines and quarries	Wage earners (average for the year)	Wages	VALUE OF PRODUCTS	
					Amount	Per cent of total
United States, total	10,135	11,602	806,418	$1,091,989,848	$2,392,831,178	100.0
New England [1]	354	395	8,384	12,240,882	30,696,132	1.3
Middle Atlantic [2]	2,192	2,632	286,554	419,387,609	746,809,960	31.2
East North Central [3]	2,038	2,230	120,857	161,541,238	350,461,999	14.6
West North Central [4]	1,233	1,352	42,323	56,663,926	232,017,710	9.7
South Atlantic [5]	1,343	1,559	132,130	$158,008,349	$297,561,931	12.4
East South Central [6]	946	1,088	102,004	104,871,457	183,593,574	7.7
West South Central [7]	496	596	22,382	26,683,703	96,513,166	4.0
Mountain [8]	1,001	1,123	79,142	133,081,515	399,651,773	16.7
Pacific [9]	532	627	12,642	19,511,169	55,524,933	2.3

[1] Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut.
[2] New York, New Jersey, Pennsylvania.
[3] Ohio, Indiana, Illinois, Michigan, Wisconsin.
[4] Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, Kansas.
[5] Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida.
[6] Kentucky, Tennessee, Alabama, Mississippi.
[7] Arkansas, Louisiana, Oklahoma, Texas.
[8] Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada.
[9] Washington, Oregon, California.

TABLE 9.—CONDENSED SUMMARY FOR LEADING INDUSTRIES AND STATES, RANKED BY VALUE OF PRODUCTS: 1929

INDUSTRY AND STATE	Number of enterprises	Number of mines and quarries	Wage earners (average for the year)	Wages	VALUE OF PRODUCTS	
					Amount	Per cent of total
Coal:						
Anthracite, total	198	303	142,801	$229,967,059	$384,854,300	100.0
Pennsylvania	198	303	142,801	229,967,059	384,854,300	100.0
Bituminous, total	4,976	5,020	458,732	574,800,072	966,693,771	100.0
Pennsylvania	1,151	1,387	121,000	157,730,207	262,456,657	27.1
West Virginia	686	830	99,217	126,350,696	217,022,962	22.5
Illinois	384	401	49,817	68,922,106	114,617,799	11.9
Kentucky	434	500	54,904	60,155,095	95,647,618	9.9
Alabama	157	180	24,781	23,666,802	38,564,531	4.0
Ohio	536	561	21,739	24,446,839	36,916,271	3.8
Indiana	222	235	12,860	18,101,859	31,501,936	3.3
Colorado	173	176	10,420	15,700,860	26,553,407	2.7
Virginia	75	88	11,956	11,846,453	21,162,036	2.2
Wyoming	35	50	4,693	8,716,950	17,118,580	1.8
Utah	36	40	3,452	6,635,673	13,145,832	1.4
Iowa	167	172	5,942	7,820,575	11,832,816	1.2
Oklahoma	97	113	4,716	5,392,491	10,789,776	1.1
Copper, total	143	180	44,502	73,199,785	283,517,373	100.0
Arizona	63	68	15,564	26,947,217	113,980,541	40.2
Montana	7	26	10,508	18,731,854	50,154,473	17.7
Utah	9	10	3,160	5,455,417	46,227,987	16.3
Michigan	9	18	7,834	9,838,442	29,683,859	10.5
Nevada	13	13	2,668	4,885,398	19,984,910	7.0
New Mexico	14	14	2,258	3,400,479	13,293,420	4.7
Iron ore, total	180	208	28,516	40,905,190	197,334,548	100.0
Minnesota	75	85	10,078	16,038,428	125,333,930	63.5
Michigan	49	57	8,894	13,049,659	43,194,938	21.9
Alabama	13	18	5,336	5,637,402	11,777,914	6.0
Pennsylvania	4	5	680	958,847	4,515,586	2.3
Wisconsin	3	3	948	1,405,166	4,394,869	2.2
Limestone, total	1,167	1,256	32,300	39,188,364	117,257,784	100.0
Pennsylvania	201	213	6,048	7,783,473	19,124,040	16.3
Indiana	91	116	2,881	4,032,335	12,247,196	10.4
Ohio	110	114	2,660	3,406,676	12,091,065	10.3
New York	69	73	1,998	3,111,408	11,389,087	9.7
Michigan	14	16	1,566	2,308,116	11,059,922	9.4
Illinois	53	55	1,649	2,105,707	7,830,131	6.7
Missouri	73	79	2,350	2,433,447	6,175,012	5.3
Sand and gravel, total	957	1,165	15,994	22,779,984	102,311,914	100.0
New York	62	69	1,330	2,437,299	11,304,630	11.0
Pennsylvania	46	54	1,208	1,821,815	11,002,656	10.8
California	68	96	1,153	1,843,622	7,800,188	7.6
Michigan	57	68	1,022	1,468,293	7,030,380	6.9
Ohio	73	84	1,103	1,787,498	6,803,579	6.7
Illinois	61	62	860	1,399,045	5,576,819	5.5
Texas	41	55	1,354	1,458,700	5,424,864	5.3
Lead, total	155	171	14,007	22,917,435	67,561,778	100.0
Missouri	13	15	3,773	5,909,659	22,955,417	34.0
Idaho	28	32	3,189	5,787,889	17,400,861	25.8
Utah	29	34	4,083	6,691,787	17,249,862	25.5
Zinc, total	148	204	11,900	16,274,339	44,866,026	100.0
Oklahoma	57	87	4,117	5,509,272	16,518,953	36.8
Kansas	30	45	2,428	3,140,236	9,912,331	22.1
New Mexico	8	9	1,036	1,429,239	4,046,072	9.0
Sulphur and pyrites, total	9	10	2,199	3,482,606	37,126,148	100.0
Granite, total	406	434	10,037	$12,030,524	$30,381,373	100.0
Massachusetts	38	39	1,554	2,624,198	5,394,350	17.8
Vermont	24	25	952	1,393,739	3,892,352	12.8
Minnesota	25	37	923	1,230,398	3,617,033	11.9
North Carolina	67	67	1,396	1,298,397	3,213,624	10.6
Georgia	28	30	1,265	1,033,884	2,201,313	7.2
Maine	30	30	881	1,188,248	2,155,640	7.1
Gold, lode, total	174	184	5,353	8,655,505	17,650,174	100.0
South Dakota	2	2	1,304	2,269,107	6,591,144	37.3
Colorado	44	53	1,497	2,418,321	4,057,060	23.0
California	58	58	1,627	2,483,593	3,940,925	22.3
Nevada	31	32	363	580,196	1,568,698	8.9
Gold, placer, total	32	37	578	970,010	3,779,241	100.0
California	22	27	491	839,212	3,469,595	91.8
Basalt, total	137	144	3,053	4,498,093	15,543,687	100.0
New Jersey	26	27	633	1,104,036	3,580,184	23.0
Connecticut	19	19	420	722,983	2,924,085	18.8
Pennsylvania	20	22	566	716,609	2,236,438	14.4
Massachusetts	14	16	366	618,783	2,191,366	14.1
Phosphate rock, total	26	33	3,201	3,303,940	13,043,769	100.0
Florida	11	18	1,936	2,180,750	9,714,645	74.5
Tennessee	12	12	1,189	1,010,322	3,128,760	24.0
Clay, total	199	236	4,139	3,757,998	10,753,445	100.0
Georgia	9	11	797	589,349	2,161,812	20.1
Pennsylvania	31	34	555	575,992	1,216,882	11.3
South Carolina	9	10	514	336,500	950,187	8.8
Missouri	21	29	314	320,512	916,532	8.5
New Jersey	17	19	328	371,311	801,528	7.5
Kentucky	9	11	210	153,112	691,682	6.4
Slate, total	120	130	4,098	4,884,038	10,486,390	100.0
Pennsylvania	33	33	1,951	2,352,559	4,330,001	41.3
Vermont	58	67	1,303	1,701,192	3,653,796	34.8
Stone, miscellaneous, total	204	234	1,841	2,405,906	8,475,008	100.0
California	40	64	491	802,430	3,789,013	44.7
Missouri	19	19	267	286,938	628,763	7.4
New York	15	15	96	139,207	593,467	7.0
Pennsylvania	30	30	168	210,300	568,783	6.7
Silver, total	67	74	2,593	4,326,719	8,457,263	100.0
Utah	11	11	939	1,628,964	3,305,749	39.1
Nevada	14	14	610	1,124,830	1,863,346	22.0
Montana	12	14	292	509,840	1,030,622	12.2
Marble, total	70	88	3,350	3,291,541	7,538,905	100.0
Tennessee	13	14	1,377	1,993,582	2,287,938	30.3
Vermont	9	23	658	785,579	1,829,315	24.3
Missouri	6	8	299	335,909	752,978	10.0
Georgia	5	5	286	234,623	749,737	9.9
Alabama	3	3	358	333,544	653,940	8.7
Minor metals, total [1]	26	30	1,244	1,506,851	6,649,976	100.0
Sandstone, total	145	172	2,156	2,626,437	6,311,977	100.0
Pennsylvania	41	51	595	742,273	1,615,444	25.8
Ohio	14	17	447	520,032	1,186,128	18.5
California	14	15	164	256,562	787,680	12.8
New York	30	41	276	348,660	680,875	10.6

[1] Bauxite, 9 enterprises; molybdenum, 2; titanium, 1; tungsten, 12; vanadium, 2.

TYPE OF OWNERSHIP

Corporations operated 66 per cent of the total number of mines and quarries, employed 94.7 per cent of the wage earners, and produced 95.7 per cent of the total value of products, as reported for the census for 1929. "Other" forms of organization include partnerships, enterprises operated by individuals, cooperative enterprises, etc.

TABLE 10.—CONDENSED SUMMARY FOR ENTERPRISES CLASSIFIED ACCORDING TO TYPE OF OWNERSHIP, FOR SELECTED INDUSTRIES: 1929

INDUSTRY AND TYPE OF OWNERSHIP	Number of enterprises	Number of mines and quarries	Wage earners (average for the year)	Value of products
All industries, total	10,135	11,602	806,418	$2,392,831,178
Corporate	6,387	7,656	763,615	2,289,211,879
Other [1]	3,748	3,946	42,803	103,619,299
Coal, anthracite, total	198	303	142,801	384,854,300
Corporate	142	246	139,033	373,371,684
Other [1]	56	57	3,768	11,482,616
Coal, bituminous, total	4,976	5,620	458,732	966,693,771
Corporate	2,934	3,542	435,811	927,763,746
Other [1]	2,042	2,078	22,921	38,930,025
Copper, total	143	180	44,502	283,517,373
Corporate	92	128	44,047	282,226,806
Other [1]	51	52	455	1,290,567
Iron ore, total	180	208	28,516	197,334,548
Corporate	169	197	28,411	196,993,288
Other [1]	11	11	105	341,260
Limestone, total	1,167	1,256	32,300	117,257,784
Corporate	746	805	27,692	104,969,760
Other [1]	421	451	4,608	12,288,024
Sand and gravel, total	957	1,165	15,994	102,311,914
Corporate	738	913	14,147	91,673,784
Other [1]	219	252	1,847	10,638,130
Lead, total	155	171	14,007	67,561,778
Corporate	112	127	13,671	66,817,826
Other [1]	43	44	336	743,952
Zinc, total	148	204	11,900	44,866,026
Corporate	118	162	10,636	39,286,478
Other [1]	30	42	1,264	5,579,548
Granite, total	406	434	10,037	30,381,373
Corporate	203	223	8,371	25,901,847
Other [1]	203	211	1,666	4,479,526
Gold, lode, total	174	184	5,353	$17,650,174
Corporate	113	122	4,900	16,461,007
Other [1]	61	62	453	1,189,167
Basalt, total	137	144	3,053	15,543,687
Corporate	89	96	2,620	13,786,397
Other [1]	48	48	433	1,757,290
Clay, total	199	236	4,139	10,753,445
Corporate	122	136	3,349	8,392,460
Other [1]	77	100	790	2,360,985
Slate, total	120	130	4,098	10,486,390
Corporate	70	74	3,374	8,850,940
Other [1]	50	56	724	1,635,450
Stone, miscellaneous, total	204	234	1,841	8,475,008
Corporate	60	87	971	5,948,302
Other [1]	144	147	870	2,526,706
Silver, total	67	74	2,593	8,457,263
Corporate	47	52	2,332	7,313,286
Other [1]	20	22	261	1,143,977
Marble, total	70	88	3,350	7,538,905
Corporate	61	79	3,301	7,380,787
Other [1]	9	9	49	158,118
Sandstone, total	145	172	2,156	6,311,977
Corporate	74	90	1,574	4,642,894
Other [1]	71	82	582	1,669,083
Gold, placer, total	32	37	578	3,779,241
Corporate	20	25	508	3,606,157
Other [1]	12	12	70	173,084

[1] Partnerships, enterprises operated by individuals, etc.

SCALE OF OPERATION

Enterprises classified according to value of products (Table 11).—Only 416 enterprises, or 4.1 per cent of the total number (10,135), reported a value of products of $1,000,000 or more. These large enterprises contributed 56.9 per cent of the total value of products, and employed 46.4 per cent of the total number of wage earners. Conversely, the 6,975 enterprises in the smallest three groups shown, or 68.8 per cent of the total number, contributed only 7.8 per cent of the total value of products.

TABLE 11.—CONDENSED SUMMARY FOR ENTERPRISES CLASSIFIED ACCORDING TO VALUE OF PRODUCTS, FOR SELECTED INDUSTRIES: 1929

INDUSTRY AND VALUE OF PRODUCTS PER ENTERPRISE	Number of enterprises	Number of mines and quarries	Wage earners (average for the year)	Wages	VALUE OF PRODUCTS	
					Amount	Per cent of total
All industries, total	10,135	11,602	806,418	$1,091,989,848	$2,392,831,178	100.0
Less than $20,000	3,818	3,887	20,431	21,405,312	33,594,873	1.4
$20,000 to $49,999	1,845	1,999	30,048	30,353,397	60,981,582	2.5
$50,000 to $99,999	1,312	1,457	42,313	44,484,811	93,853,584	3.9
$100,000 to $249,999	1,488	1,723	100,358	113,686,814	234,741,671	9.8
$250,000 to $499,999	773	942	112,096	137,198,457	274,404,008	11.5
$500,000 to $999,999	483	684	127,052	169,296,968	333,499,994	13.9
$1,000,000 to $2,499,999	303	524	147,583	214,432,477	446,653,514	18.7
$2,500,000 to $4,999,999	58	144	56,855	86,287,192	199,542,138	8.3
$5,000,000 and over	55	242	169,682	274,844,420	715,556,814	29.9
Coal:						
Anthracite, total	198	303	142,801	229,967,059	384,854,300	100.0
Less than $20,000	35	35	179	171,501	324,648	0.1
$20,000 to $49,999	19	19	335	441,267	578,068	0.2
$50,000 to $99,999	13	13	435	567,639	938,727	0.2
$100,000 to $249,999	23	26	1,648	2,343,922	3,709,836	1.0
$250,000 to $499,999	23	23	3,610	4,991,469	8,658,153	2.2
$500,000 to $999,999	18	19	4,410	7,015,869	12,863,185	3.3
$1,000,000 to $2,499,999	40	42	25,028	40,135,554	70,551,092	18.3
$2,500,000 to $4,999,999	12	20	14,334	23,964,780	40,042,183	10.4
$5,000,000 and over	15	106	92,822	150,335,058	247,188,408	64.2
Bituminous, total	4,976	5,620	458,732	574,800,072	966,693,771	100.0
Less than $20,000	2,156	2,156	11,621	11,781,796	17,742,149	1.8
$20,000 to $49,999	669	706	16,190	14,247,103	21,963,554	2.3
$50,000 to $99,999	508	552	24,854	23,739,027	36,607,917	3.8
$100,000 to $249,999	685	784	66,738	71,193,246	111,890,222	11.6
$250,000 to $499,999	442	522	81,572	96,482,553	158,899,282	16.4
$500,000 to $999,999	322	453	100,800	131,266,263	221,279,398	22.9
$1,000,000 to $2,499,999	165	287	96,502	135,248,665	234,002,566	24.2
$2,500,000 to $4,999,999	18	81	25,895	37,347,100	64,085,538	6.6
$5,000,000 and over	11	79	34,560	53,493,719	100,223,145	10.4
Copper, total	143	180	44,502	73,199,785	283,517,373	100.0
Less than $20,000	57	57	403	452,102	465,918	0.2
$20,000 to $49,999	22	24	474	648,730	735,207	0.3
$50,000 to $99,999	10	12	338	378,786	756,757	0.3
$100,000 to $249,999	9	10	484	702,037	1,379,693	0.5
$250,000 to $499,999	9	11	1,176	1,890,067	3,400,836	1.2
$500,000 to $999,999	10	14	2,746	3,996,369	6,842,912	2.4
$1,000,000 to $2,499,999	5	7	1,859	3,007,936	9,401,716	3.3
$2,500,000 to $4,999,999	4	5	2,956	4,800,154	12,155,149	4.3
$5,000,000 and over	17	40	34,066	57,323,604	248,379,185	87.6
Iron ore, total	180	208	28,516	40,905,190	197,334,548	100.0
Less than $20,000	10	10	57	95,065	92,563	(1)
$20,000 to $49,999	11	12	203	195,926	368,552	0.2
$50,000 to $99,999	7	7	192	227,958	531,821	0.3
$100,000 to $249,999	21	25	1,172	1,552,671	3,270,952	1.7
$250,000 to $499,999	33	35	3,169	4,017,324	12,320,466	6.2
$500,000 to $999,999	41	48	5,589	8,393,527	29,341,065	14.9
$1,000,000 to $2,499,999	42	53	9,997	14,848,799	62,046,641	31.4
$2,500,000 to $4,999,999	11	14	[2] 8,137	11,573,920	89,362,488	45.3
$5,000,000 and over	4	4				
Limestone, total	1,167	1,256	32,300	39,188,364	117,257,784	100.0
Less than $20,000	407	416	2,249	2,090,620	4,288,766	3.7
$20,000 to $49,999	259	278	3,691	3,592,232	8,460,551	7.2
$50,000 to $99,999	183	197	4,814	5,388,431	13,216,838	11.3
$100,000 to $249,999	219	243	9,831	11,460,333	33,778,161	28.8
$250,000 to $499,999	71	82	5,850	7,756,768	24,258,021	20.7
$500,000 to $999,999	18	22	3,096	4,393,018	13,363,726	11.4
$1,000,000 to $2,499,999	8	10	[2] 2,769	4,506,962	19,891,721	17.0
$2,500,000 to $4,999,999	1	7				
$5,000,000 and over	1	1				
Sand and gravel, total	957	1,165	15,994	22,779,984	102,311,914	100.0
Less than $20,000	71	76	205	346,297	1,093,090	1.1
$20,000 to $49,999	352	388	2,322	3,165,266	12,026,652	11.8
$50,000 to $99,999	263	311	3,210	4,455,646	18,546,320	18.1
$100,000 to $249,999	206	264	5,210	7,472,170	30,943,299	30.2
$250,000 to $499,999	42	73	2,220	3,041,719	14,263,365	13.9
$500,000 to $999,999	15	23	1,514	2,207,209	10,753,091	10.5
$1,000,000 to $2,499,999	6	24	[2] 1,223	2,091,677	14,686,097	14.4
$2,500,000 to $4,999,999	2	6				
Lead, total	155	171	14,007	22,917,435	67,561,778	100.0
Less than $20,000	64	70	442	588,369	464,998	0.7
$20,000 to $49,999	27	28	485	647,294	850,638	1.3
$50,000 to $99,999	9	9	266	347,323	691,231	1.0
$100,000 to $249,999	12	12	497	828,686	1,955,565	2.9
$250,000 to $499,999	21	24	2,007	2,976,673	7,374,022	10.9
$500,000 to $999,999	6	6	1,125	1,799,450	4,062,766	6.0
$1,000,000 to $2,499,999	7	9	2,622	4,609,350	10,286,131	15.2
$2,500,000 to $4,999,999	6	6	[2] 6,563	11,120,290	41,876,427	62.0
$5,000,000 and over	3	7				

INDUSTRY AND VALUE OF PRODUCTS PER ENTERPRISE	Number of enterprises	Number of mines and quarries	Wage earners (average for the year)	Wages	VALUE OF PRODUCTS	
					Amount	Per cent of total
Zinc, total	148	204	11,900	$16,274,339	$44,866,026	100.0
Less than $20,000	24	27	139	143,453	198,815	0.4
$20,000 to $49,999	21	21	207	387,368	752,159	1.7
$50,000 to $99,999	14	14	455	544,717	1,001,317	2.2
$100,000 to $249,999	38	43	1,840	2,405,846	6,313,994	14.1
$250,000 to $499,999	25	33	1,902	2,568,331	8,264,040	18.4
$500,000 to $999,999	17	29	2,543	3,357,155	10,675,909	23.8
$1,000,000 to $2,499,999	7	34	[2] 4,724	6,867,469	17,659,792	39.4
$2,500,000 to $4,999,999	2	3				
Granite, total	406	434	10,037	12,639,524	30,381,373	100.0
Less than $20,000	196	199	803	848,821	1,738,360	5.7
$20,000 to $49,999	69	76	879	963,279	2,101,746	6.9
$50,000 to $99,999	61	68	1,730	2,014,050	4,317,255	14.2
$100,000 to $249,999	54	61	2,836	3,424,649	8,320,902	27.4
$250,000 to $499,999	15	18	1,402	1,964,104	5,001,725	16.5
$500,000 to $999,999	7	7	1,014	1,653,899	4,050,827	13.3
$1,000,000 to $2,499,999	4	5	1,373	1,770,722	4,850,558	16.0
Gold, lode, total	174	184	5,353	8,655,505	17,650,174	100.0
Less than $20,000	110	113	739	954,902	865,110	4.9
$20,000 to $49,999	26	31	446	717,490	866,643	4.9
$50,000 to $99,999	12	12	307	476,845	845,124	4.8
$100,000 to $249,999	11	11	588	974,490	1,501,548	8.5
$250,000 to $499,999	11	13	1,332	2,162,228	4,246,596	24.1
$500,000 to $999,999	2	2	[2] 1,941	3,369,550	9,325,153	52.8
$1,000,000 to $2,499,999	1	1				
$5,000,000 and over	1	1				
Basalt, total	137	144	3,053	4,498,093	15,543,687	100.0
Less than $20,000	34	34	143	162,625	357,766	2.3
$20,000 to $49,999	33	34	334	467,161	1,116,850	7.2
$50,000 to $99,999	19	19	337	432,764	1,224,839	7.9
$100,000 to $249,999	36	36	1,120	1,625,517	5,374,444	34.6
$250,000 to $499,999	10	12	598	938,736	3,401,366	21.9
$500,000 to $999,999	4	8	[2] 521	871,290	4,068,372	26.2
$1,000,000 to $2,499,999	1	1				
Clay, total	199	236	4,139	3,757,998	10,753,445	100.0
Less than $20,000	91	99	463	435,708	854,348	7.9
$20,000 to $49,999	53	67	697	680,973	1,643,746	15.3
$50,000 to $99,999	29	35	787	777,609	1,993,318	18.5
$100,000 to $249,999	16	16	836	799,383	2,122,956	19.7
$250,000 to $499,999	8	10	[2] 1,356	1,064,325	4,139,077	38.5
$500,000 to $999,999	2	3				
Slate, total	120	130	4,098	4,884,038	10,486,390	100.0
Less than $20,000	41	41	212	252,731	428,336	4.1
$20,000 to $49,999	23	24	405	522,763	815,056	7.8
$50,000 to $99,999	23	23	885	962,445	1,790,816	17.1
$100,000 to $249,999	22	28	1,572	1,799,247	3,611,307	34.4
$250,000 to $499,999	10	13	[2] 1,024	1,346,852	3,840,875	36.6
$500,000 to $999,999	1	1				
Stone, miscellaneous, total	204	234	1,841	2,405,906	8,475,008	100.0
Less than $20,000	126	126	440	518,652	1,147,215	13.5
$20,000 to $49,999	46	48	472	551,397	1,505,804	17.8
$50,000 to $99,999	19	21	326	357,376	1,175,852	13.9
$100,000 to $249,999	7	9	147	252,690	1,177,146	13.9
$250,000 to $499,999	3	3	155	265,309	1,042,423	12.3
$500,000 to $999,999	2	5	[2] 295	460,482	2,426,568	28.6
$1,000,000 to $2,499,999	1	22				
Silver, total	67	74	2,593	4,326,719	8,457,263	100.0
Less than $20,000	29	30	440	705,364	229,003	2.7
$20,000 to $49,999	13	17	186	272,440	462,858	5.5
$50,000 to $99,999	8	9	237	401,190	620,671	7.3
$100,000 to $249,999	7	8	281	478,892	1,074,043	12.7
$250,000 to $499,999	4	4	381	688,180	1,330,550	15.7
$500,000 to $999,999	5	5	[2] 1,068	1,780,653	4,740,138	56.0
$1,000,000 to $2,499,999	1	1				
Marble, total	70	88	3,350	3,291,541	7,538,905	100.0
Less than $20,000	20	21	114	118,182	171,509	2.3
$20,000 to $49,999	14	14	188	179,580	462,596	6.1
$50,000 to $99,999	16	16	512	489,702	1,176,392	15.6
$100,000 to $249,999	13	16	925	908,391	2,009,779	26.7
$250,000 to $499,999	4	6	821	810,304	1,531,125	20.3
$500,000 to $999,999	3	15	790	785,382	2,187,504	29.0
Sandstone, total	145	172	2,156	2,626,437	6,311,977	100.0
Less than $20,000	68	72	348	356,481	657,931	10.4
$20,000 to $49,999	41	50	561	670,702	1,381,908	21.9
$50,000 to $99,999	20	29	458	570,807	1,410,428	22.3
$100,000 to $249,999	13	15	459	579,831	1,838,607	29.1
$250,000 to $499,999	3	6	330	448,616	1,023,103	16.2

[1] Less than one-tenth of 1 per cent.

[2] Combined to avoid disclosing, exactly or approximately, the data reported by individual enterprises.

POWER

Power equipment, stationary and mobile, by kind (Table 12).—In addition to data for power equipment by kind, the schedules used provided for its classification according to the nature of its use, whether stationary or mobile. The latter class embraces the power equipment of shovels, mine locomotives, portable cutting and loading machines, and other machinery moved from place to place in the course of operations, as contrasted with fixed installations, such as central power plants, hoisting and ventilating equipment, pumps, etc.

The data for electric motors driven by energy generated in reporting enterprises are not included in the "aggregate horsepower," as shown in this and other tables, since such inclusion would result in duplication of the figures for the horsepower of the prime movers used in driving the generators. Approximately 55 per cent of the stationary prime-mover capacity was used directly and about 45 per cent was employed in driving generators.

TABLE 12.—POWER EQUIPMENT, STATIONARY AND MOBILE—NUMBER AND RATED CAPACITY OF PRIME MOVERS, MOTORS, AND GENERATORS, BY INDUSTRIES: 1929

[Enterprises whose value of product in 1929 was less than $20,000 were permitted to report on an abbreviated schedule, which called for the total number and horsepower rating of prime movers, but not by kind. Therefore, data for prime movers of 2,720 enterprises which so reported are included with those for stationary steam engines. See Table 11 for statistics showing the relative importance of this class of enterprises]

INDUSTRY AND TYPE OF POWER EQUIPMENT	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY													Electric motors driven by energy generated by enterprises reporting		Electric generators	
	Aggregate horsepower	Prime movers									Horsepower rating of inactive prime movers [1]	Electric motors driven by purchased energy					
		Total horsepower of prime movers	Steam engines		Steam turbines		Internal-combustion engines		Water wheels and water turbines								
			Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower		Number	Horsepower	Number	Horsepower	Number	Kilowatts
All industries, total	7,514,843	2,743,025	14,144	1,737,858	794	684,878	4,421	274,208	125	46,081	203,825	123,811	4,771,818	34,024	1,352,981	1,609	736,489
Stationary	5,377,621	2,156,043	9,623	1,249,499	794	684,878	2,520	175,585	125	46,081	177,813	83,136	3,221,578	23,166	923,290	1,609	736,489
Mobile	2,137,222	586,982	4,521	488,359			1,901	98,623			26,012	40,675	1,550,240	10,858	429,691		
Coal:																	
Anthracite, total	1,041,465	618,042	3,286	455,327	282	160,424	98	2,291			28,595	6,598	423,423	9,917	464,164	139	128,395
Stationary	892,301	552,275	2,702	390,723	282	160,424	43	1,128			28,110	4,784	340,116	7,117	311,609	139	128,395
Mobile	149,074	65,767	584	64,604			55	1,163			485	1,814	83,307	2,800	152,555		
Bituminous, total	3,124,187	721,687	4,542	544,015	199	145,008	425	28,004	5	4,660	61,791	66,581	2,402,500	14,379	429,970	973	271,072
Stationary	1,777,043	630,966	3,544	461,837	199	145,008	279	19,461	5	4,660	57,943	34,002	1,146,077	7,281	198,677	973	271,072
Mobile	1,347,144	90,721	998	82,178			146	8,543			3,848	32,579	1,256,423	7,098	231,293		
Metals:																	
Copper, total	701,791	366,863	326	156,639	94	189,123	142	19,726	8	1,375	32,298	8,038	334,928	4,726	270,205	108	173,765
Stationary	642,406	334,581	249	125,945	94	189,123	78	18,138	8	1,375	32,192	6,578	307,825	4,418	249,934	108	173,765
Mobile	59,385	32,282	77	30,694			64	1,588			106	1,460	27,103	308	20,271		
Iron ore, total	498,821	222,154	845	171,232	32	33,017	46	4,005	14	13,900	23,593	5,206	276,667	690	40,688	43	41,895
Stationary	353,009	124,672	243	74,250	32	33,017	31	3,505	14	13,900	10,605	3,662	228,337	429	34,358	43	41,895
Mobile	145,812	97,482	602	96,982			15	500			12,988	1,604	48,330	261	6,330		
Lead, total	194,380	38,234	43	7,618	9	19,336	84	7,813	12	3,467	4,719	4,370	156,146	411	16,422	27	20,703
Stationary	176,941	37,494	37	7,428	9	19,336	75	7,263	12	3,467	4,719	3,869	139,447	343	14,150	27	20,703
Mobile	17,439	740	6	190			9	550				501	16,699	68	2,272		
Zinc, total	163,357	55,829	33	6,019	7	18,252	263	30,758	5	800	11,501	2,577	107,528	740	17,206	25	19,687
Stationary	157,438	53,000	31	5,619	7	18,252	204	28,329	5	800	11,501	2,512	104,438	716	17,015	25	19,687
Mobile	5,919	2,829	2	400			59	2,429				65	3,090	24	191		
Gold, lode, total	69,829	31,486	80	7,580	4	4,870	63	4,309	31	14,721	1,308	1,119	38,343	614	22,211	24	14,472
Stationary	68,413	30,953	79	7,286	4	4,870	54	4,076	31	14,721	982	1,088	37,460	614	22,211	24	14,472
Mobile	1,416	533	1	300			9	233			326	31	883				
Silver, total	28,943	9,549	12	1,169	1	100	50	8,080	1	200	4,106	627	19,394	138	2,664	16	2,021
Stationary	27,848	9,324	12	1,169	1	100	45	7,855	1	200	4,006	616	18,524	138	2,664	16	2,021
Mobile	1,095	225					5	225			100	11	870				
Gold, placer, total	20,280	589	16	389					4	200		423	19,691	5	25	3	30
Stationary	20,280	589	16	389					4	200		423	19,691	5	25	3	30
Mercury, total	5,625	3,119					89	3,119			384	160	2,506	77	758	18	808
Stationary	5,525	3,069					88	3,069			384	156	2,456	77	758	18	808
Mobile	100	50					1	50				4	50				
Manganese, total	2,342	177					16	177				102	2,165				
Stationary	2,224	177					16	177				100	2,047				
Mobile	118											2	118				
Minor metals, total [2]	13,469	3,874	5	600			21	2,422	7	852	290	430	9,595	16	648	8	1,452
Stationary	13,224	3,629	4	575			17	2,202	7	852	290	430	9,595	16	648	8	1,452
Mobile	245	245	1	25			4	220									
Stone:																	
Limestone, total	535,466	198,236	1,316	110,561	32	51,387	723	35,233	9	1,055	12,273	8,780	337,230	429	20,872	52	16,832
Stationary	406,900	115,513	596	46,149	32	51,387	343	16,922	9	1,055	8,773	7,545	291,387	373	17,719	52	16,832
Mobile	128,566	82,723	720	64,412			380	18,311			3,500	1,235	45,843	56	3,153		
Granite, total	108,217	32,144	509	23,332	16	1,245	165	6,962	6	605	2,081	2,025	76,073	221	1,770	16	1,412
Stationary	99,166	24,728	426	18,443	16	1,245	118	4,435	6	605	1,660	1,990	74,438	221	1,776	16	1,412
Mobile	9,051	7,416	83	4,889			47	2,527			421	35	1,635				
Basalt, total	63,881	18,775	143	11,407			152	7,308	2	60	20	898	45,106	8	350	3	92
Stationary	53,754	10,785	74	7,167			52	3,558	2	60	20	867	42,969	8	350	3	92
Mobile	10,127	7,990	69	4,240			100	3,750				31	2,137				
Slate, total	33,817	7,941	158	7,289	1	265	6	331	1	56	125	1,155	25,876	3	75	1	100
Stationary	33,543	7,941	158	7,289	1	265	6	331	1	56	125	1,140	25,602	3	75	1	100
Mobile	274											15	274				
Marble, total	30,198	6,013	71	3,365	22	1,425	21	1,038	1	185		898	24,185	6	172	2	45
Stationary	25,195	5,007	55	2,505	22	1,425	16	892	1	185		636	20,188	1	112	2	45
Mobile	5,003	1,006	16	860			5	146				262	3,997	5	60		

[1] Included in "Total horsepower of prime movers."

[2] Bauxite, molybdenum, titanium, tungsten, vanadium.

TABLE 12.—POWER EQUIPMENT, STATIONARY AND MOBILE—NUMBER AND RATED CAPACITY OF PRIME MOVERS, MOTORS, AND GENERATORS, BY INDUSTRIES: 1929—Continued

INDUSTRY AND TYPE OF POWER EQUIPMENT	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY													Electric motors driven by energy generated by enterprises reporting		Electric generators	
	Aggregate horsepower	Prime movers									Horsepower rating of inactive prime movers [1]	Electric motors driven by purchased energy					
		Total horsepower of prime movers	Steam engines		Steam turbines		Internal-combustion engines		Water wheels and water turbines								
			Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower		Number	Horsepower	Number	Horsepower	Number	Kilowatts
Stone—Continued.																	
Sandstone, total	28,935	11,370	128	8,909	3	225	89	2,236			45	517	17,505	12	294	3	142
Stationary	25,814	8,793	92	7,259	3	225	58	1,309			15	498	17,021	12	294	3	142
Mobile	3,121	2,577	36	1,650			31	927			30	19	544				
Miscellaneous, total	28,527	9,091	130	4,776			86	4,315			75	629	19,436	6	113	1	75
Stationary	25,019	6,964	109	3,978			58	2,986			75	571	18,055	6	113	1	75
Mobile	3,508	2,127	21	798			28	1,329				58	1,381				
Other nonmetals:																	
Abrasive materials, total [3]	3,828	2,927	36	1,341			38	1,436	2	150		38	901	13	205	3	150
Stationary	3,653	2,927	36	1,341			38	1,436	2	150		37	726	13	205	3	150
Mobile	175											1	175				
Asbestos, total	2,114	695	3	257			16	438				30	1,419	4	40	1	25
Stationary	2,032	695	3	257			16	438				27	1,337	4	40	1	25
Mobile	82											3	82				
Asphalt and bituminous rock, total	13,109	10,177	68	5,162			74	5,015			15	67	2,932	59	3,136	13	1,785
Stationary	9,399	6,467	30	2,492			49	3,975			15	67	2,932	59	3,136	13	1,785
Mobile	3,710	3,710	38	2,670			25	1,040									
Barite, total	6,066	2,698	18	598			36	1,950	1	150		96	3,368	8	113	4	185
Stationary	4,470	1,278	2	28			23	1,100	1	150		92	3,192	8	113	4	185
Mobile	1,596	1,420	16	570			13	850				4	176				
Clay, total	31,877	20,837	120	9,923	5	4,989	178	5,745	2	180	247	718	11,040	85	1,011	9	862
Stationary	26,560	16,127	77	7,269	5	4,989	112	3,689	2	180	247	691	10,433	85	1,011	9	862
Mobile	5,317	4,710	43	2,654			66	2,056				27	607				
Feldspar, total	6,543	2,531	10	1,170			47	986	1	375	5	150	4,012	26	381	2	350
Stationary	6,374	2,379	8	1,070			44	934	1	375	5	148	3,995	26	381	2	350
Mobile	169	152	2	100			3	52				2	17				
Fluorspar, total	6,513	6,182	46	5,477			56	705			760	23	331	120	2,830	14	2,003
Stationary	6,457	6,126	46	5,477			52	649			740	23	331	120	2,830	14	2,003
Mobile	56	56					4	56			20						
Fuller's and filtering earths, total	8,221	6,775	22	2,725	3	1,400	31	2,650			1,169	94	1,446	171	2,000	8	1,376
Stationary	5,621	4,177	9	1,175	3	1,400	11	1,602			1,164	93	1,444	171	2,000	8	1,376
Mobile	2,600	2,598	13	1,550			20	1,048			15	1	2				
Gypsum, total	26,498	5,348	10	1,599			43	3,719	1	30	284	792	21,150	107	1,939	12	1,233
Stationary	18,760	3,087	5	669			24	2,388	1	30	284	595	15,073	67	1,677	12	1,233
Mobile	7,738	2,261	5	930			19	1,331				197	5,477	40	262		
Magnesite, total	3,197	220	3	170			3	50				143	2,977				
Stationary	3,197	220	3	170			3	50				143	2,977				
Mica, total	1,721	732	4	165			14	482	3	85		54	989	6	113	1	125
Stationary	1,721	732	4	165			14	482	3	85		54	989	6	113	1	125
Millstones and pulpstones, total	2,517	614	11	364			5	250			200	64	1,903				
Stationary	2,467	564	9	314			5	250			150	64	1,903				
Mobile	50	50	2	50							50						
Phosphate rock, total	104,146	46,518	68	7,370	15	37,268	9	1,880			13,308	901	57,628	355	30,966	14	22,722
Stationary	81,913	41,921	22	2,803	15	37,268	8	1,850			12,868	721	39,992	157	17,662	14	22,722
Mobile	22,233	4,597	46	4,567			1	30			500	180	17,636	198	13,304		
Sand, glass, total	13,215	2,193	14	805	3	270	24	1,118			160	448	11,022	24	716	3	360
Stationary	12,430	1,538	11	730	3	270	14	538			160	445	10,892	24	716	3	360
Mobile	785	655	3	75			10	580				3	130				
Sand, molding, total	14,792	7,603	75	4,638	2	90	78	2,875			388	305	7,189	2	40	1	25
Stationary	8,996	2,003	24	1,144	2	90	29	769			12	298	6,993	2	40	1	25
Mobile	5,796	5,600	51	3,494			49	2,106			376	7	196				
Sand and gravel, total	516,745	231,097	1,653	158,150	10	740	1,125	72,207			3,965	7,732	285,648	212	6,591	42	3,828
Stationary	321,812	68,549	581	39,563	10	740	454	28,246			723	7,231	253,263	212	6,591	42	3,828
Mobile	194,933	162,548	1,072	118,587			671	43,961			3,242	501	32,385				
Silica, total [4]	11,771	4,515	32	2,312			49	2,203			20	476	7,256	4	9	1	10
Stationary	9,154	2,088	22	1,562			17	526			20	470	7,066	4	9	1	10
Mobile	2,617	2,427	10	750			32	1,677				6	190				
Sulphur and pyrites, total	33,932	31,643	291	14,324	49	15,424	36	1,895			5	106	2,289	426	13,528	18	8,202
Stationary	32,394	30,173	288	14,199	49	15,424	6	550				105	2,221	426	13,528	18	8,202
Mobile	1,538	1,470	3	125			30	1,345			5	1	68				
Talc and soapstone, total	10,530	3,937	11	535	5	20	17	407	9	2,975	35	192	6,593	4	750	1	250
Stationary	10,100	3,922	10	520	5	20	17	407	9	2,975	35	176	6,178	4	750	1	250
Mobile	430	15	1	15								16	415				
Miscellaneous minerals, total [5]	3,978	610	6	540			3	70				189	3,368				
Stationary	3,978	610	6	540			3	70				189	3,368				

[1] Included in "Total horsepower of prime movers."
[3] Emery; garnet and industrial sapphires and diamonds; grinding pebbles and tube-mill lining; grindstones, oilstones, whetstones, scythestones, and rubbing stones; pumice and volcanic ash (pumicite).
[4] Diatomaceous earth, ganister, quartz, quartzite, silica rock, silica sand, siliceous mica schist, tripoli.
[5] Borates, cyanite, graphite, lithium minerals (amblygonite, lepidolite, and spodumene), mineral pigments, tantalum, vermiculite.

Size of enterprises according to total rating of power equipment (Table 13).—Those enterprises (559, or 6.6 per cent of the total number of enterprises covered by this table) having power equipment rating of 2,500 or more horsepower accounted for 57.9 per cent of the aggregate power used in the mining and quarrying industries. The two largest horsepower classes accounted for 57.1 per cent of the total kilowatt capacity for electric generators. The horsepower rating of inactive prime movers in the larger classes reflects, in large measure, the displacement of prime movers by motors driven by purchased electric energy, statistics showing the increase of which are given in Table 1.

TABLE 13.—NUMBER AND RATED CAPACITY OF PRIME MOVERS, MOTORS, AND GENERATORS, FOR ENTERPRISES CLASSIFIED ACCORDING TO TOTAL RATING OF POWER EQUIPMENT, FOR SELECTED INDUSTRIES: 1929

[No power equipment was reported by 1,667 enterprises, 1,225 of which reported a value of products of less than $20,000 each and a total value which was less than 1 per cent of that for all mining and quarrying industries. The remaining enterprises (442) were also relatively small. Enterprises reporting no power equipment were distributed among the industries as follows: Coal, bituminous, 1,267; clay, 60; copper, 35; lead, 35; gold, lode, 29; granite, 29; barite, 22; sand, molding, 21; limestone, 16; silica, 16; sandstone, 14; stone, miscellaneous, 12; iron ore, 10; coal, anthracite, 8; other industries, 93]

INDUSTRY AND HORSEPOWER RATING OF POWER EQUIPMENT PER ENTERPRISE	Number of enterprises reporting power equipment [1]	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY															
		Aggregate horsepower	Prime movers									Horsepower rating of inactive prime movers [2]	Electric motors driven by purchased energy		Electric motors driven by energy generated by enterprises reporting		Electric generators	
			Total horsepower of prime movers	Steam engines		Steam turbines		Internal-combustion engines		Water wheels and water turbines								
				Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower		Number	Horsepower	Number	Horsepower	Number	Kilowatts
All industries, total	[1] 8,468	7,514,843	2,743,025	14,144	1,737,858	794	684,878	4,421	274,208	125	46,081	203,825	123,811	4,771,818	34,024	1,352,981	1,609	736,489
Less than 25	769	10,703	7,604	529	5,668			172	1,991	2	35	71	455	3,099	4	23	2	27
25 to 99	1,870	102,856	51,472	1,199	34,851	15	373	635	15,984	10	264	505	2,970	51,383	102	2,639	37	2,116
100 to 249	1,773	283,808	108,221	1,131	66,320	21	1,700	870	38,801	23	1,400	2,583	6,898	175,677	792	18,510	140	14,557
250 to 499	1,372	485,178	163,916	1,521	112,621	15	2,030	803	47,807	15	1,458	5,399	10,926	321,262	1,192	31,069	188	23,811
500 to 999	1,197	830,077	257,685	1,737	180,975	47	7,225	864	64,531	22	4,954	11,509	17,207	581,392	3,201	85,289	328	48,783
1,000 to 2,499	928	1,438,880	399,730	2,444	307,786	89	37,520	670	53,029	9	1,395	20,441	27,990	1,039,150	5,384	154,815	346	82,501
2,500 to 4,999	319	1,098,559	285,481	1,286	227,579	71	34,078	222	16,339	13	7,485	21,334	19,314	813,078	2,916	87,368	180	60,158
5,000 to 9,999	140	1,019,661	318,328	1,107	200,296	120	91,252	95	19,080	12	7,700	33,877	14,651	701,333	3,047	103,285	157	84,199
10,000 to 24,999	73	1,056,359	496,298	1,381	238,515	137	220,507	86	16,386	17	20,890	65,154	13,909	560,061	7,342	346,913	167	200,062
25,000 or more	27	1,179,673	654,200	1,809	363,247	279	200,193	4	350	2	500	42,952	9,491	525,383	10,044	523,070	64	220,275
Coal:																		
Anthracite, total	[1] 190	1,041,465	618,042	3,286	455,327	282	160,424	98	2,291			28,595	6,598	423,423	9,917	464,164	139	128,395
Less than 25	4	62	42	5	32			1	10				4	20				
25 to 99	32	1,975	1,203	32	768	5	83	17	352			43	64	772				
100 to 249	18	2,480	1,451	32	980			15	471			35	64	1,029	6	80	1	125
250 to 499	21	7,893	2,605	96	2,468			6	137			40	166	5,288	3	23	1	20
500 to 999	17	11,852	2,644	34	2,640			1	4				218	9,208	27	1,176	7	410
1,000 to 2,499	25	43,236	12,503	127	12,114	11	165	3	224			81	657	30,733	250	10,687	35	3,620
2,500 to 4,999	24	82,219	37,121	376	36,016	7	805	20	300			972	773	45,098	222	9,314	16	3,070
5,000 to 9,999	26	186,968	69,900	448	68,268	7	1,182	11	450			5,824	1,686	117,068	137	5,820	18	4,770
10,000 to 24,999	11	184,861	93,367	461	61,178	43	31,921	17	268			1,393	1,157	91,494	2,564	122,053	26	27,050
25,000 or more	12	519,919	397,206	1,675	270,863	209	126,268	1	75			20,207	1,809	122,713	6,708	315,011	35	89,330
Bituminous, total	[1] 3,709	3,124,187	721,687	4,542	544,015	199	145,008	425	28,004	5	4,660	61,791	66,581	2,402,500	14,379	429,970	973	271,072
Less than 25	466	5,896	3,761	378	3,490			33	271			22	338	2,135	2	15	1	12
25 to 99	775	41,054	17,606	572	16,182	3	75	54	1,349			73	1,523	23,448	75	2,244	25	1,815
100 to 249	635	100,210	31,616	445	27,798	8	880	66	2,788	1	150	786	3,040	68,594	542	14,007	83	10,866
250 to 499	535	192,490	63,168	479	47,920	6	1,310	52	3,938			1,853	5,187	139,322	886	23,235	133	17,528
500 to 999	526	370,512	101,499	683	93,097	10	3,550	67	4,852			5,665	8,329	269,013	2,516	69,150	219	37,073
1,000 to 2,499	488	776,855	178,635	966	145,323	49	28,581	83	4,731			12,652	17,101	598,220	4,222	120,957	242	66,237
2,500 to 4,999	191	657,667	130,321	407	100,899	35	21,407	31	3,505	4	4,510	11,000	13,150	527,346	2,180	64,931	134	46,696
5,000 to 9,999	64	491,583	112,762	248	59,337	55	50,585	16	2,340			10,448	8,477	378,821	2,008	67,053	82	48,149
10,000 to 24,999	23	317,462	82,744	350	42,084	31	37,120	21	3,540			16,163	6,729	234,718	1,948	68,378	54	42,696
25,000 or more	6	170,458	9,575	19	7,885	2	1,500	2	190			3,120	2,707	160,883				
Copper, total	[1] 108	701,791	366,863	326	156,639	94	189,123	142	19,726	8	1,375	32,298	8,038	334,928	4,726	270,205	108	173,765
Less than 25	10	153	108	3	24			8	84				5	45				
25 to 99	20	977	977	10	265	3	65	31	647									
100 to 249	18	2,887	1,905	21	664			31	1,241			125	16	982	1	8	1	2
250 to 499	7	2,600	1,100	18	1,100							20	51	1,506				
500 to 999	10	7,157	4,204	5	1,240			15	2,489	5	475	115	71	2,953	20	959	9	1,218
1,000 to 2,499	10	18,469	3,560	4	610	2	1,600	3	1,350			20	302	14,909	75	3,563	5	2,200
2,500 to 4,999	9	31,794	8,370	14	5,470	2	2,000	41	900			335	665	23,424	48	3,000	3	1,750
5,000 to 9,999	7	48,456	24,172	42	14,230	8	7,542	2	2,000	1	400	1,600	608	24,284	328	11,412	30	8,870
10,000 to 24,999	9	133,146	74,958	94	48,537	11	15,491	10	10,930			10,458	2,144	58,188	918	43,204	31	28,780
25,000 or more	8	456,146	247,509	115	84,499	68	162,425	1	85	2	500	19,625	4,176	208,637	3,336	208,059	29	130,945
Iron ore, total	[1] 170	498,821	222,154	845	171,232	32	33,017	46	4,005	14	13,900	23,593	5,266	276,667	690	40,688	43	41,895
Less than 25	1	[3] 447	405	9	238			8	167				2	42				
25 to 99	8																	
100 to 249	11	1,644	1,209	12	1,005			3	204			100	13	435	13	104	1	90
250 to 499	9	3,263	801	13	475			7	326				51	2,462	6	150	1	75
500 to 999	25	18,748	5,565	76	5,565							170	345	13,183	18	389	1	150
1,000 to 2,499	56	91,225	25,373	171	23,303	2	160	9	1,910			1,158	1,405	65,852	104	3,432	10	1,850
2,500 to 4,999	36	130,484	45,838	200	44,570	19	107	11	1,161			3,245	1,576	84,646	149	3,963	7	1,470
5,000 to 9,999	13	94,789	47,246	121	35,816	5	5,430			8	6,000	7,925	699	47,543	129	6,848	8	8,600
10,000 to 24,999	11	158,221	95,717	243	60,260	6	27,320	8	237	6	7,900	10,995	1,175	62,504	271	25,802	15	29,660

[1] See headnote.
[2] Included in "Total horsepower of prime movers."
[3] Combined to avoid disclosing, exactly or approximately, the data reported by individual enterprises.

TABLE 13.—NUMBER AND RATED CAPACITY OF PRIME MOVERS, MOTORS, AND GENERATORS, FOR ENTERPRISES CLASSIFIED ACCORDING TO TOTAL RATING OF POWER EQUIPMENT, FOR SELECTED INDUSTRIES: 1929—Continued

[See note at head of this table]

INDUSTRY AND HORSEPOWER RATING OF POWER EQUIPMENT PER ENTERPRISE	Number of enterprises reporting power equipment [1]	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY															
		Aggregate horsepower	Prime movers									Horsepower rating of inactive prime movers [2]	Electric motors driven by purchased energy		Electric motors driven by energy generated by enterprises reporting		Electric generators	
			Total horsepower of prime movers	Steam engines		Steam turbines		Internal-combustion engines		Water wheels and water turbines								
				Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower		Number	Horsepower	Number	Horsepower	Number	Kilowatts
Limestone, total	[1] 1,151	535,466	198,236	1,316	110,561	32	51,387	723	35,233	9	1,055	12,273	8,780	337,230	429	20,872	52	10,832
Less than 25	61	983	837	41	711			13	126				15	146				
25 to 99	340	18,815	10,071	201	6,796	2	90	109	3,105	2	80	65	351	8,744	3	47	3	35
100 to 249	296	45,333	17,778	163	9,848	3	370	158	7,375	4	185	200	927	27,555	41	867	10	1,142
250 to 499	156	54,563	17,255	160	11,110	2	150	104	5,705	2	290	608	1,158	37,308	40	1,567	12	1,454
500 to 999	169	116,560	25,085	205	16,167	4	325	157	8,093	1	500	915	2,385	91,475	64	1,474	10	814
1,000 to 2,499	103	155,448	61,201	405	48,143	6	3,214	163	9,934			3,197	2,230	94,157	100	3,117	11	2,452
2,500 to 4,999	14	44,121	10,667	79	9,938			15	729			38	585	33,454				
5,000 to 9,999	9	63,413	19,602	61	7,348	7	12,088	4	166			4,280	1,113	43,811	6	580	2	435
10,000 to 24,999	3	36,230	35,650	1	500	8	35,150					2,970	16	580	175	13,220	4	10,500
Sand and gravel, total	957	516,745	231,097	1,653	158,150	10	740	1,125	72,207			3,965	7,732	285,648	212	6,591	42	3,828
Less than 25	1	[3] 5,163	2,831	41	1,470			46	1,361			50	147	2,332	3	20	1	40
25 to 99	73																	
100 to 249	279	48,443	20,738	177	9,035			255	11,703			356	970	27,705	21	440	7	255
250 to 499	293	101,714	43,117	351	23,639	1	5	322	19,473			819	1,823	58,597	52	1,548	11	1,047
500 to 999	189	131,812	60,142	412	38,459	5	585	287	21,098			1,442	1,024	71,670	80	2,802	15	1,471
1,000 to 2,499	105	151,827	68,861	465	53,837	4	150	164	14,874			698	1,963	82,966	56	1,781	8	1,015
2,500 to 4,999	12	37,127	22,360	122	19,690			37	2,670				332	14,767				
5,000 to 9,999	3	[3] 40,659	13,048	85	12,020			14	1,028			600	573	27,611				
10,000 to 24,999	2																	

[1] See headnote.
[2] Included in "Total horsepower of prime movers."
[3] Combined to avoid disclosing, exactly or approximately, the data reported by individual enterprises.

TIME IN OPERATION

Days per year in operation (Table 14).—Practically one-third of the total value of products was contributed by enterprises which operated throughout the entire year, while 52.5 per cent of the total was produced by those operating from 200 to 299 days. The full operating year was characteristic of the metal-mining industries, while shorter operating periods were significant for most of the other industries, especially the coal industries.

TABLE 14.—CONDENSED SUMMARY FOR ENTERPRISES CLASSIFIED ACCORDING TO NUMBER OF DAYS IN OPERATION IN 1929, BY INDUSTRIES

[This table does not include data for 2,720 enterprises whose value of product was less than $20,000. Such enterprises were permitted to report on an abbreviated schedule, which did not call for information pertaining to time in operation. The number of enterprises in this class was distributed as follows: Coal, bituminous, 2,155; limestone, 149; granite, 95; stone, miscellaneous, 91; gold, lode, 60; copper, 42; lead, 35; sandstone, 22; slate, 20; silver, 17; zinc, 10; basalt, 9; gold, placer, 8; marble, 7. The combined value of products represented by these enterprises was $22,132,084, or less than 1 per cent of that for all mining and quarrying industries]

INDUSTRY AND DAYS IN OPERATION	Number of enterprises	Number of mines and quarries	Wage earners, Dec. 14 or nearest representative day [1]	Wages	VALUE OF PRODUCTS	
					Amount	Per cent of total
All industries, total [2]	7,415	8,882	833,234	$1,077,627,073	$2,370,699,094	100.0
Not reported	26	29	102	102,521	326,909	(3)
Less than 50	59	68	3,650	967,149	1,500,314	0.1
50 to 74	117	123	5,449	2,326,352	4,015,046	0.2
75 to 99	173	189	12,560	7,737,832	13,203,838	0.6
100 to 149	557	627	36,834	30,326,672	53,440,980	2.3
150 to 199	1,219	1,421	130,487	149,498,086	277,880,663	11.7
200 to 249	1,833	2,233	210,221	270,906,662	520,874,882	22.0
250 to 299	1,704	2,106	274,888	380,188,451	722,348,419	30.5
300 and over	1,727	2,086	159,043	235,573,348	777,108,043	32.8
COAL						
Anthracite, total	198	303	147,260	229,967,059	384,854,300	100.0
Less than 50	3	3	[4] 229	154,765	244,533	0.1
50 to 74	2	2				
75 to 99	5	5	1,281	881,087	1,207,272	0.3
100 to 149	26	26	3,368	2,919,496	4,406,386	1.1
150 to 199	47	82	34,069	48,086,947	73,877,057	19.2
200 to 249	55	81	40,607	61,748,832	107,184,561	27.9
250 to 299	53	93	62,998	107,154,967	182,150,308	47.3
300 and over	7	11	4,708	9,020,965	15,784,183	4.1

INDUSTRY AND DAYS IN OPERATION	Number of enterprises	Number of mines and quarries	Wage earners, Dec. 14 or nearest representative day [1]	Wages	VALUE OF PRODUCTS	
					Amount	Per cent of total
COAL—continued						
Bituminous, total [2]	2,821	3,465	472,965	$563,040,468	$948,966,686	100.0
Less than 50	18	24	2,699	779,462	1,020,757	0.1
50 to 74	46	51	3,980	1,787,835	2,722,371	0.3
75 to 99	72	85	8,665	5,753,294	9,077,787	1.0
100 to 149	291	338	28,593	24,014,576	37,341,810	3.9
150 to 199	605	714	82,356	87,477,829	142,831,050	15.1
200 to 249	829	1,023	142,441	177,961,443	299,955,439	31.6
250 to 299	789	1,015	174,556	226,181,605	388,740,872	41.0
300 and over	171	215	29,675	39,084,334	67,276,600	7.1
METALS						
Copper, total [2]	101	138	43,162	72,917,249	283,230,039	100.0
75 to 99	2	2	[4] 662	305,432	579,415	0.2
100 to 149	2	2				
150 to 199	2	2				
200 to 249	9	11	988	1,016,072	1,232,521	0.4
250 to 299	8	8	378	465,230	874,419	0.3
300 and over	78	113	41,134	71,130,515	280,543,684	99.1

See footnotes at end of table.

TABLE 14.—CONDENSED SUMMARY FOR ENTERPRISES CLASSIFIED ACCORDING TO NUMBER OF DAYS IN OPERATION IN 1929, BY INDUSTRIES—Continued

[See note at head of this table]

INDUSTRY AND DAYS IN OPERATION	Number of enterprises	Number of mines and quarries	Wage earners, Dec. 14 or nearest representative day [1]	Wages	VALUE OF PRODUCTS	
					Amount	Per cent of total
METALS—continued						
Iron ore, total	180	208	28,582	$40,905,190	$197,334,548	100.0
50 to 74	2	2	[4] 267	74,199	175,622	0.1
75 to 99	2	2				
100 to 149	7	7	328	267,105	2,405,760	1.2
150 to 199	23	24	1,909	2,755,241	23,035,935	11.7
200 to 249	22	25	2,068	2,674,654	22,493,161	11.4
250 to 299	45	51	7,071	10,461,677	36,312,472	18.4
300 and over	79	97	16,939	24,672,314	112,911,548	57.2
Lead, total [2]	120	136	14,330	22,706,576	67,325,557	100.0
Not reported	1	1				
50 to 74	1	1	[4] 16	4,912	25,406	(3)
75 to 99	1	1				
100 to 149	5	5	180	165,391	217,730	0.3
150 to 199	10	11	174	137,081	360,114	0.5
200 to 249	5	5	277	437,835	783,768	1.2
250 to 299	12	12	1,093	1,491,472	6,184,003	9.2
300 and over	85	100	12,590	20,469,885	59,754,536	88.8
Zinc, total [2]	138	194	12,757	16,237,378	44,779,323	100.0
Less than 50	4	4	195	27,480	88,904	0.2
50 to 74	3	3	170	58,654	102,061	0.2
75 to 99	7	7	271	119,968	292,982	0.7
100 to 149	7	7	259	193,271	426,737	1.0
150 to 199	7	7	603	464,277	1,244,289	2.8
200 to 249	30	45	2,011	2,500,170	7,037,340	15.7
250 to 299	32	64	3,697	4,731,663	15,057,725	33.6
300 and over	48	57	5,551	8,141,895	20,529,285	45.8
Gold, lode, total [2]	114	124	5,492	8,339,052	17,220,059	100.0
Less than 50	3	4	[4] 101	15,672	40,722	0.2
50 to 74	2	2				
100 to 149	6	6	143	182,786	159,206	0.9
150 to 199	10	12	116	79,890	220,942	1.3
200 to 249	10	10	399	432,714	955,206	5.5
250 to 299	11	15	197	232,217	217,759	1.3
300 and over	72	75	4,536	7,395,773	15,626,224	90.7
Silver, total [2]	50	57	2,592	4,125,163	8,327,914	100.0
75 to 99	2	2				
100 to 149	1	1	[4] 192	90,634	342,764	4.1
150 to 199	1	1				
200 to 249	2	2				
250 to 299	2	2	[4] 128	164,813	705,423	8.5
300 and over	42	49	2,272	3,869,716	7,279,727	87.4
Gold, placer, total [2]	24	20	601	928,995	3,743,941	100.0
50 to 74	2	2	[4] 44	25,397	69,087	1.8
75 to 99	2	2				
100 to 149	3	3	40	24,885	58,560	1.6
150 to 199	2	2	[4] 32	31,730	77,455	2.1
200 to 249	1	1				
250 to 299	4	4	156	310,121	1,324,758	35.4
300 and over	10	15	329	536,862	2,214,081	59.1
Mercury, total	40	40	1,026	1,383,603	2,820,166	100.0
Not reported	3	3			23,405	0.8
Less than 50	2	2	[4] 21	4,400	10,163	0.4
150 to 199	1	1				
100 to 149	3	3	68	46,965	177,616	6.3
200 to 249	3	3	[4] 56	76,042	56,034	2.0
250 to 299	2	2				
300 and over	26	26	881	1,256,196	2,552,948	90.5
Manganese, total	19	21	381	392,362	1,184,561	100.0
75 to 99	1	1	[4] 62	47,641	64,336	5.4
250 to 299	2	2				
150 to 199	3	3	42	32,072	130,689	11.0
200 to 249	4	4	23	19,376	60,274	5.1
300 and over	9	11	254	293,273	929,262	78.4
Minor metals, total [5]	26	30	1,289	1,506,851	6,649,976	100.0
Not reported	1	1	[4] 36	16,901	38,569	0.6
100 to 149	2	2				
150 to 199	3	3	36	24,001	56,121	0.8
200 to 249	3	3	53	42,800	141,072	2.1
250 to 299	6	8	523	456,684	2,087,052	31.4
300 and over	11	13	641	966,465	4,327,162	65.1
STONE						
Limestone, total [2]	1,018	1,107	34,532	$38,500,050	$115,833,124	100.0
Less than 50	13	13	158	28,210	83,917	0.1
50 to 74	24	24	256	76,459	231,049	0.2
75 to 99	33	34	574	235,286	698,698	0.6
100 to 149	71	77	1,394	917,364	2,903,410	2.5
150 to 199	165	183	4,708	4,480,006	17,707,068	15.3
200 to 249	216	236	7,043	7,848,374	24,815,840	21.4
250 to 299	217	225	8,478	10,125,902	29,179,298	25.2
300 and over	279	315	11,921	14,788,449	40,213,844	34.7
Granite, total [2]	311	339	10,786	12,404,284	29,809,525	100.0
Not reported	2	2	[4] 249	53,333	112,871	0.4
Less than 50	5	5				
50 to 74	6	6	212	37,225	93,256	0.3
75 to 99	5	5	221	103,051	231,197	0.8
100 to 149	20	20	382	255,853	728,004	2.4
150 to 199	34	35	1,031	658,769	1,360,473	4.6
200 to 249	66	70	1,814	1,916,923	5,067,308	17.0
250 to 299	84	97	3,044	3,801,934	8,600,954	28.9
300 and over	89	99	3,833	5,577,196	13,615,462	45.7
Basalt, total [2]	128	135	3,342	4,456,211	15,456,473	100.0
Less than 50	2	2	[4] 47	13,646	61,917	0.4
50 to 74	3	3				
75 to 99	5	5	73	55,282	116,928	0.8
100 to 149	8	9	131	116,829	339,970	2.2
150 to 199	27	28	691	788,817	2,148,083	13.9
200 to 249	38	38	991	1,471,206	5,666,556	36.7
250 to 299	19	21	470	694,428	2,481,479	16.1
300 and over	26	29	939	1,316,003	4,641,540	30.0
Slate, total [2]	100	110	4,011	4,803,834	10,325,664	100.0
Not reported	9	9	91	94,676	137,052	1.3
100 to 149	3	3	31	17,495	26,267	0.3
150 to 199	3	3	78	74,534	120,665	1.2
200 to 249	23	24	1,222	1,449,896	3,365,240	32.6
250 to 299	31	35	1,388	1,761,281	3,599,580	34.9
300 and over	31	36	1,201	1,405,952	3,076,860	29.8
Marble, total [2]	63	81	3,388	3,249,690	7,490,368	100.0
Less than 50	1	1	[4] 34	12,991	77,304	1.0
50 to 74	1	1				
75 to 99	1	1				
150 to 199	4	4	33	27,704	37,886	0.5
200 to 249	10	11	339	302,820	750,636	10.0
250 to 299	20	22	1,479	1,219,851	2,710,551	36.2
300 and over	26	41	1,503	1,686,324	3,913,991	52.3
Sandstone, total [2]	123	150	2,872	2,516,315	6,131,345	100.0
Less than 50	1	1	[4] 232	50,696	92,425	1.5
50 to 74	4	4				
75 to 99	7	7	92	63,767	118,609	1.9
100 to 149	11	23	267	163,589	348,917	5.7
150 to 199	22	23	647	457,184	944,106	15.4
200 to 249	35	43	671	647,248	1,714,485	28.0
250 to 299	21	24	584	628,154	1,517,690	24.8
300 and over	22	25	379	505,677	1,395,113	22.8
Miscellaneous, total [2]	113	143	2,189	2,089,728	7,748,648	100.0
Less than 50	2	2	[4] 98	29,790	92,778	1.2
50 to 74	5	5				
75 to 99	6	6	97	58,057	233,911	3.0
100 to 149	15	16	261	130,937	452,810	5.8
150 to 199	19	20	397	227,557	558,445	7.2
200 to 249	26	46	610	693,881	2,231,743	28.8
250 to 299	12	12	194	192,810	522,535	6.7
300 and over	28	36	532	756,696	3,656,426	47.2
OTHER NONMETALS						
Abrasive materials, total [6]	30	36	478	491,484	1,411,284	100.0
75 to 99	1	1	[4] 132	114,962	248,375	17.6
100 to 149	1	1				
200 to 249	5	5				
250 to 299	7	7	113	155,940	529,474	37.5
300 and over	16	22	233	220,582	633,435	44.9

See footnotes at end of table.

TABLE 14.—CONDENSED SUMMARY FOR ENTERPRISES CLASSIFIED ACCORDING TO NUMBER OF DAYS IN OPERATION IN 1929, BY INDUSTRIES—Continued

[See note at head of this table]

INDUSTRY AND DAYS IN OPERATION	Number of enterprises	Number of mines and quarries	Wage earners, Dec. 14 or nearest representative day [1]	Wages	VALUE OF PRODUCTS	
					Amount	Per cent of total
OTHER NONMETALS—con.						
Asbestos, total	11	11	270	$236,789	$397,482	100.0
50 to 74	1	1	[4] 104	43,402	128,091	32.2
75 to 99	2	2				
150 to 199	2	2				
200 to 249	4	4	[4] 166	193,387	269,391	67.8
300 and over	2	2				
Asphalt and bituminous rock, total	21	25	1,481	1,254,835	5,123,836	100.0
50 to 74	2	2	[4] 474	259,800	714,205	13.9
100 to 149	2	2				
150 to 199	2	2				
200 to 249	4	4	565	443,484	1,579,603	30.8
250 to 299	5	6	327	379,057	2,067,605	40.4
300 and over	6	9	115	172,494	762,423	14.9
Barite, total	42	44	874	648,488	1,801,314	100.0
Not reported	2	3	[4] 15	7,678	24,709	1.4
100 to 149	2	2				
75 to 99	3	4	32	7,390	13,749	0.8
150 to 199	5	5	36	23,652	54,226	3.0
200 to 249	8	8	83	56,407	126,341	7.0
250 to 299	3	3	66	87,963	226,908	12.6
300 and over	19	19	642	465,398	1,355,381	75.2
Clay, total	199	236	4,118	3,757,998	10,753,445	100.0
Less than 50	1	1	[4] 12	6,355	18,693	0.2
50 to 74	2	2				
100 to 149	7	8	53	33,816	108,467	1.0
150 to 199	17	21	92	64,611	208,687	1.9
200 to 249	33	37	567	508,775	1,486,461	13.8
250 to 299	43	50	1,176	1,083,970	3,126,401	29.1
300 and over	96	117	2,218	2,060,471	5,804,736	54.0
Feldspar, total	51	58	671	526,896	1,935,335	100.0
Less than 50	1	1	[4] 45	14,220	43,203	2.2
50 to 74	1	1				
75 to 99	1	1				
100 to 149	4	4	30	24,318	74,361	3.8
150 to 199	9	10	49	26,041	81,090	4.2
200 to 249	8	11	108	95,984	281,426	14.5
250 to 299	15	17	290	213,008	994,004	51.4
300 and over	12	13	149	148,265	461,251	23.8
Fluorspar, total	28	36	1,100	1,112,322	2,858,344	100.0
50 to 74	2	2	[4] 82	28,007	81,811	2.9
100 to 149	2	2				
200 to 249	8	8	251	306,177	680,673	23.8
250 to 299	9	10	299	348,454	998,451	34.9
300 and over	7	14	468	429,684	1,097,409	38.4
Fuller's and filtering earths, total	22	24	1,043	863,228	4,811,629	100.0
150 to 199	2	2	[4] 120	112,224	424,249	8.8
200 to 249	2	2				
250 to 299	2	2				
300 and over	16	18	923	741,004	4,387,380	91.2
Gypsum, total	60	63	1,912	2,627,733	5,740,188	100.0
100 to 149	2	2	[4] 184	236,793	428,930	7.5
150 to 199	6	6				
200 to 249	14	14	352	452,650	1,168,543	20.4
250 to 299	20	22	1,009	1,475,554	2,932,355	51.1
300 and over	18	19	367	462,736	1,210,360	21.1
Magnesite, total	5	5	387	465,936	2,043,905	100.0
100 to 149	1	1	[4] 387	465,936	2,043,905	100.0
300 and over	4	4				
Mica, total	24	32	248	195,142	516,305	100.0
150 to 199	1	1	[4] 67	44,473	155,363	30.1
200 to 249	5	7				
250 to 299	8	11	103	77,060	221,118	42.8
300 and over	10	13	78	73,609	139,824	27.1
OTHER NONMETALS—con.						
Millstones and pulpstones, total	14	14	180	$221,318	$620,835	100.0
75 to 99	1	1	[4] 33	29,148	63,585	10.2
100 to 149	2	2				
200 to 249	1	1				
250 to 299	4	4	87	128,583	413,135	66.5
300 and over	6	6	60	63,587	144,115	23.2
Phosphate rock, total	26	33	3,294	3,303,940	13,043,769	100.0
50 to 74	1	1	[4] 386	388,169	914,555	7.0
150 to 199	3	3				
200 to 249	4	4				
250 to 299	7	10	724	751,922	2,838,046	21.8
300 and over	11	15	2,184	2,163,849	9,291,168	71.2
Sand, glass, total	25	32	1,027	1,313,503	5,359,210	100.0
100 to 149	1	1	[4] 82	61,328	165,730	3.1
150 to 199	1	1				
200 to 249	1	1				
250 to 299	5	5	160	176,011	629,142	11.7
300 and over	17	24	785	1,076,164	4,564,344	85.2
Sand, molding, total	90	128	1,236	1,290,854	4,775,957	100.0
Not reported	7	9			112,187	2.3
75 to 99	1	1	[4] 48	34,567	83,124	1.7
100 to 149	5	5				
150 to 199	19	23	346	306,838	1,045,950	21.9
200 to 249	23	38	300	287,488	964,942	20.2
250 to 299	11	14	165	191,268	693,319	14.5
300 and over	24	38	377	470,693	1,876,435	39.3
Sand and gravel, total	957	1,165	18,885	22,779,984	102,311,914	100.0
Less than 50	1	1	[4] 109	35,920	222,481	0.2
50 to 74	5	6				
75 to 99	9	10	174	69,682	325,984	0.3
100 to 149	42	43	675	491,390	2,330,976	2.3
150 to 199	156	179	2,421	2,702,701	10,439,492	10.2
200 to 249	308	390	5,527	6,681,257	29,005,809	28.4
250 to 299	167	204	3,105	4,180,889	22,443,876	21.9
300 and over	269	332	6,874	8,618,145	37,543,296	36.7
Silica, total [7]	70	73	1,506	1,677,407	4,645,142	100.0
Not reported	1	1	[4] 54	19,607	52,053	1.1
Less than 50	1	1				
75 to 99	4	4				
100 to 149	3	4	20	7,435	20,870	0.4
150 to 199	6	6	61	57,411	119,455	2.6
200 to 249	12	12	174	157,830	423,556	9.1
250 to 299	21	22	488	534,181	1,100,749	23.7
300 and over	22	23	709	900,943	2,928,459	63.0
Sulphur and pyrites, total	9	10	2,040	3,482,606	37,126,148	100.0
50 to 74	1	1	[4] 143	184,727	341,436	0.9
150 to 199	1	1				
250 to 299	1	1				
300 and over	6	7	1,897	3,297,879	36,784,712	99.1
Talc and soapstone, total	25	28	590	615,355	2,687,953	100.0
Less than 50	1	3	[4] 84	66,732	195,663	7.3
100 to 149	1	1				
250 to 299	2	2				
200 to 249	3	3	33	21,742	83,000	3.1
300 and over	18	19	473	526,881	2,409,290	89.6
Miscellaneous minerals, total [8]	19	19	337	301,197	3,502,876	100.0
50 to 74	1	1	[4] 48	23,949	63,152	1.8
100 to 149	1	1				
150 to 199	1	1				
200 to 249	3	3	13	14,368	29,409	0.8
250 to 299	4	4	71	40,063	160,969	4.6
300 and over	9	9	205	222,817	3,249,346	92.8

[1] The totals differ, in some industries considerably, from those for "Wage earners (average for the year)" given in other tables of this report. See GENERAL EXPLANATIONS—Persons Engaged.
[2] See headnote.
[3] Less than one-tenth of 1 per cent.
[4] Combined to avoid disclosing, exactly or approximately, the data reported by individual enterprises.
[5] Bauxite, 9 enterprises; molybdenum, 2; titanium, 1; tungsten, 12; vanadium, 2.
[6] Emery, 2 enterprises; garnet and industrial sapphires and diamonds, 6; grinding pebbles and tube-mill lining, 2; grindstones, oilstones, whetstones, scythestones, and rubbing stones, 13; pumice and volcanic ash (pumicite), 7.
[7] Diatomaceous earth, 10 enterprises; ganister, 18; quartz, 9; quartzite, 2; silica rock, 6; silica sand, 14; siliceous mica schist, 3; tripoli, 8.
[8] Borates, 2 enterprises; cyanite, 2; graphite, 5: lithium minerals (amblygonite, lepidolite, and spodumene), 4; mineral pigments, 4; tantalum, 1; vermiculite, 1.

PERSONS ENGAGED

Persons engaged, by class and sex (Table 15).—Of the total number of persons employed in the mining and quarrying industries, only 4,526, or one-half of 1 per cent, were females. These were employed mainly in clerical and subordinate administrative positions. The total number of female employees was distributed among the mining-industry groups, as follows: Coal, 2,257; metals, 745; stone, 556; other, 968. The number of employees of central-administrative offices are not included in the figures given in this table, but are shown separately in Table 17. Also, the figures for employees do not include the number employed in connection with expenditures for contract work, as no record is normally kept for those persons engaged by contractors in the fulfillment of a particular contract. Such contractual arrangements, when made, are ordinarily restricted to the sinking of shafts, driving of tunnels, construction of surface plants, etc., and only infrequently do they involve the actual mining of mineral products.

TABLE 15.—PERSONS ENGAGED, BY SEX, FOR THE UNITED STATES: 1929

[This table does not include data for salaried officers and employees of "Central Administrative" offices. See Table 17]

CLASS	Total	Male	Female	CLASS	Total	Male	Female
Total (all classes)	859,346	854,820	4,526	Other salaried officers and employees [2]	42,431	38,535	3,896
Proprietors and firm members	4,897	[1] 4,854	[1] 43	Wage earners (average for the year) [2]	806,418	806,033	385
Principal salaried officers of corporations [2]	5,600	5,398	202				

[1] Enterprises with a value of product of less than $20,000 were permitted to report on an abbreviated schedule which did not call for information for proprietors and firm members pertaining to sex. Therefore, 3,220 persons so reported by these enterprises were classified as male.
[2] Number of salaried officers and employees of enterprises whose value of product was less than $20,000 each, included in the figures for wage earners.

TABLE 16.—PERSONS ENGAGED, BY INDUSTRIES: 1929

[This table does not include data for salaried officers and employees of "Central Administrative" offices. See Table 17]

INDUSTRY	Total (all classes)	Proprietors and firm members	Principal salaried officers of corporations	Other salaried officers and employees	WAGE EARNERS (average for the year)		INDUSTRY	Total (all classes)	Proprietors and firm members	Principal salaried officers of corporations	Other salaried officers and employees	WAGE EARNERS (average for the year)	
					Number	Per cent of total						Number	Per cent of total
All industries, total	859,346	4,897	5,600	42,431	806,418	100.0	Basalt	3,439	51	86	249	3,053	0.4
Coal, total	633,035	3,021	2,845	25,636	601,533	74.6	Silver	2,838	25	45	175	2,593	0.3
Anthracite (Pennsylvania)	150,494	38	103	7,492	142,801	17.7	Sulphur and pyrites	2,505	1	8	297	2,199	0.3
Bituminous	482,541	2,983	2,682	18,144	458,732	56.9	Sandstone	2,466	84	51	175	2,156	0.3
Copper	48,043	76	62	3,403	44,502	5.5	Stone, miscellaneous	2,244	161	35	207	1,841	0.2
Limestone	35,582	497	471	2,314	32,300	4.0	Gypsum	2,214	2	10	124	2,078	0.3
Iron ore	30,707	9	22	2,160	28,516	3.5	Silica [1]	1,657	8	22	194	1,433	0.2
Sand and gravel	19,915	249	968	2,704	15,994	2.0	Minor metals [2]	1,419	4	16	155	1,244	0.2
Lead	15,004	53	72	872	14,007	1.7	Asphalt and bituminous rock	1,307	1	39	144	1,123	0.1
Zinc	12,790	25	74	800	11,900	1.5	Sand, molding	1,256	19	60	140	1,037	0.1
Granite	11,191	279	229	646	10,037	1.2	Fluorspar	1,184	13	13	105	1,053	0.1
Gold, lode	5,885	89	71	372	5,353	0.7	Mercury	1,127	10	16	72	1,029	0.1
Clay	4,560	72	85	264	4,139	0.5	Sand, glass	1,125	-------	25	70	1,030	0.1
Slate	4,450	86	83	183	4,098	0.5	Fuller's and filtering earths	1,096	-------	21	84	991	0.1
Marble	3,594	7	44	193	3,350	0.4	Other industries [3]	5,214	53	122	411	4,628	0.6
Phosphate rock	3,490	2	5	282	3,201	0.4							

[1] Diatomaceous earth, ganister, quartz, quartzite, silica rock, silica sand, siliceous mica schist, tripoli.
[2] Bauxite, molybdenum, titanium, tungsten, vanadium.
[3] Abrasive materials, asbestos, barite, feldspar, gold (placer), magnesite, manganese, mica, millstones and pulpstones, talc and soapstone, miscellaneous minerals.

Central-administrative-office employees (Table 17).—This table was compiled from data reported separately on special schedules and not included in the returns for the operating enterprises. It gives the number of employees reported by offices maintained independently of mine offices and usually at a distance from the mining operations, as in New York City, Chicago, or Philadelphia. Figures for these employees are included only in this table and in Table 1. In the cases of companies whose activities include manufacturing operations—smelting, refining (metals); calcining (gypsum, lime, etc.); finishing and polishing (stone); etc.—as well as mining, the data for central-administrative-office employees have been omitted from this table, and included in the statistics for the census of manufactures. In other words, data for these employees have been attributed to the final producing activities of such companies.

TABLE 17.—CENTRAL-ADMINISTRATIVE-OFFICE EMPLOYEES—NUMBER, BY SEX, AND SALARIES: 1929

INDUSTRY	NUMBER						SALARIES		
	Total		Principal salaried officers of corporations		Other central-administrative-office employees		Total	Principal salaried officers of corporations	Other central-administrative-office employees
	Male	Female	Male	Female	Male	Female			
All industries, total	3,628	974	721	22	2,907	952	$16,038,784	$7,217,165	$8,821,619
Coal:									
Anthracite	645	70	63		582	70	1,945,611	604,543	1,341,068
Bituminous	2,189	671	417	12	1,772	659	9,806,570	4,277,691	5,528,879
Metals:									
Gold, silver, copper, lead, and zinc	243	58	53	1	190	57	1,598,498	853,020	745,478
Iron ore	243	48	68		175	48	1,213,178	669,492	543,686
Stone:									
Basalt	29	10	16		13	10	199,134	116,099	83,035
Granite	6	2	3		3	2	14,085	8,160	5,925
Limestone	159	49	54	2	105	47	700,858	373,547	327,311
Marble	7	2	4		3	2	32,890	26,850	6,040
Sandstone	17	8	4	1	13	7	46,438	17,280	29,158
Slate	7	1	1		6	1	36,220	12,000	24,220
Miscellaneous	33	28	15	1	18	27	164,996	101,780	63,216
Other nonmetals:									
Barite	17	9	2		15	9	84,199	22,300	61,899
Bauxite	3	8	3	4		4	58,329	38,233	20,096
Clay	10	4	4		6	4	49,040	26,520	22,520
Feldspar	6	2	5	1	1	1	18,700	14,800	3,900
Phosphate rock	14	4	9		5	4	70,038	54,850	15,188

Size of enterprises according to number of wage earners (Table 18).—Small enterprises, those employing not more than 50 wage earners, constituted 73.2 per cent of the total number of enterprises shown in the table, but employed only 11.8 per cent of the wage earners, and contributed only 12.7 per cent of the total value of products of the mining and quarrying industries in 1929. In contrast, the 252 enterprises in the three largest classes, or 2.5 per cent of the total, employed 41 per cent of all wage earners, and produced 44.7 per cent of the total value of products. (See GENERAL EXPLANATIONS—Scope of the Census.)

TABLE 18.—CONDENSED SUMMARY FOR ENTERPRISES CLASSIFIED ACCORDING TO NUMBER OF WAGE EARNERS, FOR SELECTED INDUSTRIES: 1929

[This table does not include data for 36 enterprises (which employed no wage earners) in industries as follows: Fluorspar, 2; gold, lode, 5; granite, 8; lead, 5; limestone, 2; sandstone, 2; silver, 1; slate, 9; stone, miscellaneous, 2. The work in these mines was done on contract, or by proprietors and firm members]

INDUSTRY AND NUMBER OF WAGE EARNERS PER ENTERPRISE	Number of enterprises	Number of mines and quarries	Wage earners (average for the year)		Wages	Value of products
			Number	Per cent of total		
All industries, total[1]	10,099	11,566	806,418	100.0	$1,091,989,848	$2,392,675,433
Not reported [2]	31	34				393,788
1 to 5	2,742	2,799	8,194	1.0	9,396,707	26,534,310
6 to 20	3,004	3,217	34,079	4.2	41,157,843	110,865,987
21 to 50	1,611	1,795	53,183	6.6	62,886,743	165,715,372
51 to 100	1,055	1,201	76,362	9.5	90,300,011	203,492,140
101 to 250	988	1,267	158,623	19.7	197,858,911	438,137,794
251 to 500	416	607	145,883	18.1	193,140,968	376,989,918
501 to 1,000	169	274	110,931	13.8	157,945,002	354,318,185
1,001 to 2,500	60	188	87,279	10.8	129,075,507	327,712,509
2,501 and over	23	184	131,884	16.4	210,219,156	388,515,430
Coal:						
Anthracite, total	198	303	142,801	100.0	229,967,059	384,854,300
1 to 5	31	31	85	0.1	133,120	340,570
6 to 20	20	21	221	0.2	305,699	635,445
21 to 50	21	21	710	0.5	1,008,401	2,015,351
51 to 100	17	18	1,113	0.8	1,929,131	4,157,503
101 to 250	32	34	5,052	3.5	7,365,876	12,391,226
251 to 500	19	19	6,983	4.9	11,818,793	20,309,355
501 to 1,000	34	36	23,291	16.3	36,788,252	65,445,514
1,001 to 2,500	11	24	17,255	12.1	28,634,747	46,256,126
2,501 and over	13	99	88,091	61.7	141,983,040	233,303,210
Bituminous, total	4,976	5,620	458,732	100.0	574,800,072	966,693,771
1 to 5	1,984	1,384	3,979	0.9	4,085,903	7,463,210
6 to 20	1,109	1,123	12,316	2.7	13,628,802	21,454,276
21 to 50	676	720	23,169	5.1	24,360,921	40,331,155
51 to 100	619	692	45,624	9.9	50,637,241	84,438,106
101 to 250	708	830	114,508	25.0	137,277,417	235,169,035
251 to 500	334	472	116,890	25.5	150,100,319	245,678,628
501 to 1,000	105	196	67,093	14.6	88,961,042	145,588,095
1,001 to 2,500	34	142	47,404	10.3	64,027,533	108,148,409
2,501 and over	7	61	27,752	6.0	41,720,894	77,922,857

INDUSTRY AND NUMBER OF WAGE EARNERS PER ENTERPRISE	Number of enterprises	Number of mines and quarries	Wage earners (average for the year)		Wages	Value of products
			Number	Per cent of total		
Copper, total	143	180	44,502	100.0	$73,199,785	$283,517,373
Not reported	2	2	[3] 104	0.2	125,553	236,070
1 to 5	33	33				
6 to 20	40	41	496	1.1	695,767	1,409,286
21 to 50	14	17	398	0.9	478,095	339,918
51 to 100	12	13	877	2.0	1,180,777	2,149,213
101 to 250	11	13	1,359	4.2	3,094,149	5,740,568
251 to 500	10	15	3,393	7.6	5,413,749	19,844,290
501 to 1,000	7	9	5,096	11.5	8,277,633	28,384,809
1,001 to 2,500	11	13	[3] 32,279	72.5	53,934,062	224,913,119
2,501 and over	3	24				
Limestone, total [1]	1,165	1,254	32,300	100.0	39,188,364	117,251,184
1 to 5	283	286	897	2.8	966,867	2,793,932
6 to 20	438	465	5,400	16.7	5,726,795	17,037,766
21 to 50	288	312	9,313	28.8	11,502,934	35,207,255
51 to 100	107	119	7,436	23.0	8,577,781	24,069,070
101 to 250	41	58	6,398	19.8	8,312,732	23,280,082
251 to 500	0	6	[3] 2,856	8.8	4,101,255	14,863,079
501 to 1,000	2	8				
Iron ore, total	180	208	28,516	100.0	40,905,190	197,334,548
None	1	1	[3] 20	0.1	38,713	214,120
1 to 5	7	7				
6 to 20	13	13	153	0.5	194,357	983,867
21 to 50	28	31	949	3.3	1,335,912	13,001,900
51 to 100	45	46	3,452	12.1	5,167,454	22,538,910
101 to 250	59	76	9,663	33.9	14,318,594	76,392,497
251 to 500	16	20	5,262	18.5	7,726,541	38,846,567
501 to 1,000	10	11	[3] 9,017	31.6	12,123,619	45,356,687
1,001 to 2,500	1	3				

See footnotes at end of table.

TABLE 18.—CONDENSED SUMMARY FOR ENTERPRISES CLASSIFIED ACCORDING TO NUMBER OF WAGE EARNERS, FOR SELECTED INDUSTRIES: 1929—Continued

INDUSTRY AND NUMBER OF WAGE EARNERS PER ENTERPRISE	Number of enterprises	Number of mines and quarries	Wage earners (average for the year)		Wages	Value of products
			Number	Per cent of total		
Sand and gravel, total	957	1,165	15,994	100.0	$22,779,984	$102,311,914
1 to 5	263	292	976	6.1	1,594,404	8,394,483
6 to 20	485	561	5,216	32.6	7,827,143	34,897,567
21 to 50	160	214	4,964	31.0	6,665,331	28,543,520
51 to 100	31	49	2,175	13.6	3,021,472	11,283,530
101 to 250	17	48	[3] 2,663	16.6	3,671,584	19,192,814
251 to 500	1	1				
Lead, total[1]	150	166	14,007	100.0	22,917,435	67,541,816
1 to 5	36	38	103	0.7	118,078	256,181
6 to 20	38	42	435	3.1	618,816	858,928
21 to 50	32	32	990	7.1	1,528,295	3,284,171
51 to 100	16	17	1,144	8.2	1,746,630	5,251,619
101 to 250	13	16	2,170	15.5	3,356,862	7,862,014
251 to 500	9	11	3,786	27.0	6,526,132	18,005,058
501 to 1,000	5	7	[3] 5,379	38.4	9,022,632	32,023,845
1,001 to 2,500	1	3				
Zinc, total	148	204	11,900	100.0	16,274,339	44,866,026
1 to 5	18	19	60	0.5	59,558	164,158
6 to 20	32	35	415	3.5	551,596	1,399,311
21 to 50	29	31	960	8.1	1,331,994	4,041,469
51 to 100	42	46	2,983	25.1	3,997,911	12,454,427
101 to 250	18	36	2,739	23.0	3,702,338	10,412,038
251 to 500	6	33	2,176	18.3	2,644,056	7,756,292
501 to 1,000	2	2	[3] 2,567	21.6	3,986,886	8,638,331
1,001 to 2,500	1	2				
Granite, total[1]	398	426	10,037	100.0	12,639,524	30,355,773
Not reported	3	3				21,194
1 to 5	149	151	380	3.8	464,178	1,380,277
6 to 20	124	134	1,381	13.8	1,691,494	4,955,962
21 to 50	72	83	2,426	24.2	3,152,080	7,060,090
51 to 100	30	34	2,141	21.3	2,384,804	5,835,977
101 to 250	17	17	2,510	25.0	3,430,388	7,371,880
251 to 500	3	4	1,199	11.9	1,516,580	3,730,393
Gold, lode, total[1]	169	179	5,353	100.0	8,655,505	17,626,574
Not reported	3	3				10,616
1 to 5	66	69	183	3.4	233,423	663,002
6 to 20	62	67	676	12.6	948,647	1,635,478
21 to 50	15	15	496	9.3	825,020	1,526,070
51 to 100	13	13	894	16.7	1,490,005	2,329,462
101 to 250	8	10	[3] 3,104	58.0	5,158,410	11,461,946
251 to 500	1	1				
1,001 to 2,500	1	1				
Clay, total	199	236	4,139	100.0	3,757,998	10,753,445
Not reported	2	2	[3] 185	4.5	170,791	477,060
1 to 5	60	67				
6 to 20	86	104	960	23.2	961,822	2,535,495
21 to 50	35	38	1,159	28.0	1,217,051	3,229,654
51 to 100	11	14	829	20.0	670,367	2,218,588
101 to 250	3	8	[3] 1,006	24.3	737,967	2,292,648
251 to 500	2	3				
Slate, total[1]	111	121	4,098	100.0	4,884,038	10,431,044
1 to 5	15	15	44	1.1	60,718	135,600
6 to 20	37	38	466	11.4	588,636	1,013,172
21 to 50	30	32	1,029	25.1	1,247,965	3,361,801
51 to 100	19	23	1,272	31.0	1,558,126	3,392,159
101 to 250	10	13	1,287	31.4	1,428,593	2,528,312
Marble, total	70	88	3,350	100.0	$3,291,541	$7,538,905
1 to 5	14	14	38	1.1	46,148	180,735
6 to 20	24	25	283	8.4	316,149	875,326
21 to 50	10	10	277	8.3	343,047	669,916
51 to 100	13	16	904	27.0	803,944	1,767,440
101 to 250	8	11	[3] 1,848	55.2	1,782,253	4,045,488
251 to 500	1	12				
Phosphate rock, total	26	33	3,201	100.0	3,303,940	13,043,769
1 to 5	1	1	[3] 53	1.7	52,168	226,009
6 to 20	5	5				
21 to 50	3	3	115	3.6	86,485	235,402
51 to 100	5	6	379	11.8	394,843	1,372,941
101 to 250	9	14	1,619	50.6	1,628,574	5,664,823
251 to 500	3	4	1,035	32.3	1,141,870	5,544,594
Basalt, total	137	144	3,053	100.0	4,498,093	15,543,687
Not reported	1	1	[3] 83	2.7	100,246	295,918
1 to 5	27	27				
6 to 20	64	65	738	24.2	1,111,735	3,449,271
21 to 50	29	30	920	30.4	1,415,298	4,353,114
51 to 100	13	16	889	29.1	1,223,585	4,033,888
101 to 250	3	5	414	13.6	647,229	2,911,496
Silver, total[1]	66	73	2,593	100.0	4,326,719	8,453,782
Not reported	1	1	[3] 46	1.8	61,566	148,907
1 to 5	13	15				
6 to 20	23	24	294	11.3	422,022	946,783
21 to 50	16	19	511	19.7	878,769	1,132,122
51 to 100	6	7	454	17.5	823,920	1,863,708
101 to 250	6	6	[3] 1,288	49.7	2,140,442	4,362,262
251 to 500	1	1				
Sulphur and pyrites, total	9	10	2,199	100.0	3,482,606	37,126,148
6 to 20	3	3	[3] 2,199	100.0	3,482,606	37,126,148
51 to 100	3	3				
501 to 1,000	3	4				
Sandstone, total[1]	143	170	2,156	100.0	2,626,437	6,306,477
1 to 5	45	45	132	6.1	142,390	412,607
6 to 20	69	81	810	37.6	1,000,622	2,251,022
21 to 50	23	35	709	32.9	851,587	2,197,086
51 to 100	5	5	[3] 505	23.4	631,838	1,445,762
101 to 250	1	4				
Gypsum, total	60	63	2,078	100.0	2,627,733	5,740,188
1 to 5	10	10	32	1.5	30,307	114,720
6 to 20	18	19	216	10.4	257,475	735,806
21 to 50	16	17	545	26.2	694,461	1,789,602
51 to 100	14	15	[3] 1,285	61.8	1,636,490	3,100,060
101 to 250	2	2				
Stone, miscellaneous, total[1]	202	232	1,841	100.0	2,405,906	8,466,608
Not reported	1	1	[3] 309	16.8	382,897	1,353,444
1 to 5	115	116				
6 to 20	68	71	709	38.5	916,186	3,497,088
21 to 50	14	15	429	23.3	476,391	1,342,606
51 to 100	2	3	[3] 394	21.4	630,432	2,273,470
101 to 250	2	26				

[1] See headnote.
[2] Includes data for 1 enterprise in the iron-ore industry which reported "No wage earners." The work in this mine was done on contract, and therefore no wage earners were employed.
[3] Combined to avoid disclosing, exactly or approximately, the data reported by individual enterprises.

Prevailing hours of labor (Table 19).—The wage earners of each enterprise are classed as a whole regardless of the fact that some worked more or fewer hours than those prevailing for the majority. For all industries combined, the 48-hour week predominated, enterprises in this class employing 66.7 per cent of the number of wage earners and contributing 59.3 per cent of the value of products of the enterprises covered by this table. Those enterprises in which wage earners were normally employed more than 48 hours per week accounted for 19.1 per cent of the number of wage earners and produced 30.9 per cent of the total product shown.

TABLE 19.—CONDENSED SUMMARY FOR ENTERPRISES CLASSIFIED ACCORDING TO PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED INDUSTRIES: 1929

[This table does not include data for 2,720 enterprises whose value of product was less than $20,000. Such enterprises were permitted to report on an abbreviated schedule, which did not call for information pertaining to prevailing hours of labor. The number of enterprises in this class was distributed as follows: Coal, bituminous, 2,155; limestone, 149; granite, 95; stone, miscellaneous, 91; gold, lode, 60; copper, 42; lead, 35; sandstone, 22; slate, 20; silver, 17; zinc, 10; basalt, 9; gold, placer, 8; marble, 7. The combined value of products represented by these enterprises was $22,132,084, or less than 1 per cent of that for all mining and quarrying industries. Also, data for 27 enterprises (basalt, 1; clay, 2; gold, lode, 1; granite, 3; lead, 1; other industries, 19) which either employed no wage earners or failed to report them are not included in this table]

INDUSTRY AND PREVAILING HOURS OF LABOR PER WEEK	Number of enterprises	Number of mines and quarries	Wage earners (average for the year)	Wages	Value of products
All industries, total [1]	7,388	8,852	792,395	$1,077,627,073	$2,370,456,106
Not reported	12	12	91	94,676	168,072
Under 25	130	138	10,475	9,307,199	15,237,195
25 and over but under 36	257	334	40,457	45,535,112	73,332,785
36 and over but under 40	59	69	5,764	6,951,203	11,419,387
40 [2]	297	339	29,203	36,987,627	66,180,023
Over 40 but under 44	32	33	3,529	4,338,834	9,506,557
44 and over but under 48	331	371	22,977	29,766,300	56,661,050
48	3,124	3,873	528,394	743,138,406	1,406,190,024
Over 48 but under 54	393	468	15,969	19,960,757	55,136,857
54 and over but under 63	2,593	2,993	128,122	171,558,010	643,288,441
63 and over	160	222	7,324	9,488,949	33,335,115
Coal:					
Anthracite, total	198	303	142,801	229,967,059	384,854,300
Under 25	3	3	460	401,132	536,286
25 and over but under 36	4	4	452	560,154	950,709
40	4	4	30	68,240	128,039
44 and over but under 48	5	7	3,186	5,421,847	8,492,478
48	151	254	138,226	222,860,290	373,564,928
Over 48 but under 54	3	3	11	17,407	40,807
54 and over but under 63	26	26	[3] 436	637,989	1,141,053
63 and over	2	2			
Bituminous, total [1]	2,821	3,465	447,125	563,040,468	948,966,686
Under 25	111	119	9,011	8,826,904	14,319,838
25 and over but under 36	226	299	39,691	44,606,136	71,422,605
36 and over but under 40	46	55	5,587	6,742,933	10,815,825
40	221	253	26,842	34,059,833	59,075,055
Over 40 but under 44	19	20	3,075	4,268,993	8,037,411
44 and over but under 48	89	103	11,514	13,422,751	22,140,214
48	1,941	2,398	320,718	416,093,901	699,431,016
Over 48 but under 54	27	41	3,672	3,426,101	5,331,360
54 and over but under 63	138	173	25,755	31,107,056	57,505,256
63 and over	3	4	360	485,860	888,106
Copper, total [1]	101	138	44,234	72,917,249	283,230,039
25 and over but under 36	1	1	[3] 1,255	2,048,932	10,638,168
44 and over but under 48	1	2			
Over 48 but under 54	6	7			
48	41	70	24,416	39,345,127	122,960,811
54 and over but under 63	52	58	18,563	31,523,190	149,631,060
Limestone, total [1]	1,018	1,107	31,578	38,500,050	115,833,124
Under 25	1	1	[3] 118	148,196	314,878
25 and over but under 36	6	9			
36 and over but under 40	2	3			
40	12	13	450	400,749	1,140,312
Over 40 but under 44	2	2	[3] 307	332,410	896,940
44 and over but under 48	21	22			
48	127	134	4,652	6,090,406	14,736,158
Over 48 but under 54	98	116	2,891	3,899,213	11,137,645
54 and over but under 63	724	780	22,161	26,396,185	83,889,915
63 and over	25	27	999	1,232,891	3,717,267
Iron ore, total	180	208	28,516	40,905,190	197,334,548
Not reported	1	1	[3] 424	604,932	1,387,202
40	4	4			
Over 40 but under 44	1	1			
44 and over but under 48	5	5	974	1,468,314	4,468,288
48	87	99	15,103	22,843,909	73,767,405
Over 48 but under 54	6	7	367	371,940	1,418,948
54 and over but under 63	74	86	[3] 11,648	15,616,095	116,292,615
63 and over	2	5			
Sand and gravel, total	957	1,165	15,994	22,779,984	102,311,914
Under 25	1	1	[3] 70	85,074	373,645
25 and over but under 36	7	8			
36 and over but under 40	2	2			
40	14	17	273	423,174	1,259,752
Over 40 but under 44	2	2	[3] 339	567,750	2,096,275
44 and over but under 48	26	28			
48	123	155	1,273	2,046,528	9,035,111
Over 48 but under 54	53	63	484	613,384	2,647,159
54 and over but under 63	658	787	11,366	16,199,898	74,222,741
63 and over	71	102	2,189	2,844,176	12,677,231
Lead, total [1]	119	135	13,831	22,706,576	67,320,095
25 and over but under 36	1	1	[3] 6,634	10,256,797	35,682,472
48	49	58			
Over 48 but under 54	11	11	1,941	3,322,462	10,269,628
Lead—Continued					
54 and over but under 63	55	60	4,793	$8,296,930	$19,777,301
63 and over	3	5	463	830,387	1,590,604
Zinc, total [1]	138	194	11,861	16,237,378	44,779,323
36 and over but under 40	1	1	[3] 550	811,092	2,453,593
Over 40 but under 44	1	1			
44 and over but under 48	1	4			
Over 48 but under 54	3	3			
48	66	96	5,897	8,061,673	21,984,948
54 and over but under 63	58	81	5,312	7,211,891	19,747,541
63 and over	8	8	102	152,722	593,241
Granite, total [1]	308	336	9,806	12,404,284	29,788,331
Under 25	4	4	[3] 44	58,015	120,281
25 and over but under 36	1	1			
36 and over but under 40	4	4	[3] 97	88,394	198,634
Over 40 but under 44	2	2			
40	17	20	595	676,222	1,532,818
44 and over but under 48	110	118	4,239	5,889,779	11,826,457
48	75	88	2,326	3,277,504	9,155,696
Over 48 but under 54	22	22	671	556,165	1,345,533
54 and over but under 63	73	77	1,834	1,858,205	5,608,912
Gold, lode, total [1]	113	123	5,079	8,339,052	17,215,743
Under 25	1	1	[3] 1,971	3,173,386	5,155,841
48	47	51			
Over 48 but under 54	5	5	326	576,456	812,063
54 and over but under 63	59	65	[3] 2,782	4,589,210	11,247,839
63 and over	1	1			
Clay, total [1]	197	234	4,139	3,757,998	10,738,745
Under 25	2	2	[3] 78	60,969	286,479
25 and over but under 36	3	3			
36 and over but under 40	1	1			
40	3	3	[3] 98	91,795	214,120
Over 40 but under 44	1	1			
44 and over but under 48	12	13	281	208,542	872,538
48	78	91	744	786,914	1,654,145
Over 48 but under 54	20	23	311	289,676	760,957
54 and over but under 63	67	84	1,710	1,580,139	5,177,323
63 and over	10	13	917	679,963	1,773,183
Slate, total [1]	100	110	4,027	4,803,834	10,325,664
Not reported	12	12	91	94,676	168,072
40	2	2	[3] 925	1,056,473	2,011,776
44 and over but under 48	12	13			
48	4	4	52	64,447	133,896
Over 48 but under 54	51	59	2,028	2,617,345	4,946,847
54 and over but under 63	17	18	[3] 931	970,893	3,065,073
63 and over	2	2			
Marble, total [1]	63	81	3,308	3,249,690	7,490,368
25 and over but under 36	1	1	[3] 217	265,617	577,095
36 and over but under 40	1	1			
44 and over but under 48	5	7			
48	10	10	94	133,154	352,129
Over 48 but under 54	7	9	584	490,105	1,072,964
54 and over but under 63	38	51	[3] 2,413	2,360,814	5,488,180
63 and over	1	2			
Phosphate rock, total	26	33	3,201	3,303,940	13,043,769
44 and over but under 48	4	6	434	487,049	1,654,248
48	4	5	[3] 193	248,409	704,163
Over 48 but under 54	1	1			
54 and over but under 63	15	19	[3] 2,574	2,568,482	10,685,358
63 and over	2	2			
Basalt, total [1]	127	134	3,016	4,456,211	15,453,973
40	3	3	[3] 127	169,076	448,238
Over 40 but under 44	1	1			
44 and over but under 48	1	1			
48	26	28	406	608,871	1,969,822
Over 48 but under 54	9	9	73	98,941	237,478
54 and over but under 63	82	87	2,319	3,474,517	12,425,262
63 and over	5	5	91	104,806	373,173
Silver, total [1]	50	57	2,451	4,125,163	8,327,914
Under 25	1	1	[3] 90	139,013	492,545
48	11	13			
54 and over but under 63	36	41	[3] 2,361	3,986,150	7,835,369
63 and over	2	2			

See footnotes at end of table.

TABLE 19.—CONDENSED SUMMARY FOR ENTERPRISES CLASSIFIED ACCORDING TO PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED INDUSTRIES: 1929—Continued

INDUSTRY AND PREVAILING HOURS OF LABOR PER WEEK	Number of enterprises	Number of mines and quarries	Wage earners (average for the year)	Wages	Value of products
Gypsum, total	60	63	2,078	$2,627,733	$5,740,188
Under 25	1	1	[3] 89	112,487	276,481
25 and over but under 36	2	2			
40	3	3	[3] 180	221,891	419,777
44 and over but under 48	1	1			
48	20	20	650	861,937	1,721,566
Over 48 but under 54	3	3	104	101,176	218,537
54 and over but under 63	28	31	[3] 1,055	1,330,242	3,103,827
63 and over	2	2			
Sandstone, total [1]	123	150	2,058	2,516,315	6,131,345
Under 25	1	1	[3] 137	149,656	384,280
40	4	5			
Over 40 but under 44	1	1			
44 and over but under 48	14	17	344	375,980	754,178
48	28	28	399	527,020	1,416,258
Over 48 but under 54	7	12	71	85,456	284,794
54 and over but under 63	66	84	[3] 1,107	1,377,594	3,291,835
63 and over	2	2			
Stone, miscellaneous, total [1]	113	143	1,569	$2,089,728	$7,748,648
36 and over but under 40	2	2	[3] 74	74,422	169,185
44 and over but under 48	3	3			
48	36	41	381	562,142	2,191,543
Over 48 but under 54	10	11	149	150,628	427,876
54 and over but under 63	52	57	743	942,597	3,366,281
63 and over	10	29	222	359,939	1,593,763
Gold, placer, total [1]	24	29	534	928,995	3,743,941
25 and over but under 36	1	1	[3] 39	51,003	92,610
48	3	3			
Over 48 but under 54	1	1			
54 and over but under 63	19	24	495	877,992	3,651,331

[1] See headnote.
[2] Includes data for 1 small enterprise shown as "Not reported" in the figures for the iron-ore industry, to avoid disclosure of individual operations.
[3] Combined to avoid disclosing, exactly or approximately, the data reported by individual enterprises.

Days per week in operation (Table 20).—The classification of an enterprise for this table is based upon the number of days per week most representative of operations for the year as a whole and does not take into account those variations in weekly operations due to market changes or other factors. Enterprises in which the 6-day week prevailed employed 78.6 per cent of the total number of wage earners, and accounted for 77.1 per cent of the total value of products of the mining and quarrying enterprises covered by this table.

TABLE 20.—CONDENSED SUMMARY FOR ENTERPRISES CLASSIFIED ACCORDING TO NUMBER OF DAYS IN OPERATION PER WEEK, BY INDUSTRIES: 1929

[This table does not include data for 2,720 enterprises whose value of product was less than $20,000. Such enterprises were permitted to report on an abbreviated schedule, which did not call for information pertaining to time in operation. The number of enterprises in this class was distributed as follows: Coal, bituminous, 2,155; limestone, 149; granite, 95; stone, miscellaneous, 91; gold, lode, 60; copper, 42; lead, 35; sandstone, 22; slate, 20; silver, 17; zinc, 10; basalt, 9; gold, placer, 8; marble, 7. The combined value of products represented by these enterprises was $22,132,084, or less than 1 per cent of that for all mining and quarrying industries]

INDUSTRY AND DAYS PER WEEK	Number of enterprises	Number of mines and quarries	Wage earners, December 14 or nearest representative day [1]	Wages	Value of products
All industries, total [2]	7,415	8,882	833,234	$1,077,627,073	$2,370,099,094
Not reported	40	43	102	102,521	574,924
3 or under	141	150	13,868	11,442,122	18,403,955
3½	35	43	5,421	5,770,807	9,076,565
4	191	237	29,812	32,332,100	52,361,303
4½	50	70	7,060	8,866,550	14,526,302
5	448	513	45,746	52,324,872	94,954,934
5½	790	908	35,010	41,222,347	93,998,488
6	5,297	6,439	654,607	859,287,754	1,828,653,222
6½	26	34	3,545	5,852,557	10,284,305
7	307	445	37,163	60,425,443	238,865,006
Coal, anthracite, total	198	303	147,260	229,967,059	384,854,300
3 or under	2	2	[3] 714	601,807	839,905
3½	1	1			
4½	1	1			
7	1	1			
4	3	3	475	556,154	938,836
5	6	6	86	97,750	136,993
5½	14	16	3,429	5,461,584	8,529,593
6	170	273	142,556	223,249,674	374,358,973
Coal, bituminous, total [2]	2,821	3,465	472,965	563,040,468	948,966,686
3 or under	124	133	13,277	11,039,617	17,751,639
3½	33	41	5,397	5,727,775	9,012,723
4	159	204	28,376	30,903,586	49,199,860
4½	46	66	7,858	8,742,060	14,075,921
5	269	317	40,437	46,937,039	86,190,041
5½	84	99	8,463	9,815,204	17,291,716
6	2,101	2,600	368,774	449,167,986	759,747,731
7	5	5	393	647,201	1,697,055
Copper, total [2]	101	138	43,162	$72,917,249	$283,230,039
4	1	1	[3] 750	1,403,649	7,483,334
6½	4	5			
6	46	77	25,496	41,105,639	132,338,196
7	50	55	16,916	30,407,961	143,408,509
Limestone, total [2]	1,018	1,107	34,532	38,500,050	115,833,124
3 or under	1	1	[3] 136	239,702	571,146
6½	2	3			
4	6	6	332	250,780	533,987
5	36	39	726	741,168	2,158,109
5½	203	235	5,632	6,608,348	19,323,043
6	742	793	26,685	29,495,189	90,444,943
7	28	30	1,021	1,164,863	2,801,896
Iron ore, total	180	208	28,582	40,905,190	197,334,548
Not reported	1	1	[3] 96	95,272	1,166,231
6½	2	4			
5	9	10	794	1,074,148	3,190,611
5½	9	9	935	1,318,803	3,843,106
6	155	179	26,572	38,178,191	187,782,970
7	4	5	185	238,776	1,351,630
Sand and gravel, total	957	1,165	18,885	22,779,984	102,311,914
4	8	9	151	247,296	831,461
5	20	22	269	298,130	919,373
5½	80	91	1,015	1,246,688	4,798,907
6	814	998	16,171	19,702,610	90,245,773
6½	1	1	[3] 1,279	1,285,260	5,516,400
7	34	44			

See footnotes at end of table.

TABLE 20.—CONDENSED SUMMARY FOR ENTERPRISES CLASSIFIED ACCORDING TO NUMBER OF DAYS IN OPERATION PER WEEK, BY INDUSTRIES: 1929—Continued

[See note at head of this table]

INDUSTRY AND DAYS PER WEEK	Number of enterprises	Number of mines and quarries	Wage earners, December 14 or nearest representative day [1]	Wages	Value of products
Lead, total [2]	120	136	14,330	$22,706,576	$67,325,557
Not reported	1	1	[3] 7,888	12,045,578	41,229,928
4	1	1			
6	58	67			
6½	8	10	1,518	2,594,450	6,918,753
7	52	57	4,924	8,066,548	19,176,876
Zinc, total [2]	138	194	12,757	16,237,378	44,779,323
5	1	1	[3] 424	475,215	1,777,991
5½	1	4			
6½	1	1			
6	105	153	8,962	11,105,925	31,627,736
7	30	35	3,371	4,656,238	11,473,596
Granite, total [2]	311	339	10,786	12,404,284	29,809,525
Not reported	5	5	9	7,720	44,939
3 or under	3	3	[3] 39	51,595	99,336
3½	1	1			
4	3	3	[3] 248	99,355	240,693
4½	1	1			
5	25	28	862	766,348	1,744,170
5½	144	153	5,692	7,038,297	14,607,439
6	129	145	3,936	4,440,969	13,072,948
Gold, lode, total [2]	114	124	5,492	8,339,052	17,220,059
3 or under	1	1	[3] 74	121,166	131,808
5½	1	1			
6½	2	2			
6	50	54	2,457	3,624,920	5,850,853
7	60	66	2,961	4,592,966	11,237,398
Clay, total	199	236	4,118	3,757,998	10,753,445
Not reported	2	2	[3] 10	9,869	71,867
3 or under	2	2			
4	2	2	[3] 93	98,419	413,726
4½	2	2			
5	14	14	255	244,331	737,202
5½	32	37	1,131	852,740	2,966,402
6	137	167	2,322	2,287,032	5,878,957
6½	2	4	[3] 307	265,607	685,231
7	6	6			
Slate, total [2]	100	110	4,011	4,803,834	10,325,664
Not reported	12	12	91	94,676	168,072
5	7	7	435	501,046	933,420
5½	61	71	2,796	3,221,987	6,417,346
6	20	20	689	986,125	2,806,826
Marble, total [2]	63	81	3,388	3,249,690	7,490,368
3 or under	1	1	[3] 114	105,013	287,130
4	1	1			
5	3	3			
5½	20	24	1,649	1,527,485	3,217,308
6	38	52	1,625	1,617,192	3,985,930
Basalt, total [2]	128	135	3,342	4,456,211	15,456,473
Not reported	1	1	[3] 97	187,449	497,738
5	9	9			
5½	13	15	667	774,472	2,325,098
6	99	103	2,473	3,427,182	12,448,887
7	6	7	105	67,108	184,750
Phosphate rock, total	26	33	3,294	3,303,940	13,043,769
5	3	5	457	509,313	2,181,786
5½	6	6	359	360,831	1,053,927
6	17	22	2,478	2,433,796	9,808,056
Sandstone, total [2]	123	150	2,872	2,516,315	6,131,345
3 or under	1	1	[3] 122	127,527	432,641
4	1	1			
7	1	1			
5	11	15	683	431,011	843,449
5½	13	14	195	133,595	396,847
6	96	118	1,872	1,824,182	4,458,408
Silver, total [2]	50	57	2,592	4,125,163	8,327,914
6	12	14	[3] 594	1,064,685	2,083,646
6½	2	2			
7	36	41	1,998	3,060,478	6,244,268
Stone, miscellaneous, total [2]	113	143	2,189	$2,089,728	$7,748,648
4	1	1	[3] 86	56,864	169,934
5	3	3			
5½	15	16	219	196,129	522,357
6	88	117	1,749	1,694,344	6,601,621
7	6	6	135	142,391	454,736
Sulphur and pyrites, total	9	10	2,040	3,482,606	37,126,148
6	5	6	[3] 2,040	3,482,606	37,126,148
6½	1	1			
7	3	3			
Gypsum, total	60	63	1,912	2,627,733	5,740,188
3 or under	1	1	[3] 78	112,487	276,481
4	2	2			
5	5	5	121	152,067	347,341
5½	4	4	334	379,902	730,821
6	46	49	[3] 1,379	1,983,277	4,385,545
7	2	2			
Silica, total [4]	70	73	1,506	1,677,407	4,645,142
Not reported	1	1	[3] 10	11,131	23,597
3 or under	2	2			
7	1	1			
5	5	5	86	59,234	130,391
5½	11	11	151	141,311	468,135
6	50	53	1,259	1,465,731	4,023,019
Asphalt and bituminous rock, total	21	25	1,481	1,254,835	5,123,836
6	21	25	1,481	1,254,835	5,123,836
Minor metals, total [5]	26	30	1,289	1,506,851	6,649,976
Not reported	1	1	[3] 25	9,725	31,265
5	2	2			
5½	4	4	61	47,577	89,925
6	12	15	815	835,184	3,872,894
7	7	8	388	614,365	2,655,892
Sand, molding, total	90	128	1,236	1,290,854	4,775,957
Not reported	7	9			112,187
4	1	1	[3] 28	25,321	136,569
5	4	6			
5½	19	26	230	243,376	723,832
6	59	86	978	1,022,157	3,803,369
Fluorspar, total	28	36	1,100	1,112,322	2,858,344
Not reported	1	1	[3] 1,100	1,112,322	2,858,344
5	1	1			
6	25	33			
7	1	1			
Fuller's and filtering earths, total	22	24	1,043	853,228	4,811,629
5½	5	6	[3] 523	363,133	1,542,742
6	15	16		490,095	3,268,887
7	2	2			
Sand, glass, total	25	32	1,027	1,313,503	5,359,216
4	1	1	[3] 1,027	1,313,503	5,359,216
5½	6	11			
6	18	20			
Mercury, total	40	40	1,026	1,383,603	2,820,166
Not reported	4	4			27,845
6	13	13	295	282,641	653,015
7	23	23	731	1,100,962	2,139,306
Barite, total	42	44	874	648,488	1,801,314
Not reported	2	3	[3] 49	37,843	143,595
5	4	4			
5½	3	4	57	23,775	71,024
6	30	30	745	563,699	1,422,880
7	3	3	23	23,171	163,815

See footnotes at end of table.

TABLE 20.—CONDENSED SUMMARY FOR ENTERPRISES CLASSIFIED ACCORDING TO NUMBER OF DAYS IN OPERATION PER WEEK, BY INDUSTRIES: 1929—Continued

[See note at head of this table]

INDUSTRY AND DAYS PER WEEK	Number of enterprises	Number of mines and quarries	Wage earners, December 14 or nearest representative day [1]	Wages	Value of products
Feldspar, total	51	58	671	$526,890	$1,935,335
3 or under	2	2	[3] 13	6,676	24,543
7	1	1			
5	6	6	44	33,515	93,682
5½	14	21	194	157,345	558,247
6	28	28	420	329,360	1,253,863
Gold, placer, total [2]	24	29	601	928,995	3,743,941
6	4	4	33	37,125	66,405
7	20	25	568	891,870	3,677,536
Talc and soapstone, total	25	28	590	615,355	2,687,953
Not reported	1	1	[3] 7	4,742	20,445
4	1	1			
5	1	1			
5½	7	7	275	204,749	614,791
6	11	14	262	329,328	1,647,213
7	4	4	46	76,536	405,504
Abrasive materials, total [4]	30	36	478	491,484	1,411,284
Not reported	1	1	[3] 15	12,328	56,363
3 or under	1	1			
5	1	1			
5½	5	5	54	48,420	133,919
6	22	28	409	430,736	1,221,002
Magnesite, total	5	5	387	465,936	2,043,905
6	1	1	[3] 387	465,936	2,043,905
7	4	4			
Manganese, total	19	21	381	$392,362	$1,184,561
5	1	1	[3] 243	198,073	471,973
5½	1	1			
6	12	12			
6½	1	1			
7	4	6	138	194,289	712,588
Miscellaneous minerals, total [7]	19	19	337	301,197	3,502,876
5½	4	4	49	32,375	134,617
6	13	13	[3] 288	268,822	3,368,259
7	2	2			
Asbestos, total	11	11	270	236,789	397,482
5½	2	2	[3] 270	236,789	397,482
6	8	8			
7	1	1			
Mica, total	24	32	248	195,142	516,305
5	1	1	[3] 92	81,356	165,102
5½	7	9			
6	16	22	156	113,786	351,203
Millstones and pulpstones, total	14	14	180	221,318	620,835
5	1	1	[3] 180	221,318	620,835
5½	2	2			
6	11	11			

[1] The totals differ, in some industries considerably, from those for "Wage earners (average for the year)" given in other tables of this report. See GENERAL EXPLANATIONS—Persons Engaged.
[2] See headnote.
[3] Combined to avoid disclosing, exactly or approximately, the data reported by individual enterprises.
[4] Diatomaceous earth, 10 enterprises; ganister, 18; quartz, 9; quartzite, 2; silica rock, 6; silica sand, 14; siliceous mica schist, 3; tripoli, 8.
[5] Bauxite, 9 enterprises; molybdenum, 2; titanium, 1; tungsten, 12; vanadium, 2.
[6] Emery, 2 enterprises; garnet and industrial sapphires and diamonds, 6; grinding pebbles and tube-mill lining, 2; grindstones, oilstones, whetstones, scythestones, and rubbing stones, 13; pumice and volcanic ash (pumicite), 7.
[7] Borates, 2 enterprises; cyanite, 2; graphite, 5; lithium minerals (amblygonite, lepidolite, and spodumene), 4; mineral pigments, 4; tantalum, 1; vermiculite, 1.

Wage earners employed, by months (Tables 21, 22, and 23).—Table 21 gives the numbers of wage earners employed under ground in underground mines and quarries, contrasted with those employed in open-pit mines and quarries together with surface employees of underground operations. Tables 22 and 23 reflect in a general way the extent of employment during the year, for industries, and by States.

TABLE 21.—WAGE EARNERS, BY MONTHS, EMPLOYED ON THE SURFACE AND UNDERGROUND, BY INDUSTRIES: 1929 [1]

[This table does not include data for 2,720 enterprises whose value of products was less than $20,000. Such enterprises were permitted to report on an abbreviated schedule, which did not call for information pertaining to surface or underground employees. The number of wage earners in this class was 14,023, or 1.7 per cent of the total for all mining and quarrying industries. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

INDUSTRY AND CLASS OF WAGE EARNER [1]	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
All industries, total	792,395	796,481	798,262	795,307	786,974	783,913	770,431	*769,132*	791,548	800,475	813,128	809,328	793,760	94.6
Surface	229,675	*211,521*	212,972	220,054	231,214	237,727	238,028	238,347	241,606	239,612	238,987	230,205	215,831	87.5
Underground	562,720	584,960	585,290	575,253	555,760	546,186	532,403	*530,785*	549,942	560,863	574,141	579,123	577,929	90.7
COAL														
Anthracite (Pennsylvania), total	142,801	151,783	147,181	139,468	145,788	144,770	132,159	*127,103*	140,835	144,195	146,303	146,792	147,241	83.7
Surface	31,944	**33,778**	32,616	31,103	32,409	32,242	29,827	*29,111*	31,538	32,283	32,789	32,860	32,773	86.2
Underground	110,857	**118,005**	114,565	108,365	113,379	112,528	102,332	*97,992*	109,297	111,912	113,514	113,932	114,468	83.0
Bituminous, total	447,125	466,779	470,383	462,662	433,182	424,457	*422,015*	425,558	434,086	444,241	456,358	461,759	464,020	89.7
Surface	67,688	69,478	70,301	68,836	65,420	*64,877*	65,256	65,713	66,673	67,404	69,113	69,512	69,671	92.3
Underground	379,437	397,301	400,082	393,826	367,762	359,580	*356,759*	359,845	367,413	376,837	387,245	392,247	394,349	89.2
METALS														
Copper, total	44,234	*42,107*	43,655	45,325	46,569	46,582	44,637	44,446	43,508	42,933	44,188	44,656	42,200	90.4
Surface	18,921	18,021	18,422	18,775	19,465	20,125	19,675	19,594	19,024	18,814	18,837	18,516	*17,783*	88.4
Underground	25,313	*24,086*	25,233	26,550	27,104	26,457	24,962	24,852	24,484	24,119	25,351	26,140	24,417	88.9
Iron, total	28,516	*26,649*	26,114	26,633	28,630	29,859	30,278	30,223	30,300	29,984	29,499	28,104	26,916	84.7
Surface	12,655	*9,925*	10,232	10,927	12,745	14,153	14,582	14,530	14,302	13,910	13,448	12,170	10,926	68.1
Underground	15,861	15,724	15,882	15,706	15,885	15,706	15,696	*15,693*	15,998	16,074	16,051	15,928	15,990	97.6
Lead, total	13,831	13,649	*13,310*	13,524	13,615	13,702	14,027	14,050	14,194	14,094	13,925	14,077	13,810	93.8
Surface	4,572	4,435	*4,331*	4,335	4,389	4,496	4,690	4,721	4,746	4,831	4,682	4,711	4,501	89.7
Underground	9,259	9,214	*8,979*	9,189	9,226	9,206	9,337	9,329	9,448	9,263	9,243	9,366	9,309	95.0
Zinc, total	11,861	11,014	10,913	11,911	12,501	12,155	12,549	12,288	12,572	12,347	12,554	11,700	*9,526*	78.2
Surface	3,422	3,162	3,136	3,362	3,513	3,517	3,511	3,556	3,655	3,611	3,627	3,434	*2,982*	81.6
Underground	8,439	7,852	7,777	8,549	8,988	8,638	9,038	8,732	8,917	8,736	8,927	8,266	*6,844*	75.7
Gold, lode, total	5,079	4,864	*4,846*	4,924	5,058	5,133	5,218	5,260	5,188	5,120	5,163	5,066	5,108	92.1
Surface	1,673	1,594	*1,574*	1,612	1,671	1,697	1,760	1,737	1,753	1,713	1,696	1,648	1,624	89.4
Underground	3,406	*3,270*	3,272	3,312	3,387	3,436	3,458	3,523	3,435	3,407	3,467	3,418	3,484	92.8
Silver, total	2,451	2,382	2,431	2,383	2,411	2,422	2,530	2,555	2,502	2,510	2,540	2,436	*2,306*	90.3
Surface	627	*564*	592	589	622	632	665	655	660	652	673	626	596	83.8
Underground	1,824	1,818	1,839	1,794	1,789	1,790	1,865	**1,900**	1,842	1,858	1,867	1,810	*1,710*	90.0
Mercury, total	1,029	*885*	902	894	936	985	1,000	1,103	1,147	1,177	1,128	1,124	1,064	75.2
Surface	479	*391*	409	406	420	449	462	513	540	566	551	545	489	69.1
Underground	550	494	493	*488*	516	536	538	590	607	611	577	579	575	79.9
Minor metals, total [2]	1,244	1,110	*1,105*	1,133	1,156	1,265	1,305	**1,370**	1,351	1,320	1,272	1,266	1,273	80.7
Surface	783	715	712	*711*	713	784	839	872	832	819	792	798	809	81.5
Underground	461	395	*393*	422	443	481	466	498	519	501	480	468	464	75.7
STONE														
Limestone, total	31,578	*23,926*	24,851	28,608	32,357	35,118	36,056	36,202	**36,274**	34,691	33,973	30,857	26,019	66.0
Surface	28,854	*21,671*	22,544	26,107	29,670	32,083	32,880	33,075	**33,101**	31,844	31,158	28,309	23,805	65.5
Underground	2,724	2,255	2,307	2,501	2,687	3,035	3,176	3,127	3,173	2,847	2,815	2,548	*2,214*	69.7
Marble, total	3,308	3,207	3,187	3,224	3,286	3,401	3,379	3,382	3,486	3,458	3,374	3,216	*3,095*	88.8
Surface	2,799	2,683	*2,659*	2,707	2,788	2,861	2,841	2,861	2,937	2,941	2,884	2,767	2,660	90.4
Underground	509	524	528	517	498	540	538	521	549	517	490	449	*435*	79.2
OTHER NONMETALS														
Clay, total	4,139	4,024	*4,016*	4,181	4,221	4,239	4,201	4,180	4,157	4,126	4,185	4,117	4,020	94.7
Surface	3,572	3,470	*3,444*	3,610	3,661	3,673	3,627	3,623	3,606	3,564	3,604	3,531	3,449	93.8
Underground	567	554	572	571	560	566	574	557	*551*	562	581	586	571	94.0
Fluorspar, total	1,053	1,089	1,026	1,089	1,134	1,191	1,100	1,055	1,102	1,038	975	972	*869*	73.0
Surface	470	513	491	490	531	531	455	477	488	434	419	427	*391*	73.6
Underground	583	576	535	599	603	660	645	578	614	604	556	545	*478*	72.4
Gypsum, total	2,078	2,070	1,952	2,035	2,211	2,230	2,184	2,184	2,239	2,118	2,113	1,913	*1,692*	75.6
Surface	661	632	563	634	741	747	716	699	747	656	684	589	*527*	70.5
Underground	1,417	1,438	1,389	1,401	1,470	1,483	1,468	1,485	1,492	1,462	1,429	1,324	*1,165*	78.1
Magnesite, total	351	279	*268*	278	339	350	364	407	410	403	395	371	351	65.4
Surface	133	96	*94*	103	138	147	140	143	138	143	165	149	139	57.0
Underground	218	183	*174*	175	201	203	224	264	272	260	230	222	212	64.0
Talc and soapstone, total	550	522	518	*517*	519	553	559	553	562	568	587	574	564	88.1
Surface	334	322	320	*310*	314	332	334	334	338	345	362	354	345	85.6
Underground	216	200	*198*	207	205	221	225	219	224	223	225	220	219	88.0
Other industries, total	51,167	*41,142*	41,604	46,518	53,061	55,501	56,870	57,213	**57,635**	56,152	54,596	50,328	43,386	71.4
Surface	50,088	*40,071*	40,532	45,437	52,004	54,381	55,768	56,133	56,528	55,082	53,503	49,253	42,361	70.9
Underground	1,079	1,071	1,072	1,081	1,057	1,120	1,102	1,080	1,107	1,070	1,093	1,075	*1,025*	91.6

[1] This table gives the numbers employed underground in underground mines and quarries, contrasted with those employed in open-pit mines and quarries together with surface employees of underground operations.

[2] Bauxite, molybdenum, titanium, tungsten, vanadium.

TABLE 22.—WAGE EARNERS, BY MONTHS, BY INDUSTRIES: 1929

[The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

INDUSTRY	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
All industries, total	806,418	811,140	813,080	809,827	800,310	796,969	783,466	*732,356*	805,132	814,566	827,684	824,005	808,480	94.5
COAL														
Anthracite (Pennsylvania)	142,801	151,783	147,181	139,468	145,788	144,770	132,159	*127,103*	140,835	144,195	146,303	146,792	147,241	83.7
Bituminous	458,732	479,163	482,906	474,797	444,051	435,012	*432,522*	436,280	445,179	455,887	468,471	474,072	476,444	89.6
METALS														
Copper	44,502	*42,875*	43,923	45,593	46,837	46,850	44,905	44,714	43,776	43,201	44,456	44,924	42,468	90.4
Iron ore	28,516	*25,649*	26,114	26,633	28,630	29,859	30,278	30,223	30,300	29,984	29,499	28,104	26,916	84.7
Lead	14,007	13,825	*13,486*	13,700	13,791	13,878	14,203	14,226	14,370	14,270	14,101	14,253	13,986	93.8
Zinc	11,900	11,053	10,952	11,950	12,540	12,194	12,588	12,327	12,611	12,386	12,593	11,739	*9,865*	78.2
Gold, lode	5,353	5,138	*5,120*	5,198	5,332	5,407	5,492	5,534	5,462	5,304	5,437	5,340	5,382	92.5
Silver	2,593	2,524	2,573	2,525	2,553	2,564	2,672	2,697	2,644	2,652	2,682	2,578	*2,448*	90.8
Gold, placer	578	552	*544*	552	623	587	588	596	586	577	574	580	577	87.3
Mercury	1,029	*885*	902	894	936	985	1,000	1,103	1,147	1,177	1,128	1,124	1,064	75.2
Manganese	354	*327*	345	346	353	370	373	373	350	346	352	356	353	87.7
Minor metals, total	1,244	1,110	*1,105*	1,133	1,156	1,265	1,305	1,370	1,351	1,320	1,272	1,266	1,273	80.7
Bauxite	602	*554*	558	563	586	635	651	654	638	582	587	597	615	84.7
Other [1]	642	556	*547*	570	570	630	654	716	713	738	685	669	658	74.1
STONE														
Limestone	32,300	*24,507*	25,462	29,299	33,130	35,925	36,890	37,010	37,071	35,442	34,722	31,527	26,621	66.1
Granite	10,037	*8,405*	8,457	9,407	10,134	10,887	11,078	11,028	11,164	10,780	10,577	9,873	8,654	75.3
Basalt	3,053	*2,062*	2,127	2,546	3,181	3,457	3,539	3,503	3,545	3,511	3,374	3,161	2,631	58.2
Slate	4,098	4,195	4,207	4,268	4,098	4,177	4,222	4,048	4,093	4,093	4,045	3,912	*3,814*	*89.4*
Marble	3,350	3,249	3,229	3,266	3,328	3,443	3,421	3,424	3,528	3,500	3,416	3,258	*3,137*	88.9
Sandstone	2,156	1,312	*1,292*	1,687	2,526	2,577	2,695	2,662	2,601	2,552	2,491	2,078	1,407	47.9
Miscellaneous	1,841	1,338	*1,286*	1,514	1,729	1,870	2,089	2,192	2,274	2,232	2,180	1,920	1,456	56.6
OTHER NONMETALS														
Abrasive materials [2]	462	*349*	367	370	441	490	525	519	522	531	520	467	439	65.7
Asbestos	195	201	*160*	237	241	246	192	194	206	174	164	165	163	65.0
Asphalt and bituminous rock	1,123	861	882	1,277	1,302	1,369	1,448	1,436	1,483	1,070	941	805	*606*	40.9
Barite	844	831	809	847	903	882	881	888	886	865	824	760	*753*	83.4
Clay	4,139	4,024	*4,016*	4,181	4,221	4,239	4,201	4,180	4,157	4,126	4,185	4,117	4,020	94.7
Feldspar	598	573	558	*529*	547	650	665	681	655	593	597	587	544	77.7
Fluorspar	1,053	1,089	1,026	1,089	1,134	1,191	1,100	1,055	1,102	1,038	975	972	*869*	73.0
Fuller's and filtering earths	991	983	964	*881*	920	1,009	923	1,044	1,051	1,012	1,023	1,067	1,031	83.3
Gypsum	2,078	2,070	1,952	2,035	2,211	2,230	2,184	2,184	2,239	2,118	2,113	1,913	*1,692*	75.6
Magnesite	351	279	*268*	278	339	350	364	407	410	403	305	371	351	65.4
Mica	226	184	183	230	234	240	239	239	248	248	245	247	*175*	70.6
Millstones and pulpstones	164	120	132	141	161	175	207	197	199	193	179	154	*116*	56.0
Phosphate rock	3,201	3,142	3,220	3,172	3,202	3,142	3,164	3,211	3,297	3,412	*3,075*	3,188	3,184	90.1
Sand, glass	1,030	1,035	1,038	1,038	1,061	1,059	1,065	1,023	1,034	1,040	1,007	988	*966*	90.7
Sand, molding	1,037	*532*	556	766	1,037	1,144	1,268	1,263	1,285	1,291	1,279	1,185	842	41.2
Sand and gravel	15,994	*11,347*	11,636	13,854	16,716	17,677	18,367	18,676	18,677	18,388	18,013	15,812	12,768	60.8
Silica [3]	1,433	1,300	*1,284*	1,354	1,463	1,480	1,490	1,543	1,558	1,502	1,458	1,404	1,360	82.4
Sulphur and pyrites	2,199	1,986	2,022	*1,971*	2,648	2,450	2,305	2,328	2,347	2,170	2,120	2,052	1,991	74.4
Talc and soapstone	550	522	518	*517*	519	553	559	553	562	568	587	574	564	88.1
Miscellaneous minerals [4]	305	*260*	288	284	294	316	300	322	327	330	311	321	309	78.8

[1] Molybdenum, titanium, tungsten, vanadium.
[2] Emery; garnet and industrial sapphires and diamonds; grinding pebbles and tube-mill lining; grindstones, oilstones, whetstones, scythestones, and rubbing stones; pumice and volcanic ash (pumicite).
[3] Diatomaceous earth, ganister, quartz, quartzite, silica rock, silica sand, siliceous mica schist, tripoli.
[4] Borates, cyanite, graphite, lithium minerals (amblygonite, lepidolite, and spodumene), mineral pigments, tantalum, vermiculite.

TABLE 23.—WAGE EARNERS, BY MONTHS, BY STATES: 1929

[The month of maximum employment is indicated by **bold-faced** figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
United States, total	806,418	811,140	813,080	809,827	800,310	796,969	783,466	*782,356*	805,132	814,566	827,884	824,005	808,480	94.5
Individual States														
Alabama	31,978	32,630	32,626	32,586	32,405	31,893	31,820	31,669	31,633	*31,389*	31,588	31,784	31,713	96.2
Arizona	16,567	*14,891*	15,598	16,286	17,018	17,133	17,143	17,253	16,941	16,446	16,919	16,800	16,372	86.3
Arkansas	5,030	5,664	5,576	4,011	*3,859*	3,819	4,230	4,846	5,351	5,733	5,888	5,938	5,947	56.5
California	8,048	7,407	7,402	7,621	7,901	7,913	8,054	8,257	8,428	8,399	8,518	8,513	8,158	86.9
Colorado	14,562	16,288	16,109	15,341	13,142	12,741	*12,561*	12,824	13,232	14,743	15,536	16,016	16,205	77.1
Connecticut	816	*546*	574	659	824	899	945	966	977	962	924	833	688	55.9
Florida	3,173	3,199	3,205	*3,055*	3,146	3,132	3,098	3,249	3,316	3,190	3,182	3,127	3,154	93.0
Georgia	3,727	*3,476*	3,554	3,614	3,708	3,962	3,937	3,998	3,892	3,759	3,630	3,677	3,513	86.9
Idaho	4,226	4,133	*3,927*	4,145	4,249	4,327	4,412	4,423	4,412	4,249	4,142	4,209	4,089	88.8
Illinois	53,378	59,434	58,923	58,856	49,347	47,225	*46,083*	48,200	50,802	53,809	55,971	56,543	55,343	77.5
Indiana	16,742	16,630	16,803	17,210	16,716	16,958	17,083	16,624	16,355	16,854	17,153	16,405	*16,114*	93.6
Iowa	7,164	7,494	7,591	7,507	6,735	*6,156*	6,164	6,420	6,522	7,511	7,972	7,971	7,949	77.0
Kansas	7,207	7,612	7,784	8,046	6,692	*6,491*	6,701	6,779	7,505	7,612	7,862	7,712	6,764	80.7
Kentucky	57,818	58,514	58,940	58,692	56,934	56,264	*55,930*	56,376	57,493	57,516	59,217	58,977	58,960	94.4
Maine	1,170	609	*541*	1,130	1,330	1,399	1,456	1,427	1,418	1,339	1,262	1,119	1,012	37.2
Maryland	4,578	*4,337*	4,366	4,567	4,533	4,502	4,476	4,654	4,613	4,699	4,852	4,795	4,537	89.4
Massachusetts	2,419	1,884	1,961	2,189	2,604	2,732	2,676	2,688	2,773	2,616	2,611	2,484	*1,807*	65.2
Michigan	20,820	*18,870*	19,218	19,904	20,747	21,288	21,700	21,707	21,899	21,933	21,889	21,020	19,774	86.0
Minnesota	11,613	*8,798*	9,077	9,612	11,555	13,115	13,483	13,449	13,341	13,044	12,524	11,342	10,023	65.3
Missouri	13,418	12,829	*12,673*	13,165	12,976	13,101	13,207	13,314	14,014	14,285	14,287	13,943	13,225	88.7
Montana	14,627	14,677	15,198	15,561	15,704	15,492	14,032	13,843	13,618	14,172	14,681	14,990	*13,552*	86.3
Nebraska	279	*107*	118	169	272	320	382	369	375	339	340	302	232	27.5
Nevada	4,716	4,822	4,851	4,969	5,181	5,079	4,940	4,784	4,567	4,512	4,550	4,352	*4,048*	78.1
New Hampshire	569	388	407	426	551	682	723	735	712	697	635	513	*361*	49.1
New Jersey	3,630	3,282	*3,263*	3,436	3,617	3,639	3,682	3,758	3,846	3,794	3,861	3,749	3,629	84.5
New Mexico	6,986	7,129	7,210	7,450	7,113	7,160	6,967	7,015	6,893	6,650	6,835	6,815	*6,585*	88.4
New York	6,432	*4,600*	5,203	5,843	6,628	6,982	7,188	7,305	7,258	7,138	6,964	6,359	5,721	63.0
North Carolina	2,566	2,502	2,440	2,538	2,653	2,750	2,785	2,532	2,669	2,633	2,585	2,456	*2,252*	80.9
Ohio	27,001	25,672	26,524	27,047	25,794	*25,271*	26,192	26,671	27,695	28,115	28,792	28,575	27,669	87.8
Oklahoma	10,279	10,908	10,766	9,987	9,522	*8,776*	9,423	9,963	10,743	10,841	11,443	11,009	9,964	76.7
Oregon	776	606	585	681	832	913	879	839	895	890	855	773	*558*	61.1
Pennsylvania	276,492	285,053	282,639	276,002	280,204	278,411	264,687	*259,524*	273,150	276,482	279,883	280,924	281,140	91.0
Rhode Island	256	227	221	239	250	280	288	273	270	299	256	250	*217*	72.6
South Carolina	1,298	1,381	1,386	1,383	1,418	1,363	1,304	1,313	1,290	*1,136*	1,251	1,201	1,157	80.1
Tennessee	11,936	*11,557*	11,700	11,789	11,675	12,093	12,004	11,797	12,056	12,291	12,193	12,200	11,875	94.0
Texas	6,544	*5,908*	5,998	6,260	7,063	6,832	6,717	6,799	6,776	6,579	6,667	6,548	6,383	83.6
Utah	12,176	12,569	12,606	12,457	12,129	12,014	11,867	*11,667*	11,664	11,891	12,203	12,374	12,684	91.9
Vermont	3,154	3,162	3,210	3,227	3,108	3,212	3,228	3,160	3,273	3,251	3,147	3,005	*2,863*	87.5
Virginia	15,202	15,536	15,544	15,679	15,288	15,374	15,370	15,157	15,121	15,234	15,392	14,801	*14,643*	93.4
Washington	3,818	3,757	3,732	3,882	3,880	3,801	*3,724*	3,824	3,744	3,848	3,848	3,826	3,849	94.9
West Virginia	101,422	101,113	101,897	101,621	100,699	*100,426*	100,595	100,487	101,601	100,981	102,630	103,128	101,890	97.4
Wisconsin	2,907	*1,961*	1,975	2,215	2,699	3,233	3,453	3,587	3,579	3,482	3,288	2,983	2,428	54.7
Wyoming	5,282	5,506	5,732	5,426	5,000	4,711	*4,662*	4,693	5,042	5,544	5,598	5,759	5,713	81.0
Groups of States														
Delaware and District of Columbia	104	*83*	84	89	105	114	112	123	135	113	105	99	92	61.5
Louisiana and Mississippi	801	*702*	718	759	785	781	802	861	852	831	860	847	821	81.5
North Dakota and South Dakota	2,552	2,687	2,625	2,535	*2,219*	2,230	2,301	2,344	2,391	2,729	2,895	2,864	2,807	76.6

GENERAL TABLES

Tables 24 to 32 present in detail statistics relating to the mining and quarrying industries for the United States as a whole, and for each industry and State.

TABLE 24.—SUMMARY FOR THE UNITED STATES, BY INDUSTRIES: 1929, 1919, AND 1909

[The figures have been adjusted for 1929 by the omission of data for the sand and gravel, glass-sand, and molding-sand industries; for 1919 by the omission of data for the petroleum and natural gas industries; and for 1909 by the omission of data for the petroleum and natural gas, peat, and precious stones industries. The totals for all industries include, besides those specified, statistics for the chromite industry in 1919 and for the borax, chromite, marl, and monazite and zircon industries in 1909, for which comparable figures could not be given. The value of products of these industries was less than one-tenth of 1 per cent of the total for all industries both for 1919 and for 1909. Figures for the anthracite industry for 1909 include data for 3 enterprises in Colorado and New Mexico, classified as anthracite at the census of 1909]

INDUSTRY AND CENSUS YEAR	Number of enterprises [1]	Number of mines and quarries [2]	Wage earners (average for the year)[3]	Horsepower rating of power equipment	PRINCIPAL EXPENSES [4]				Value of products [5]
					Wages	Contract work	Cost of supplies and materials [5]	Cost of fuel and purchased electric energy	
ALL INDUSTRIES									
1929 [6]	9,063	[2] 10,277	788,357	6,970,091	$1,066,605,507	$16,595,298	$280,622,710	$111,109,050	$2,280,384,091
1919 [6]	11,466	[2] 13,731	888,355	4,900,102	1,161,414,979	10,716,518	331,626,664	101,311,854	2,226,670,543
1909 [6]	[7] 12,089	[2] 18,127	930,680	3,884,759	559,546,144	12,151,388	152,856,925	43,672,969	1,052,569,127
Per cent of increase or decrease (—)—									
1919–1929			—11.3	42.2	—8.2	54.9	—15.4	9.7	2.4
1909–1919			—4.5	44.8	107.6	—11.8	117.0	132.0	111.5
COAL									
Anthracite (Pa.):									
1929	198	[8] 303	142,801	1,041,465	229,967,059	6,801,808	43,367,491	13,928,248	334,854,300
1919	254	[9] 421	147,372	899,783	210,289,473	1,557,845	60,171,694	13,305,952	364,084,142
1909	192	[10] 423	169,367	676,753	92,317,659	1,701,514	23,504,740	3,193,226	149,180,471
Per cent of increase or decrease (—)—									
1919–1929			—3.1	15.7	9.4	336.6	—27.9	4.7	5.7
1909–1919			—13.0	33.0	127.8	—8.4	156.0	316.7	144.1
Bituminous:									
1929	4,976	5,620	458,732	3,124,187	574,800,072	1,889,627	106,438,396	38,268,686	960,693,771
1919	6,636	8,282	545,798	2,155,065	682,601,968	2,855,966	142,432,551	37,177,169	1,145,977,565
1909	3,503	6,013	511,723	1,227,401	294,196,488	2,209,672	40,498,700	7,509,947	427,962,404
Per cent of increase or decrease (—)—									
1919–1929			—16.0	45.0	—15.8	—33.8	—25.3	2.9	—15.6
1909–1919			6.7	75.6	132.0	29.2	251.7	395.0	167.8
METALS									
Copper:									
1929	143	180	44,502	701,791	73,199,785	2,594,908	43,995,395	15,237,286	283,517,373
1919	195	226	43,717	522,426	66,390,194	421,753	35,803,425	14,866,015	181,258,087
1909	161	368	51,643	376,464	49,382,979	644,562	34,315,337	13,324,157	134,616,987
Per cent of increase or decrease (—)—									
1919–1929			1.8	34.3	10.3	515.3	22.9	2.5	56.4
1909–1919			—15.3	38.8	34.4	—34.6	4.3	11.6	34.6
Iron ore:									
1929	180	208	28,516	498,821	40,905,190	1,553,134	18,561,157	9,939,591	197,334,548
1919	290	406	45,741	370,859	75,713,459	1,671,783	27,187,332	10,294,589	218,217,005
1909	176	483	47,245	346,534	29,731,456	2,698,842	12,597,428	4,632,289	106,947,082
Per cent of increase or decrease (—)—									
1919–1929			—37.7	34.5	—46.0	—7.1	—31.7	—3.4	—9.6
1909–1919			—3.2	7.0	154.7	—38.1	115.8	122.2	104.0
Lead and zinc:									
1929	303	375	25,907	357,737	39,191,774	1,653,563	18,343,672	7,638,433	112,427,804
1919	432	473	21,884	229,401	30,708,319	863,471	15,717,599	5,375,155	75,570,347
1909	977	1,142	16,807	110,569	10,477,657	197,259	6,783,070	2,400,724	31,363,094
Per cent of increase—									
1919–1929			18.4	55.9	27.6	91.5	16.7	42.1	48.8
1909–1919			30.2	107.5	193.1	337.7	131.7	123.9	141.0
Gold and silver, lode:									
1929	241	258	7,946	98,772	12,982,224	694,118	5,933,318	1,875,294	26,107,437
1919	740	799	15,436	149,100	23,817,657	1,237,043	17,709,188	3,959,260	58,832,330
1909	1,604	2,845	20,428	200,966	30,868,371	3,603,984	20,552,244	5,105,253	83,885,928
Per cent of decrease (—)—									
1919–1929			—48.5	—33.8	—45.5	—43.9	—66.5	—52.6	—55.6
1909–1919			—47.5	—25.8	—22.8	—65.7	—13.8	—22.4	—29.9
Gold, placer:									
1929	32	37	578	20,280	970,010	1,708	590,178	605,359	3,779,241
1919	112	132	1,380	35,632	1,914,072	132,807	2,244,728	1,144,333	9,368,561
1909	678	880	3,084	27,278	2,669,574	99,582	2,194,444	675,602	10,237,252
Per cent of increase or decrease (—)—									
1919–1929			—58.1	—43.1	—49.3	—98.7	—73.7	—47.1	—59.7
1909–1919			—55.3	30.6	—28.3	33.4	2.3	69.4	—8.5
Mercury:									
1929	40	40	1,020	5,625	1,383,603	15,292	464,047	298,695	2,820,166
1919	26	26	748	2,607	827,751	7,973	403,269	157,064	1,803,484
1909	12	12	544	784	407,544	9,878	130,847	54,531	868,458
Per cent of increase or decrease (—)—									
1919–1929			37.6	115.8	67.2	91.8	15.1	90.2	56.4
1909–1919			37.5	232.5	103.1	—19.3	208.2	188.0	107.7
Manganese:									
1929	19	21	354	2,342	392,362	5,824	139,516	70,947	1,184,561
1919	35	37	909	5,800	1,085,899	149,237	447,833	98,335	2,188,312
1909	5	14	60	215	15,325	----------	4,741	854	31,216
Per cent of increase or decrease (—)—									
1919–1929			—61.1	—59.6	—63.9	—96.1	—68.8	—27.9	—45.9
1909–1919			(11)	2,597.7	6,985.8	----------	9,346.0	11,414.6	6,010.2
Minor metals:									
1929	26	30	1,244	13,469	1,506,851	80,490	1,416,575	407,843	6,649,976
1919	32	37	1,371	6,051	1,690,042	7,878	884,207	224,674	3,915,921
1909	36	142	1,094	4,802	650,283	41,476	174,984	159,949	1,639,067
Per cent of increase or decrease (—)—									
1919–1929			—9.3	122.6	—10.8	997.9	60.2	81.5	69.8
1909–1919			25.3	26.0	159.9	—81.0	405.5	40.5	138.9

[1] See GENERAL EXPLANATIONS—The Enterprise.
[2] The figures for number of mines in the anthracite industry represent the number of collieries, washeries, and dredges. See footnotes 8, 9, and 10.
[3] See GENERAL EXPLANATIONS—Persons Engaged.
[4] See GENERAL EXPLANATIONS—Expenses.
[5] The figures for 1919 and 1909 include the value of purchased ore. This inclusion affects principally the figures for the metal-mining industries. In the special report covering these industries (gold, silver, copper, lead, and zinc) the figures have been revised by the exclusion of these data, to make them comparable with 1929.
[6] See headnote.
[7] Operators.
[8] Collieries, 241; dredges, 42; washeries (culm-bank), 20.
[9] Collieries, 261; dredges, 81; washeries (culm-bank), 79.
[10] Collieries, 308; dredges, 63; washeries (culm-bank), 52.
[11] Per cent not computed where base is less than 100.

TABLE 24.—SUMMARY FOR THE UNITED STATES, BY INDUSTRIES: 1929, 1919, AND 1909—Continued

[See note at head of this table]

INDUSTRY AND CENSUS YEAR	Number of enterprises	Number of mines and quarries	Wage earners (average for the year)	Horsepower rating of power equipment	PRINCIPAL EXPENSES: Wages	Contract work	Cost of supplies and materials	Cost of fuel and purchased electric energy	Value of products
STONE									
Limestone: [12]									
1929	1,167	1,256	32,300	535,466	$39,188,304	$418,760	$20,735,789	$8,401,704	$117,257,784
1919	895	925	22,069	213,717	23,926,332	665,557	10,968,220	4,176,390	52,943,024
1909	1,665	1,916	30,289	125,024	14,082,185	201,880	3,754,125	1,507,628	29,832,492
Per cent of increase or decrease (—)—									
1919-1929			46.4	150.5	63.8	—37.1	89.1	101.2	121.5
1909-1919			—27.1	70.9	69.9	229.7	192.2	177.0	77.5
Granite:									
1929	406	434	10,037	108,217	12,639,524	39,273	3,618,511	1,761,993	30,381,373
1919	358	381	8,049	55,614	8,587,659	118,637	2,593,040	1,094,821	18,279,345
1909	707	826	18,744	61,095	11,112,195	65,744	1,921,912	757,078	18,997,976
Per cent of increase or decrease (—)—									
1919-1929			24.7	94.6	47.2	—66.9	39.5	60.9	66.2
1909-1919			—57.1	—9.0	—22.7	80.5	34.9	44.6	—3.8
Basalt:									
1929	137	144	3,053	63,881	4,498,093	31,951	2,201,847	1,039,636	15,543,687
1919	163	174	3,336	37,307	3,991,307	41,406	2,030,869	719,988	9,657,977
1909	190	220	5,256	29,211	2,538,964	60,204	1,018,090	279,082	5,578,317
Per cent of increase or decrease (—)—									
1919-1929			—8.5	71.2	12.7	—22.8	8.4	44.4	60.9
1909-1919			—36.5	27.7	57.2	—31.2	99.5	158.0	73.1
Slate:									
1929	120	130	4,098	33,817	4,884,038	26,574	662,441	634,214	10,486,390
1919	101	104	3,513	20,613	3,128,249	95,633	632,459	417,459	5,720,792
1909	185	219	8,803	29,777	4,088,653	28,962	521,761	327,397	6,054,174
Per cent of increase or decrease (—)—									
1919-1929			16.7	64.1	56.1	—72.2	4.7	51.9	83.3
1909-1919			—60.1	—30.8	—23.5	230.2	21.2	27.5	—5.5
Marble:									
1929	70	88	3,350	30,198	3,291,541	18,225	553,619	544,632	7,538,905
1919	48	62	1,732	15,628	1,452,440	20,582	552,439	224,385	4,397,912
1909	77	108	6,166	21,779	3,079,023	27,344	544,327	261,689	6,239,120
Per cent of increase or decrease (—)—									
1919-1929			93.4	93.2	126.6	—11.5	0.2	142.7	71.4
1909-1919			—71.9	—28.2	—52.8	—24.7	1.5	—14.3	—29.5
Sandstone: [13]									
1929	145	172	2,156	28,935	2,626,437	47,565	983,204	396,055	6,311,977
1919	255	276	4,287	33,869	4,448,811	54,161	1,664,432	848,262	10,684,969
1909	1,158	1,314	9,812	36,556	4,760,851	79,456	1,039,969	349,180	9,290,829
Per cent of increase or decrease (—)—									
1919-1929			—49.7	—14.6	—41.0	—12.2	—40.9	—53.3	—40.9
1909-1919			—56.3	—7.4	—6.6	—31.8	60.0	142.9	15.0
Miscellaneous: [14]									
1929	204	234	1,841	28,527	2,405,906	52,056	1,628,968	445,789	8,475,008
OTHER NONMETALS									
Abrasive materials:									
1929	30	36	462	3,828	491,484	37,358	144,554	64,140	1,411,284
1919	34	34	317	1,748	322,379	62,231	116,145	56,122	721,728
1909	62	107	826	2,992	317,148	34,649	136,556	38,199	911,586
Per cent of increase or decrease (—)—									
1919-1929			45.7	119.0	52.5	—40.0	24.5	14.3	95.5
1909-1919			—61.6	—41.6	1.6	79.6	—14.9	46.9	—20.8
Asbestos:									
1929	11	11	195	2,114	236,789	2,000	36,201	39,316	307,482
1919	10	11	146	420	91,672	----------	47,202	5,430	249,839
1909	5	20	54	380	31,189	400	23,120	400	65,140
Per cent of increase or decrease (—)—									
1919-1929			33.6	403.3	158.3	----------	—23.3	624.1	59.1
1909-1919			(11)	10.5	193.9	----------	104.2	1,257.5	283.5
Asphalt and bituminous rock:									
1929	21	25	1,123	13,109	1,254,835	84,273	517,712	177,283	5,123,836
1919	9	12	324	648	294,652	5,917	376,009	24,876	749,520
1909	12	19	205	828	128,977	15,546	66,159	13,598	466,461
Per cent of increase or decrease (—)—									
1919-1929			246.6	1,923.0	325.9	1,324.3	37.7	612.7	583.6
1909-1919			58.0	—21.7	128.5	—61.9	468.3	82.9	60.7
Barite:									
1929	42	44	844	6,066	648,488	24,434	154,822	133,262	1,801,314
1919	89	98	919	3,029	768,847	10,127	236,082	69,724	1,592,245
1909	23	42	240	262	90,310	14,346	21,756	6,468	224,766
Per cent of increase or decrease (—)—									
1919-1929			—8.2	100.3	—15.7	141.3	—34.4	91.1	13.1
1909-1919			282.9	1,056.1	751.3	—29.4	985.1	978.0	608.4
Clay:									
1929	199	236	4,139	31,877	3,757,998	20,058	1,493,992	769,330	10,753,445
1919	345	350	5,453	21,203	5,367,082	126,355	1,416,999	452,589	10,086,298
1909	261	336	3,262	8,868	1,361,622	48,068	280,953	108,389	2,945,948
Per cent of increase or decrease (—)—									
1919-1929			—24.1	50.3	—30.0	—84.1	5.4	70.0	6.6
1909-1919			67.2	139.1	294.2	162.9	404.4	317.6	242.4
Feldspar:									
1929	51	58	598	6,543	526,896	14,240	239,297	83,307	1,935,336
1919	30	32	349	1,782	263,760	12,073	97,834	33,442	584,296
1909	22	28	247	903	106,653	8,681	40,852	15,892	271,437
Per cent of increase—									
1919-1929			71.3	267.2	99.8	17.9	144.6	149.1	231.2
1909-1919			41.3	79.5	147.3	39.1	139.5	110.4	115.3

[11] Per cent not computed where base is less than 100.
[12] See explanation preceding Table 1, p. 9.
[13] Including for 1919 and 1909, but excluding for 1929, data for quarrying enterprises whose final product (glass sand, molding sand, or silica material) was derived from sandstone, siliceous mica schist (for use as ganister), etc. The data for these enterprises are included in the glass-sand, molding-sand, or silica industries for 1929.
[14] Included in figures for the other stone industries (principally basalt and sandstone) for 1919 and 1909.

TABLE 24.—SUMMARY FOR THE UNITED STATES, BY INDUSTRIES: 1929, 1919, AND 1909—Continued

[See note at head of this table]

INDUSTRY AND CENSUS YEAR	Number of enterprises	Number of mines and quarries	Wage earners (average for the year)	Horsepower rating of power equipment	PRINCIPAL EXPENSES				Value of products
					Wages	Contract work	Cost of supplies and materials	Cost of fuel and purchased electric energy	
OTHER NONMETALS—continued									
Fluorspar:									
1929	28	36	1,053	6,513	$1,112,322	$16,540	$626,500	$177,054	$2,858,344
1919	54	72	1,124	7,138	1,195,777	145,916	634,498	163,239	3,334,880
1909	13	15	290	1,179	168,445	949	34,695	24,414	288,509
Per cent of increase or decrease (—)—									
1919-1929			—6.3	—8.8	—7.0	—88.7	—1.3	8.5	—14.3
1909-1919			287.6	505.4	609.9	15,275.8	1,728.8	568.6	1,055.9
Fuller's and filtering earths:									
1929	22	24	991	8,221	853,228	350,979	425,011	446,933	4,811,629
1919	9	9	824	2,538	541,163	8,556	338,011	299,863	2,019,226
1909	16	21	327	1,739	118,629	67	35,797	48,010	315,762
Per cent of increase—									
1919-1929			20.3	223.9	57.7	4,002.1	25.7	49.0	138.3
1909-1919			152.0	45.9	356.2	(11)	844.2	524.6	539.5
Gypsum:									
1929	60	63	2,078	26,498	2,627,733	7,004	794,733	421,481	5,740,188
1919	47	48	2,191	15,032	2,478,391	3,747	1,530,338	660,420	6,805,940
1909	78	222	3,402	17,685	1,820,877	16,558	986,658	573,459	5,812,810
Per cent of increase or decrease (—)—									
1919-1929			—5.2	76.3	6.0	86.9	—48.1	—36.2	—15.7
1909-1919			—36.7	—15.0	36.1	—77.4	55.1	15.2	17.1
Magnesite:									
1929	5	5	351	3,197	465,936	55,970	252,178	288,367	2,043,905
1919	11	11	448	2,540	652,302	50,846	332,206	296,105	2,169,571
1909	6	13	50	126	32,479		6,282	7,556	68,463
Per cent of increase or decrease (—)—									
1919-1929			—21.7	25.9	—28.7	10.1	—24.1	—2.6	—5.8
1909-1919			(11)	1,915.9	1,908.4		5,188.2	3,818.8	3,069.0
Mica:									
1929	24	32	226	1,721	195,142		65,474	35,416	516,305
1919	65	69	448	803	288,487	7,325	107,933	22,668	607,025
1909	73	78	272	463	124,658	6,036	10,377	12,392	206,794
Per cent of increase or decrease (—)—									
1919-1929			—49.6	114.3	—32.4		—39.3	56.2	—14.9
1909-1919			64.7	73.4	131.4	21.4	940.1	82.9	193.5
Millstones and pulpstones:									
1929	14	14	164	2,517	221,318		42,841	23,392	620,835
1919	11	11	37	220	47,966		11,244	7,110	64,031
1909	14	14	51		16,625		483	25	34,441
Per cent of increase—									
1919-1929			(11)	1,044.1	361.4		281.0	229.0	860.6
1909-1919			(11)		188.5		2,228.0	(11)	87.7
Phosphate rock:									
1929	26	33	3,201	104,146	3,303,940	20,936	1,542,887	1,983,422	13,043,769
1919	48	69	4,373	49,639	3,900,966	163,696	2,161,501	1,819,301	10,300,198
1909	51	153	7,873	50,526	3,215,661	251,849	898,657	1,366,368	10,781,192
Per cent of increase or decrease (—)—									
1919-1929			—26.8	109.8	—15.3	—87.2	—28.6	9.0	26.6
1909-1919			—44.5	—1.8	21.3	—35.0	140.5	33.7	—4.5
Silica:									
1929	70	73	1,433	11,771	1,677,407	3,506	614,183	282,534	4,645,142
1919	24	29	166	2,032	165,709	1,847	58,185	21,960	371,638
1909	14	14	158	1,219	81,648	16,351	17,461	12,066	231,025
Per cent of increase or decrease (—)—									
1919-1929			763.3	479.3	912.3	93.1	955.6	1,186.6	1,149.9
1909-1919			5.1	66.7	103.0	—88.7	233.2	82.0	60.9
Sulphur and pyrites:									
1929	9	10	2,199	33,932	3,482,606	10,269	3,339,859	4,474,013	37,126,148
1919	21	22	2,301	22,629	3,066,909	87,061	2,067,862	2,986,036	20,344,530
1909	15	16	1,452	8,872	732,957	3,091	400,526	779,921	5,109,050
Per cent of increase or decrease (—)—									
1919-1929			—4.4	49.9	13.6	—88.2	61.5	49.8	82.5
1909-1919			58.5	155.1	318.4	2,716.6	416.3	282.9	298.2
Talc and soapstone:									
1929	25	28	550	10,530	615,355	16,795	530,717	128,278	2,687,953
1919	28	30	958	7,053	835,413	52,757	345,166	155,564	2,302,393
1909	39	46	1,256	9,433	504,116	3,550	196,054	66,339	1,174,516
Per cent of increase or decrease (—)—									
1919-1929			—42.6	49.3	—26.3	—68.2	53.8	—17.5	16.7
1909-1919			—23.7	—25.2	65.7	1,386.1	76.1	134.5	96.0
Miscellaneous minerals:									
1929	19	19	305	3,978	301,197		167,630	87,717	3,502,876
1919	44	47	604	8,040	515,995	52,016	292,334	151,980	1,350,171
1909	42	46	445	3,496	204,043	24,388	84,311	43,697	495,145
Per cent of increase or decrease (—)—									
1919-1929			—49.5	—50.5	—41.6		—42.7	—42.3	159.4
1909-1919			35.7	130.0	152.9	113.3	246.7	247.8	172.7

[11] Per cent not computed where base is less than 100.

TABLE 25.—SUMMARY FOR THE UNITED STATES, BY STATES: 1929, 1919, AND 1909

The figures have been adjusted for 1929 by the omission of data for the sand and gravel, glass-sand, and molding-sand industries; for 1919 by the omission of data for the petroleum and natural gas industries; and for 1909 by the omission of data for the petroleum and natural gas, peat, and precious stones industries. In some instances these data could not be omitted from figures for individual States because of disclosures of data for individual enterprises. Such inclusions, however, were very minor, and their effect upon the totals insignificant. (See footnotes 1, 2, 3, and 4, Table 7.)]

STATE AND CENSUS YEAR	Number of enterprises [1]	Number of mines and quarries [2]	Wage earners (average for the year) [3]	Horsepower rating of power equipment	PRINCIPAL EXPENSES [4]				Value of products [5]
					Wages	Contract work	Cost of supplies and materials [5]	Cost of fuel and purchased electric energy	
United States:									
1929 [6]	9,063	10,277	788,357	6,970,091	$1,066,605,507	$16,595,298	$280,622,710	$111,109,650	$2,280,384,091
1919 [6]	11,466	13,731	888,355	4,900,102	1,161,414,979	10,716,518	331,626,664	101,311,854	2,226,670,543
1909 [6]	[7] 12,089	18,127	930,080	3,384,759	559,546,144	12,151,388	152,856,925	43,672,969	1,052,569,127
Per cent of increase or decrease (—)—									
1919–1929			−11.3	42.2	−8.2	54.9	−15.4	9.7	2.4
1909–1919			−4.5	44.8	107.6	−11.8	117.0	132.0	111.5
Alabama:									
1929	212	242	31,674	265,666	30,692,942	95,072	8,240,921	2,782,801	53,362,904
1919	264	348	32,579	145,775	36,229,723	167,070	7,480,910	3,080,283	59,866,040
1909	177	302	28,271	91,924	14,257,709	767,385	2,620,390	1,048,824	24,350,667
Per cent of increase or decrease (—)—									
1919–1929			−2.8	82.2	−15.3	−43.1	10.2	−9.7	−10.9
1909–1919			15.2	58.6	154.1	−78.2	185.5	193.7	145.8
Arizona:									
1929	129	134	16,533	201,456	28,238,107	1,152,201	17,414,110	5,684,755	116,134,804
1919	155	172	15,268	165,076	26,193,312	746,783	16,160,891	5,377,525	88,478,111
1909	129	242	12,822	47,272	13,485,936	238,982	6,928,044	5,603,989	34,161,165
Per cent of increase or decrease (—)—									
1919–1929			8.3	22.0	7.8	54.3	7.8	5.7	31.3
1909–1919			19.1	249.2	94.2	212.5	133.3	−4.0	159.0
Arkansas:									
1929	112	121	4,744	30,620	4,565,463	100,600	928,092	483,248	9,795,695
1919	119	126	3,614	20,748	4,546,728	57,434	1,160,035	431,445	7,782,703
1909	93	146	4,933	14,080	3,025,066	38,964	330,818	138,937	4,477,445
Per cent of increase or decrease (—)—									
1919–1929			31.3	47.6	0.4	85.6	−20.0	12.0	25.9
1909–1919			−26.7	47.4	50.3	47.4	250.7	210.4	73.8
California:									
1929	294	340	6,859	110,019	10,381,906	513,583	5,569,035	2,252,539	30,638,618
1919	322	357	7,000	93,124	9,380,626	378,512	6,796,617	2,452,895	24,751,580
1909	983	1,271	14,234	85,649	12,280,415	322,497	8,998,347	2,648,877	33,961,780
Per cent of increase or decrease (—)—									
1919–1929			−2.0	18.1	10.7	35.7	−18.1	−8.2	23.8
1909–1919			−50.8	8.7	−23.6	17.4	−24.5	−7.4	−27.1
Colorado:									
1929	311	333	14,493	116,592	22,266,604	536,454	5,939,045	2,344,611	41,205,031
1919	466	523	16,710	114,448	25,263,057	397,930	11,826,142	2,681,622	51,063,444
1909	649	1,575	21,305	96,305	18,345,369	2,093,132	10,273,498	1,927,263	45,362,455
Per cent of increase or decrease (—)—									
1919–1929			−13.3	1.9	−11.9	34.8	−49.8	−12.6	−19.3
1909–1919			−21.8	18.8	37.7	−86.7	15.1	39.1	12.6
Connecticut:									
1929	42	42	761	10,756	1,220,326	450	184,732	242,914	3,810,102
1919	41	47	543	8,520	646,624	27,038	304,096	120,374	1,649,003
1909	71	75	1,385	6,298	729,377	13,761	127,424	71,917	1,375,765
Per cent of increase or decrease (—)—									
1919–1929			40.1	26.2	88.7	−98.3	−39.3	101.8	131.1
1909–1919			−60.8	35.3	−11.3	96.5	138.6	67.4	19.9
Florida:									
1929	57	65	3,061	106,384	3,045,821	27,528	1,721,148	2,035,725	13,524,552
1919	36	55	3,372	44,969	3,107,813	121,202	1,836,229	1,687,696	8,976,413
1909	36	96	5,448	42,366	2,350,854	217,691	738,946	1,223,035	8,846,665
Per cent of increase or decrease (—)—									
1919–1929			−9.2	136.6	−2.0	−77.3	−6.3	20.6	50.7
1909–1919			−38.1	6.1	32.2	−44.3	148.5	38.0	1.5
Georgia:									
1929	74	81	3,665	34,386	2,898,160	346,259	955,978	787,745	9,439,132
1919	74	82	2,397	12,906	2,017,460	35,295	608,766	356,019	4,082,152
1909	92	109	3,383	10,698	1,278,159	1,903	254,021	146,666	2,874,595
Per cent of increase or decrease (—)—									
1919–1929			52.9	164.6	43.7	881.0	57.0	121.3	131.2
1909–1919			−29.1	21.5	57.8	1,754.7	139.7	142.7	42.0
Idaho:									
1929	60	65	4,226	67,295	7,420,255	124,127	3,486,590	1,011,022	20,745,615
1919	82	83	2,455	31,059	4,201,624	193,657	2,026,256	513,778	11,840,301
1909	174	370	3,246	26,278	4,045,547	23,036	1,847,458	356,199	8,649,342
Per cent of increase or decrease (—)—									
1919–1929			72.1	116.7	76.6	−35.9	72.1	96.8	75.2
1909–1919			−24.4	18.2	3.9	740.7	9.7	44.2	36.9
Illinois:									
1929	464	486	52,104	398,602	71,828,479	219,310	13,463,974	4,892,754	124,771,725
1919	536	590	76,371	282,801	90,900,989	72,473	17,023,921	5,629,830	147,409,502
1909	592	759	68,313	184,715	43,752,356	74,305	4,486,621	1,287,128	57,763,159
Per cent of increase or decrease (—)—									
1919–1929			−31.7	40.9	−21.0	202.6	−20.9	−13.1	−15.4
1909–1919			11.8	53.1	107.8	−2.5	279.4	337.4	155.2

[1] See GENERAL EXPLANATIONS—The Enterprise.
[2] See footnote 2, Table 24.
[3] See GENERAL EXPLANATIONS—Persons Engaged.
[4] See GENERAL EXPLANATIONS—Expenses.
[5] See footnote 5, Table 24.
[6] See headnote.
[7] Operators, not enterprises, in 1909. Exclusive of duplications, 168 operators having reported in two or more States; also exclusive of data for 22 operators which are included in the State figures. (See headnote.)

TABLE 25.—SUMMARY FOR THE UNITED STATES, BY STATES: 1929, 1919, AND 1909—Continued

[See note at head of this table]

STATE AND CENSUS YEAR	Number of enterprises	Number of mines and quarries	Wage earners (average for the year)	Horsepower rating of power equipment	PRINCIPAL EXPENSES				Value of products
					Wages	Contract work	Cost of supplies and materials	Cost of fuel and purchased electric energy	
Indiana:									
1929	335	375	15,968	156,645	$22,348,717	$75,040	$4,726,515	$2,192,168	$44,297,266
1919	372	398	26,348	121,994	29,717,136	126,651	6,098,578	1,947,162	50,235,857
1909	366	480	22,577	66,880	13,964,735	19,960	1,428,207	475,940	18,709,582
Per cent of increase or decrease (—)—									
1919-1929			—39.4	28.4	—24.8	—40.8	—22.5	12.6	—11.8
1909-1919			16.7	82.4	112.8	534.5	327.0	309.1	168.5
Iowa:									
1929	201	207	6,766	38,945	8,805,963	5,103	1,432,905	548,722	14,648,383
1919	198	226	11,274	32,166	12,466,426	33,464	2,072,808	748,844	18,473,558
1909	373	431	16,480	23,453	10,870,446	40,836	1,307,919	221,740	13,877,781
Per cent of increase or decrease (—)—									
1919-1929			—40.0	21.1	—29.4	—84.8	—30.9	—26.7	—20.7
1909-1919			—31.6	37.2	14.7	—18.1	58.4	237.7	33.1
Kansas:									
1929	234	257	7,061	67,665	8,104,133	213,890	3,101,066	1,259,323	20,088,495
1919	201	238	9,831	38,101	12,338,424	109,822	3,061,785	974,441	21,823,046
1909	426	582	13,318	30,097	9,120,268	102,887	922,697	260,596	12,040,854
Per cent of increase or decrease (—)—									
1919-1929			—28.2	77.6	—34.3	94.8	1.3	29.2	—5.2
1909-1919			—26.2	26.6	35.2	6.7	231.8	273.9	81.2
Kentucky:									
1929	540	617	57,569	310,664	62,441,677	63,905	11,950,977	3,895,626	102,502,027
1919	742	864	41,444	135,098	46,905,076	352,945	11,611,317	2,289,338	75,157,389
1909	352	442	18,070	48,852	7,702,182	88,389	1,150,311	212,419	11,207,794
Per cent of increase or decrease (—)—									
1919-1929			38.9	130.0	33.1	—81.9	2.9	70.2	36.4
1909-1919			129.4	176.5	509.0	299.3	909.4	977.7	570.6
Louisiana, Mississippi, Delaware, and District of Columbia:									
1929	7	8	198	1,491	220,127	1,887	46,920	55,009	487,585
1919	14	15	515	7,643	612,795	14,394	144,389	1,404,843	8,259,724
1909 [8]	11	11	861	4,580	517,049	5,800	398,051	732,603	4,885,277
Per cent of increase or decrease (—)—									
1919-1929			—61.6	—80.5	—64.1	—86.9	—67.5	—96.1	—94.1
1909-1919			—40.2	66.9	18.5	148.2	—63.7	91.8	69.1
Maine:									
1929	52	56	1,170	12,076	1,576,518	8,160	267,117	154,211	3,468,040
1919	50	51	979	6,277	1,051,796	32,368	203,187	122,792	1,823,442
1909	97	102	2,144	8,141	1,332,242	6,728	219,579	84,683	2,056,063
Per cent of increase or decrease (—)—									
1919-1929			19.5	92.4	49.9	—74.8	31.5	25.6	90.2
1909-1919			—54.3	—22.9	—21.1	381.1	—7.5	45.0	—11.3
Maryland:									
1929	102	119	3,987	23,967	4,125,442	397	955,299	335,967	7,341,258
1919	126	161	5,628	18,660	6,151,744	16,899	1,178,074	308,766	9,098,577
1909	126	173	7,190	18,118	3,339,682	8,303	478,555	104,156	5,782,045
Per cent of increase or decrease (—)—									
1919-1929			—29.2	28.4	—32.9	—97.7	—18.9	8.8	—24.3
1909-1919			—21.7	3.0	84.2	103.5	146.2	196.4	67.7
Massachusetts:									
1929	73	77	2,207	26,741	3,656,995	17,143	1,005,716	455,338	8,570,533
1919	74	79	1,704	12,493	2,068,844	11,186	494,249	263,345	4,175,699
1909	139	147	3,291	15,031	1,966,997	16,272	363,698	153,258	3,467,888
Per cent of increase or decrease (—)—									
1919-1929			29.5	114.0	76.8	53.3	103.5	72.9	105.2
1909-1919			—48.2	—16.9	5.2	—31.3	35.9	71.8	20.4
Michigan:									
1929	96	117	19,745	355,897	27,229,497	57,846	14,965,912	6,293,788	87,819,104
1919	122	165	31,292	337,882	50,406,187	29,439	15,204,063	8,444,697	103,870,089
1909	83	173	39,169	273,861	27,660,908	470,205	9,800,415	4,193,347	67,714,479
Per cent of increase or decrease (—)—									
1919-1929			—36.9	5.3	—46.0	96.5	—1.6	—25.5	—15.5
1909-1919			—20.1	23.4	82.2	—93.7	55.1	101.4	53.4
Minnesota:									
1929	121	143	11,370	198,182	17,766,522	1,476,441	9,249,071	4,499,651	130,359,063
1919	135	196	17,265	144,199	29,383,021	1,512,999	14,101,962	4,681,952	130,399,254
1909	153	250	16,536	151,834	11,907,049	2,157,108	6,736,806	2,024,606	58,664,852
Per cent of increase or decrease (—)—									
1919-1929			—34.1	37.4	—39.5	—2.4	—34.4	—3.9	(9)
1909-1919			4.1	—5.0	146.8	—29.9	109.3	131.3	122.3
Missouri:									
1929	373	401	12,793	147,986	15,537,816	136,082	5,368,569	2,999,904	43,479,216
1919	468	494	14,857	100,070	16,777,358	415,843	4,784,748	2,034,413	33,365,694
1909	1,009	1,224	23,420	109,452	14,393,570	155,244	6,196,052	2,220,527	31,656,070
Per cent of increase or decrease (—)—									
1919-1929			—13.9	47.9	—7.4	—67.3	12.2	47.5	30.3
1909-1919			—36.6	—8.6	16.6	167.9	—22.8	—8.4	5.4
Montana:									
1929	141	169	14,575	201,749	25,718,006	272,966	8,088,662	2,394,434	64,773,509
1919	254	269	16,091	143,473	25,665,851	113,249	9,471,377	2,964,939	49,665,675
1909	373	543	18,846	174,389	21,361,406	394,499	16,397,323	3,628,050	54,991,961
Per cent of increase or decrease (—)—									
1919-1929			—9.4	40.6	0.2	141.0	—14.6	—19.2	30.4
1909-1919			—14.6	—17.7	20.2	—71.3	—42.2	—18.3	—9.7

[8] Louisiana, 2 operators; Delaware, 9.
[9] Less than one-tenth of 1 per cent decrease.

TABLE 25.—SUMMARY FOR THE UNITED STATES, BY STATES: 1929, 1919, AND 1909—Continued

[See note at head of this table]

STATE AND CENSUS YEAR	Number of enterprises	Number of mines and quarries	Wage earners (average for the year)	Horsepower rating of power equipment	PRINCIPAL EXPENSES				Value of products
					Wages	Contract work	Cost of supplies and materials	Cost of fuel and purchased electric energy	
Nebraska:									
1929	6	8	137	1,605	$182,110	----------	$73,796	$22,263	$459,628
1919	9	9	162	1,847	166,202	----------	60,996	21,176	292,766
1909	18	20	349	815	169,937	$5,593	35,474	22,019	322,517
Per cent of increase or decrease (−)—									
1919-1929	----------	----------	−15.4	−13.1	9.6	----------	21.0	5.1	57.0
1909-1919	----------	----------	−53.6	126.6	−2.2	----------	71.9	−3.8	−9.2
Nevada:									
1929	101	104	4,685	72,915	8,104,266	331,545	5,222,924	1,654,998	26,494,536
1919	203	207	4,231	50,786	7,401,113	245,429	5,339,511	1,751,266	18,053,984
1909	262	370	4,030	26,862	5,912,989	196,768	4,981,522	1,311,625	23,249,001
Per cent of increase or decrease (−)—									
1919-1929	----------	----------	10.7	43.6	9.5	35.1	−2.2	−5.5	46.8
1909-1919	----------	----------	−8.6	89.1	25.2	24.7	7.2	33.5	−22.3
New Hampshire:									
1929	36	39	569	5,455	772,709	6,288	190,009	97,063	1,562,387
1919	30	33	682	4,336	825,547	34,520	144,946	64,980	1,568,195
1909	45	53	1,418	3,771	926,352	9,246	100,931	54,427	1,308,597
Per cent of increase or decrease (−)—									
1919-1929	----------	----------	−16.6	25.8	−6.4	−81.8	31.1	49.4	−0.4
1909-1919	----------	----------	−51.9	15.0	−10.9	273.4	43.6	19.4	19.8
New Jersey:									
1929	65	71	2,906	50,171	4,309,281	52,860	1,459,359	782,580	11,100,362
1919	97	102	4,576	33,901	5,392,861	57,948	2,194,539	719,938	9,308,902
1909	131	151	6,315	18,048	2,801,066	44,489	674,962	319,329	8,347,501
Per cent of increase or decrease (−)—									
1919-1929	----------	----------	−36.5	48.0	−20.1	−8.8	−33.5	8.7	19.2
1909-1919	----------	----------	−27.5	87.8	92.5	30.3	225.1	125.5	11.5
New Mexico:									
1929	69	89	6,986	90,061	10,118,023	116,882	4,389,541	1,698,886	27,141,764
1919	85	103	7,100	59,876	10,493,857	131,506	3,889,454	1,361,210	18,872,560
1909	98	285	5,107	16,042	3,529,356	132,535	805,487	203,083	5,587,744
Per cent of increase or decrease (−)—									
1919-1929	----------	----------	−1.6	51.9	−3.6	−11.1	12.9	24.8	43.8
1909-1919	----------	----------	39.0	273.2	197.3	−0.8	382.9	570.3	237.7
New York:									
1929	189	206	5,021	102,389	7,479,875	41,631	4,210,763	1,680,510	24,272,177
1919	139	147	5,334	61,143	6,409,549	172,277	3,508,693	1,210,769	15,230,199
1909	643	752	8,941	59,962	4,480,652	107,858	1,406,529	576,472	10,665,979
Per cent of increase or decrease (−)—									
1919-1929	----------	----------	−5.9	67.5	16.7	−75.8	20.0	38.8	59.4
1909-1919	----------	----------	−40.3	2.0	43.0	59.7	139.3	110.0	42.8
North Carolina:									
1929	112	123	2,436	20,348	2,192,732	678	1,107,474	388,460	5,631,316
1919	102	106	1,890	5,039	1,489,062	5,745	467,460	220,731	2,736,543
1909	118	130	2,215	6,062	862,762	37,386	152,714	103,319	1,358,617
Per cent of increase or decrease (−)—									
1919-1929	----------	----------	28.9	303.8	47.3	−88.2	136.9	76.0	105.8
1909-1919	----------	----------	−14.7	−16.9	72.6	−84.6	206.1	113.6	101.4
Ohio:									
1929	704	744	25,500	182,003	29,117,030	137,286	6,063,451	2,690,036	51,757,468
1919	950	1,064	44,175	184,271	51,766,625	517,018	10,919,447	3,271,174	89,034,980
1909	688	964	45,218	127,736	23,623,622	91,229	3,350,681	754,881	34,146,153
Per cent of increase or decrease (−)—									
1919-1929	----------	----------	−42.3	−1.2	−43.8	−73.4	−44.5	−17.8	−41.9
1909-1919	----------	----------	−2.3	44.3	119.1	466.7	225.9	333.3	160.7
Oklahoma:									
1929	196	245	10,047	98,481	13,317,998	255,089	5,442,746	1,898,763	31,559,649
1919	235	284	12,734	94,939	16,059,762	286,539	5,859,933	2,311,976	34,430,282
1909	153	212	8,792	34,578	5,600,746	34,041	1,002,394	326,468	7,952,800
Per cent of increase or decrease (−)—									
1919-1929	----------	----------	−21.1	3.7	−17.1	−11.0	−7.1	−17.9	−8.3
1909-1919	----------	----------	44.8	174.6	192.0	741.7	484.6	608.2	332.9
Oregon:									
1929	44	44	635	7,249	957,831	95,019	343,377	188,311	2,410,038
1919	50	52	740	6,264	992,957	35,888	545,949	133,472	1,884,871
1909	116	161	860	8,070	705,192	7,717	186,796	96,592	1,191,512
Per cent of increase or decrease (−)—									
1919-1929	----------	----------	−14.2	15.7	−3.5	164.8	−37.1	41.1	27.9
1909-1919	----------	----------	−14.0	−22.4	40.8	365.1	192.3	38.2	58.2
Pennsylvania: [10]									
1929	1,756	2,129	275,138	2,143,828	401,987,709	7,467,703	76,745,167	27,995,860	683,530,842
1919	2,667	3,508	314,332	1,628,050	434,999,210	2,447,353	110,287,689	26,119,354	753,179,148
1909	1,821	3,000	354,289	1,139,860	193,329,150	2,678,847	40,170,350	6,024,163	309,862,311
Per cent of increase or decrease (−)—									
1919-1929	----------	----------	−12.5	31.7	−7.6	205.1	−30.4	7.2	−9.2
1909-1919	----------	----------	−11.3	42.8	125.0	−8.6	174.5	333.6	143.1
Rhode Island:									
1929	14	14	256	4,237	384,865	2,000	143,735	73,483	809,381
1919	14	15	369	3,000	399,648	1,000	146,637	55,075	952,204
1909	21	27	665	2,350	409,883	----------	130,947	26,991	897,606
Per cent of increase or decrease (−)—									
1919-1929	----------	----------	−30.6	41.2	−3.7	100.0	−2.0	33.4	−15.0
1909-1919	----------	----------	−44.5	27.7	−2.5	----------	12.0	104.0	6.1

[10] See footnote 2, Table 24.

TABLE 25.—SUMMARY FOR THE UNITED STATES, BY STATES: 1929, 1919, AND 1909—Continued

[See note at head of this table]

STATE AND CENSUS YEAR	Number of enterprises	Number of mines and quarries	Wage earners (average for the year)	Horsepower rating of power equipment	PRINCIPAL EXPENSES				Value of products
					Wages	Contract work	Cost of supplies and materials	Cost of fuel and purchased electric energy	
South Carolina:									
1929	33	35	1,298	18,470	$929,506	$7,956	$392,920	$323,163	$3,092,967
1919	20	20	933	4,656	680,484	----------	303,371	150,440	1,350,747
1909	29	32	1,814	7,012	626,429	6,680	124,618	117,899	1,252,792
Per cent of increase or decrease (—)—									
1919-1929	--------	--------	39.1	296.7	36.6	----------	29.5	114.8	129.0
1909-1919	--------	--------	—48.6	—33.6	8.6	----------	143.4	27.6	7.8
South Dakota and North Dakota:									
1929	150	150	2,507	35,202	3,834,393	8,746	1,755,990	295,145	10,526,518
1919	102	107	2,559	13,881	3,526,466	42,691	1,291,829	321,713	7,241,820
1909	92	96	4,018	17,673	3,588,996	1,375	1,205,023	433,883	6,997,229
Per cent of increase or decrease (—)—									
1919-1929	--------	--------	—2.0	153.6	8.7	—79.5	35.9	—8.3	45.4
1909-1919	--------	--------	—36.3	—21.5	—1.7	3,004.8	7.2	—25.9	3.5
Tennessee:									
1929	140	167	11,441	73,772	10,333,308	139,907	2,416,657	1,402,674	22,049,925
1919	203	263	14,470	56,675	12,987,338	173,796	3,892,397	1,259,983	23,292,114
1909	216	365	16,338	34,523	7,358,583	54,372	1,613,571	645,376	12,692,547
Per cent of increase or decrease (—)—									
1919-1929	--------	--------	—20.9	30.2	—20.4	—19.5	—37.9	11.3	—5.3
1909-1919	--------	--------	—11.4	64.2	76.5	219.6	141.2	95.2	83.5
Texas:									
1929	92	104	5,190	60,394	6,150,558	41,729	4,475,299	4,839,484	44,333,518
1919	71	81	4,565	21,514	4,988,868	7,543	2,260,867	1,761,709	17,040,696
1909	73	92	5,025	8,941	2,630,220	31,232	479,016	171,905	4,350,337
Per cent of increase or decrease (—)—									
1919-1929	--------	--------	13.7	180.7	23.3	453.2	97.9	174.7	160.2
1909-1919	--------	--------	—9.2	140.6	89.7	—75.8	372.0	924.8	291.7
Utah:									
1929	117	131	12,149	179,475	21,225,133	2,051,993	13,571,363	4,103,672	82,843,031
1919	141	154	9,847	85,816	17,196,652	491,178	8,043,453	2,019,110	41,510,802
1909	188	235	10,089	47,226	8,986,851	265,066	4,027,324	1,074,119	22,083,282
Per cent of increase or decrease (—)—									
1919-1929	--------	--------	23.4	109.1	23.4	317.8	68.7	103.2	99.6
1909-1919	--------	--------	—2.4	81.7	91.4	85.3	99.7	88.0	88.0
Vermont:									
1929	105	129	3,154	39,906	4,153,100	27,974	712,097	617,681	10,275,907
1919	93	109	2,936	28,099	3,041,551	91,750	1,272,796	425,398	8,555,930
1909	137	182	8,145	25,668	4,449,315	64,698	905,157	362,438	8,221,323
Per cent of increase or decrease (—)—									
1919-1929	--------	--------	7.4	42.0	36.5	—69.5	—44.1	45.2	20.1
1909-1919	--------	--------	—64.0	9.5	—31.6	41.8	40.6	17.4	4.1
Virginia:									
1929	179	196	15,015	107,316	14,554,452	17,089	3,608,691	1,753,345	28,705,823
1919	202	216	14,547	57,880	16,108,240	340,851	4,769,370	1,216,894	29,363,449
1909	150	244	15,257	34,630	5,229,787	119,028	1,173,866	484,527	8,795,646
Per cent of increase or decrease (—)—									
1919-1929	--------	--------	3.2	85.4	—9.6	—95.0	—24.2	44.1	—2.2
1909-1919	--------	--------	—4.7	67.1	208.0	186.4	305.5	151.2	233.8
Washington:									
1929	82	90	3,652	39,321	5,796,027	----------	1,240,436	630,898	12,270,808
1919	83	93	5,050	37,998	7,465,652	86,624	1,728,585	947,330	13,329,129
1909	93	170	6,904	20,742	5,891,007	14,462	843,025	245,852	10,537,556
Per cent of increase or decrease (—)—									
1919-1929	--------	--------	—27.7	3.5	—22.4	----------	—28.2	—33.4	—7.9
1909-1919	--------	--------	—26.9	83.2	26.7	499.0	105.0	285.3	26.5
West Virginia:									
1929	723	870	101,085	664,530	128,417,959	292,028	25,038,260	9,222,197	222,316,885
1919	963	1,325	88,510	366,028	107,161,515	405,581	26,512,225	5,794,686	196,088,316
1909	356	718	66,657	160,144	31,582,761	62,279	5,313,375	762,862	48,099,802
Per cent of increase or decrease (—)—									
1919-1929	--------	--------	14.2	81.6	19.8	—28.0	—5.6	59.1	13.4
1909-1919	--------	--------	32.8	128.6	239.3	551.2	399.0	659.6	307.7
Wisconsin:									
1929	99	104	2,517	49,158	3,545,162	28,230	1,387,612	708,561	10,401,057
1919	92	107	3,547	26,766	4,750,235	135,293	1,969,512	857,265	10,580,833
1909	268	286	4,710	24,864	3,081,359	40,957	877,925	435,993	7,459,404
Per cent of increase or decrease (—)—									
1919-1929	--------	--------	—29.0	83.7	—25.4	—79.1	—29.5	—17.3	—1.7
1909-1919	--------	--------	—24.7	7.6	54.2	230.3	124.3	96.6	41.8
Wyoming:									
1929	56	73	5,282	50,855	9,663,759	32,521	2,114,512	774,831	18,817,045
1919	67	87	7,532	49,864	11,089,680	39,335	2,590,734	799,693	19,968,851
1909	59	95	7,729	30,053	6,255,637	33,151	1,277,348	372,922	10,553,259
Per cent of increase or decrease (—)—									
1919-1929	--------	--------	—29.9	2.0	—12.9	—17.3	—18.4	—3.1	—5.8
1909-1919	--------	--------	—2.5	65.9	77.3	18.7	102.8	114.4	89.2

TABLE 26.—CONSUMPTION OF FUEL AND ELECTRIC ENERGY, BY INDUSTRIES: 1929

[This table does not include data for enterprises whose value of product was less than $20,000. Such enterprises were permitted to report on an abbreviated schedule, which did not call for information pertaining to fuel and electric energy consumed. The combined value of products represented by these enterprises was less than 1 per cent of the total for all mining and quarrying industries]

INDUSTRY	FUEL AND ELECTRIC ENERGY CONSUMED							
	Fuel						Electric energy	
	Coal		Coke, tons (2,000 pounds)	Fuel oils, gallons	Gasoline and kerosene, gallons	Natural gas, M cubic feet	Purchased, kilowatt-hours	Generated by enterprises reporting, kilowatt-hours
	Anthracite, tons (2,240 pounds)	Bituminous, tons (2,000 pounds)						
All industries, total	5,223,195	8,825,007	136,896	169,985,047	16,565,785	[1] 25,536,328	5,382,178,325	2,080,612,116
COAL								
Anthracite	5,044,989	28,833		36,930	92,033		470,248,027	478,428,569
Bituminous		4,524,407	30,301	711,941	754,074	[1] 303,000	2,044,348,813	464,540,925
METALS								
Copper	134	1,006,321	7,859	89,613,817	421,317		758,119,336	734,614,117
Iron ore	52,448	804,815	85,953	2,300,241	506,898	[1] 2,227	375,636,018	99,735,238
Lead	4,766	131,059	382	970,506	108,402	132,344	447,702,056	50,718,102
Zinc	59,783	46,859	15	2,021,425	261,701	784,183	196,948,992	54,746,006
Gold, lode	5	119,278	208	505,967	135,738	6,279	52,427,901	56,636,628
Silver	11	5,424	18	1,161,157	117,261		42,838,382	7,302,065
Gold, placer		140			4,250		67,617,908	216,000
Mercury		21		3,156,675	202,600		5,328,950	2,145,756
Manganese		8,955		10,383	10,251		3,881,089	
Minor metals [2]	150	20,283	10	730,240	60,287	482,948	14,476,851	599,000
STONE								
Limestone	44,066	805,238	4,574	6,178,983	3,616,524	117,742	294,930,770	37,056,618
Granite	5,401	79,454	245	1,448,618	680,081	[1] 14,056	56,884,163	943,200
Basalt	1,096	53,934	702	526,507	554,638		30,746,089	
Slate	2,454	34,366		91,204	26,730		18,797,538	672,043
Marble	284	49,765	143	27,684	40,298		21,726,805	108
Sandstone	1,075	30,060		971,974	155,057	3,430	11,858,041	118,520
Miscellaneous	17	11,465		1,790,727	434,971	67,200	16,287,892	
OTHER NONMETALS								
Abrasive materials [3]	15	6,021		358,093	91,939	1,800	346,142	292,000
Asbestos		592		143,006	16,250		988,000	18,800
Asphalt and bituminous rock		31,173		978,702	112,471		1,425,974	3,083,024
Barite		8,703		131,026	92,259		5,649,647	57,720
Clay	627	115,248	2,158	127,547	445,982	10,230	14,348,903	241,476
Feldspar	52	783	511	71,607	60,246		3,826,437	60,230
Fluorspar		48,925		84,889	181,049		744,337	4,366,099
Fuller's and filtering earths		16,505	2,474	6,018,754	470,080	4,014	2,845,352	3,627,389
Gypsum	623	13,085	646	771,752	266,641	5,033	19,264,882	5,251,706
Magnesite		26,816		859,394	5,670		5,322,663	
Mica	2	1,617	7	41,000	40,524		1,279,272	
Millstones and pulpstones		1,175				3,277	1,208,085	
Phosphate rock		71,979	2	24,158,459	102,294		109,902,672	50,792,426
Sand, glass		62,010		1,146,839	93,192	630	15,280,623	333,000
Sand, molding		36,960	200	128,446	307,739	4,835	5,885,496	65,000
Sand and gravel	3,804	601,588	133	16,911,401	5,811,573	[1] 134,773	237,679,291	7,594,828
Silica [4]		13,215		441,267	193,084	385,554	10,776,482	2,000
Sulphur and pyrites		328		5,108,863	19,894	23,072,773	2,735,292	15,453,523
Talc and soapstone	53	5,717	355	5,410	54,644		8,467,612	900,000
Miscellaneous minerals [5]	1,340	1,830		243,553	16,243		3,395,542	

[1] Includes 111,314 M cubic feet of manufactured gas, consumed in industries as follows: Coal, bituminous, 56,471 M; granite, 56 M; iron ore, 2,227 M; sand and gravel, 52,560 M.

[2] Bauxite, molybdenum, titanium, tungsten, vanadium.

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

[4] Diatomaceous earth, ganister, quartz, quartzite, silica rock, silica sand, siliceous mica schist, tripoli.

[5] Borates ,cyanite, graphite, lithium minerals (amblygonite, lepidolite, and spodumene), mineral pigments, tantalum, vermiculite.

TABLE 27.—CONSUMPTION OF FUEL AND ELECTRIC ENERGY, BY STATES: 1929

[See headnote, Table 26]

STATE	FUEL AND ELECTRIC ENERGY CONSUMED							
	Fuel						Electric energy	
	Coal		Coke, tons (2,000 pounds)	Fuel oils, gallons	Gasoline and kerosene, gallons	Natural gas, M cubic feet	Purchased, kilowatt-hours	Generated by enterprises reporting, kilowatt-hours
	Anthracite, tons (2,240 pounds)	Bituminous, tons (2,000 pounds)						
United States, total	5,223,195	8,825,007	136,896	169,985,047	16,565,785	[1] 25,536,328	5,382,178,325	2,080,612,116
Individual States								
Alabama		295,848	18,430	160,298	96,741		234,764,738	49,141,760
Arizona	77	4,124	357	87,523,804	334,583		132,243,548	451,924,097
Arkansas	3,650	30,374	10	1,513,263	214,104	542,180	15,104,637	
California	7	2,816		13,101,607	1,846,025	396,760	184,571,796	2,595,460
Colorado		289,954	63	132,867	100,801	4,014	93,206,726	16,587,400
Connecticut	224	17,465	73	53,252	99,366		6,950,367	
Florida		36,386		26,361,007	412,343		106,917,257	52,209,426
Georgia	1,317	97,018	1,815	3,906,965	154,737		20,564,806	5,380,429
Idaho		21,813	310	247,785	32,325		119,814,986	9,351,121
Illinois	1,386	1,160,205		725,071	771,807		184,265,217	41,556,584
Indiana		458,842		102,373	310,836		103,569,585	3,626,506
Iowa	985	92,186	30	42,561	282,482		30,943,803	266,670
Kansas	342	71,889		372,832	352,943	301,572	65,320,992	548,058
Kentucky		541,146	750	223,821	325,335	102,345	175,731,000	55,829,180
Maine	2,082	4,284	76	9,650	23,066		5,004,412	70,000
Maryland		55,363	91	673,700	145,101	600	16,533,358	1,492,456
Massachusetts	202	21,577	5	383,807	456,558	[1] 4,833	13,716,792	302,258
Michigan	845	1,002,107	2,904	1,040,380	779,500		174,003,915	222,403,092
Minnesota	115	469,807	28,280	464,656	435,106		107,435,531	4,420,538
Missouri	7	245,036	96	1,063,431	415,002	10,844	205,834,623	71,992,038
Montana	110	138,104	46	228,783	114,709		317,574,705	3,515,260
Nebraska	15	2,927		42,000	122,637		7,667,829	
Nevada	7	114,931	847	2,463,842	197,851		43,231,122	77,689,940
New Hampshire	30	6,067	7	66,474	45,016		2,604,146	162,000
New Jersey	60,853	35,518	30	1,797,860	847,474		23,167,307	23,675,263
New Mexico		239,643		1,021,418	68,134		16,823,556	110,852,282
New York	12,465	128,517	982	1,242,029	1,260,119	597	98,349,049	7,633,980
North Carolina		50,462	235	82,700	327,735		13,127,202	773,200
Ohio	380	380,009	465	927,533	850,871	20,163	125,155,527	8,172,100
Oklahoma		80,734		2,284,807	646,233	636,566	93,312,694	16,377,300
Oregon		999		1,953,810	138,683		7,034,560	916,000
Pennsylvania	5,126,919	1,307,243	22,469	2,329,075	1,547,589	106,301	1,279,191,466	600,580,823
Rhode Island	1,203	3,445		963	54,500		1,508,704	
South Carolina	1,625	21,125	2,308	30,202	260,964		11,104,801	
Tennessee		204,720	10	251,957	215,500		89,382,515	7,072,000
Texas	903	54,082	50	12,342,913	802,347	[1] 23,257,784	17,008,974	19,402,348
Utah	38	100,744	4,942	356,752	182,585		468,894,024	661,404
Vermont	431	15,513	395	115,278	31,624		22,571,970	13,405
Virginia	4,719	84,603	2,924	140,420	129,758		99,427,850	2,095,993
Washington		59,164	1	935,439	188,818		42,725,958	527,056
West Virginia		567,467		75,887	75,436	[1] 87,880	536,103,186	113,529,744
Wisconsin	149	33,724	47,162	150,525	415,237	[1] 2,227	40,077,009	52,500
Wyoming		180,857		80,448	71,926		13,185,701	50,414,145
Groups of States								
Delaware and District of Columbia	10	1,830		500	10,435		362,970	
Louisiana and Mississippi		16,143		1,935,860	107,252		13,410,170	
North Dakota and South Dakota		77,596	733	124,433	263,591	[1] 61,662	2,581,251	45,847,400

[1] Includes 111,314 M cubic feet of manufactured gas, consumed in States as follows: Massachusetts, 4,833 M; North Dakota and South Dakota, 55,383 M; Texas, 34,887 M; West Virginia, 13,984 M; Wisconsin, 2,227 M.

TABLE 28.—DETAILED STATISTICS FOR NONPRODUCING ENTERPRISES, BY INDUSTRIES: 1929

	Total	Gold, silver, copper, lead, or zinc	Iron ore	Coal, bituminous	Other industries [1]
Number of enterprises	861	783	6	19	53
Number of mines and quarries	904	826	6	19	53
Persons engaged, total	6,500	5,889	124	103	384
Salaried officers and employees	698	637	17	(2)	44
Wage earners (average for the year)	5,802	5,252	107	103	340
Principal expenses:					
Salaries and wages—					
Salaried officers and employees	$1,384,118	$1,253,376	$33,942	(3)	$96,800
Wage earners	$7,905,459	$7,204,957	$144,793	$118,513	$437,196
Contract work	$857,265	$808,457		(4)	$48,808
Supplies, fuel, and purchased electric energy	$4,629,395	$3,860,978	$155,683	$122,016	$490,718
Expenditures for development (included above in "Principal expenses")	$13,158,491	$11,503,564	$337,000	$281,519	$1,036,408
Machinery and other equipment purchased during the year, total cost	$2,224,384	$1,802,116	$422,268	(4)	(4)
Prime movers and electric motors driven by purchased energy, aggregate horsepower	69,620	62,602	1,820	916	4,282
Prime movers, total horsepower	37,091	33,386	105	467	3,133
Steam engines—					
Number	497	424	2	13	58
Horsepower	19,305	15,665	40	467	3,133
Steam turbines—					
Number	2	2			
Horsepower	18	18			
Internal-combustion engines—					
Number	270	268	2		
Horsepower	12,788	12,723	65		
Water wheels and water turbines—					
Number	52	52			
Horsepower	4,980	4,980			
Electric motors driven by purchased energy—					
Number	793	716	25	13	39
Horsepower	32,529	29,216	1,715	449	1,149
Electric motors driven by energy generated by enterprises reporting:					
Number	141	141			
Horsepower	4,069	4,069			
Electric generators:					
Number	34	34			
Kilowatts	5,064	5,064			

[1] Abrasive materials, 1 enterprise; asbestos, 1; clay, 3; feldspar, 3; fluorspar, 4; granite, 2; gypsum, 1; limestone, 1; manganese, 3; marble, 6; mercury, 13; mica, 1; sandstone, 1; silica, 2; sulphur, 1; tungsten, 10.
[2] Included in figures for wage earners.
[3] Included in figures for wages.
[4] Not reported.

TABLE 29.—DETAILED STATISTICS FOR NONPRODUCING ENTERPRISES, BY STATES: 1929

STATE	Number of enterprises	Number of mines and quarries	Persons engaged in industry: Total	Persons engaged in industry: Salaried officers and employees	Persons engaged in industry: Wage earners (average for the year)	Principal expenses of operation and development: Salaries and wages: Salaried officers and employees	Principal expenses of operation and development: Salaries and wages: Wage earners	Principal expenses of operation and development: Contract work	Principal expenses of operation and development: Supplies, fuel, and purchased electric energy	Expenditures for development (included in "Principal expenses")	Machinery and other equipment purchased during the year (total cost)
United States	861	904	6,500	698	5,802	$1,384,118	$7,905,459	$857,265	$4,629,395	$13,158,491	$2,224,384
Arizona	103	106	809	102	707	271,486	918,267	104,157	568,282	1,785,908	156,506
California	166	173	1,299	123	1,176	266,341	1,621,405	196,317	847,463	2,941,126	176,619
Colorado	117	123	636	99	537	146,845	699,931	77,450	363,068	1,158,744	51,408
Georgia	3	3	25		25		24,600		2,000	21,500	
Idaho	93	101	631	80	551	132,152	833,693	181,693	349,302	1,428,368	120,833
Illinois	3	3	37		37		41,301		36,379	86,758	
Kentucky	3	3	14	1	13	700	10,732		2,525	9,500	
Michigan	3	3	53	3	50	5,650	80,124	14,630	107,360	212,100	23,172
Minnesota	4	4	82	11	71	27,208	102,595		125,391	260,600	420,418
Missouri	8	8	23	2	21	5,932	13,876	30,204	17,050	83,908	4,000
Montana	60	64	417	29	388	67,150	494,619	36,604	252,950	750,471	40,497
Nevada	77	77	590	60	530	142,314	792,983	12,881	558,065	1,162,365	63,664
New Mexico	24	25	151	21	130	21,232	132,415	1,400	51,053	175,125	13,185
North Carolina	5	6	22	3	19	7,600	18,269		16,625	36,197	25,000
Oklahoma	3	3	24	1	23	2,591	24,444	29,069	19,609	50,000	
Oregon	50	59	334	23	311	30,170	371,555	15,783	184,432	492,695	66,712
Pennsylvania	5	5	9	1	8	800	7,525		1,500	21,450	
South Dakota	3	3	32	4	28	11,273	44,064	1,000	29,534	91,419	6,311
Tennessee	3	3	54	1	53	960	61,370		38,838	64,025	17,103
Utah	66	69	496	65	431	93,373	630,040	87,781	422,251	1,177,153	90,394
Virginia	3	3	19		19		16,500	25,000	6,200	47,000	
Washington	38	38	348	35	313	81,216	411,160	6,101	166,548	386,607	169,034
Wyoming	10	11	79	7	72	17,800	105,220		42,940	117,500	84,660
Other States [1]	11	11	316	27	289	51,325	442,771	37,195	419,970	597,972	694,808

STATE	Prime movers and electric motors driven by purchased energy: Aggregate horsepower	Prime movers: Total horsepower	Steam engines: Number	Steam engines: Horsepower	Steam turbines: Number	Steam turbines: Horsepower	Internal-combustion engines: Number	Internal-combustion engines: Horsepower	Water wheels and water turbines: Number	Water wheels and water turbines: Horsepower	Electric motors driven by purchased energy: Number	Electric motors driven by purchased energy: Horsepower	Electric motors driven by energy generated by enterprises reporting: Number	Electric motors driven by energy generated by enterprises reporting: Horsepower	Electric generators: Number	Electric generators: Kilowatts
United States	69,620	37,091	497	19,305	2	18	270	12,788	52	4,980	793	32,529	141	4,069	34	5,064
Arizona	12,022	7,855	91	2,801			94	5,004	1	50	90	4,107	53	1,658	12	1,955
California	11,809	6,437	132	3,173	1	6	43	1,485	24	1,773	184	5,372	16	650	7	1,780
Colorado	7,610	3,311	26	2,005	1	12	9	283	9	1,011	109	4,299	13	305	3	390
Georgia	275	225	1	225							1	50				
Idaho	5,330	3,225	29	1,482			14	743	5	1,000	48	2,105	1	200	(2)	(2)
Illinois	222	132	2	132							4	90				
Kentucky	43	43	6	43												
Michigan	1,295	775	6	535			1	240			4	520				
Minnesota	1,320	175	3	140			1	35			19	1,145				
Missouri	1,053	101	5	101							24	952				
Montana	3,655	1,600	18	1,002			12	451	3	147	35	2,055	(2)	(2)	1	100
Nevada	7,086	4,276	52	2,628			40	1,648			55	2,810	4	91	4	132
New Mexico	1,415	1,250	22	567			14	683			2	165	1	75	1	130
North Carolina	110	75	2	75							1	35				
Oklahoma	2,251	850	2	300			5	550			42	1,401				
Oregon	1,885	1,349	25	1,022			5	230	2	97	20	536	13	205	2	19
Pennsylvania	75	15	3	15							3	60				
South Dakota	527	15	1	15							18	512				
Tennessee	650										12	650				
Utah	3,632	815	14	372			11	396	2	47	72	2,817				
Virginia	210	210	6	210												
Washington	2,779	2,342	30	1,097			16	390	6	855	20	437	18	365	2	318
Wyoming	1,085	1,085	7	485			4	600					22	430	2	240
Other States [1]	3,281	930	14	880			1	50			30	2,351				

[1] Alabama, 2 enterprises; Florida, 1; Iowa, 1; Kansas, 1; New York, 2; Ohio, 1; Texas, 1; West Virginia, 1; Wisconsin, 1.
[2] Not reported.

TABLE 30.—DETAILED STATISTICS FOR THE

	INDUSTRY	Number of enterprises[1]	Number of mines and quarries[2]	PERSONS ENGAGED IN INDUSTRY: Total (all classes)	Proprietors and firm members	Principal salaried officers of corporations[3]	Other salaried officers and employees[3]	Wage earners (average for the year)[4]	PRINCIPAL EXPENSES OF OPERATION AND DEVELOPMENT[5]: Total	Salaries and wages: Principal officers of corporations[3]	Other salaried officers and employees[3]	Wage earners	Contract work	Cost of supplies, fuel, and purchased electric energy: Supplies	Fuel	Purchased electric energy
									Dollars	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
1	All industries, total	10,135	11,602	859,346	4,897	5,600	42,431	806,418	1,645,129,153	24,012,277	97,587,563	1,091,989,848	17,056,464	293,568,383	49,145,531	71,769,087
	COAL															
2	Anthracite (Pa.)	198	[6] 303	150,494	38	163	7,492	142,801	313,400,536	854,016	18,481,914	229,967,059	6,801,808	43,367,491	7,419,721	6,508,527
3	Bituminous	4,976	5,620	482,541	2,983	2,682	18,144	458,732	770,236,811	9,998,679	38,841,351	574,800,072	1,889,627	106,438,396	7,529,305	30,739,381
	METALS															
4	Copper	143	180	48,043	76	62	3,403	44,502	145,163,728	382,961	9,753,393	73,199,785	2,594,908	43,995,395	9,210,052	6,027,234
5	Iron ore	180	208	30,707	9	22	2,160	28,516	76,097,356	95,470	5,042,814	40,905,190	1,553,134	18,561,157	5,332,103	4,607,488
6	Lead	155	171	15,004	53	72	872	14,007	41,287,387	370,344	2,175,806	22,917,435	1,032,085	10,377,787	680,700	3,733,230
7	Zinc	148	204	12,799	25	74	800	11,900	30,593,469	379,383	2,127,881	16,274,339	621,478	7,965,885	855,305	2,369,198
8	Gold, lode	174	184	5,885	89	71	372	5,353	15,724,187	165,085	966,162	8,655,505	556,148	4,112,489	436,181	832,617
9	Silver	67	74	2,838	25	45	175	2,593	7,499,442	165,325	442,103	4,326,719	137,970	1,820,829	121,698	484,798
10	Gold, placer	32	37	686	18	22	68	578	2,427,091	76,110	183,731	970,010	1,708	590,173	1,421	603,938
11	Mercury	40	40	1,127	10	16	72	1,029	2,381,345	60,000	159,708	1,383,603	15,292	464,047	229,844	68,851
12	Manganese	19	21	393	4	11	24	354	696,744	45,954	42,141	392,362	5,824	139,516	32,208	38,739
13	Minor metals, total	26	30	1,419	4	16	155	1,244	4,015,174	226,397	371,018	1,506,851	86,490	1,416,575	198,872	208,971
14	Bauxite	9	11	679	1	7	69	602	1,189,405	66,879	151,805	512,606	82,243	216,234	121,703	37,845
15	Other[10]	17	19	740	3	9	86	642	2,825,769	159,518	219,213	994,245	4,247	1,200,341	77,079	171,126
	STONE															
16	Limestone	1,167	1,266	35,582	497	471	2,314	32,300	75,933,430	2,334,381	4,854,432	39,188,364	418,760	20,735,789	3,606,670	4,795,034
17	Granite	406	434	11,191	279	229	646	10,037	20,647,446	1,106,281	1,481,864	12,639,524	39,273	3,618,511	652,642	1,109,351
18	Basalt	137	144	3,439	51	86	249	3,053	8,680,650	385,429	523,694	4,498,093	31,951	2,201,847	388,232	651,404
19	Slate	120	130	4,450	86	83	183	4,098	6,917,871	299,685	410,919	4,883,038	26,574	662,441	192,247	441,967
20	Marble	70	88	3,594	7	44	193	3,350	4,988,260	186,859	393,384	3,291,541	18,225	553,619	156,839	387,793
21	Sandstone	145	172	2,466	84	51	175	2,156	4,581,214	196,019	331,934	2,626,437	47,565	983,204	173,252	222,803
22	Miscellaneous	204	234	2,244	161	35	207	1,841	5,098,402	122,560	443,123	2,405,906	52,056	1,628,968	188,576	257,213
	OTHER NONMETALS															
23	Abrasive materials[11]	30	36	533	8	12	51	462	904,904	68,664	98,704	491,484	37,358	144,554	56,797	7,343
24	Asbestos	11	11	211	------	------	16	195	348,586	------	34,280	236,780	2,000	36,201	26,756	12,560
25	Asphalt and bituminous rock.	21	25	1,307	1	39	144	1,123	2,619,666	286,305	299,258	1,254,835	84,273	517,712	138,500	38,783
26	Barite	42	44	898	9	4	41	844	1,062,721	24,800	76,915	648,488	24,434	154,822	57,576	75,686
27	Clay	199	236	4,560	72	85	264	4,139	6,833,353	274,370	517,605	3,757,998	20,058	1,493,992	524,782	244,548
28	Feldspar	51	58	695	10	17	70	598	1,047,663	55,376	128,547	526,896	14,240	239,297	21,398	61,909
29	Fluorspar	28	36	1,184	13	13	105	1,053	2,222,333	62,983	226,934	1,112,322	16,540	626,500	153,448	23,606
30	Fuller's and filtering earths.	22	24	1,096	------	21	84	991	2,379,068	98,537	204,380	853,228	350,979	425,011	385,356	61,577
31	Gypsum	60	63	2,214	2	10	124	2,078	4,157,610	31,367	275,292	2,627,733	7,004	794,733	136,504	284,977
32	Magnesite	5	5	378	------	6	21	351	1,150,652	25,900	62,301	465,936	55,970	252,178	231,375	56,992
33	Mica	24	32	250	1	8	15	226	364,225	31,325	26,868	195,142	----------	65,474	17,605	17,811
34	Millstones and pulpstones.	14	14	194	3	9	18	164	384,817	30,800	66,466	221,318	----------	42,841	3,700	19,692
35	Phosphate rock	26	33	3,490	2	5	282	3,201	7,559,204	52,421	655,598	3,303,940	20,936	1,542,887	891,358	1,092,064
36	Sand, glass	25	32	1,125	------	25	70	1,030	2,868,504	117,110	160,560	1,313,503	15,000	675,263	282,405	304,663
37	Sand, molding	90	128	1,256	19	60	140	1,037	2,679,458	306,303	300,116	1,290,854	121,448	353,738	180,356	126,643
38	Sand and gravel	957	1,165	19,915	249	968	2,704	15,994	54,678,519	4,827,487	5,918,757	22,779,984	324,718	11,916,672	3,989,503	4,921,398
39	Silica[12]	70	73	1,657	8	22	194	1,433	3,099,537	70,230	451,617	1,677,407	3,566	614,123	142,818	139,716
40	Sulphur and pyrites[13]	9	10	2,505	1	8	297	2,199	12,261,745	90,300	864,698	3,482,606	10,269	3,339,859	4,433,427	40,586
41	Talc and soapstone	25	28	632	------	23	59	550	1,508,062	88,546	128,371	615,355	16,795	530,717	28,939	99,339
42	Miscellaneous minerals.[14]	19	19	343	------	10	28	305	637,983	18,515	62,924	301,197	----------	167,630	37,060	50,657

[1] See GENERAL EXPLANATIONS—The Enterprise.
[2] See GENERAL EXPLANATIONS—Milling and Manufacturing.
[3] Not including data for salaried officers and employees of "Central Administrative" offices. (See Table 17.)
[4] See GENERAL EXPLANATIONS—Persons Engaged.
[5] See GENERAL EXPLANATIONS—Expenses.
[6] See GENERAL EXPLANATIONS—Value of Products.
[7] Includes 203,825 horsepower reported for inactive prime movers.
[8] Includes 112,884 kilowatts reported for inactive generators.

UNITED STATES, BY INDUSTRIES: 1929

Expenditures for development (included in principal expenses; thousands)	Value of products [6]	Machinery and other equipment purchased during the year (total cost)	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY: Aggregate horsepower	Prime movers: Total horsepower of prime movers	Steam engines: Number	Steam engines: Horsepower	Steam turbines: Number	Steam turbines: Horsepower	Internal-combustion engines: Number	Internal-combustion engines: Horsepower	Water wheels and water turbines: Number	Water wheels and water turbines: Horsepower	Electric motors driven by purchased energy: Number	Electric motors driven by purchased energy: Horsepower	Electric motors driven by energy generated by enterprises reporting: Number	Electric motors driven by energy generated by enterprises reporting: Horsepower	Electric generators: Number	Electric generators: Kilowatts	
Dollars	*Dollars*	*Dollars*																	
76,488	2,392,831,178	84,508,448	7,514,843	[7] 2,743,025	14,144	1,737,858	794	684,878	4,421	274,208	125	46,081	123,811	4,771,818	34,024	1,352,981	1,609	[8] 736,489	1
7,902	384,854,300	5,579,720	1,041,465	618,042	3,286	455,327	282	160,424	98	2,291	------	------	6,598	423,423	9,917	464,164	139	128,395	2
16,646	966,693,771	34,947,424	3,124,187	721,687	4,542	544,015	199	145,008	425	28,004	5	4,660	66,581	2,402,500	14,379	429,970	973	271,072	3
22,151	283,517,373	13,083,523	701,791	366,863	326	156,639	94	189,123	142	19,726	8	1,375	8,038	334,928	4,726	270,205	108	173,765	4
9,886	197,334,548	3,593,941	498,821	222,154	845	171,232	32	33,017	46	4,005	14	13,900	5,266	276,667	690	40,688	43	41,895	5
5,666	67,561,778	1,903,066	194,380	38,234	43	7,618	9	19,336	84	7,813	12	3,467	4,370	156,146	411	16,422	27	20,703	6
2,506	44,866,026	1,847,978	163,357	55,829	33	6,019	7	18,252	263	30,758	5	800	2,577	107,528	740	17,206	25	19,687	7
3,739	17,650,174	1,084,523	69,829	31,486	80	7,586	4	4,870	63	4,309	31	14,721	1,119	38,343	614	22,211	24	14,472	8
1,902	8,457,263	423,704	28,043	9,549	12	1,169	1	100	50	8,080	1	200	627	19,394	138	2,664	16	2,021	9
76	3,770,241	359,497	20,280	589	16	389	------	------	------	------	4	200	423	19,691	5	25	3	30	10
460	2,820,166	618,185	5,625	3,119	------	------	------	------	89	3,119	------	------	160	2,506	77	758	18	808	11
40	1,184,561	12,441	2,342	177	------	------	------	------	16	177	------	------	102	2,165	------	------	------	------	12
379	6,649,976	230,253	13,469	3,874	5	600	------	------	21	2,422	7	852	430	9,595	16	648	8	1,452	13
13	2,238,892	95,550	5,711	2,124	3	350	------	------	8	1,762	2	12	125	3,587	------	------	5	1,075	14
366	4,411,084	143,703	7,758	1,750	2	250	------	------	13	660	5	840	305	6,008	16	648	3	377	15
1,459	117,257,784	5,668,756	535,466	198,236	1,316	110,561	32	51,387	723	35,233	9	1,055	8,780	337,230	429	20,872	52	16,832	16
1,003	30,381,373	655,909	108,217	32,144	509	23,332	16	1,245	165	6,962	6	605	2,025	76,073	221	1,776	16	1,412	17
231	15,543,687	990,467	63,881	18,775	143	11,407	------	------	152	7,308	2	60	898	45,106	8	350	3	92	18
134	10,486,390	206,983	33,817	7,941	158	7,289	1	265	6	331	1	56	1,155	25,876	3	75	1	100	19
298	7,538,905	192,776	30,198	6,013	71	3,365	22	1,425	21	1,038	1	185	898	24,185	6	172	2	45	20
270	6,311,977	130,239	28,935	11,370	128	8,909	3	225	89	2,236	------	------	517	17,565	12	294	3	142	21
223	8,475,008	382,895	28,527	9,091	130	4,776	------	------	86	4,315	------	------	629	19,436	6	113	1	75	22
67	1,411,284	26,692	3,828	2,927	36	1,341	------	------	38	1,436	2	150	38	901	13	205	3	150	23
93	397,482	89,257	2,114	695	3	257	------	------	16	438	------	------	30	1,419	4	40	1	25	24
39	5,123,836	182,214	13,109	10,177	68	5,162	------	------	74	5,015	------	------	67	2,932	59	3,136	13	1,785	25
12	1,801,314	154,065	6,066	2,698	18	598	------	------	36	1,950	1	150	96	3,368	8	113	4	185	26
94	10,753,445	458,753	31,877	20,837	120	9,923	5	4,989	178	5,745	2	180	718	11,040	85	1,011	9	862	27
32	1,935,335	28,100	6,543	2,531	10	1,170	------	------	47	986	1	375	150	4,012	26	381	2	350	28
157	2,858,344	139,664	6,513	6,182	46	5,477	------	------	56	705	------	------	23	331	120	2,830	14	2,003	29
90	4,811,629	98,012	8,221	6,775	22	2,725	3	1,400	31	2,650	------	------	94	1,446	171	2,000	8	1,376	30
127	5,740,188	577,546	26,498	5,348	10	1,599	------	------	43	3,719	1	30	792	21,150	107	1,939	12	1,233	31
24	2,043,905	44,236	3,197	220	3	170	------	------	3	50	------	------	143	2,977	------	------	------	------	32
14	516,305	6,406	1,721	732	4	165	------	------	14	482	3	85	54	989	6	113	1	125	33
8	620,835	11,136	2,517	614	11	364	------	------	5	250	------	------	64	1,903	------	------	------	------	34
190	13,043,769	805,128	104,146	46,518	68	7,370	15	37,268	9	1,880	------	------	901	57,628	355	30,966	14	22,722	35
50	5,359,216	433,067	13,215	2,193	14	805	3	270	24	1,118	------	------	448	11,022	24	716	3	360	36
12	4,775,957	355,514	14,792	7,603	75	4,638	2	90	78	2,875	------	------	305	7,189	2	40	1	25	37
------	102,311,914	7,173,766	516,745	231,097	1,653	158,150	10	740	1,125	72,207	------	------	7,732	285,648	212	6,591	42	3,828	38
81	4,645,142	266,868	11,771	4,515	32	2,312	------	------	49	2,203	------	------	476	7,256	4	9	1	10	39
325	37,126,148	1,633,726	33,932	31,643	291	14,324	49	15,424	36	1,895	------	------	106	2,289	426	13,528	18	8,202	40
57	2,687,953	85,399	10,530	3,937	11	535	5	20	17	407	9	2,975	192	6,593	4	750	1	250	41
45	3,502,876	66,719	3,978	610	6	540	------	------	3	70	------	------	189	3,368	------	------	------	------	42

[9] Collieries, 241; dredges, 42; washeries (culm-bank), 20.
[10] Molybdenum, 2 enterprises; titanium, 1; tungsten, 12; vanadium, 2.
[11] Emery, 2 enterprises; garnet and industrial sapphires and diamonds, 6; grinding pebbles and tube-mill lining, 2; grindstones, oilstones, whetstones, scythestones, and rubbing stones, 13; pumice and volcanic ash (pumicite), 7.
[12] Diatomaceous earth, 10 enterprises; ganister, 18; quartz, 9; quartzite, 2; silica rock, 6; silica sand, 14; siliceous mica schist, 3; tripoli, 8.
[13] Production of pyrites was of minor importance, representing less than 2 per cent of the combined value of products shown for sulphur and pyrites.
[14] Borates, 2 enterprises; cyanite, 2; graphite, 5; lithium minerals (amblygonite, lepidolite, and spodumene), 4; mineral pigments, 4; tantalum, 1; vermiculite, 1.

TABLE 31.—DETAILED STATISTICS FOR THE

	STATE	Number of enterprises [1]	Number of mines and quarries [2]	PERSONS ENGAGED IN INDUSTRY: Total (all classes)	Proprietors and firm members	Principal salaried officers of corporations [3]	Other salaried officers and employees [3]	Wage earners (average for the year) [4]	PRINCIPAL EXPENSES OF OPERATION AND DEVELOPMENT [5]: Total	Salaries and wages: Principal officers of corporations [3]	Other salaried officers and employees [3]	Wage earners	Contract work	Cost of supplies, fuel, and purchased electric energy: Supplies	Fuel	Purchased electric energy
1	United States, total	10,135	11,602	859,346	4,897	5,600	42,431	806,418	Dollars 1,645,129,153	Dollars 24,012,277	Dollars 97,587,563	Dollars 1,091,989,848	Dollars 17,056,464	Dollars 293,568,383	Dollars 49,145,531	Dollars 71,769,087
	Individual States															
2	Alabama	222	255	33,781	46	148	1,609	31,978	46,183,967	744,905	3,176,770	30,938,008	95,072	8,341,394	769,172	2,118,646
3	Arizona	133	138	18,134	68	18	1,481	16,567	56,616,666	102,725	3,930,453	28,290,779	1,152,201	17,434,645	4,145,087	1,560,776
4	Arkansas	128	137	5,453	72	99	252	5,030	7,537,064	331,301	478,189	4,917,309	106,600	1,089,489	276,480	337,696
5	California	367	441	9,323	157	160	958	8,048	24,943,747	668,668	2,340,099	12,270,081	534,593	6,312,482	768,862	2,048,962
6	Colorado	314	343	15,567	142	136	727	14,562	33,565,310	610,795	1,695,093	22,374,765	536,454	5,970,812	717,683	1,659,708
7	Connecticut	52	53	951	19	28	88	816	2,103,870	128,584	185,209	1,307,364	450	205,285	120,927	156,051
8	Florida	66	74	3,583	16	46	348	3,173	8,040,664	216,389	770,406	3,151,530	27,643	1,764,720	963,386	1,146,590
9	Georgia	79	86	4,032	31	67	207	3,727	5,758,494	247,852	430,544	2,944,216	346,259	974,964	545,873	268,786
10	Idaho	60	65	4,505	22	30	227	4,226	12,710,864	123,597	545,273	7,420,255	124,127	3,486,590	166,718	844,304
11	Illinois	533	502	56,392	303	349	2,362	53,378	100,933,397	1,843,131	4,898,820	73,777,064	272,685	14,270,664	2,461,224	3,409,809
12	Indiana	399	452	18,279	295	173	1,069	16,742	34,446,044	866,517	2,206,493	23,375,698	113,735	5,144,408	860,559	1,878,634
13	Iowa	240	247	7,812	190	115	343	7,164	12,994,569	396,590	716,580	9,317,398	7,641	1,699,507	314,449	542,404
14	Kansas	261	292	7,938	249	75	317	7,297	14,693,926	205,681	761,684	8,465,391	214,240	3,553,429	360,508	1,072,993
15	Kentucky	551	629	61,241	210	480	2,733	57,818	85,548,856	1,574,537	5,014,568	62,788,640	71,736	12,094,202	909,957	3,095,216
16	Maine	52	56	1,284	29	21	64	1,170	2,218,699	77,527	135,166	1,576,518	8,160	267,117	52,538	101,673
17	Maryland	112	130	4,978	45	84	271	4,578	8,655,736	307,161	543,912	4,815,794	397	2,376,924	276,138	335,410
18	Massachusetts	95	104	2,740	46	66	209	2,419	6,578,913	328,037	493,336	4,046,326	20,371	1,111,884	227,440	351,519
19	Michigan	158	191	22,287	24	104	1,330	20,829	55,501,580	642,478	3,138,260	28,806,325	79,057	15,779,147	4,428,842	2,627,471
20	Minnesota	146	172	12,918	27	69	1,209	11,613	37,000,341	342,467	2,883,313	18,180,303	1,480,256	9,454,474	2,785,705	1,873,823
21	Missouri	408	439	14,689	241	181	849	13,418	27,879,482	524,903	1,795,455	16,326,962	136,808	5,836,202	843,371	2,415,781
22	Montana	145	173	15,565	86	48	804	14,627	39,806,811	174,597	2,983,930	25,807,052	272,966	8,144,794	494,086	1,929,386
23	Nebraska	24	48	351	4	12	56	279	1,068,213	70,900	125,232	481,368	5,490	179,096	35,613	170,514
24	Nevada	104	107	5,281	55	55	455	4,716	16,824,017	273,980	1,123,117	8,142,634	346,545	5,274,219	1,071,350	592,172
25	New Hampshire	36	39	643	19	14	41	569	1,176,817	31,055	79,693	772,709	6,288	190,009	46,398	50,665
26	New Jersey	117	138	4,222	26	110	456	3,630	10,128,201	396,727	1,080,595	5,400,075	143,483	1,959,779	585,428	562,114
27	New Mexico	69	89	7,522	35	17	484	6,986	17,610,118	62,645	1,224,141	10,118,023	116,882	4,389,541	1,390,622	308,264
28	New York	261	298	7,213	80	166	526	6,432	20,163,416	1,273,458	1,263,585	10,029,766	106,326	5,076,105	917,527	1,496,649
29	North Carolina	118	129	2,843	77	45	155	2,566	4,368,281	186,187	291,179	2,303,570	678	1,150,887	223,206	212,574
30	Ohio	801	864	28,846	593	260	992	27,001	45,116,584	1,085,804	2,105,262	31,350,700	169,453	6,970,667	1,056,825	2,377,873
31	Oklahoma	217	281	11,019	66	124	550	10,279	23,429,418	740,910	1,193,664	13,616,561	255,089	5,572,289	620,879	1,430,626
32	Oregon	62	65	905	29	22	78	776	2,187,946	79,140	154,632	1,172,421	95,019	420,572	166,747	99,415
33	Pennsylvania	1,814	[2] 2,196	290,787	913	913	12,469	276,492	551,430,423	3,626,953	30,149,293	403,957,768	7,488,808	77,599,969	11,502,611	17,105,021
34	Rhode Island	14	14	301	11	12	22	256	674,248	33,530	36,635	384,865	2,000	143,735	37,161	36,322
35	South Carolina	33	35	1,423	7	27	91	1,298	1,951,623	107,160	190,918	929,506	7,956	392,920	145,060	178,103
36	Tennessee	160	189	12,848	51	119	742	11,936	17,410,137	503,680	1,434,464	10,915,521	143,197	2,819,435	608,341	985,499
37	Texas	133	159	7,379	46	127	662	6,544	20,679,883	576,001	1,620,106	7,609,258	50,835	5,475,452	4,978,870	369,361
38	Utah	120	135	13,098	29	87	806	12,176	43,674,950	544,323	2,108,045	21,264,248	2,051,993	13,589,522	409,921	3,706,898
39	Vermont	105	129	3,466	74	54	184	3,154	6,294,280	312,796	470,632	4,153,100	27,974	712,097	133,004	484,677
40	Virginia	190	208	16,091	59	118	652	15,262	22,276,996	452,472	1,413,581	14,837,569	17,089	3,692,399	302,227	1,561,659
41	Washington	103	121	4,110	33	50	209	3,818	8,841,422	167,420	467,293	6,068,667	21,551	1,364,919	360,413	391,159
42	West Virginia	740	891	106,747	169	581	4,575	101,422	176,176,036	2,294,799	10,135,959	128,906,460	294,306	25,208,830	923,310	8,412,372
43	Wisconsin	147	161	3,333	42	101	283	2,907	7,827,897	333,941	563,187	4,231,451	57,596	1,656,004	267,736	717,982
44	Wyoming	56	73	5,552	24	21	225	5,282	13,216,266	86,623	544,020	9,663,759	32,521	2,114,512	420,379	354,452
	Groups of States															
45	Delaware, 4 enterprises; District of Columbia, 1.	5	6	119	------	5	10	104	195,348	15,061	18,270	119,704	----------	22,403	9,040	10,870
46	Louisiana, 18 enterprises; Mississippi, 13.	31	34	927	2	42	82	801	2,116,089	153,700	185,082	769,863	5,188	515,425	205,417	281,414
47	North Dakota, 110 enterprises; South Dakota, 38.	154	154	2,808	126	21	169	2,552	6,571,544	84,570	486,025	3,892,504	8,746	1,764,464	238,441	96,794

[1] See GENERAL EXPLANATIONS—The Enterprise.
[2] See GENERAL EXPLANATIONS—Milling and Manufacturing.
[3] Not including data for salaried officers and employees of "Central Administrative" offices. (See Table 17.)
[4] See GENERAL EXPLANATIONS—Persons Engaged.
[5] See GENERAL EXPLANATIONS—Expenses.

UNITED STATES, BY STATES: 1929

Expenditures for development (included in principal expenses; thousands)	Value of products [6]	Machinery and other equipment purchased during the year (total cost)	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY: Aggregate horsepower	Prime movers: Total horsepower of prime movers	Steam engines: Number	Steam engines: Horsepower	Steam turbines: Number	Steam turbines: Horsepower	Internal-combustion engines: Number	Internal-combustion engines: Horsepower	Water wheels and water turbines: Number	Water wheels and water turbines: Horsepower	Electric motors driven by purchased energy: Number	Electric motors driven by purchased energy: Horsepower	Electric motors driven by energy generated by enterprises reporting: Number	Electric motors driven by energy generated by enterprises reporting: Horsepower	Electric generators: Number	Electric generators: Kilowatts	
Dollars	*Dollars*	*Dollars*																	
76,488	2,392,831,178	84,508,448	7,514,843	[7] 2,743,025	14,144	1,737,858	794	684,878	4,421	274,208	125	46,081	123,811	4,771,818	34,024	1,352,981	1,609	[8] 736,489	1
1,656	54,665,658	1,792,511	270,615	54,934	284	36,595	9	14,450	51	3,889	------	------	4,459	215,681	177	12,125	28	16,339	2
9,836	116,477,536	7,247,585	202,428	154,894	97	30,373	17	104,943	171	19,578	------	------	1,320	47,534	2,840	167,436	76	100,153	3
220	11,367,754	618,958	37,624	14,399	131	10,752	------	------	47	3,635	2	12	881	23,225	------	------	6	1,095	4
1,922	38,645,889	1,787,736	155,879	26,306	146	9,839	1	20	297	15,066	12	1,381	3,901	129,573	56	965	12	1,226	5
3,311	41,530,446	1,796,385	118,330	32,054	211	21,336	16	7,755	42	1,929	10	1,034	2,793	86,276	589	18,450	66	11,286	6
44	4,193,403	252,112	13,622	3,816	60	2,995	------	------	18	821	------	------	240	9,806	14	211	2	135	7
244	14,014,933	765,513	110,291	51,864	86	7,530	21	38,008	87	6,246	1	80	979	58,427	443	32,126	22	22,958	8
171	9,611,219	187,744	35,515	18,292	107	6,823	7	8,558	45	2,511	2	400	498	17,223	144	2,875	10	2,129	9
1,371	20,745,615	893,396	67,295	9,079	6	852	2	2,000	23	1,789	17	4,438	1,702	58,216	79	1,390	12	2,036	10
2,789	132,948,261	8,239,736	439,462	184,273	1,046	141,981	36	31,981	174	10,311	------	------	7,169	255,189	3,175	78,497	172	45,454	11
366	48,992,786	1,595,989	188,735	60,982	584	55,981	8	1,130	83	3,871	------	------	3,909	127,753	327	10,260	45	8,125	12
336	16,910,280	423,691	54,902	17,675	388	15,019	------	------	63	2,656	------	------	1,152	37,227	42	1,658	10	1,190	13
612	22,403,509	980,380	76,888	29,561	224	16,569	3	30	155	12,962	------	------	1,323	47,327	34	1,146	7	505	14
1,643	103,849,625	3,031,321	317,973	79,404	514	53,348	32	20,883	157	5,173	------	------	7,428	238,569	2,029	50,206	140	33,364	15
67	3,468,040	54,562	12,076	3,176	31	2,328	1	275	20	573	------	------	203	8,900	2	266	2	200	16
115	11,122,195	457,887	34,006	12,960	146	11,114	4	150	36	1,656	1	40	692	21,046	104	2,256	10	1,500	17
137	10,387,014	690,965	33,417	12,992	163	6,820	2	200	99	5,787	1	185	554	20,425	26	765	2	360	18
5,039	95,261,833	3,244,270	395,723	243,270	465	148,071	34	74,115	119	6,584	14	13,900	2,885	152,453	1,691	98,450	66	66,833	19
5,390	132,400,530	2,610,345	208,741	110,805	617	104,776	21	2,407	66	3,287	3	335	2,949	97,936	329	3,804	12	4,216	20
1,339	47,276,257	1,677,139	165,368	57,706	405	29,211	7	17,336	186	11,159	------	------	2,894	107,602	400	18,232	30	20,686	21
4,289	65,182,707	1,333,952	204,099	18,832	100	14,416	2	800	33	2,961	2	655	2,383	185,267	68	3,435	4	1,046	22
------	2,139,767	139,542	10,732	2,280	18	991	------	------	24	1,289	------	------	154	8,452	------	------	------	------	23
3,390	26,658,631	2,042,221	73,395	44,013	32	5,818	5	24,065	118	13,430	3	700	846	29,382	569	25,825	25	26,989	24
9	1,502,387	47,402	5,455	2,259	30	1,879	------	------	15	310	2	70	96	3,196	7	159	2	90	25
105	15,789,610	822,577	68,584	38,138	140	14,404	5	14,252	169	9,482	------	------	704	30,446	367	9,942	10	11,312	26
2,109	27,141,764	1,196,013	90,961	73,007	80	35,908	62	31,835	56	5,174	3	90	487	17,954	1,215	44,392	43	33,054	27
618	36,045,204	1,709,964	145,995	50,113	337	38,523	5	179	188	8,416	10	2,995	2,416	95,882	105	4,091	19	7,247	28
198	5,981,239	126,135	22,348	10,544	156	7,949	------	------	45	1,965	6	630	334	11,804	91	1,500	14	1,424	29
321	60,095,705	2,201,751	228,121	83,510	658	66,708	4	4,420	196	12,382	------	------	4,137	144,611	540	16,691	77	11,167	30
468	33,139,080	950,411	106,345	37,507	151	13,900	------	------	196	23,607	------	------	1,889	68,838	203	4,931	9	5,475	31
233	3,512,125	144,863	12,707	5,069	51	2,480	2	100	50	2,289	4	200	244	7,638	21	151	5	149	32
13,518	694,975,146	15,801,390	2,189,218	873,046	4,856	633,489	335	212,364	529	26,748	7	445	31,377	1,316,172	13,080	566,986	373	198,089	33
36	809,381	16,751	4,237	1,322	14	525	9	450	14	347	------	------	79	2,915	------	------	------	------	34
------	3,092,967	152,768	18,470	4,059	41	2,407	------	------	30	1,652	------	------	317	14,411	------	------	1	3	35
711	24,186,449	1,101,964	86,257	30,434	240	21,946	29	5,015	61	3,473	------	------	1,526	55,823	69	2,917	8	2,255	36
545	49,758,382	2,531,838	82,914	62,278	512	29,166	54	16,509	279	16,603	------	------	641	20,636	556	17,632	43	10,778	37
7,742	83,098,029	4,063,429	180,321	5,609	38	4,205	------	------	43	1,364	2	40	6,016	174,712	4	280	8	689	38
845	10,275,907	349,213	39,906	4,995	71	4,524	6	170	9	195	2	106	1,351	34,911	3	45	2	97	39
343	29,540,524	1,143,027	111,921	15,435	162	12,350	2	400	54	2,185	1	500	2,562	96,486	101	3,064	15	1,647	40
380	13,366,919	489,583	47,702	10,351	60	6,311	------	------	65	3,405	7	635	988	37,351	20	311	10	818	41
2,678	223,930,754	8,271,684	670,544	107,923	398	67,494	38	32,119	66	3,810	3	4,500	14,810	562,621	2,787	91,914	169	54,032	42
490	13,163,414	685,133	67,240	17,669	73	8,297	1	4,189	113	4,973	1	210	1,359	49,571	23	522	6	318	43
279	18,817,045	518,154	50,855	28,144	52	17,152	12	10,170	21	822	------	------	643	22,711	1,287	40,948	27	17,870	44
------	268,100	------	901	311	9	261	------	------	4	50	------	------	7	590	------	------	------	------	45
1	3,139,792	209,442	20,756	10,123	39	5,101	------	------	48	5,022	------	------	132	10,633	------	------	------	------	46
573	10,827,367	111,016	35,969	27,612	106	8,741	2	3,600	47	2,771	9	12,500	292	8,357	407	16,136	15	12,102	47

[6] See GENERAL EXPLANATIONS—Value of Products.
[7] Includes 203,825 horsepower reported for inactive prime movers.
[8] Includes 112,884 kilowatts reported for inactive generators.
[9] Includes 20 anthracite culm washeries and 42 river dredges.

TABLE 32.—NUMBER OF ENTERPRISES IN EACH STATE, BY INDUSTRIES: 1929

INDUSTRY	United States	Alabama	Arizona	Arkansas	California	Colorado	Connecticut	Delaware	Dist. Columbia	Florida	Georgia	Idaho	Illinois	Indiana	Iowa	Kansas	Kentucky	Louisiana	Maine	Maryland	Massachusetts	Michigan	Minnesota	Mississippi	Missouri
Producing enterprises, total	10,135	222	133	128	367	314	52	4	1	66	79	60	533	399	240	261	551	18	52	112	95	158	146	13	408
Abrasive materials, total	30			3	3									2		3						1	2		
Emery	2																								
Garnet and industrial sapphires and diamonds	6			2																					
Grinding pebbles and tube-mill lining	2																						2		
Grindstones, oilstones, whetstones, scythe-stones, and rubbing stones	13			1										2								1			
Pumice and volcanic ash (pumicite)	7				3											3									
Asbestos	11		7								1									1					
Asphalt and bituminous rock	21	1			2												5								1
Barite	42				2						5														30
Basalt	137			2	16		19					5							1	7	14	2	2		
Clay	190	5			12	9		2		4	9		10	5		2	9			1		4		1	21
Coal, anthracite (Pa.)	198																								
Coal, bituminous	4,976	157	4	83		173					1		384	222	167	150	434			52		7			186
Copper	143		63		10	3						4										9			
Feldspar	51				4		3												11	2			1		
Fluorspar	28					3							6				10								
Fullers' and filtering earths	22		1		4	1				3	2		2								1				
Gold, lode	174		13		58	44						7													
Gold, placer	32		1		22	1						2													
Granite	406		1		24	4	12	2	1		28	2							30	6	38	1	25		4
Gypsum	60		1		2	3									8	2						6			
Iron ore	180	13				3					3											49	75		6
Lead	155		13	2	4	18						28				7									13
Limestone	1,167	21	4	6	23	14	4			37	10		53	91	25	31	57	1	4	20	7	14	10		73
Magnesite	5				4																				
Manganese	19	1	1	3	1						1	1													
Marble	70	3	1	3	4	2	2				5									1	4	1	1		6
Mercury	40		3		18																				
Mica [1]	24					1	1												1						
Millstones and pulpstones	14																								
Minor metals, total	26	3	1	4	2	8					2														
Bauxite	9	3		4							2														
Molybdenum	2					1																			
Titanium	1																								
Tungsten	12				2	6																			
Vanadium	2		1			1																			
Miscellaneous minerals, total	19	4			3						3														
Borates	2				2																				
Cyanite	2				1																				
Graphite	5	4																							
Lithium minerals [2]	4																								
Mineral pigments	4										3														
Tantalum	1																								
Vermiculite	1																								
Phosphate rock	26									11		2													
Sand, glass	25			1	1								2							1		1			2
Sand, molding	90				5								6	6	1		4					5			1
Sand and gravel	957	10	4	16	68	3	10			9	5	1	61	58	38	27	11	17	2	10	22	57	25	12	32
Sandstone	145	1	1	3	14	3	1					1				2	2				2		3		
Silica, total	70	2	1	1	9	1							5			1				2	2				3
Diatomaceous earth	10		1		4																				
Ganister	18	2											1												
Mica schist, siliceous	3				1																				
Quartz	9				2															1	2				
Quartzite	2																								
Silica rock	6				1	1							1			1				1					
Silica sand	14				1																				1
Tripoli	8			1									3												2
Silver	67		11		3	11						1													
Slate	120				2						1								2	2					
Stone, miscellaneous	204	1	1	1	40					2			4	15	1	6	13		1	5	5	1	2		19
Sulphur and pyrites	9				2																				
Talc and soapstone	25				5						3									2					
Zinc	148		1			9						6				30									11

[1] Including mica schist, valuable principally for mica.

[2] Amblygonite, lepidolite, spodumene.

TABLE 32.—NUMBER OF ENTERPRISES IN EACH STATE, BY INDUSTRIES: 1929—Continued

INDUSTRY	STATES																								
	Montana	Nebraska	Nevada	New Hampshire	New Jersey	New Mexico	New York	North Carolina	North Dakota	Ohio	Oklahoma	Oregon	Pennsylvania	Rhode Island	South Carolina	South Dakota	Tennessee	Texas	Utah	Vermont	Virginia	Washington	West Virginia	Wisconsin	Wyoming
Producing enterprises, total	145	24	104	36	117	69	261	118	116	801	217	62	1,814	14	33	38	160	133	120	105	190	103	740	147	56
Abrasive materials, total	1	1		1			4			6			1							1			1		
Emery							2																		
Garnet and industrial sapphires and diamonds	1			1			2																		
Grinding pebbles and tube-mill lining																									
Grindstones, oilstones, whetstones, scythe-stones, and rubbing stones										6			1							1			1		
Pumice and volcanic ash (pumicite)		1																							
Asbestos								1												1					
Asphalt and bituminous rock											1							3	8						
Barite															1		2				1			1	
Basalt					26		2					10	20	1				1			1	8			
Clay			2		17		5	2		19	1		31		9		5	1	1	2	2		2	1	5
Coal, anthracite (Pa.)													198												
Coal, bituminous	66					28		1	115	536	97	3	1,151			8	65	22	36		75	32	086		35
Copper	7		13			14		2				2					2	2	9	1		1			1
Feldspar				6			3	14								3					4				
Fluorspar			2			1																			
Fuller's and filtering earths			2															5	1						
Gold, lode	9		31					2				3				2			3			2			
Gold, placer						1						4										1			
Granite	5			18	1		13	67			7	2	24	9	17	7		5	2	24	5	3		18	1
Gypsum	2		5				11			3	4					1		5	3		2				2
Iron ore	1		2		4	2	5	1					4				4		3			1		3	1
Lead	16		9			5					6							1	29		1	2		1	
Limestone	7	5	2		5	1	69	3		110	18	4	201	1		3	29	36	8	4	63	14	19	53	7
Magnesite																						1			
Manganese	4					1											1				5				
Marble	1				1		9	1				1					13		1	9		1			
Mercury			10									4						3				2			
Mica [1]				6		2		10								1		1			1				
Millstones and pulpstones							2	1		2													9		
Minor metals, total	1		2			1															1	1			
Bauxite																									
Molybdenum						1																			
Titanium																					1				
Tungsten	1		2																			1			
Vanadium																									
Miscellaneous minerals, total	2					1							1			4					1				
Borates																									
Cyanite																					1				
Graphite	1																								
Lithium minerals [2]						1										3									
Mineral pigments													1												
Tantalum																1									
Vermiculite	1																								
Phosphate rock																	12								1
Sand, glass			2		3					2	2		2								3		3		
Sand, molding					16		10			22			12											2	
Sand and gravel	4	18	1	4	33	1	62	6	1	73	21	18	46	2	6	3	20	41	3	1	8	21	17	48	1
Sandstone					2	1	30			14	1	2	41			6	1				3	2	2	5	2
Silica, total	1		2		5		2	1		3	1	2	18				1	1			1	1		4	
Diatomaceous earth			1				1					2										1			
Ganister													12											3	
Mica schist, siliceous													2												
Quartz			1				1	1																1	
Quartzite	1																				1				
Silica rock													1												
Silica sand					5					3			3					1							
Tripoli											1						1								
Silver	12		14			1												1	11			2			
Slate					1		15						33							58	6				
Stone, miscellaneous	1		1	1	2	1	15	3		11	1	7	30	1			1	1			2	7	1	1	
Sulphur and pyrites			1															4	1		1				
Talc and soapstone							3	3					1							4	3			1	
Zinc	5		3		1	8	1				57						4		1		1	1		9	

[1] Including mica schist, valuable principally for mica.
[2] Amblygonite, lepidolite, spodumene.

TABLE 32.—NUMBER OF ENTERPRISES IN EACH STATE, BY INDUSTRIES: 1929—Continued

INDUSTRY	United States	Alabama	Arizona	Arkansas	California	Colorado	Connecticut	Delaware	Dist. Columbia	Florida	Georgia	Idaho	Illinois	Indiana	Iowa	Kansas	Kentucky	Louisiana	Maine	Maryland	Massachusetts	Michigan	Minnesota	Mississippi	Missouri
		STATES																							
Nonproducing enterprises, total	861	2	103		166	117				1	3	93	3		1	1	3					3	4		8
Abrasive materials	1																								
Asbestos	1																								
Clay	3				1							1													
Coal, bituminous	19											1	3		1		1								2
Feldspar	3																								
Fluorspar	4																2								
Gold, silver, copper, lead, or zinc	783		100		156	111					2	90				1						2			5
Granite	2					1																	1		
Gypsum	1																								
Iron ore	6	1				1																	3		
Limestone	1									1															
Manganese	3		1			1																			
Marble	6	1			1	1					1											1			
Mercury	13				6							1													
Mica [1]	1																								
Minor metals, total	10		2		1	2																			
Tungsten	10		2		1	2																			
Sandstone	1																								
Silica	2				1																				1
Sulphur	1																								

INDUSTRY	Montana	Nebraska	Nevada	New Hampshire	New Jersey	New Mexico	New York	North Carolina	North Dakota	Ohio	Oklahoma	Oregon	Pennsylvania	Rhode Island	South Carolina	South Dakota	Tennessee	Texas	Utah	Vermont	Virginia	Washington	West Virginia	Wisconsin	Wyoming
	STATES																								
Nonproducing enterprises, total	60		77			24	2	5		1	3	50	5			3	3	1	66		3	38	1	1	10
Abrasive materials			1																						
Asbestos	1																								
Clay													1												
Coal, bituminous	1									1			4						1			3	1		
Feldspar							1	2																	
Fluorspar						1													1						
Gold, silver, copper, lead, or zinc	58		69			23	1	1			3	48				3	1		63		2	34		1	9
Granite																									1
Gypsum																									
Iron ore																						1			
Limestone																									
Manganese																					1				
Marble																	1								
Mercury			4									2													
Mica [1]								1																	
Minor metals, total			3					1											1						
Tungsten			3					1											1						
Sandstone																	1								
Silica																		1							
Sulphur																									

[1] Including mica schist, valuable principally for mica.

CONSUMPTION OF FUELS AND ELECTRIC ENERGY IN MINING AND QUARRYING INDUSTRIES

INTRODUCTION

This report presents the results of the 1929 census of mines and quarries relating to the consumption of principal fuels and electric energy by producing enterprises in the mineral-producing industries. It gives comparative statistics for selected States and industries for 1929 and 1919, and statistics for fuel and electric energy consumption by counties for 1929.

The statistics do not include the following: (1) Data for fuel consumed by petroleum and natural-gas enterprises; (2) data for individual enterprises reporting products valued at less than $20,000, the total of which amounted to less than one per cent of that for the mineral industries as a whole; and (3) data for smelting and refining industries, which are included in the statistics of the census of manufactures. (See GENERAL EXPLANATIONS—Scope of the Census, p. 3.)

Comparative statistics for the consumption of fuels and electric energy for selected mineral industries are given for 1929 and 1919 in Table 1. Marked decreases are shown for the consumption of anthracite and bituminous coal, amounting to 40 per cent and 50 per cent, respectively, and are accounted for principally in the coal-mining industries themselves.

Data for kilowatt-hours of electric energy consumed in the mineral industries were not collected for 1919, and therefore direct comparisons with the statistics for 1929 can not be made. However, a comparison of the cost of electric energy purchased in 1929 and in 1919 will throw some light on the increase in the consumption of this power item, but in making such a comparison the changes in prices per kilowatt-hour must be taken into account. In practically every case the table shows an increase in the expenditure for purchased energy where decreases are shown for fuel consumption.

The large increase in the consumption of natural gas occurred in the sulphur industry and at the expense of fuel-oil consumption.

Statistics for the consumption of fuel and electric energy, for selected States, for 1929 and 1919 are shown in Table 2 and those for selected counties for 1929 in Table 3. The major portion of the consumption of fuels in the mineral industries was confined to relatively few counties. In fact, 39 counties accounted for 4,456,033 tons, or more than 50 per cent of the bituminous coal consumed. The anthracite industry itself accounted for practically 97 per cent of the anthracite consumed in the mining industries, only insignificant amounts being used in other industries. Four counties in Arizona and one in Florida reported 108,976,326 gallons of fuel oil, or more than 64 per cent of the total fuel oils used. The consumption of gasoline was relatively small and distributed among many counties. Twenty-five counties, including 11 in Pennsylvania and four in West Virginia, each reported the consumption of over 50,000,000 kilowatt-hours of *purchased* electric energy, and together accounted for approximately one-half of the total consumption of such energy. Similarly, nearly three-fourths of the total electric energy *generated* within the industries was reported from 21 counties.

TABLE 1.—CONSUMPTION OF FUELS AND ELECTRIC ENERGY, FOR SELECTED INDUSTRIES: 1929 AND 1919

[The tables for 1929 are shown as compiled for all industries canvassed for that year, and also as revised (in *italics*) for comparative purposes by the omission of data for the sand and gravel, glass-sand, and molding-sand industries, which industries were not canvassed for 1919. Likewise, the totals for 1919 have been revised for comparative purposes by the omission of data for the petroleum and natural-gas industries, which were not canvassed for 1929.]

INDUSTRY AND YEAR	COAL		Coke (tons, 2,000 pounds)	Fuel oils, including crude oil and gas oil (gallons)	Gasoline and kerosene (gallons)	Natural gas [1] (M cu. ft.)	ELECTRIC ENERGY		Total cost of fuel	Cost of purchased electric energy
	Anthracite (tons, 2,240 pounds)	Bituminous (tons, 2,000 pounds)					Purchased (kilowatt-hours)	Generated by the enterprises reporting (kilowatt-hours)		
All industries:										
1929	5,223,195	8,825,007	136,896	169,985,047	16,565,785	25,536,328	5,382,178,325	2,080,612,116	$49,145,531	$71,769,087
1929	*5,219,591*	*8,124,440*	*136,563*	*161,798,501*	*10,353,281*	*25,396,000*	*5,123,332,915*	*2,072,619,288*	*44,693,267*	*66,416,383*
1919	8,697,365	16,208,535	53,795	152,830,986	4,113,438	2,817,454	(2)	(2)	74,081,877	27,220,977
Coal:										
Anthracite—										
1929	5,044,989	28,833		36,930	92,033		470,248,027	478,428,569	7,419,721	6,508,527
1919	8,548,201	4,096		28,182	58,002		(2)	(2)	11,406,117	1,899,835
Bituminous—										
1929		4,524,467	30,301	711,941	754,974	303,000	2,044,348,813	464,540,925	7,529,305	30,739,381
1919		11,124,904	14,254	135,870	796,446	865,907	(2)	(2)	25,896,660	11,280,509
Copper:										
1929	134	1,006,321	7,859	89,613,817	421,317		753,119,336	734,614,117	9,210,052	6,027,234
1919	14,889	1,364,172	9,744	55,528,200	291,144	33,456	(2)	(2)	11,310,485	3,555,530
Iron ore:										
1929	52,448	804,815	85,953	2,300,241	505,898	2,227	375,636,018	99,735,238	5,332,103	4,607,488
1919	69,753	1,499,612	24,070	159,894	149,100	89,354	(2)	(2)	8,700,358	1,594,231
Lead and zinc:										
1929	64,549	177,918	397	2,991,931	370,103	916,527	644,651,048	105,464,108	1,536,005	6,102,428
1919	33,526	503,278	272	3,045,714	262,902	1,390,998	(2)	(2)	2,783,249	2,691,906
Limestone:										
1929	44,006	805,238	4,574	6,178,983	3,616,524	117,742	294,930,770	37,056,618	3,606,670	4,795,034
1919	5,409	673,989	937	1,395,282	478,674	5,887	(2)	(2)	2,897,432	1,278,958
Phosphate rock:										
1929		71,979	2	24,158,459	102,294		109,902,672	50,792,426	891,358	1,092,064
1919	28	121,273	146	27,605,928	456,582		(2)	(2)	1,739,833	79,408
Sand and gravel:										
1929	3,804	601,588	133	16,911,461	5,811,573	134,773	237,679,291	7,594,828	3,989,503	4,921,398
Sulphur and pyrites:										
1929		328		5,108,863	19,894	23,072,773	2,735,292	15,453,523	4,433,427	40,586
1919		31,969	20	45,684,912	47,376		(2)	(2)	2,927,233	58,802
Other industries:										
1929	13,205	803,520	7,677	21,972,421	4,870,175	989,286	443,927,058	86,931,764	5,197,387	6,934,947
1929	*13,205*	*704,550*	*7,477*	*20,697,136*	*4,469,244*	*983,821*	*422,760,939*	*86,535,764*	*4,734,626*	*6,503,641*
1919	25,559	885,242	4,352	19,247,004	1,573,152	432,752	(2)	(2)	6,420,510	4,890,738

[1] Includes, for 1929, 111,314 M cubic feet of manufactured gas, and for 1919, 89,354 M cubic feet.

[2] Not reported.

TABLE 2.—CONSUMPTION OF FUELS AND ELECTRIC ENERGY, FOR SELECTED STATES: 1929 AND 1919

The totals for 1929 are shown as compiled for all industries canvassed for that year, and also as revised (in italics) for comparative purposes by the omission of data for the sand and gravel, glass-sand, and molding-sand industries, which industries were not canvassed for 1919. Likewise, the totals for 1919 have been revised for comparative purposes by the omission of data for the petroleum and natural-gas industries, which were not canvassed for 1929]

STATE AND YEAR	COAL		Coke (tons, 2,000 pounds)	Fuel oils, including crude oil and gas oil (gallons)	Gasoline and kerosene (gallons)	Natural gas [1] (M cu. ft.)	ELECTRIC ENERGY		Total cost of fuel	Cost of purchased electric energy
	Anthracite (tons, 2,240 pounds)	Bituminous (tons, 2,000 pounds)					Purchased (kilowatt-hours)	Generated by the enterprises reporting (kilowatt-hours)		
United States:										
1929	5,223,195	8,825,007	136,896	160,985,047	16,565,785	25,536,328	5,382,178,325	2,080,612,116	$49,145,531	$71,769,087
1929	*5,219,301*	*8,124,449*	*136,563*	*151,798,301*	*10,353,281*	*25,396,090*	*5,123,332,915*	*2,072,619,288*	*44,693,267*	*66,416,383*
1919	8,697,365	16,208,535	53,795	152,830,986	4,113,438	2,817,454	(2)	(2)	74,081,877	27,229,977
Alabama:										
1929	----------	295,848	18,430	160,298	96,741	----------	234,764,738	49,141,760	769,172	2,118,646
1929	----------	*278,304*	*18,430*	*96,245*	*89,920*	----------	*233,559,338*	*49,141,760*	*684,835*	*2,097,966*
1919	----------	761,268	31,723	17,220	42,126	----------	(2)	(2)	2,431,350	648,933
Arizona:										
1929	77	4,124	357	87,523,804	334,583	----------	132,243,548	451,924,097	4,145,087	1,560,776
1929	*77*	*4,124*	*357*	*87,523,804*	*333,513*	----------	*131,644,076*	*451,924,097*	*4,141,978*	*1,542,777*
1919	----------	84,938	174	53,725,266	281,652	----------	(2)	(2)	4,132,257	1,245,268
California:										
1929	7	2,810	----------	13,101,607	1,846,025	396,760	184,571,796	2,595,460	768,862	2,048,962
1929	*7*	*2,816*	----------	*9,952,133*	*1,236,094*	*393,654*	*160,670,069*	*2,457,460*	*599,583*	*1,647,937*
1919	125	1,027	1,205	5,887,560	414,078	395	(2)	(2)	493,427	1,959,468
Colorado:										
1929	----------	289,954	63	132,867	100,801	4,014	93,206,726	16,587,400	717,083	1,659,708
1929	----------	*289,954*	*63*	*132,867*	*79,223*	*4,014*	*92,131,817*	*16,587,400*	*715,183*	*1,629,428*
1919	112	409,278	110	192,696	70,728	6,820	(2)	(2)	1,253,016	1,453,464
Florida:										
1929	----------	36,386	----------	26,361,007	412,343	----------	106,917,257	52,209,426	963,386	1,146,590
1929	----------	*33,136*	----------	*26,308,364*	*257,229*	----------	*105,870,707*	*51,992,426*	*913,109*	*1,117,616*
1919	100	32,688	146	33,072,102	487,620	----------	(2)	(2)	1,613,472	74,224
Illinois:										
1929	1,386	1,160,205	----------	725,071	771,807	----------	184,205,217	41,556,584	2,461,224	3,409,809
1929	*1,375*	*1,037,840*	----------	*478,001*	*468,307*	----------	*161,370,598*	*41,556,584*	*1,920,803*	*2,971,951*
1919	----------	2,089,270	400	31,878	113,022	----------	(2)	(2)	4,658,443	971,387
Indiana:										
1929	----------	458,842	----------	102,373	310,836	----------	103,569,585	3,626,506	860,559	1,878,634
1929	----------	*421,688*	----------	*41,656*	*233,544*	----------	*80,413,895*	*3,561,506*	*723,067*	*1,469,101*
1919	1,366	772,354	10	----------	57,018	----------	(2)	(2)	1,675,794	271,368
Kentucky:										
1929	----------	541,146	750	223,821	325,335	102,345	175,731,000	55,829,180	909,957	3,095,216
1929	----------	*514,214*	*750*	*140,211*	*225,335*	*102,345*	*174,992,800*	*55,529,180*	*812,890*	*3,082,436*
1919	----------	715,979	----------	21,378	110,544	----------	(2)	(2)	1,704,410	584,928
Michigan:										
1929	845	1,002,107	2,904	1,040,380	779,500	----------	174,003,915	222,403,092	4,428,842	2,627,471
1929	*210*	*958,201*	*2,858*	*270,747*	*327,843*	----------	*151,255,723*	*222,131,172*	*4,085,483*	*2,184,001*
1919	18,891	1,371,023	4,013	118,692	65,940	33,781	(2)	(2)	7,455,207	989,490
Minnesota:										
1929	115	469,807	28,280	464,656	435,106	----------	107,435,531	4,420,538	2,785,705	1,873,823
1929	*106*	*461,740*	*28,280*	*449,408*	*377,507*	----------	*102,549,781*	*4,365,538*	*2,725,530*	*1,774,121*
1919	3,248	726,392	758	51,660	111,972	----------	(2)	(2)	4,155,158	526,794
Missouri:										
1929	7	245,036	96	1,063,431	415,002	10,844	205,834,623	71,992,038	843,371	2,415,781
1929	*7*	*206,741*	*96*	*770,546*	*282,968*	*4,764*	*201,842,958*	*71,984,038*	*677,556*	*2,322,348*
1919	----------	488,858	----------	594,762	101,850	21,898	(2)	(2)	1,743,747	290,666
Montana:										
1929	110	138,104	46	228,783	114,709	----------	317,574,705	3,515,260	494,086	1,929,386
1929	*110*	*137,818*	*46*	*222,219*	*78,735*	----------	*316,169,554*	*3,515,260*	*482,004*	*1,912,430*
1919	----------	325,540	4,874	39,942	61,278	----------	(2)	(2)	1,252,638	1,712,301
New York:										
1929	12,465	128,517	982	1,242,029	1,260,119	597	98,349,949	7,083,980	917,527	1,496,649
1929	*12,458*	*74,919*	*960*	*301,860*	*740,478*	*33*	*32,614,237*	*6,783,980*	*552,214*	*1,128,296*
1919	52,356	81,609	1,123	18,060	45,486	----------	(2)	(2)	775,551	435,218
Ohio:										
1929	389	380,609	465	927,533	850,871	20,163	125,155,527	8,172,100	1,056,825	2,377,873
1929	*85*	*314,724*	*265*	*653,253*	*626,557*	*14,100*	*100,209,472*	*7,717,100*	*796,253*	*1,893,783*
1919	100	855,352	788	10,710	177,072	3,944	(2)	(2)	2,101,249	1,169,925
Pennsylvania:										
1929	5,128,919	1,307,243	22,469	2,329,075	1,547,589	106,301	1,279,191,466	600,580,823	11,502,611	17,105,021
1929	*5,128,903*	*1,231,680*	*22,469*	*1,446,740*	*1,298,575*	*104,937*	*1,260,044,709*	*597,602,723*	*11,180,294*	*16,732,167*
1919	8,561,045	3,568,072	219	69,480	476,868	559,150	(2)	(2)	20,252,183	5,867,171
Texas:										
1929	903	54,082	50	12,342,913	802,347	23,257,784	17,008,974	19,402,348	4,978,870	369,361
1929	*301*	*42,291*	*50*	*7,725,383*	*315,020*	*23,177,033*	*8,726,732*	*18,942,348*	*4,674,049*	*165,435*
1919	----------	58,654	5,170	17,102,862	157,920	110,913	(2)	(2)	1,720,911	40,798
Utah:										
1929	38	100,744	4,942	356,752	182,535	----------	468,894,024	661,404	409,921	3,706,898
1929	*38*	*100,744*	*4,942*	*356,752*	*182,535*	----------	*468,403,336*	*661,404*	*409,921*	*3,693,751*
1919	28	197,366	1,123	95,592	62,454	----------	(2)	(2)	834,480	1,184,030
West Virginia:										
1929	----------	567,467	----------	75,887	75,436	87,880	536,108,186	113,529,744	923,310	8,412,372
1929	----------	*529,012*	----------	*14,762*	*52,493*	*50,535*	*532,649,603*	*113,529,744*	*797,373*	*8,320,256*
1919	----------	1,150,491	----------	14,238	102,186	288,620	(2)	(2)	2,837,775	2,956,911
Other States:										
1929	77,934	1,641,970	57,062	21,582,760	5,904,050	1,549,640	837,351,558	354,780,376	9,208,533	12,536,111
1929	*76,714*	*1,484,413*	*56,997*	*14,907,341*	*3,162,355*	*1,544,675*	*758,213,520*	*352,635,568*	*7,796,142*	*10,730,583*
1919	59,994	2,517,476	1,959	41,775,888	1,172,724	1,791,933	(2)	(2)	12,990,809	4,847,033

[1] Includes, for 1929, 111,314 M cubic feet of manufactured gas, and for 1919, 89,354 M cubic feet.

[2] Not reported.

TABLE 3.—CONSUMPTION OF FUELS AND ELECTRIC ENERGY, BY STATES AND COUNTIES: 1929

STATE AND COUNTY	COAL		Coke (tons, 2,000 pounds)	Fuel oils, including crude oil and gas oil (gallons)	Gasoline and kerosene (gallons)	Natural gas (M cu. ft.)	ELECTRIC ENERGY	
	Anthracite (tons, 2,240 pounds)	Bituminous (tons, 2,000 pounds)					Purchased (kilowatt-hours)	Generated by the enterprises reporting (kilowatt-hours)
UNITED STATES	5,223,195	8,825,007	136,896	169,985,047	16,565,785	[1] 25,536,328	5,382,178,325	2,080,612,116
ALABAMA		295,848	18,430	160,298	96,741		234,764,738	49,141,760
Counties								
Barbour				19,147	2,256		5,000	
Bibb		19,057					10,858,640	2,803,200
Blount		3,979			32,287		276,000	
Colbert		2,365			15,621		90,000	
Elmore		212		59,300	1,200			
Etowah					3,980		220,000	
Fayette		240					1,042,500	
Franklin		784	10,343		6,040		910,271	
Jefferson		176,590	8,087	47,615	13,660		155,610,607	30,153,910
Marion							1,799,200	
Montgomery		6,867					1,076,000	
St. Clair		38,127			5,200		7,461,200	16,000,000
Shelby		9,692			350		11,269,031	
Talladega		1,030		1,970			4,583,802	
Tuscaloosa		17,392					7,714,017	
Walker		13,123			2,560		30,158,872	
Washington				18,588	10,453			184,650
Other counties		6,390		13,678	3,134		1,689,598	
ARIZONA	77	4,124	357	87,523,804	334,583		132,243,548	451,924,097
Counties								
Cochise	77	1,451	27	10,286,596	48,143		42,940,350	25,209,215
Gila		1,054	322	49,477,698	117,793		17,980,152	283,318,075
Greenlee		229		59,500	10		27,082,764	
Maricopa				126,180	11,070		548,277	1,084,200
Mohave				69,421	3,082		1,108,785	265,500
Pima		641	8	16,622,019	52,592		68,645	86,129,566
Pinal				10,530,105	52,732		15,879,249	52,178,381
Santa Cruz		150		143,727			46,335	1,582,680
Yavapai		590		208,558	49,161		26,423,991	2,156,480
Other counties							165,000	
ARKANSAS	3,650	30,374	10	1,513,263	214,104	542,180	15,104,637	
Counties								
Benton		50		48,000	2,000		124,473	
Crawford						132	338,000	
Cross		200		80,000			187,500	
Desha				360,000	1,200		48,000	
Franklin		4,128			20,000		945,512	
Independence	1,200				9,000		304,631	
Izard		1,100		59,000	1,250			
Jackson					15,370		200,000	
Johnson		4,410					1,781,985	
Lafayette		1,036		206,200	49,700			
Logan		2,200					2,160,437	
Ouachita	1,800				25,691		365,000	
Pike		60		125,033	8,000			
Pope		228					776,654	
Pulaski	150	3,472		595,196	26,560	59,100	1,288,796	
Saline		2,887	10	32,000	19,878	482,948	2,116,800	
Sebastian	500	6,184		5,344	5,455		3,742,156	
Yell					20,000		25,000	
Other counties		4,419		2,490	10,000		699,693	
CALIFORNIA	7	2,816		13,101,607	1,846,025	396,760	184,571,796	2,595,460
Counties								
Alameda				419,219	41,942		3,862,269	
Amador				135,838	52,398		9,925,415	
Butte				282,649	16,075		1,801,211	
Calaveras		170		7,937	30,133		4,085,142	
Contra Costa				101,808	8,924		1,083,823	
Del Norte				384,122	15,435		87,719	
Eldorado				68,412	15,733		856,740	
Fresno				205,198	2,000		799,628	138,000
Imperial				231,680	5,202		503,700	
Inyo		62		12,716	447,924		611,006	
Kern		168		301,909	66,729		3,982,974	
Lake				422,631	57,759		1,353,840	
Los Angeles				3,113,338	276,110	10,576	17,908,244	
Marin				159,000	4,710		1,485,291	
Mariposa		206		14,600	42,244		1,435,800	
Merced							1,600,000	
Mono		65		32,377	7,368		208,745	424,480
Monterey				113,030	400		360,878	
Napa				310,412	5,608		1,547,279	132,000
Nevada				6,600	9,969		12,752,689	

See footnotes at end of table.

TABLE 3.—CONSUMPTION OF FUELS AND ELECTRIC ENERGY, BY STATES AND COUNTIES: 1929—Continued

STATE AND COUNTY	COAL		Coke (tons, 2,000 pounds)	Fuel oils, including crude oil and gas oil (gallons)	Gasoline and kerosene (gallons)	Natural gas (M cu. ft.)	ELECTRIC ENERGY	
	Anthracite (tons, 2,240 pounds)	Bituminous (tons, 2,000 pounds)					Purchased (kilowatt-hours)	Generated by the enterprises reporting (kilowatt-hours)
CALIFORNIA—Continued.								
Counties—Continued								
Orange		236		79,810	61,696		579,850	
Plumas				399,923	17,586		23,707,800	685,750
Riverside				1,004,092	62,389	630	1,754,683	
Sacramento				192,260	380		34,057,063	
San Benito		219		944,813	48,125		3,399,833	
San Bernardino	2			354,425	55,249		2,205,232	
San Diego				55,882	99,503		2,648,518	60,230
San Joaquin							454,240	
San Mateo							688,814	
Santa Barbara		190		182,334	170,662	385,554	6,806,825	
Santa Clara				908,326	7,315		1,268,069	95,000
Santa Cruz				42,437			373,947	
Shasta							4,812,961	
Sierra	5			3,000	820		1,892,550	
Sonoma				92,480	12,142		676,020	
Stanislaus				69,552	54,800		2,560,000	
Trinity					4,765		5,338,194	
Tulare							963,996	
Tuolumne				2,294,818	2,200		377,654	1,060,000
Ventura				8,306	38,183		581,057	
Yuba							21,732,386	
Other counties		1,500		145,673	97,547		1,439,711	
COLORADO		289,954	63	132,867	100,801	4,014	93,206,726	16,587,400
Counties								
Boulder		23,696		4,000	7,320		1,125,076	
Clear Creek		182			2,052		1,060,559	90,000
Eagle		2,029		71,552			2,685,220	
El Paso		65,000	9	12,401			2,039,524	8,964,870
Fremont		5,680			2,284		3,846,654	
Garfield		11,946			6,296		1,112,919	
Gilpin		1,290		15,361	8,000		2,169,120	
Gunnison		23,434		2,000				903,428
Huerfano		10,890					13,233,786	1,224,110
Jackson		4,944						720,000
Jefferson		6,359			1,027		431,575	
Lake		4,637		450	1,500		17,682,668	
La Plata		471			1,168		1,322,848	
Las Animas		35,383					10,252,762	223,720
Routt		30,888					2,551,764	3,316,000
Saguache		3,152	12	20,483	1,873		4,971,780	
San Juan		2,776		50			14,881,285	420,960
Teller		7,041	2	5,555	30		4,960,926	
Weld		37,062					3,800,238	78,912
Other counties		13,094	40	1,015	69,261	4,014	5,077,422	585,400
CONNECTICUT	224	17,465	73	53,252	99,366		6,950,367	
Counties								
Hartford		5,216		6,679	32,878		2,944,555	
Litchfield	3	15	73	115	11,947		509,373	
New Haven		9,704		45,005	28,918		2,844,937	
Other counties	221	2,530		1,453	25,623		651,502	
DELAWARE	10	1,830			10,435		362,070	
County								
New Castle	10	1,830			10,435		362,070	
FLORIDA		36,386		26,361,007	412,343		106,917,257	52,209,426
Counties								
Citrus		1,719		31,416	5,732		1,570,440	
Dade		2,150		52,043	166,795		1,686,650	117,000
Gadsden		10,131		2,025,432	40,205		1,056,000	1,300,000
Hernando		1,335			23,781		924,600	
Hillsborough				2,062,538			6,537,890	2,567,550
Levy		1,500			40,300		51,282	
Polk		5,171		22,059,908	94,525		92,494,365	48,224,876
Putnam		4,883			9,000		955,060	
Other counties		9,497		129,670	32,005		1,640,970	

TABLE 3.—CONSUMPTION OF FUELS AND ELECTRIC ENERGY, BY STATES AND COUNTIES: 1929—Continued

STATE AND COUNTY	COAL		Coke (tons, 2,000 pounds)	Fuel oils, including crude oil and gas oil (gallons)	Gasoline and kerosene (gallons)	Natural gas (M cu. ft.)	ELECTRIC ENERGY	
	Anthracite (tons, 2,240 pounds)	Bituminous (tons, 2,000 pounds)					Purchased (kilowatt-hours)	Generated by the enterprises reporting (kilowatt-hours)
GEORGIA	1,317	97,018	1,815	3,906,965	154,737		20,564,806	5,380,429
Counties								
Bartow	1,300	9,797			19,582		7,565,011	1,440,000
Crawford		2,799			19,894			1,061,750
Decatur		2,341		3,751,485	10,604			2,427,389
De Kalb	2	6,592		34,631	10,420		2,073,008	
Elbert		2,989		21,600	10,885		558,083	
Houston		1,922			20,338		289,558	451,290
Murray	5	3,029			17,616		39,900	
Pickens		8,667		8,000			1,391,400	
Polk		6,369					1,668,678	
Twiggs		11,630	1,815				2,588,667	
Wilkinson		29,906		40,614	5,700		3,082,851	
Other counties	10	10,977		50,635	39,098		1,307,650	
IDAHO		21,813	310	247,785	32,325		119,814,986	9,351,121
Counties								
Blaine		180					1,428,500	
Boise		1,164		1,800	500		1,536,684	
Bonner					5,520		1,028,500	
Butte		50		12,000			350,000	
Caribou		760	2	3,517	2,037		967,994	
Custer		9,662	150	90,000				2,070,000
Lemhi		300		79,507	1,560		680,000	
Shoshone		9,693	158	38,697	10,802		113,419,635	5,930,121
Valley		3		500				1,051,000
Other counties		1		21,764	11,816		403,673	300,000
ILLINOIS	1,386	1,160,205		725,071	771,807		184,265,217	41,556,584
Counties								
Christian		26,242					8,887,501	215,000
Clinton		23,150						671,000
Cook	1,386	53,467		219,021	104,613		6,722,470	
Du Page		1,129		451	16,749		1,569,077	
Franklin		150,021		14,630	1,120		41,961,437	3,492,656
Fulton		22,418			13,620		8,453,872	
Grundy		1,763			500		1,013,500	
Hardin		22,531			101,436		186,340	3,351,999
Jackson		13,895		11,180	20,360		7,104,187	
Kane		5,089		8,741	12,300		665,330	
Kankakee		3,250					1,169,000	
La Salle		65,010		2,835	56,720		14,584,196	
Logan		8,619		7,538			1,718,635	
McHenry		13,824			5,000		900,800	
Macoupin		125,344					1,305,419	12,110,159
Madison		51,832		1,000	10,100		4,163,247	1,769,536
Marion		51,202			2,835			1,000,000
Monroe		130			26,115		883,680	
Montgomery		34,216					368,516	7,519,600
Ogle		179			2,075		1,397,900	
Peoria		4,844		600	19,005		6,647,083	
Perry		63,007		52,204	20,239		8,972,303	1,726,000
Pulaski		165		248,637			753,680	
Randolph		13,942					21,554	485,770
Rock Island		2,600			33,175		765,962	
St. Clair		86,516		11,085	52,108		8,472,168	702,036
Saline		68,719		82,485	4,945		7,759,797	928,125
Sangamon		44,001		3,200	545		7,323,296	598,000
Tazewell		2,169			15,000		3,819,160	
Union		1,000			11,000		711,837	
Vermilion		39,495		20,000			10,769,941	
Will		7,578		500	163,828		10,133,740	
Williamson		105,216			2,779		8,411,036	6,977,703
Winnebago		3,033			15,000		677,134	
Other counties		44,609		40,964	60,640		5,971,419	9,000
INDIANA		458,842		102,373	310,836		103,569,585	3,626,506
Counties								
Cass		2,634			840		3,117,826	
Clark		2,008					101,333	377,021
Clay		40,114		550	16,890		3,387,972	
Gibson		19,030					2,729,019	
Greene		36,779			24,000		5,228,838	
Howard		2,100			12,600		607,233	
Huntington		2,222			6,000		1,248,613	
Knox		17,939		3,600	29,848		5,934,401	333,360
Kosciusko		800					1,223,259	
Lagrange		952					1,375,700	

TABLE 3.—CONSUMPTION OF FUELS AND ELECTRIC ENERGY, BY STATES AND COUNTIES: 1929—Continued

STATE AND COUNTY	COAL		Coke (tons, 2,000 pounds)	Fuel oils, including crude oil and gas oil (gallons)	Gasoline and kerosene (gallons)	Natural gas (M cu. ft.)	ELECTRIC ENERGY	
	Anthracite (tons, 2,240 pounds)	Bituminous (tons, 2,000 pounds)					Purchased (kilowatt-hours)	Generated by the enterprises reporting (kilowatt-hours)
INDIANA—Continued.								
Counties—Continued								
Lake		1,464		52,160	15,414		22,180	
Lawrence		19,326			805		9,089,502	633,124
Madison		1,674			10,000		714,475	
Marion		770					4,914,303	
Miami		507			80		686,630	
Monroe		7,816			7,840		8,082,565	235,700
Owen		3,381			6,800		592,395	408,000
Pike		46,800			18,191		10,498,460	
Putnam		13,406		1,679	5,003		833,910	
Randolph		1,053		31,310				150,000
St. Joseph		2,624		7,684	11,175		957,350	
Steuben							1,203,685	
Sullivan		46,918			475		9,579,403	
Vanderburg		24,318					372,665	
Vermillion		34,662			6,400		9,172,877	169,600
Vigo		102,810			19,665		10,943,786	1,125,025
Warrick		7,587			18,699		4,729,306	
Wayne		1,850					681,270	
Wells		1,350			19,750		852,370	
Other counties		15,948		5,390	80,361		4,688,259	194,676
IOWA	985	92,186	30	42,561	282,482		30,943,893	266,670
Counties								
Appanoose		566		500	2,000		1,764,000	
Black Hawk		3,000			17,000		614,084	
Boone		4,675					3,135,890	
Butler		77			26,000		512,000	
Cerro Gordo		4,729					756,000	236,670
Clinton		2,000					419,200	
Dallas		1,210			4,187		2,770,090	
Dubuque		1,515			20,000		328,600	
Johnson		850			25,000		940,040	
Linn		12		20,929	260		109,977	
Lucas		9,835					736,200	
Mahaska		10	5		13,271		1,227,923	
Marion		14,451		20,600	9,000		1,234,230	30,000
Marshall		1,808			23,227		1,008,000	
Monroe		2,766					703,810	
Muscatine		690					2,707,450	
Polk		10,801			4,293		5,386,358	
Sac		3,223			32,930		470,730	
Scott		6,286			20,145		659,191	
Sioux		1,292			10,200		1,778,630	
Wapello		513					760,600	
Warren		10,900	25		400		20,700	
Webster	605	230			1,594		1,164,030	
Other counties	380	10,747		532	72,975		1,674,570	
KANSAS	342	71,889		372,832	352,943	301,572	65,320,992	548,958
Counties								
Anderson		1,779			21,794		259,864	
Atchison		40			5,000		554,227	
Barber				24,000	9,000			336,008
Cherokee	342	14,750		48,907	52,915	301,572	50,370,144	
Cowley		450		30,000	60,000		21,600	
Crawford		39,395			3,000		4,387,006	162,200
Elk		769					844,320	
Franklin				102,600	38,000		293,279	
Leavenworth		3,020			2,804		327,600	
Meade				153,000	22,500		40,000	
Neosho		310					1,141,943	
Sedgwick		603					555,710	
Shawnee				2,055	24,769		1,455,465	
Washington		40			41,750		188,000	
Wyandotte		1,413			5,864		1,032,573	
Other counties		9,320		12,270	64,947		2,949,201	50,750
KENTUCKY		541,146	750	223,821	325,335	102,345	175,731,000	55,829,180
Counties								
Anderson		536			7,000		470,177	
Bell		13,271			6,000		9,608,852	1,199,627
Carter		3,375		300	1,200		410,814	3,600
Crittenden		19,004		72,489	58,883		501,939	1,014,100
Edmonson		25,753		8,929	19,918		637,379	1,596,524
Fayette					25,000		60,250	
Floyd		28,847			2,650	88,133	16,673,320	2,710,130
Greenup		9,124			25,000			300,000
Hardin		5,780		32,500	8,200		141,030	
Harlan		30,287			2,250		41,266,237	14,109,390

TABLE 3.—CONSUMPTION OF FUELS AND ELECTRIC ENERGY, BY STATES AND COUNTIES: 1929—Continued

STATE AND COUNTY	COAL		Coke (tons, 2,000 pounds)	Fuel oils, including crude oil and gas oil (gallons)	Gasoline and kerosene (gallons)	Natural gas (M cu. ft.)	ELECTRIC ENERGY	
	Anthracite (tons, 2,240 pounds)	Bituminous (tons, 2,000 pounds)					Purchased (kilowatt-hours)	Generated by the enterprises reporting (kilowatt-hours)
KENTUCKY—Continued.								
Counties—Continued								
Henderson		9,796		6,000			123,377	
Hopkins		15,958		2,080	6,230		12,039,085	480,000
Jefferson		12,313		73,290	60,000		569,025	
Johnson		13,040					3,809,381	538,200
Knott							1,361,236	
Knox		5,920					322,990	
Letcher		63,205					20,840,568	13,144,434
Livingston		7,345		4,200	5,800		1,600	
McCreary							3,499,262	
Martin						14,212	1,051,819	
Meade		2,459		12,000				74,500
Muhlenberg		96,434					7,446,084	335,711
Ohio		13,230			2,500		2,917,200	205,000
Perry		50					24,265,750	
Pike		41,369					17,554,511	15,661,119
Union		37,840					1,565,956	2,180,000
Webster		18,101					6,090,086	
Whitley		21,527	750				12,121	2,060,545
Other counties		46,582		12,033	94,704		2,490,951	216,300
LOUISIANA		8,485		1,692,231	47,432		10,819,063	
Counties								
Ouachita		3,657		200,000	25,000		631,490	
Rapides				656,983	7,887		2,743,850	
Tangipahoa		3,528		156,803			6,540,223	
Webster				207,000	8,135			
Winn		600		338,112	5,640			
Other counties		700		133,333	770		903,500	
MAINE	2,082	4,284	76	9,650	23,066		5,004,412	70,000
Counties								
Androscoggin	23	224			1,740		378,585	
Cumberland		129		510	1,611		213,300	
Hancock	2,007	1,200		9,051	3,536		116,610	70,000
Knox		1,047					2,346,402	
Oxford			76	89	4,258		208,221	
Piscataquis							829,187	
Sagadahoc	29	6			10,521		588,175	
Other counties	23	1,078			1,400		323,932	
MARYLAND		55,363	91	[1] 674,200	145,101	600	16,533,358	1,492,456
Counties								
Allegany		2,267		39,000	2,556		5,787,374	
Baltimore		1,018		28,750	9,498		1,199,971	
Baltimore City		5,015		1,090			2,070,729	
Cecil		7,158		604,800	7,530			
Frederick		1,056			3,000		1,135,672	
Garrett		10,264			18,000	600	2,817,861	1,492,456
Harford		3,762	30		2,250		1,712,410	
Prince Georges		18,980			85,500		1,045,910	
Washington		3,195	61		15,646		440,091	
Other counties		2,648		[2] 560	1,122		323,340	
MASSACHUSETTS	292	21,577	5	383,807	456,558	[1] 4,833	13,716,792	302,258
Counties								
Berkshire	20	1,351		209,207	26,009		1,593,393	
Essex	225	4,779		55,200	6,360		2,264,447	
Hampden		1,891		24,436	83,373	[1] 4,833	1,551,027	215,000
Middlesex		8,450		54,240	147,350		1,685,593	
Norfolk	31	2,418	5	1,383	11,128		1,597,319	
Plymouth	7	50		4,254	18,550		1,128,878	
Suffolk	9	671		26,805	82,570		1,848,610	87,258
Worcester		1,796		7,632	37,158		1,190,906	
Other counties		171		650	44,000		856,619	
MICHIGAN	845	1,002,107	2,904	1,040,380	779,500		174,003,915	222,403,092
Counties								
Alpena		22,692			600		3,981,800	3,751,700
Bay		5,532					692,470	
Branch		620			26,802			
Clinton					22,545			
Dickinson		10,140	27	11,803	26,427		11,051,842	35,678,832

See footnotes at end of table.

TABLE 3.—CONSUMPTION OF FUELS AND ELECTRIC ENERGY, BY STATES AND COUNTIES: 1929—Continued

STATE AND COUNTY	COAL		Coke (tons, 2,000 pounds)	Fuel oils, including crude oil and gas oil (gallons)	Gasoline and kerosene (gallons)	Natural gas (M cu. ft.)	ELECTRIC ENERGY	
	Anthracite (tons, 2,240 pounds)	Bituminous (tons, 2,000 pounds)					Purchased (kilowatt-hours)	Generated by the enterprises reporting (kilowatt-hours)
MICHIGAN—Continued.								
Counties—Continued								
Genesee		598		3,200	8,126		819,904	
Gogebic	210	93,487	13	40,049	43,803		33,282,514	23,582,961
Houghton		482,415	2,261	162,545	75,271		4,681,077	126,735,799
Huron		2,784			35,032		812,438	
Ingham		81			4,728		805,020	
Iosco		1,351			48,725		1,332,053	
Iron		23,326	34	13,950	16,848		39,590,491	390,000
Kent	635	7,705	391	9,506	54,952		1,996,916	
Keweenaw		77,368	105	8,400	472		6,760,177	5,539,098
Lenawee		455		66,288	2,200		500,700	
Livingston		6,130					2,627,960	
Mackinac		4,991			14,095			
Marquette		25,267	27		18,275		42,239,696	752,430
Monroe		4,757			1,680		1,482,000	
Oakland		10,825	21	2,318	124,229		11,938,150	
Osceola		2,021			19,120			38,000
Presque Isle		145,068		61,866	74,871			22,056,180
Saginaw		35,856		405	29,993		828,500	3,231,292
Washtenaw		1,369	25		15,500		813,310	
Wayne		16,345		601,202	55,378		4,966,830	
Other counties		20,924		58,848	59,828		2,900,067	646,800
MINNESOTA	115	469,807	28,280	464,656	435,106		107,435,531	4,420,538
Counties								
Crow Wing		45,375	27,616	370,868	68,141		13,426,599	2,343,200
Hennepin	9	2,642			35,537		2,304,217	
Itasca		117,024	119		46,639		23,095,597	502,820
Le Sueur		2,527			5,400		1,206,268	
Ramsey		1,241	3		11,000		851,225	
Renville		77		8,055	250		651,604	
St. Louis	100	293,377	542	58,575	249,008		56,027,108	1,519,518
Stearns	6	3,851			52		7,292,425	
Other counties		3,693		27,158	19,079		2,400,488	55,000
MISSISSIPPI		7,658		243,629	59,820		2,591,107	
Counties								
Carroll		2,361			24,000		828,000	
Forrest							1,188,667	
Hancock					30,000			
Lowndes		360		96,000	2,000		446,730	
Monroe		181		48,000	600			
Perry		1,000		70,000				
Wayne		1,430		29,629	3,220		110,000	
Other counties		2,326					17,710	
MISSOURI	7	245,036	96	1,063,431	415,002	10,844	205,834,623	71,992,038
Counties								
Barton		19,453			400		6,510,286	
Cape Girardeau		7,770		3,740	300		1,856,456	
Clay		1,478					1,586,004	
Cooper		1,626					755,000	
Franklin		1,500		1,650	20,600		546,342	
Gasconade				3,300	33,201		45,180	
Greene		4,448		12,474			793,393	
Henry		13,760			8,978		709,500	
Iron		11,002		20,810	3,780		214,406	3,180,000
Jackson		423		69,990	30,465		4,262,294	
Jasper		3,400		19,500	7,000	10,844	5,241,976	
Lafayette		8,169					389,826	1,076,400
Livingston		150		12,000	48,000			
Macon		5,232					155,676	26,000,000
Madison		1,229	86	8,240			6,502,060	
Newton		92		26,800			568,840	
Pike					27,950		315,225	
Ralls		6,116		4,000			1,060,940	18,000
Ray		2,360					1,679,293	
St. Charles		1,229		219,391	7,184		339,120	
St. Francois		79,574		409,951	4,123		161,661,756	41,648,318
St. Louis		18,909	10	67,153	54,180		5,346,450	8,000
St. Louis City	7	10,782		8,696			1,037,811	
Ste. Genevieve		495		86	44,360		1,143,681	
Washington		1,872		118,182	51,570		693,707	57,720
Other counties		43,968		57,468	73,021		2,359,311	3,600

TABLE 3.—CONSUMPTION OF FUELS AND ELECTRIC ENERGY, BY STATES AND COUNTIES: 1929—Continued

STATE AND COUNTY	COAL		Coke (tons, 2,000 pounds)	Fuel oils, including crude oil and gas oil (gallons)	Gasoline and kerosene (gallons)	Natural gas (M cu. ft.)	ELECTRIC ENERGY	
	Anthracite (tons, 2,240 pounds)	Bituminous (tons, 2,000 pounds)					Purchased (kilowatt-hours)	Generated by the enterprises reporting (kilowatt-hours)
MONTANA	110	138, 104	46	228, 783	114, 709		317, 574, 705	3, 515, 260
Counties								
Broadwater	90						1, 274, 988	
Carbon		27, 790			11, 881		4, 783, 180	2, 009, 140
Cascade		614		6, 564	29, 093		2, 920, 031	
Granite		2, 042		710	9, 028		3, 414, 113	
Judith Basin		12		188, 148	2, 005		5, 166, 720	
Lewis and Clark		60			1, 000		2, 485, 781	
Madison	20	136	35	9, 321	7, 039		810, 960	
Musselshell		9, 761					4, 829, 746	
Park		181			500		10, 200	575, 000
Rosebud		1, 971					2, 069, 900	
Silver Bow		93, 860	11		2, 048		287, 977, 917	931, 120
Yellowstone					40, 000		175, 471	
Other counties		1, 687		24, 040	12, 115		1, 655, 698	
NEBRASKA	15	2, 927		42, 000	122, 637		7, 667, 829	
Counties								
Buffalo					18, 598			
Cass		917		2, 000	41, 003		2, 566, 750	
Dodge		868			1, 906		731, 984	
Douglas		235			54, 358		327, 300	
Frontier	15			40, 000				
Jefferson							1, 297, 800	
Platte		11			1, 845		568, 373	
Sarpy		821			1, 830		1, 248, 672	
Other counties		75			3, 007		926, 950	
NEVADA	7	114, 931	847	2, 463, 842	197, 851		43, 231, 122	77, 689, 940
Counties								
Clark				178, 557	21, 430		295, 000	109, 500
Elko	7	390		183, 467	17, 115		3, 456, 000	872, 878
Esmeralda				231, 500	18, 000		1, 583, 710	260, 000
Eureka		211		260, 168	10, 834			2, 512, 768
Lincoln		2, 996		186, 350				3, 035, 800
Nye		507		299, 120	56, 154		25, 373, 754	
Pershing		246		343, 969	4, 566		2, 674, 942	255, 000
Washoe				163, 761	19, 810		122, 600	534, 968
White Pine		110, 566	847	435, 145	18, 810		7, 287, 210	70, 109, 026
Other counties		15		181, 805	31, 123		2, 437, 906	
NEW HAMPSHIRE	30	6, 067	7	66, 474	45, 016		2, 694, 146	162, 000
Counties								
Cheshire		561	7	15, 912			287, 360	
Grafton	2	300		35, 000	10, 437		367, 526	
Hillsborough	4	2, 872			6, 828		517, 513	
Merrimack	24	711		15, 562	22, 000		1, 126, 406	162, 000
Strafford		105					367, 564	
Other counties		1, 518			5, 751		27, 777	
NEW JERSEY	60, 853	35, 518	30	1, 797, 860	847, 474		23, 167, 307	23, 675, 263
Counties								
Burlington		2, 645		601, 277	43, 952		14, 251	
Cumberland		2, 585		657, 553	157, 410		2, 881, 572	
Essex	6	725		5, 442	83, 017		964, 936	
Gloucester					63, 000		42, 000	
Hudson		44		1, 000	32, 608		986, 080	
Middlesex		4, 467		3, 121	78, 967		985, 012	
Monmouth		466			124, 000		1, 160, 570	
Morris	550	5, 435	30	8, 420	59, 474		8, 196, 974	
Ocean		888			10, 000		1, 239, 834	
Passaic		5, 100		28, 377	21, 100		2, 651, 958	572, 440
Somerset	1, 092	5, 454			6, 091		1, 127, 078	
Sussex	59, 201	1, 210		383, 670	43, 490		48, 950	23, 042, 823
Union		284			42, 232		814, 525	
Warren		821			4, 700		712, 273	
Other counties	4	5, 394		109, 000	77, 433		1, 341, 324	60, 000
NEW MEXICO		239, 643		1, 921, 418	68, 134		16, 823, 556	110, 852, 282
Counties								
Colfax							9, 299, 940	
Grant		180, 346		407, 217	38, 774		4, 345, 328	80, 766, 749
Hidalgo		100		1, 347, 234	300		555, 090	5, 684, 684
Luna				3, 500			1, 988, 800	
McKinley		28, 941					456, 740	9, 786, 210
San Miguel		12, 003						10, 648, 643
Santa Fe		9, 757						3, 124, 350
Other counties		8, 496		73, 467	29, 060		177, 658	841, 646

TABLE 3.—CONSUMPTION OF FUELS AND ELECTRIC ENERGY, BY STATES AND COUNTIES: 1929—Continued

STATE AND COUNTY	COAL		Coke (tons, 2,000 pounds)	Fuel oils, including crude oil and gas oil (gallons)	Gasoline and kerosene (gallons)	Natural gas (M cu. ft.)	ELECTRIC ENERGY	
	Anthracite (tons, 2,240 pounds)	Bituminous (tons, 2,000 pounds)					Purchased (kilowatt-hours)	Generated by the enterprises reporting (kilowatt-hours)
NEW YORK	12,465	128,517	982	1,242,029	1,260,119	597	98,349,949	7,683,980
Counties								
Albany		1,060		8,100	49,519		1,401,228	
Cayuga	7	1,571			22,935		941,500	
Clinton	11,705	1,293		100,622	33,055		8,107,430	
Columbia		3,700					531,039	1,813,000
Dutchess		3,921			63,230		2,843,240	
Erie		18,021	682	9,102	109,536	597	6,677,053	74,880
Essex	5	10,850	40	37,472			14,743,526	2,413,600
Genesee	43	15,295		4,076	54,369		9,743,572	
Greene		680			3,700		1,261,520	
Herkimer		986			20,000		1,773,487	
Jefferson							1,444,035	
Kings				117,000			182,000	
Madison		227					1,016,839	
Monroe		540		453	43,057		3,576,984	
Montgomery		2,000			75,000		837,500	
Nassau		25,841		27,818	133,456		5,721,740	
Oneida	12	1,035		924	18,909		1,841,654	
Onondaga		622		450	48,853		917,716	
Ontario	10	1,223			16,674		1,254,113	
Orange		2,815			23,345		933,473	
Rockland		11,173		7,155	79,842		3,875,100	1,452,500
St. Lawrence	240	2,346		7,200	79,199		6,138,282	900,000
Saratoga		150			21,954		1,242,400	
Schenectady		1,274			7,000		1,387,419	
Suffolk		8,710		781,348	19,600		3,327,420	900,000
Ulster	215	3,455	40		54,908		3,519,013	
Warren		510		112,559	15,603		596,082	130,000
Washington	114	875			61,300		2,262,904	
Westchester	4	726		650	64,788		4,420,156	
Other counties	110	7,609	220	27,100	140,287		5,831,524	
NORTH CAROLINA		50,462	235	82,709	327,735		13,127,202	773,200
Counties								
Alexander		1,800			8,400		960,000	
Buncombe		3,680			145,031		1,178,118	
Chatham		3,000					591,333	
Forsyth		200		3,300	60,275			
Macon		213					894,595	
Madison		4,863					208,400	100,000
Mitchell		15,831	235	4,481	18,785		1,924,557	
Rowan		2,319					659,562	
Surry		2,583		27,475	16,609		2,316,800	270,000
Vance		160			15,000		1,329,600	
Wake		150			16,000		589,600	
Wilson		120		34,551	8,356		480,000	403,200
Yancey		157			9,780		702,640	
Other counties		15,386		12,902	29,499		1,291,997	
NORTH DAKOTA		34,016	600	4,500	77,140	[1] 55,327	1,727,350	24,500
Counties								
Adams		1,825						21,300
Burke		12,274			13,252	[1] 23,166	243,000	
Burleigh		2,197					534,900	3,200
McLean		4,200			25,000		14,700	
Mercer		5,749			11,214		455,350	
Ward		221	600	4,500	22,674	[1] 32,161	362,000	
Other counties		7,550			5,000		112,400	
OHIO	389	380,609	465	927,533	850,871	20,163	125,155,527	8,172,100
Counties								
Allen	21	3,350		86,294	20,703		1,484,558	
Athens		13,523		166,200			7,554,560	595,410
Belmont		24,521					15,861,569	1,849,520
Butler	4	50		37,800	600		393,140	
Carroll		757		1,200			1,296,566	
Champaign		360					2,070,000	
Clermont		2,200		67,779			813,907	
Clinton		1,100		32,000	17,200		460,709	
Columbiana		1,138		1,500			1,179,269	
Cuyahoga		2,724					1,611,094	
Delaware	64	2,800		3,300	8,985		1,632,340	
Erie		52,146		150	19,349		1,624,867	
Franklin		7,705		42,500	43,250		9,229,116	
Greene		18,809			3,000	12,300	226,894	
Guernsey		9,440		400	1,500		5,600,990	
Hamilton		8,539		23,200	3,964		2,183,811	180,000
Hancock		1,192		4,000	17,758		553,479	
Hardin		3,017		3,000	2,990		1,639,865	
Harrison		35,668		15,300	26,450		6,434,650	
Hocking							1,195,420	

See footnotes at end of table.

TABLE 3.—CONSUMPTION OF FUELS AND ELECTRIC ENERGY, BY STATES AND COUNTIES: 1929—Continued

STATE AND COUNTY	COAL		Coke (tons, 2,000 pounds)	Fuel oils, including crude oil and gas oil (gallons)	Gasoline and kerosene (gallons)	Natural gas (M cu. ft.)	ELECTRIC ENERGY	
	Anthracite (tons, 2,240 pounds)	Bituminous (tons, 2,000 pounds)					Purchased (kilowatt-hours)	Generated by the enterprises reporting (kilowatt-hours)
OHIO—Continued.								
Counties—Continued								
Jackson		9,889			17,265		135,122	910,000
Jefferson		28,487		49,846	25,100		11,386,326	168,100
Lawrence		320			2,000		2,193,440	
Lorain		6,559		15,325	16,701		360,090	118,220
Lucas		17,702			11,930		2,629,263	
Marion		1,099		100	16,900		982,705	
Meigs		4,139		72,000			1,520,643	
Mercer		110		27,280	35,481		138,333	
Miami		575	10		150,000		1,721,144	
Montgomery		1,495		500	32,400		1,609,742	
Muskingum		8,227		14,000	80,000		1,305,583	275,000
Ottawa		14,735	255	32,000	49,608		8,563,129	3,787,850
Perry		2,599		9,000	6,568		2,774,252	
Portage		4,649		10,000			2,433,300	
Putnam		1,742		17,770	16,567		229,238	110,000
Ross		300			29,091		855,260	
Sandusky		7,822			40,724		2,401,621	
Scioto		6,532		16,000	14,850		122,470	
Seneca		6,038			4,868		2,605,906	
Stark	300	5,141		10,000	13,000		5,170,877	128,000
Summit		1,621	200	15,760	1,602		1,235,829	
Tuscarawas		14,281		126,179	4,750		2,757,773	
Van Wert		2,062		8,000	5,300		737,674	
Washington		5,774		11,000	15,000	4,392	12,500	50,000
Wyandot		3,415			25,394		1,638,877	
Other counties		34,548		8,150	69,963	3,471	6,292,626	
OKLAHOMA		80,734		2,284,807	646,233	636,566	93,312,694	16,377,300
Counties								
Blaine		180		4,000	74,038			68,000
Cherokee				146,961	86,545		315,000	
Comanche		1,774		17,000	13,200		769,600	
Latimer		9,148					674,090	
Le Flore		5,770		187	100		1,677,831	
Murray		2,522		306,555			1,262,663	
Muskogee		441		111,842	102,620		533,800	30,000
Oklahoma					140,000		337,000	
Okmulgee		9,404				12,375	1,178,361	
Ottawa		6,935		1,352,019	117,792	610,191	73,439,730	16,268,500
Pittsburg		26,063					7,623,954	10,800
Pontotoc		3,721		197,800	2,000		949,000	
Tulsa		3,815		10,800	28,600		2,707,368	
Other counties		10,901		137,643	81,338	14,000	1,844,297	
OREGON		999		1,953,810	138,683		7,034,560	916,000
Counties								
Clackamas				118,330	20,000		236,500	
Coos		507		302,904	1,344		442,220	
Douglas		254		319,502	21,158		160,000	
Jackson		45			3,000		2,017,504	
Josephine					1,000		225,000	216,000
Lane				386,925	43,281		1,137,487	
Malheur		70		236,087	4,400			700,000
Marion		3		158,000	16,020		357,750	
Multnomah				366,660	450		919,500	
Other counties		120		65,402	28,080		1,548,599	
PENNSYLVANIA	5,128,919	1,307,243	22,469	2,329,075	1,547,589	106,301	1,279,191,466	600,580,823
Counties								
Adams		5,040		90,000	9,567		2,653,166	
Allegheny		107,938		716,930	152,937	1,469	68,919,356	26,333,700
Armstrong		7,024		37,742	19,575	4,397	34,859,981	
Berks	6	11,700		69,234	84,202		3,708,457	
Blair		4,359		600	26,591		2,427,327	167,000
Bucks		8,919		106,109	104,447		9,018,474	
Butler		6,183	34	350	51,365	11,405	8,141,310	1,785,000
Cambria		123,414		380	6,771		100,985,016	31,173,490
Carbon	53,425				5,299		23,763,603	
Centre		4,612		21,032	2,125		5,881,996	40,000
Clarion		3,700		12,525	5,030	57,253	3,728,806	1,073,135
Clearfield	500	21,106		350	6,550		16,991,399	3,286,866
Columbia	53,155	80	15	3,700	10,012		3,972,202	
Cumberland		6,683	70		39,000		1,220,103	
Dauphin	103,743	6,434	27	24,305	37,266		3,442,075	40,548,901
Elk		12,736		12,500	1,750		3,859,800	
Fayette		305,724	20,911	20,453	27,536		114,200,883	14,021,034
Fulton		6,720					1,141,200	
Greene		44,236			11,285	287	27,788,290	10,099
Huntingdon		14,773		3,000	35,700		5,331,713	

TABLE 3.—CONSUMPTION OF FUELS AND ELECTRIC ENERGY, BY STATES AND COUNTIES: 1929—Continued

STATE AND COUNTY	COAL		Coke (tons, 2,000 pounds)	Fuel oils, including crude oil and gas oil (gallons)	Gasoline and kerosene (gallons)	Natural gas (M cu. ft.)	ELECTRIC ENERGY	
	Anthracite (tons, 2,240 pounds)	Bituminous (tons, 2,000 pounds)					Purchased (kilowatt-hours)	Generated by the enterprises reporting (kilowatt-hours)
PENNSYLVANIA—Continued.								
Counties—Continued								
Indiana		24,480			4,385	28,258	53,457,717	6,156,500
Jefferson		13,834			5,371		16,500,092	60,400
Lackawanna	932,108	3,180		20	13,121		72,540,384	135,362,856
Lancaster	40,030	2,800		34,106	121,597		4,934,626	
Lawrence		51,594	31	4,100	13,992		8,748,820	702,511
Lebanon	39,852	15,469	54	1,099,323	107,874		48,064,016	
Lehigh	2,056	12,324		300	37,368		4,023,605	294,000
Luzerne	2,037,582	13,213		5,500	16,390		137,391,302	209,235,672
Mercer		10,818			3,012		360,124	600,000
Mifflin		4,345			8,833		3,168,727	
Montgomery	13	1,622		6,922	98,319		2,678,051	
Northampton	183	26,088	20	23,942	115,800		17,292,198	18,327
Northumberland	438,587	2,382		12,030	23,454		59,454,349	27,295,300
Schuylkill	1,365,172	4,022			4,175		173,240,315	56,586,960
Somerset		60,551		214	13,940		55,474,105	11,054,904
Susquehanna	25,339	95			1,864		1,392,984	3,412,000
Washington		87,612			200	1,638	97,126,170	3,765,120
Wayne	14,964	149			1,000			5,686,080
Westmoreland		221,714			25,400		69,641,752	20,753,108
York	21	4,682		1,337	87,132		5,392,509	
Other counties	22,183	44,888	1,307	21,981	207,354	1,594	6,274,463	1,157,800
RHODE ISLAND	1,203	3,445		963	54,500		1,508,704	
Counties								
Providence		2,392			54,500		161,602	
Washington	1,203	645					1,341,017	
Other counties		408		963			6,085	
SOUTH CAROLINA	1,625	21,125	2,308	30,202	260,964		11,104,801	
Counties								
Aiken	125	11,893	2,158		139,631		2,411,978	
Chesterfield		3,150		16,000	7,500		144,600	
Edgefield	1,500	2,000					852,000	
Fairfield				6,720	19,760		2,284,100	
Lexington		834	150	2,020	5,253		1,474,960	
Pickens		551					1,171,900	
Richland		1,768			34,920		2,075,700	
Other counties		879		5,462	53,900		689,503	
SOUTH DAKOTA		43,580	133	119,933	186,451	[1] 6,335	853,901	45,822,900
Counties								
Fall River					19,150		96,171	
Grant		42			150	[1] 56	235,267	
Lawrence		42,930	133	67,506	37,970	6,279		45,822,900
Minnehaha		608					332,649	
Pennington				43,000	5,788		154,724	
Roberts					117,458			
Other counties				9,427	5,935		35,090	
TENNESSEE		204,720	10	251,957	215,500		89,382,515	7,972,000
Counties								
Anderson		3,811					11,067,300	
Blount		5,878		2,457	1,084		1,588,600	
Campbell		10,089		3,402	9,789		3,887,014	600,000
Claiborne		900					4,618,287	
Davidson		2,331		27,254	10,087		864,358	280,000
Fentress		7,250			1,750			1,170,000
Giles		6,320					1,605,780	
Grundy		3,851					1,290,320	
Hamilton		2,631					2,185,210	
Humphreys		886		53,457			76,700	
Knox		42,764	10	9,607	128,014		24,948,770	
Loudon		5,343					484,903	
Marion		4,942			7,200		1,936,517	
Maury		51,838					7,384,974	
Monroe		241			19,264		476,780	
Overton		4,450						5,472,000
Polk		4,250					16,499,255	
Roane		1,634		20,000			4,261,015	
Shelby		7,186		134,090	18,027		1,841,893	
Washington		500			1,564		554,356	
White		14,122					1,560,600	450,000
Other counties		23,503		1,690	18,721		2,249,883	

See footnotes at end of table.

TABLE 3.—CONSUMPTION OF FUELS AND ELECTRIC ENERGY, BY STATES AND COUNTIES: 1929—Continued

STATE AND COUNTY	COAL		Coke (tons, 2,000 pounds)	Fuel oils, including crude oil and gas oil (gallons)	Gasoline and kerosene (gallons)	Natural gas (M cu. ft.)	ELECTRIC ENERGY	
	Anthracite (tons, 2,240 pounds)	Bituminous (tons, 2,000 pounds)					Purchased (kilowatt-hours)	Generated by the enterprises reporting (kilowatt-hours)
TEXAS	**903**	**54,082**	**50**	**12,342,913**	**802,347**	[1] **23,257,784**	**17,008,974**	**19,402,348**
Counties								
Bexar	602	4,152		32,873	8,706		430,176	
Bowie		3,000		111,260	25,292	[1] 34,887	533,600	
Brazoria				4,706,874		11,854,822		6,179,143
Brewster				357,307	10,151			650,000
Brooks				30,000	15,000			450,000
Colorado				1,016,000	55,000		1,892,800	
Comal		5,427		20,836	10,239		1,597,981	
Dallas		4,726		1,261,939	47,446	45,864	742,720	
Duval				45,796	36,000	790,000		65,000
Eastland				260,650		52,156	818,600	
El Paso		700			36,300		779,429	
Fayette					6,177		1,800,000	
Fisher				114,723		5,000	975,600	
Floyd		399		285,000	16,000			400,000
Harris		248		580,000			115,000	
Henderson		3,711					560,080	
Hidalgo					65,230		375,640	
Hudspeth		20		24,345	54,000			
McLennan		1,521		216,065	30,000		793,100	
Matagorda				175,056		5,386,313		4,394,680
Mitchell		50		100,000	4,000		150,000	
Navarro		3,100		5,000			876,942	
Nolan				19,151	40,990		309,880	
Presidio				270,798	10,516			1,082,325
Reeves		100		74,000	25,000			
Tarrant		3,379		477,649	41,775		403,782	
Uvalde		654		774,410	33,125		349,900	1,806,500
Victoria				255,000	35,000		1,525,000	
Webb		3,100		628	18,182		137,500	
Wharton				61,437		5,041,638		4,814,700
Wise		463		282,500	12,497		847,233	
Other counties	301	19,332	50	783,616	165,721	47,104	994,011	60,000
UTAH	**38**	**100,744**	**4,942**	**356,752**	**182,585**		**468,894,024**	**661,404**
Counties								
Carbon		14,789			10,200		29,047,857	661,404
Emery		411					3,013,930	
Iron		3,031		6,894	39,173		2,535,058	
Juab		2,958	16	2	2,825		14,214,319	
Salt Lake	27	62,538	4,253	281,147	54,363		322,141,304	
Summit	11	3,840		2,500	220		23,167,707	
Tooele		6,083	8		2,129		9,983,132	
Uintah		229		6,000	48,928			
Utah		2,555	6	51,909	17,622		55,493,911	
Wasatch		1,100		3,500			6,948,400	
Other counties		3,210	659	4,800	7,125		1,748,406	
VERMONT	**431**	**15,513**	**395**	**115,278**	**31,624**		**22,571,970**	**13,405**
Counties								
Bennington		602					124,200	13,405
Lamoille		499	127				2,330,900	
Orange	66	1,430		20,000			873,764	
Rutland	317	2,997	40	1,500	1,261		10,206,162	
Washington	38	9,874	228	89,634	24,903		6,635,335	
Windsor	10	6			5,460		1,674,108	
Other counties		105		4,144			727,501	
VIRGINIA	**4,719**	**84,603**	**2,924**	**140,420**	**129,758**		**99,427,850**	**2,095,993**
Counties								
Albemarle		654		56,004			595,652	
Alleghany		1,302		3,440			229,117	688,000
Augusta		3,753			37,516		3,049,464	209,350
Bland				6,500	2,000			
Botetourt		180			10,500		814,400	
Buckingham		3,665		28,300				672,043
Carroll		208			9,156		1,296,813	
Chesterfield		8,339			14,850		488,200	
Dickenson		786					3,826,545	
Giles		2,940					1,090,000	
Greensville		711		6,458	18,653		1,531,000	
Henrico		900			5,600		944,000	
Lee		3,322	2,924	6,838	10,700		8,391,402	201,600
Montgomery		2,452			4,240		2,814,745	
Pulaski		3,960					2,266,560	
Rockbridge		1,254		200	5,357		738,683	
Russell		4,940					9,918,347	
Scott		2,874		3,500			146,227	325,000
Smyth							1,796,960	
Tazewell		3,818					11,674,943	

See footnotes at end of table.

TABLE 3.—CONSUMPTION OF FUELS AND ELECTRIC ENERGY, BY STATES AND COUNTIES: 1929—Continued

STATE AND COUNTY	COAL		Coke (tons, 2,000 pounds)	Fuel oils, including crude oil and gas oil (gallons)	Gasoline and kerosene (gallons)	Natural gas (M cu. ft.)	ELECTRIC ENERGY	
	Anthracite (tons, 2,240 pounds)	Bituminous (tons, 2,000 pounds)					Purchased (kilowatt-hours)	Generated by the enterprises reporting (kilowatt-hours)
VIRGINIA—Continued.								
Counties—Continued								
Warren							1,044,250	
Washington							1,137,500	
Wise		22,951					25,846,426	
Wythe	4,719	1,973		6,300			16,539,182	
Other counties		13,621		22,880	13,186		3,747,434	
WASHINGTON		59,164	1	935,439	188,818		42,725,958	527,056
Counties								
Grays Harbor				378,149	13,427		20,623	
King		1,129		46,000	34,303		11,444,902	
Kittitas		16,659			16,000		9,629,424	
Lewis		1,878		136,148	24,348		163,712	53,756
Pend Oreille		151			1,650		2,348,808	
Pierce		1,264		141,700			10,217,416	
San Juan				27,300	1,923		590,000	
Snohomish			1	62,500	3,500		11,800	200,000
Spokane		2		8,726	26,613		614,590	
Stevens		27,012		15,850	27,463		4,971,258	33,300
Whatcom		6,295			8,421		1,814,400	240,000
Yakima				79,386	6,370			
Other counties		4,774		39,680	24,800		890,025	
WEST VIRGINIA		567,467		75,887	75,436	[1] 87,880	536,108,186	118,529,744
Counties								
Barbour		2,616		500			5,145,440	200,000
Berkeley		4,267		4,632	16,074		9,074,632	
Boone		5,211					13,190,429	840,000
Brooke		500					9,174,325	
Clay		11,915				[1] 1,144	171,900	22,576,000
Fayette		36,482		545	6,000		64,411,693	10,241,100
Greenbrier		13,558			8,782		6,020,448	
Harrison		1,749		3,000	2,000	493	13,821,903	650,000
Jefferson		3,242		2,970	5,429		3,593,628	
Kanawha		20,544		25,875	3,443	24,649	27,994,486	820,150
Logan		42,927			1,366		76,022,654	1,767,000
McDowell		157,274					71,573,615	49,786,936
Marion		41,544			6,000		32,355,170	
Marshall		11,584			2,500	1,380	9,752,101	1,238,000
Mercer		14,385					19,695,992	1,008,000
Mineral		167		2,000	1,968		1,136,614	
Mingo		4,400				8,550	23,644,125	240,000
Monongalia		1,221			2,019		35,297,482	
Morgan		9,055					2,288,080	
Ohio		8,400		11,000			7,293,426	
Preston		24,089		565	1,665		6,455,285	3,836,653
Putnam							2,478,600	
Raleigh		72,367					72,103,287	14,967,900
Taylor							2,026,355	
Tucker		2,681					13,499,756	
Wetzel		5,297		15,500	5,500	5,183	70,000	
Wood		2,400		9,000	5,500	[1] 12,840	37,500	
Wyoming		12,083				24,000	7,142,368	2,400,000
Other counties		57,509		300	7,190	9,641	636,892	2,949,005
WISCONSIN	149	33,724	47,162	150,525	415,237	[1] 2,227	40,077,009	52,500
Counties								
Brown		304			3,000		511,859	
Door		745		100	6,000		3,503,668	
Florence		170			678	[1] 2,227	449,376	
Grant		471		18,594	22,266		2,290,240	
Green					52,000			
Iowa		75					972,846	
Iron	29	14,273	47,112	11,752			13,352,451	
Lafayette		841			9,580		3,865,840	
Marathon		597		800	17,050		465,072	
Marinette	120	373					290,942	
Milwaukee		1,738	50	1,980	63,905		955,535	
Outagamie		260			20,200		252,502	
Ozaukee		10			25,200		1,061,992	
Portage		800			7,000			52,500
Racine		4,528					880,662	
Rock		895			4,200		1,870,682	
Sauk		142		15,770			117,256	
Sheboygan					5,000		612,120	
Waukesha		2,718		68,469	123,357		4,658,018	
Winnebago		511		25,750			240,208	
Other counties		4,273		7,310	55,301		3,725,740	

See footnotes at end of table.

TABLE 3.—CONSUMPTION OF FUELS AND ELECTRIC ENERGY, BY STATES AND COUNTIES: 1929—Continued

STATE AND COUNTY	COAL		Coke (tons, 2,000 pounds)	Fuel oils, including crude oil and gas oil (gallons)	Gasoline and kerosene (gallons)	Natural gas (M cu. ft.)	ELECTRIC ENERGY	
	Anthracite (tons, 2,240 pounds)	Bituminous (tons, 2,000 pounds)					Purchased (kilowatt-hours)	Generated by the enterprises reporting (kilowatt-hours)
WYOMING		**180,857**		**80,448**	**71,926**		**13,185,701**	**50,414,145**
Counties								
Carbon		17,529			8,580			2,870,600
Fremont		7,582						13,200,000
Hot Springs		37,495						6,436,050
Laramie		1,396		5,500	30,718			
Lincoln		51,842					2,597,893	6,080,379
Platte		2,751			1,200		2,946,963	
Sheridan		1,952					2,608,419	
Sweetwater		52,033					4,924,780	21,240,463
Weston				74,948	29,673			108,200
Other counties		8,277			1,755		107,646	478,453

[1] Includes 111,314 M cubic feet of manufactured gas, consumed in States and counties as follows: Mass., Hampden Co., 4,833 M; N. Dak., Burke Co., 23,166 M, Ward Co., 32,161 M; S. Dak., Grant Co., 56 M; Tex., Bowie Co., 34,887 M; W. Va., Clay Co., 1,144 M, Wood Co., 12,840 M; Wis., Florence Co., 2,227 M.

[2] Includes a small quantity reported by the District of Columbia.