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#### GENERAL EXPLANATIONS

This chapter presents in condensed form statistics based on data collected in the Census of Mines and Quarries for 1929, with comparative figures for prior censuses. It is designed to meet the requirements of those who desire statistics of the principal mining industries, for the United States as a whole and for States. The general report and also detailed statistics for States and for selected industries are contained in the report of the Census of Mines and Quarries-General Report.

Scope of the census.—The Census of Mines and Quarries is taken decennially. The 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 character of ownership, size of enterprises, hours of labor, 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 activities of other mining and quarrying enterprises whose output was valued at less than \$2,500 or which, if not productive, did development work costing less than \$2,500.

(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 comparability between the figures for the censuses of manufactures for 1909, 1919, and 1929. This class of operations, excluded from the Census of Mines and Quarries, includes chiefly: The mining of clay and the manufacture of clay products at the same locality when carried on by 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.—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, fo. 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 number 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 zine 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 general price level 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

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 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, 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 equivilent 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.

<sup>11</sup>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 16th 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.

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

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 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.

**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.

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.

Detailed reports on mines and quarries.—The mines and quarries statistics in this section of the Abstract have been excerpted from the final report of the Decennial Census of Mines and Quarries for 1929, which was taken as a part of the Fifteenth Decennial Census. This report is published in a single quarto volume, the contents of which are described below.

General Report.-Statistics by Subjects.

Introduction and general explanations.

Principal statistics.

Geographic distribution.

Type of ownership. Scale of operation.

Power.

Time in operation.

Persons engaged.

General tables.

(This section has been published separately in pamphlet form.) Reports by States.

This section is an assembly of the reports for the individual States. Each of these State reports gives statistics by industries for the State as a whole. The subjects covered (for the State as a whole and for certain industries in the State) include personnel, hours of labor, size of enterprises (as measured by number of wage earners), char-

acter of organization, power equipment, and fuel consumption. (These statistics have also been published in 13 reports in pamphlet form, each covering three or more States.)

Reports by Industries.

This section is an assembly of the reports for the 39 industries covered by the census classification.

(The industry reports have also been published separately in pamphlet form, 6 in number, each covering a single industry or a group of related industries.)

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	Total, all	Producing	NONPRODI ENTERPR	
SUBJECT	enterprises	enterprises	Number or amount	Per cent of total
Number of enterprises	12, 508	10, 135 11, 602 863, 948	861 904 6, 532	7.8 7.2 0.8
Proprietors and firm members Salaried officers and employees Wage earners (average for the year) Power equipment (total horsepower)	53, 331 812, 220	4, 897 <sup>1</sup> 52, 633 806, 418 7, 514, 843	32 698 5, 802 69, 620	0, 6 1, 3 0, 7 0, 9
Prime movers. Electric motors driven by purchased energy. Principal expenses, total	2, 780, 116 4, 804, 347 \$1, 675, 944, 174	2, 743, 025 4, 771, 818 \$1, 661, 167, 937	37, 091 32, 529 \$14, 776, 237	1.3 0.7 0.9
Salaries Wages Ountract work Supplies Fuel Purchased electric energy Value of products Expenditures for development (included above	130, 022, 742 1, 099, 895, 307 17, 013, 729 207, 554, 048 49, 363, 661 72, 194, 687 2, 302, 831, 178	<sup>1</sup> 137, 638, 624 1, 091, 988, 848 17, 056, 404 203, 508, 383 49, 145, 531 71, 709, 087 2, 392, 831, 178	1, 384, 118 7, 905, 459 857, 205 3, 985, 065 218, 130 425, 600	1.0 0.7 4.8 1.3 0.4 0.6
in "Principal expenses")	89, 646, 000 86, 732, 832	76, 488, 000 84, 508, 448	13, 158, 000 2, 224, 384	14, 7 2, 0

# TABLE 1.—GENERAL STATISTICS, PRODUCING AND NONPRODUCING ENTER-PRISES: 1929

1 Includes data for salaried officers and employees of "Central Administrative" offices,

#### TABLE 2.-GENERAL STATISTICS FOR PRODUCING ENTERPRISES: 1929, 1919, AND 1909

#### [A minus sign (--) denotes decrease]

	19	29			PER CENT OF INCREASE	
SUBJECT	All industries	Exclusive of data for sand and gravel, etc. <sup>1</sup>	1909 1	1919- 1929	1909- 1919	
Number of enterprises Number of mines and quarries Persons engaged, total	10, 135 11, 602 863, 948	10, 277	13, 731	18, 127	-21.0 -25.2 -11.6	-24.3
Proprietors and firm members Salaried officers and employees <sup>2</sup> Wage carners (average for the year) Power equipment (total horsepower)	4, 897 52, 633 806, 418 7, 514, 843	48, 666 788, 357	56, 515 888, 355	87, 946 930, 680	-39.8 -13.9 -11.3 42.2	48.9
Prime movers Electric motors driven by pur- chased energy	2, 743, 025 4, 771, 818	2, 502, 132 4, 467, 959	3, 341, 350	3, 179, 270 205, 480	-25.1	
Salaries <sup>2</sup>	137, 638, 624 1, 091, 989, 848 17, 056, 464 293, 568, 383 49, 145, 531 71, 769, 087 2, 392, 831, 178	$\begin{array}{c} 1,066,605,507\\ 16,595,208\\ 280,622,710\\ 44,693,207\\ 66,416,383 \end{array}$	10, 716, 518 331, 626, 664 74, 081, 877 27, 229, 977	559, 546, 144 12, 151, 388 190, 529, 894	8, 2 54, 9 [-15, 4 -39, 7 [143, 9	120, 3

<sup>1</sup> For purposes of comparison, the figures for the several years have been adjusted as follows: For 1929, by deducting data for the sand and gravel, molding-sand, and glass-sand industries; for 1919, by deducting data for the petroleum and natural-gas industries; for 1909, by deducting data for the petroleum, natural-gas, peak, and precious-stones industries. <sup>a</sup> Figures include data for salaried officers and employees of "Central Administrative" offices.

# TABLE 3.—SUMMARY FOR PRODUCING ENTERPRISES, BY INDUSTRIES: 1929 AND 1919

[The figures for 1920 have been adjusted by omitting data for the sand and gravel, glass sand, and molding sand industries; those for 1919, by deducting data for the petroleum and natural gas industries. The totals for 1919 include data for the chromite industry]

			<u></u>							
INDUSTRY	Y NUMBER OF ENTER- PRISES		MINE	NUMBER OF MINES AND QUARRIES		EARN- AVER- FOR YEAR)	HORSE	POWER	VALUE OF PRODUCTS	
and a start of the	1929	1919	1929	1919	1929	1919	1029	1919	1929	1919
All industries, total	9, 063	11, 466	10, 277	13, 731	788, 357	888, 355	6, 970, 091	4, 900, 102	2, 280, 384	2, 226, 671
Coal: Anthracite Bituminous	198 4, 976	254 8, 636	1 303 5, 620	2 421 8, 282	142, 801 458, 732	147, 372 545, 798	1, 041, 465 3, 124, 187	899, 783 2, 155, 005	384, 854 966, 694	304, 084 1, 145, 978
Metals: Coppor Iron ore Gold and silve, lode Gold, placer Moreury Manganese Minor metals <sup>a</sup> Stone:	180 303 241	200 432 740	208 375	226 406 473 799 132 26 37 37	28, 516 25, 907	45, 741 21, 884	$\begin{array}{c} 701,791\\ 408,821\\ 357,737\\ 98,772\\ 20,280\\ 5,625\\ 2,342\\ 13,469\end{array}$	35, 632 2, 607 5, 800	8, 779 2, 820 1, 185	75, 579 58, 839 9, 369 1, 803 2, 188
Limestone Granite Basalt Slate Marble Sandstone Miscellaneous '	1, 167 406 137 120 70 145 204	895 358 163 101 48 255	1, 250 434 144 130 88 172 234	925 381 174 104 62 276	10, 037 3, 053 4, 098 3, 350	22,069 8,049 3,336 3,513 1,732 4,287	535, 466 108, 217 63, 881 33, 817 30, 198 28, 935 28, 527	213, 717 55, 614 37, 307 20, 613 15, 628 33, 869	30, 381 15, 544 10, 480 7, 539	18, 27 9, 65 5, 72 4, 39 10, 68
Other nonmetals: Abrasive materials <sup>3</sup> Asbestos	30 11	34 10	36 11	34 11	462 195	317 146	3, 828 2, 114	1, 748 420	1, 411 307	72: 250
Asphalt and hitumi- nous rock Barita. Clay Faldspar Fluorspar Fuller's and filtering	21 42 199 51 28	9 89 345 30 54	25 44 236 58 36	12 98 350 32 72	1, 123 844 4, 139 598 1, 053	324 919 5, 453 349 1, 124	13, 109 6, 066 31, 877 6, 543 6, 513	648 3, 029 21, 203 1, 782 7, 138	5, 124 1, 801 10, 753 1, 935 2, 858	750 1, 592 10, 086 584 3, 335
Gypsum Magnesite	22 60 5 24	9 47 11 65	$24 \\ 63 \\ 5 \\ 32$	9 48 11 69	991 2, 078 351 226	824 2, 191 448 448	8, 221 26, 498 3, 197 1, 721	2, 538 15, 032 2, 540 803	4, 812 5, 740 2, 044 516	2, 010 6, 800 2, 170 607
stones. Phosphate rock Silica <sup>3</sup> Sulphur and pyrites Tale and soapstone	14 26 70 9 25	11 48 24 21 28	14 33 73 10 28	11 69 20 22 30	164 3, 201 1, 433 2, 199 550	37 4, 373 166 2, 301 958	2, 517 104, 146 11, 771 33, 932 10, 530	220 49, 639 2, 032 22, 629 7, 053	621 13, 044 4, 645 37, 126 2, 688	60 10, 300 372 20, 345 2, 302
Miscellaneous min- erals <sup>2</sup>	19	44	19	47	305	604	3, 978	8, 040	8, 503	1, 350

[Value of products expressed in thousands of dollars]

Collieries, 241; dredges, 42; washeries (culm-bank), 20.
 Collieries, 261; dredges, 81; washeries (culm-bank), 79.
 See Table 9.
 For 1919, included in figures for other stone industries (principally basalt and sandstone).

# TABLE 3.—SUMMARY FOR PRODUCING ENTERPRISES, BY INDUSTRIES: 1929 AND 1919—Continued

			÷.,	(Amounts in	thousands	of dollars]

INDUSTRY	WA	GES		OR CON- WORK	PLIES	OF SUP- AND RIALS	COST OF FUEL AND PURCHASED ELECTRIC ENERGY	
	1929	1919	1929	1919	1929	1919	1929	1919
All industries, total	1, 066, 606	1, 161, 415	16, 595	10, 717	280, 623	331, 627	111, 110	101, 812
Coal: Anthracite Bituminous	229, 967 574, 800			1, 558 2, 850	43, 367 106, 438	60, 172 142, 433	13, 928 38, 209	13, 306 37, 177
Metals: Copper Lead and zinc Gold and silver, lode Gold, placer Mercury Manganese Minor metals <sup>3</sup>	12,982	66, 390 75, 713 30, 708 23, 818 1, 914 828 1, 086 1, 690	1, 553 1, 654 694 2 15 6	422 1, 672 803 1, 237 133 8 149 8	43, 995 18, 561 18, 344 5, 933 590 464 140 1, 417	35, 803 27, 188 15, 718 17, 709 2, 245 403 448 884	15, 237 9, 940 7, 638 1, 875 605 209 71 408	14, 806 10, 295 5, 375 3, 050 1, 144 157 98 225
Stone: Limestone. Granite_ Basalt. Slate. Marble Sandstone. Miscolaneous 4	$\begin{array}{c} 30,188\\ 12,640\\ 4,408\\ 4,884\\ 3,292\\ 2,626\\ 2,406 \end{array}$	23, 926 8, 588 3, 991 3, 128 1, 452 4, 449	410 30 32 27 18 48 52	666 119 41 96 21 54	20, 736 3, 619 2, 202 662 554 983 1, 629	$10,968 \\ 2,593 \\ 2,031 \\ 632 \\ 552 \\ 1,664$	$\begin{array}{c} 8,402\\ 1,762\\ 1,040\\ 634\\ 546\\ 306\\ 446\end{array}$	4, 176 1, 005 720 417 224 848
O ther nonmetals: Abrasive materials <sup>2</sup>	$\begin{array}{c} 491\\ 287\\ 1, 256\\ 648\\ 527\\ 1, 112\\ 853\\ 2, 628\\ 466\\ 195\\ 221\\ 3, 304\\ 1, 677\\ 3, 483\\ 615\\ 301\end{array}$	$\begin{array}{c} 322\\ 92\\ 295\\ 760\\ 5,367\\ 254\\ 1,190\\ 541\\ 2,478\\ 652\\ 288\\ 48\\ 3,901\\ 106\\ 3,067\\ 835\\ 516\end{array}$	87 2 84 24 20 14 17 351 7 56 6 	$\begin{array}{c} 62\\ \hline 6\\ 10\\ 126\\ 12\\ 146\\ 0\\ 4\\ 51\\ 7\\ \hline 7\\ \hline 164\\ 2\\ 87\\ 53\\ 52\\ \end{array}$	$\begin{array}{c} 145\\ 36\\ 518\\ 105\\ 1, 49\\ 230\\ 626\\ 425\\ 705\\ 252\\ 65\\ 43\\ 1, 543\\ 614\\ 3, 340\\ 531\\ 108\end{array}$	$\begin{array}{c} 116\\ 47\\ 376\\ 230\\ 1,41\\ 08\\ 634\\ 338\\ 1,530\\ 332\\ 108\\ 11\\ 2,108\\ 11\\ 2,108\\ 88\\ 2,008\\ 345\\ 200\end{array}$	$\begin{array}{c} 04\\ 30\\ 177\\ 133\\ 760\\ 83\\ 177\\ 421\\ 288\\ 36\\ 23\\ 1,983\\ 283\\ 4,474\\ 128\\ 88\end{array}$	$\begin{array}{c} 56\\ 5\\ 25\\ 70\\ 453\\ 33\\ 103\\ 300\\ 200\\ 23\\ 7\\ 1,810\\ 22\\ 22\\ 2,986\\ 150\\ 155\end{array}$

<sup>3</sup> See Table 9. <sup>4</sup> For 1919, included in figures for other stone industries (principally basalt and sandstone).

prises         for bits         for bits         Amount         distri-bution           Anthracite         198         903         142,801         \$229,967,059         \$384,854,300         100.0           Bituminous coal         198         303         142,801         \$229,067,059         \$384,854,300         100.0           Pennsylvania         198         303         142,801         \$229,067,059         \$384,854,300         100.0           Pennsylvania         4,976         5,620         458,732         574,800,072         966,693,771         100.0           Pennsylvania         1,151         1,387         121,000         157,730,207         202,456,657         27.1           West Virginia         384         401         49,817         68,693,070         202,456,657         27.1           Mestrucky         434         500         24,483,800         601,65,066         95,647,018         9.0           Alabama         157         180         24,481,800         36,916,271         3.8           Indiana         222         235         12,800         18,61,830         36,916,271         3.8           Indiana         222         235         12,800         16,118,64,633         1,61,963		NT.	rr , ou r	020			
INDUSTRY AND STATE         Def of prisos (numrica)         Unres (numrica) (numrica)         Unres (numrica) (numrica)         Wages (nor the year)         Wages (nor the year)         A moult (numrica)         Per cont (numrica)           Anthrachte.         108         303         142, 501         \$\$\$299, 977, 059         \$\$\$354, 554, 500         100.0           Pennsylvania.         108         303         142, 501         \$\$\$299, 977, 059         \$\$\$\$48, 554, 500         100.0           Pennsylvania.         1161         1, 151         1, 287         121, 000         167, 730, 307         202, 456, 667         271.1           West Virginia.         556         561         247, 762, 902         271.1         100.0         166         530         124, 700         167, 730, 307         202, 456, 667         217.1         100.00           Pennsylvania.         1151         1, 287         121, 700         167, 730, 307         202, 456, 667         217.1         100.00           Mest Virginia.         756         561         247, 730         244, 448, 803         361, 910, 717.2         217.1         100.00         167, 730, 200.02         222, 456, 677         11.1         100.02         21, 553, 577         11.1         100.02         11.1         11.1         11.1         11.1<		Num-	Num-	Wago		VALUE OF P	RODUCTS
Pennsylvania         108         303         142, 501         220, 007, 029         384, 864, 300         100.0           Bituminous coal         4, 976         5, 620         458, 738         574, 600, 072         986, 663, 771         100.0           Pennsylvania         1, 151         1, 857         121, 000         167, 750, 207         202, 466, 667         271, 702         100.0           Mest Virginia         384         401         40, 817         66, 922, 106         114, 617, 701         11.6         0.66, 867, 018         66, 667, 018         66, 667, 018         66, 667, 018         66, 667, 018         66, 667, 018         66, 667, 018         66, 667, 018         66, 667, 018         66, 667, 018         66, 667, 018         66, 668, 018         66, 668, 018         66, 668, 018         66, 668, 018         66, 668, 018         66, 668, 018         66, 668, 018         66, 668, 018         66, 668, 018         66, 668, 018         66, 668, 018         66, 668, 018         66, 668, 018         66, 668, 018         66, 668, 018         66, 668, 018         66, 668, 018         114, 113, 689         114         107         113, 145, 128, 143         107         113, 145, 128, 144         107         113, 145, 128, 144         107         114         114         114         117, 113, 680, 614         016, 177,	INDUSTRY AND STATE	ber of enter-	mines or	for the	Wages	Amount	
Bituminous ceal         4, 976         5, 620         455, 732         574, 800, 072         966, 663, 771         100, 0           Yunsylvanja         1, 161         1, 287         121, 000         157, 730, 007         282, 466, 687         27, 17         62, 667         27, 17         62, 667         27, 17         62, 667         27, 17         62, 667         27, 17         62, 667         27, 162, 667         67, 700, 107         16, 676         666         66, 616         66, 167, 670         16, 676         666         66, 616         66, 616         66, 616         66, 616         66, 616         66, 616         66, 616         66, 616         66, 616         66, 616         66, 616, 617, 700         16, 606         66, 616, 617, 700         16, 606         66, 616, 610, 660         26, 646, 617         36, 666         66, 616, 610, 660         26, 646, 617         16, 700, 660         26, 646, 617         17, 812, 610         28, 246, 617         12, 800         18, 101, 860         16, 706, 860         26, 616, 610, 610, 610, 610, 610, 610, 61	Anthracite	198	303	142, 801	\$229, 987, 059	\$984, 864, 900	100. 0
Pennsylvania         1         161         1,887         121,000         167,730,207         202,466,667         27.1           West Virginia         684         401         40,817         105,300         217,123,300,000         217,123,300,000         217,123,300,000         217,123,300,000         217,123,300,000         217,11         114,617,700         114,617,700         114,617,700         114,617,700         114,617,700         114,617,700         114,617,700         114,617,700         114,617,700         114,617,700         114,617,700         114,617,700         114,617,700         114,617,700         114,617,700         114,617,700         114,617,713,60         114,617,700         114,617,700         114,617,700         114,617,700         114,617,700         114,617,700         114,617,700         114,617,700         114,617,700         114,617,700         114,500         114,500         114,500         114,500         114,500         114,500         114,500         114,500         114,500         114,500         114,500         114,500         114,500         114,523         114,523         114,523         114,523         114,523         114,523         114,523         114,530         114,530         114,530         114,530         114,530         114,530         114,530         114,530         114,530 </td <td>Pennsylvania</td> <td>198</td> <td>303</td> <td>142, 801</td> <td>229, 967, 059</td> <td>384, 854, 300</td> <td>100.0</td>	Pennsylvania	198	303	142, 801	229, 967, 059	384, 854, 300	100.0
Alboarna.       157       250       24, 721       24, 900, 802       35, 007, 821       34, 10         Ohio.       336       561       21, 300       18, 101, 260       24, 610       35, 007, 621       3, 25         Colorado.       1773       174       16, 403       21, 620, 407       3, 25         Virguina.       75       86       14, 603       8, 716, 660       713, 18, 832       1.4         Uponing.       36       40       5, 642       7, 820, 675       11, 582, 216       1.2         Oklahoma.       97       113       4, 716       6, 302, 401       11, 582, 716       16, 382       1.4         Oklahoma.       97       113       4, 716       6, 302, 401       10, 780, 770       1.1         Coppor.       148       180       44, 602       73, 199, 785       283, 617, 573       100.0         Arizona.       0       13       13       2, 008, 585       10, 53       100, 54, 545, 472       17, 71       17, 97         Mortana.       0       18       7, 534       9, 585, 542       10, 56, 547       40, 227, 577       100, 50         Mortana.       0       13       12, 008, 585, 100       70, 938, 542       90, 585, 548			5, 620	458, 732			100, 0
Arizona       63       68       15, 564       20, 947, 217       113, 060, 541       40. 2         Mantana       9       10       3, 160       54, 565, 417       40, 227, 983, 859       10, 5         Michigan       9       18       7, 834       9, 885, 398       10, 5       565, 417       40, 227, 983, 859       10, 5         Novada       13       13       20, 984       985, 398       10, 56       57, 854       100, 57, 855, 340       100, 57, 855, 340       100, 57, 855, 340       100, 57, 855, 340       100, 57, 856, 100, 678       100, 57, 856, 100, 678       100, 58, 422       125, 333, 630       21, 97, 714       6, 00, 00       11, 777, 714       6, 00, 77, 714       6, 00, 2, 2, 2       11, 777, 714       6, 00, 2, 2, 2       11, 777, 714       6, 00, 2, 2, 2       11, 777, 714       6, 00, 2, 2, 2       11, 777, 714       6, 00, 2, 2, 2       11, 105, 10, 33       5, 637, 402       11, 777, 714       6, 00, 2, 2, 2       11, 105, 10, 33       5, 637, 402       11, 777, 714       6, 00, 2, 2, 2       11, 106, 10, 33       10, 11, 405, 106, 43, 404, 509       2, 2, 300       39, 188, 894       117, 957, 784       100, 0       0, 00, 0       2, 00, 10, 05, 10, 33       10, 00, 05, 10, 33       10, 00, 05, 10, 33       10, 11, 42, 640, 01, 33, 112, 64, 40, 012, 306, 112, 60, 48, 40, 602, 305, 112, 60, 48, 40, 602, 707	AiBoana Ohio Indiana Colorado Virginia Wyoming Utab		$\begin{array}{r} 401 \\ 500 \\ 180 \\ 561 \\ 235 \\ 176 \\ 88 \\ 50 \\ 40 \\ 172 \end{array}$	54,904 24,781 21,739 12,860 10,420 11,956 4,693 3,452	$\begin{array}{c} 23,000,802\\ 24,440,839\\ 18,101,859\\ 15,700,860\\ 11,846,453\\ 8,716,950\\ 6,635,673\end{array}$	38, 504, 531 36, 916, 271 31, 501, 930 26, 553, 407 21, 162, 036 17, 118, 580 13, 145, 832	$\begin{array}{c} 27.1\\ 22.5\\ 11.9\\ 9.9\\ 4.0\\ 3.8\\ 3.3\\ 2.7\\ 2.2\\ 1.8\\ 1.4\\ 1.2\\ 1.1\end{array}$
Michigan         9         18         7, 834         0, 835, 442         29, 683, 843         10. 5           Nova Maxico         14         14         2, 258         3, 400, 479         13, 233, 420         4, 7           Iron ore         160         208         28, 516         40, 905, 190         197, 834, 648         100, 0           Minnesota         75         85         10, 078         10, 038, 428         125, 333, 630         631, 65           Michigan         40         57         8, 604         13, 040, 650         43, 104, 033         21: 9           Pennsylvania         4         5         680         968, 947         4, 515, 586         2, 3           Wisconsin         3         648         1, 405, 106         4, 849, 809         2, 2           Limestone         1, 107         1, 266         32, 300         39, 188, 964         117, 257, 784         100, 0           Pennsylvania         201         213         6, 048         7, 783, 473         19, 124, 040         16, 3           Indiana         10         114         2, 666         3, 406, 370         12, 247, 106         10, 4           Ohio         10         114         2, 666         3, 400, 770		148	180		73, 199, 785	283, 517, 373	100.0
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Michigan	7 9 13 14	20 10 18 13 14	$     \begin{array}{r}       10, 508 \\       3, 160 \\       7, 834 \\       2, 698 \\       2, 258 \\     \end{array} $	9, 838, 442 4, 885, 398 3, 409, 479	29, 683, 859 19, 984, 910 13, 293, 420	7.0 4.7
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Iron ore						
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Michigan Alabama Pennsylvania	49 13 4	57 18 5	8, 804 5, 336 680	13, 049, 059 5, 037, 402 958, 847	43, 104, 938 11, 777, 914 4, 515, 586	21,9 6,0 2,3
Incliana       01       116       2, 881       4, 032, 335       12, 247, 166       10, 31         New York       110       114       2, 660       3, 400, 670       12, 921, 12, 901, 055       10, 3         New York       60       73       1, 998       3, 111, 408       11, 389, 087       9, 7         Michigan       14       16       1, 566       2, 308, 116       11, 050, 922       9, 4         Illinois       53       55       1, 449       2, 105, 707       7, 530, 131       6, 7         Missouri       73       79       2, 350       2, 433, 447       6, 175, 012       5.3         Sand and gravel       967       1, 165       15, 994       22, 770, 894       102, 811, 914       100, 0         New York       62       60       1, 330       2, 437, 200       11, 304, 630       11, 0         Pennsylyania       46       54       1, 208       1, 821, 815       11, 002, 056       10.8         California       68       9, 1, 153       1, 836, 622       7, 600, 188       7, 6         Michigan       57       08       1, 022, 1468, 203       7, 030, 380       6, 9         Ohio       73       84       1, 03 <td< td=""><td>Limestone</td><td>1, 167</td><td>1, 256</td><td>82, 300</td><td>39, 188, 364</td><td>117, 257, 784</td><td>100.0</td></td<>	Limestone	1, 167	1, 256	82, 300	39, 188, 364	117, 257, 784	100.0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Indiana.	$\begin{array}{c} 91 \\ 110 \\ 69 \\ 14 \\ 53 \\ 73 \end{array}$	$116 \\ 114 \\ 73 \\ 16 \\ 55 \\ 79 \\ 79 \\ 16 \\ 16 \\ 16 \\ 16 \\ 16 \\ 16 \\ 16 \\ 1$	2,881 2,660 1,998 1,566 1,649 2,350	4, 032, 336 8, 406, 676 3, 111, 408 2, 308, 116 2, 105, 707 2, 433, 447	$\begin{array}{c} 12, 247, 196\\ 12, 001, 055\\ 11, 389, 087\\ 11, 050, 922\\ 7, 830, 131\\ 6, 175, 012\\ \end{array}$	10, 4 10, 3 9, 7 9, 4 8, 7 5, 3
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	-	957	1, 165				
Lead         155         171         14,007         22,917,435         67,681,778         100.0           Missouri         13         15         3,773         5,600,650         22,065,417         34,0           Idaho         28         32         3,189         5,787,889         17,400,861         25.8           Utah         29         34         4,053         6,601,787         17,249,862         25.5           Zinc         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         9,012,331         22,1           Now Moxico         8         9         1,036         1,429,239         4,046,072         10,0	New York Pennsylvania California Michigan Ohio Illinois Texas	46 68 57 73 61	54 96 68 84 62	1, 208 1, 153 1, 022 1, 103 860	$\begin{array}{c}1,843,622\\1,468,293\\1,787,498\\1,399,045\end{array}$	11, 002, 656 7, 800, 188 7, 030, 380 6, 863, 579	10, 8 7, 6 6, 9 6, 7 5, 5
Idaho         28         32         3, 180         5, 787, 880         17, 400, 861         25, 8           Utah         29         34         4, 083         6, 601, 787         17, 240, 862         25, 5           Zino         148         204         11, 900         16, 274, 339         44, 866, 926         100, 0           Oklahoma         57         87         4, 117         5, 509, 272         10, 518, 953         36, 8           Kansas         30         45         2, 428         3, 140, 236         9, 012, 331         22, 1           Now Mexico         8         9         1, 036         1, 429, 239         4, 046, 072         10, 0		155	171	14, 007	22, 917, 435	67, 561, 778	100.0
Oklahoma         57         87         4, 117         5, 509, 272         10, 518, 953         36. 8           Kansas         30         45         2, 428         3, 140, 236         9, 012, 331         22. 1           Now Moxico         8         9         1, 036         1, 429, 239         4, 046, 072         0, 0	Míssouri Idaho Utah	28	32 (	3, 773 3, 180 4, 083	5, 909, 659 5, 787, 889 6, 691, 787	17, 400, 861	34.0 25.8 25.5
Kansas.         30         45         2,428         3,140,236         9,012,331         22,1           Now Moxico.         8         9         1,036         1,429,239         4,046,072         9,0	Zinc	148	204	11, 900	16, 274, 339	44, 866, 026	100. 0
9 10 2, 199 3, 482, 606 37, 126, 148 100. 0	Kansas	30	45	4, 117 2, 428 1, 036	3. 140. 236	16, 518, 953 9, 912, 331 4, 046, 072	22, 1
	Sulphur and pyrites	9	10	2, 199	3, 482, 606	37, 126, 148	100. 0

# TABLE 4.—PRODUCING ENTERPRISES—SUMMARY FOR LEADING INDUSTRIES AND STATES: 1929

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	Num-	Num- ber of	Wage earners		VALUE OF I	RODUCTS
INDUSTRY AND STATE	ber of entor- prises	nines or quarries	(average for the	Wages	Amount	Per cent distri- bution
Granite	406	434	10, 037	\$12, 639, 52	\$30, 381, 373	100. (
Massachusetts Vermont Minnesota North Carolina. Georgia Maine	38 24 25 67 28 30	39 25 37 67 30 30	1, 554 952 023 1, 396 1, 265 881	2, 624, 193 1, 303, 734 1, 230, 393 1, 298, 393 1, 033, 884 1, 188, 248	3. 213. 624	17.8 12.8 11.9 10.0 7.2 7.1
Gold, lode	174	184	5, 359	8, 655, 505	17, 850, 174	100.0
South Dakota Colorado California Nevada	2 44 58 81	2 53 58 32	1, 304 1, 497 1, 627 363	2, 269, 107 2, 418, 321 2, 483, 593 580, 196	6, 591, 144 4, 057, 060 3, 940, 925 1, 568, 698	37, 3 23, 0 22, 3 8, 9
Gold, placer	32	37	578	970, 010	3, 779, 241	100.0
California	22	27	491	839, 212	3, 469, 595	91.8
Basalt	137	144	3, 053	4, 498, 093	15, 543, 687	100, 0
New Jorsey Connectieut Pennsylvania Massachusetts	26 19 20 14	27 19 22 16		1, 104, 636 722, 983 716, 609 618, 783	$\begin{array}{c} 3,580,184\\ 2,924,085\\ 2,236,438\\ 2,191,366\end{array}$	23.0 18.8 14.4 14.1
Phosphate rock	26	- 33	3, 201	8, 303, 940	13, 043, 769	100, 0
Florida Tennessce	11 12	18 12	1, 936 1, 189	2, 180, 750 1, 010, 322	9, 714, 645 3, 128, 760	74.5 24.0
Clay	199	236	4, 139	9, 757, 998	10, 753, 445	100.0
Georgia Pennsylvania South Carolina Missouri New Jorsey Kentucky	9 31 9 21 17 9	11 34 10 29 19 11	797 555 514 314 328 210	$\begin{array}{c} 589, 340 \\ 575, 902 \\ 336, 500 \\ 320, 512 \\ 371, 311 \\ 153, 112 \end{array}$	2, 161, 812 1, 215, 882 950, 187 916, 532 801, 528 691, 682	$\begin{array}{c} 20,1\\ 11,3\\ 8,8\\ 8,5\\ 7,5\\ 6,4 \end{array}$
Slate	120	130	4, 098	4, 884, 038	10, 486, 390	100.0
Pennsylvania Vermont	33 58	33 67	1, 951 1, 303	2, 352, 559 1, 701, 192	4, 330, 001 3, 653, 796	41, 3     34, 8
Stone, miscellaneous	204	234	1, 841	2, 405, 906	8, 475, 008	100.0
California. Missouri Naw York. Pennsylvania.	40 19 15 30	64 19 15 30	491 267 96 168	802, 430 286, 938 139, 207 210, 360	3, 780, 013 628, 763 593, 407 568, 783	44.7 7.4 7.0 0.7
ilvor	67	74	2, 593	4, 326, 719	8, 457, 263	100.0
Utah Nevada Montana	11 14 12	11 14 14	939 610 292	1, 628, 964 1, 124, 830 500, 840	3, 305, 749 1, 803, 346 1, 030, 622	30. 1 22. 0 12. 2
farble	70	88	3, 350	3, 291, 541	7, 538, 905	100, 0
Tennessee Vermont Missouri Georgia Alabama	13 9 6 5 3	14 23 8 5 3	1, 377 658 299 286 358	$\begin{array}{c} 1,093,582\\785,579\\335,909\\234,623\\333,544\end{array}$	2, 287, 038 1, 820, 315 752, 978 749, 737 653, 940	30. 3 24. 3 10. 0 9. 9 8. 7
inor metals 1	26	80	1, 244	1, 508, 851	6, 649, 976	100.0
ndstone	145	172	2, 156	2, 626, 437	6, 311, 977	100. 0
Pennsylvania Ohio California New York	41 14 14 30	51 17 15 41	595 447 164 276	742, 273 520, 032 256, 562 348, 660	1, 615, 444 1, 186, 128 787, 680 680, 875	25.6 18.8 12.5 10.8

### TABLE 4.—PRODUCING ENTERPRISES—SUMMARY FOR LEADING INDUSTRIES AND STATES: 1929—Continued

1 Bouvite, 9 enterprises: molvbdenum, 2; titanium, 1; tungsten, 12; vanadium, 2.

# TABLE 5.—PREVAILING HOURS OF LABOR-NUMBER OF PRODUCING ENTER-PRISES AND NUMBER OF WAGE EARNERS, BY LEADING INDUSTRIES: 1929

[This table does not include data for 2,720 enterprises whose value of product was less than \$20,000 (such enterprises having been permitted to report on an abbreviated schedule which did not call for infor-mation pertaining to prevailing hours of labor), nor for 27 enterprises which employed no wage earners]

INDUSTRY AND PREVAILING HOURS OF LABOR PER WEEK	Num- ber of enter- prises	age for	INDUSTRY AND PREVAILING HOURS OF LABOR PER WEEK	Num- ber of enter- prises	(aver- age for
All industries, total	7, 388	792, 395	Sand and gravel, total	957	15, 994
Not reported. Under 25. 26 and over but under 36	59 297 32 331 3 124	91 10, 475 40, 457 5, 764 29, 203 3, 529 22, 977 528, 304 15, 969 128, 122 7, 324	Under 25.         25 and over but under 36.         36 and over but under 40.         40.         Ver 40 but under 44.         44 and over but under 44.         48.         Over 48 but under 54.         54 and over but under 63.         63 and over         Lead, total.	2 14 26 123 53 658 71	2 70 273 2 339 1, 273 484 11, 366 2, 189 13, 831
COAL:	198	140 001	25 and over but under 36	1	} 2 6, 634
Anthracite, total		142, 801	48 Over 48 but under 54	49 11	1 1.941
Under 25 25 and over but under 30	3 4	460 452	Over 48 but under 54 54 and over but under 63 63 and over	55 3	4, 793 463
40 . 44 and over but under 48	6 5	30 3, 186 138, 226	Zinc, total	138	11,861
48 Over 48 but under 54	151	138, 226	36 and over but under 40		
Over 48 but under 54. 54 and over but under 63	26	} + 436	Over 40 but under 44. 44 and over but under 48. Over 48 but under 54.	1	} <sup>2</sup> 550
		ľ	48. 54 and over but under 63.	66	5, 897
Bituminous, total	2,821	447, 125	54 and over but under 63 63 and over	58 8	5, 312 102
Under 25 25 and over but under 36 36 and over but under 40	$     \begin{array}{r}       111 \\       226 \\       46     \end{array} $	9, 911 39, 691 5, 587	Granite, total	308	9,806
10	221	[ 20,842 ]	Under 25 25 and over but under 36	4 1	2 44
Over 40 but under 44. 44 and over but under 48	19 89	3,075 11,514	36 and over but under 40 Over 40 but under 44	4	3 297
48 Over 48 hut under 54	$1,941 \\ 27$	320, 718 3, 672	40 44 and over but under 48	17	595
Over 48 but under 54	138 3	25, 755 300	1 48	110 75	4,239 2,326
		(	Over 48 but under 54 54 and over but under 63	22 73	671 1, 834
Copper, total	101	44, 284	Gold, lode, total	118	· ·
25 and over but under 36 14 and over but under 48	$\frac{1}{1}$	2 1, 255	Under 25.	110	5,079
Over 48 but under 54	Ĝ		48	47	\$ 1,971
18. 34 and over but under 63	$\frac{41}{52}$	24,416 18,563	48 Over 48 but under 54 54 and over but under 63	5 59	326 } 2,782
Limestone, total	1 018	81, 578	63 and over	1	f - 2, 104
Under 25.	1	)	Clay, total	197	4, 139
25 and over but under 36		2 118 °	Under 25 25 and over but under 36	2	] 278
in i	12	450	30 and over but under 40	3 1	Į
Over 40 but under 44 4 and over but under 48	$\frac{2}{21}$	2 307 <sup>2</sup>	40 Over 40 but under 44	$\frac{3}{1}$	2 98 <sup>2</sup> 98
	127 98	4,652	44 and over but under 48.	12 78	281 744
Over 48 but under 54 4 and over but under 63	724	2, 891 22, 161 999	Over 48 but under 54	20 67	311 1,710
3 and over	25 180	28, 516	63 and over	10	917
Not reported 1	180	)	Slate, total	100	4, 027
a (	4	2 424	Not reported	12	91
) ver 40 but under 44 4 and over but under 48	15	974	Not reported 40 44 and over but under 48	$\frac{2}{12}$	2 925
	87 6	15, 103 367	48	4 51	52 2,028
Over 48 but under 54 4 and over but under 63	m / 1	211, 648	Over 48 but under 54	17	2,020
3 and over	2	1. 11, 010	63 and over	2	)

<sup>1</sup> Data for 1 small iron-ore enterprise for which the number of hours was not reported, included in the all-industry summary with industries operating 40 hours per week to avoid disclosure of figures for this enterprise. <sup>2</sup> Combined to avoid disclosing, exactly or approximately, data reported by individual enterprises.

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TABLE 5.—PREVAILING HOURS OF LABOR—NUMBER OF PRODUCING ENTER-PRISES AND NUMBER OF WAGE EARNERS, BY LEADING INDUSTRIES: 1929— Continued

INDUSTRY AND PREVAILING HOURS OF LABOR PER WEEK	Num- ber of enter- prises		INDUSTRY AND PREVAILING HOURS OF LABOR PER WEEK	Num- ber of enter- prises	(aver- age for
Marble, total	63	3, 308	Silver, total	50	2, 451
25 and over but under 38	5 10 7 38 1 28 4 4	$\left. \begin{array}{c} 2 217 \\ 94 \\ 584 \\ 2 2, 413 \\ 3, 201 \\ \hline 434 \\ 3 193 \\ 3 2, 574 \end{array} \right.$	Under 25	1 11 36 2 60 1 2 3 1 20 3 28 28 2	<pre> } 2 90 } 2 90 } 2 2,361 2,078 } 2 89 } 2 180 650 104 } 2 1,055</pre>
Basalt, total	127 3 1 1 26 9 82 5	3,016 2 127 400 73 2,310 91	Sandstone, total Under 25 40	$   \begin{array}{r}     123 \\     1 \\     4 \\     1 \\     14 \\     28 \\     7 \\     66 \\     2   \end{array} $	2,068 2 137 344 309 71 2 1,107

<sup>2</sup> Combined to avoid disclosing, exactly or approximately, data reported by individual enterprises.

# TABLE 6.-WAGE EARNERS IN PRODUCING ENTERPRISES, BY MONTHS AND BY INDUSTRIES: 1929

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

	A verage number em-	ber NEAREST REPRESENTATIVE DAY									
INDUSTRY	ployed during year	Janu- ary	Febru- ary	March	April	May	Juna				
ALL INDUSTRIES, TOTAL	806, 418	811, 140	813,080	800, 827	800, 310	790,989	783, 466				
COAL: Apthracito	142, 801 458, 732 44, 602 28, 516 5, 853 2, 593 5, 573 3, 578 3, 578 3, 578 3, 578 3, 578 3, 578 3, 500 2, 166 2, 166 2, 166 1, 123 3, 844 4, 139 508	161, 783 479, 103 47, 875 47, 875 45, 649 13, 825 11, 063 5, 133 2, 552 885 887 1, 110 24, 507 8, 406 2, 062 4, 195 3, 246 1, 313 2, 328 3, 246 1, 313 2, 338 1, 338 3, 349 201 861 881 4, 024 573	147, 181 482, 506 43, 023 20, 114 43, 482, 506 43, 023 20, 114 43, 480 43, 023 445 44, 002 345 45, 457 8, 457 4, 207 4, 2	130, 408 474, 797 45, 503 26, 533 13, 700 11, 950 5, 198 2, 525 565 2, 525 804 346 1, 133 20, 200 9, 407 2, 546 4, 268 3, 266 1, 657 4, 514 370 237 1, 577 1, 277 1, 277 4, 181 4, 669	$\begin{array}{c} 145,788\\ 444,051\\ 46,837\\ 28,030\\ 13,701\\ 12,540\\ 5,352\\ 2,553\\ 023\\ 936\\ 353\\ 1,156\\ 33,130\\ 13,181\\ 13,181\\ 3,181\\ 3,181\\ 3,181\\ 1,038\\ 3,328\\ 2,526\\ 1,729\\ 4,038\\ 4,028\\ 2,729\\ 441\\ 241\\ 1,302\\ 421\\ 547\\ 547\\ 547\\ 547\\ 547\\ 547\\ 547\\ 547$	144, 770 435, 012 46, 860 29, 850 29, 850 29, 857 370 2, 564 370 2, 564 370 1, 265 3, 457 3, 457 3, 443 2, 573 4, 177 4,	132, 153 132, 153 432, 522 44, 005 30, 278 30, 278 14, 203 14, 203 14, 203 14, 203 14, 203 14, 203 15, 588 1, 000 373 3, 539 3, 539 3, 539 3, 539 3, 539 4, 222 3, 421 2, 688 5, 539 4, 223 3, 421 1, 088 1, 2, 688 5, 539 4, 223 5, 539 5, 539				
Fluorspar Fuller's and filtering earths Gypsum Magnasito	$\begin{array}{c} 1, 1053\\ 001\\ 2, 078\\ 361\\ 220\\ 104\\ 3, 201\\ 1, 030\\ 1, 037\\ 15, 994\\ 1, 433\\ 2, 199\\ 550\\ 305\\ \end{array}$	1,080 988 2,070 184 120 3,142 1,035 532 12,547 1,300 1,986 522 \$60	1, 026 004 1, 952 2678 183 132 3, 220 1, 038 550 11, 630 1, 284 2, 022 518 288	1,080 881 2,035 278 230 141 3,172 1,038 760 13,854 1,354 1,354 1,354	$\begin{array}{c} 1,134\\ 020\\ 2,211\\ 330\\ 234\\ 161\\ 3,202\\ 1,061\\ 1,037\\ 16,710\\ 1,403\\ 2,648\\ 519\\ 204\\ 204\\ \end{array}$	$\begin{array}{c} 1,191\\ 1,003\\ 2,230\\ 250\\ 240\\ 175\\ 3,142\\ 1,050\\ 1,144\\ 1,050\\ 1,144\\ 17,077\\ 1,480\\ 2,460\\ 553\\ 316\\ \end{array}$	1, 100 923 2, 184 239 207 3, 184 1, 085 1, 288 18, 367 1, 490 2, 305 559 300				

Bauxife, molyhdenum, titznium, tangsteu, vanadium.
 Emery; garnet and industrial sapphires and diamonds; grinding pebbles and tube-mill lining; grindstones, olisiones, whetstones, soythestones, and rubbing stones; numice and volcanic ash (numboid).
 Diatomaceous earth, ganister, quartz, quartzite, silica rock, silica sand, siliceous mice schist, tripoli.
 Borates, cyanite, graphite, lithium minerals (amblygonite, lepidolite, and spoduniene), mineral pigments, tantalum, vermiculite.

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# TABLE 6.-WAGE EARNERS IN PRODUCING ENTERPRISES, BY MONTHS AND BY INDUSTRIES: 1929-Continued

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

	NUMBER		ed on 15ti Epresent		AONTII OR AY	NEÁREST	Per cent miui-
INDUSTRY	July	August	Septem- bor	Octo- ber	Novem- ber	Decem- ber	mum is of maxi- mum
All industries, total	782,356	805, 132	814, 566	827, 684	824, 005	808, 480	94. 5
COAL: Anthracito Bituminous	127, 103 436, 280	140, 835 445, 179	144, 195 455, 887	146, 303 468, 471	146, 792 474, 072	147, 241 470, 444	83. 7 89. 6
METALS: Copper Lead Gold, lode Gold, placer Mercury Manganese Minor metals 1	44,714 30,223 14,226 12,327 5,534 2,697 596 1,103 873 1,870	$\begin{array}{r} 43,776\\ 30,300\\ 14,370\\ 12,611\\ 5,402\\ 2,644\\ 586\\ 1,147\\ 350\\ 1,351 \end{array}$	$\begin{array}{c} 43,201\\ 20,984\\ 14,270\\ 12,386\\ 5,304\\ 2,652\\ 577\\ 1,177\\ 346\\ 1,320\\ \end{array}$	$\begin{array}{c} 44,456\\ 20,409\\ 14,101\\ 12,503\\ 5,437\\ 2,082\\ 574\\ 1,128\\ 352\\ 1,272\end{array}$	$\begin{array}{c} 44,924\\ 28,104\\ 14,253\\ 11,739\\ 5,340\\ 2,578\\ 680\\ 1,124\\ 356\\ 1,266\\ \end{array}$	42,468 26,016 13,986 9,865 5,382 2,448 577 1,004 353 1,273	90. 4 84. 7 93. 8 78. 2 92. 5 90. 8 87. 3 75. 2 87. 7 80. 7
STONE: Limestone Granite Basalt Slate Marble Sandstone Miscellaneous	$ \begin{array}{c} 11,028\\ 3,503\\ 4,048\\ 3,424\\ 2,662 \end{array} $	37, 071 11, 164 3, 545 4, 093 3, 528 2, 601 2, 274	35, 442 10, 780 3, 511 4, 093 3, 500 2, 552 2, 232	34, 722 10, 577 3, 374 4, 045 3, 410 2, 491 2, 180	$\begin{array}{r} 31,527\\9,873\\3,161\\3,912\\3,258\\2,078\\1,929\end{array}$	26, 621 8, 654 2, 631 3, 814 3, 137 1, 407 1, 456	66. 1 75. 3 58. 2 80. 4 88. 9 47. 9 50. 6
OTHER NONNETALS: Abrasive materials <sup>1</sup>	$\begin{array}{c} 194\\ 1,436\\ 888\\ 4,180\\ 681\\ 1,055\\ 1,044\\ 2,184\\ 407\\ 239\\ 107\\ 3,211\\ 1,023\\ 1,203\\ 1,203\\ 18,676\\ 1,543\\ 2,328\end{array}$	$\begin{array}{c} 522\\ 206\\ 1,483\\ 886\\ 4,157\\ 655\\ 1,102\\ 1,051\\ 2,239\\ 410\\ 99\\ 3,297\\ 1,034\\ 1,285\\ 16,677\\ 1,558\\ 2,347\\ 562\\ 327\end{array}$	$\begin{array}{c} 531\\ 1.74\\ 1,070\\ 866\\ 4,120\\ 503\\ 1,038\\ 1,012\\ 2,118\\ 403\\ 246\\ 193\\ 3,412\\ 1,040\\ 1,291\\ 1,040\\ 1,291\\ 1,502\\ 2,170\\ 8,368\\ 330\\ 330\\ \end{array}$	$\begin{array}{c} 520\\ 164\\ 941\\ 824\\ 824\\ 4, 597\\ 975\\ 976\\ 1, 023\\ 396\\ 2415\\ 1, 007\\ 1, 279\\ 1, 007\\ 1, 279\\ 1, 007\\ 1, 279\\ 1, 458\\ 2, 120\\ 587\\ 311\\ \end{array}$	$\begin{array}{c} 467\\ 165\\ 805\\ 700\\ 4, 187\\ 972\\ 1, 057\\ 1, 013\\ 3, 11\\ 247\\ 154\\ 3, 188\\ 1, 186\\ 1, 186\\ 1, 186\\ 1, 186\\ 1, 186\\ 2, 052\\ 674\\ 321\\ \end{array}$	$\begin{array}{c} 430\\ 163\\ 606\\ 606\\ 763\\ 763\\ 763\\ 763\\ 763\\ 763\\ 763\\ 76$	$\begin{array}{c} 65.7\\ 65.0\\ 40.9\\ 83.4\\ 94.7\\ 77.7\\ 73.0\\ 83.3\\ 75.6\\ 65.4\\ 70.0\\ 55.0\\ 90.1\\ 90.7\\ 41.2\\ 60.8\\ 82.4\\ 74.4\\ 88.1\\ 78.8\end{array}$

<sup>1</sup> Bauxite, molybdenum, titanium, tungsten, vanadium.
 <sup>2</sup> Emery; garnet and industrial sapphires and diamonds; grinding pebbles and tube-mill lining; grindstones, olistones, whetstones, soythestones, and rubbing stones; pumice and volcanic ash (pumicite).
 <sup>3</sup> Diatomaceous earth, ganister, quartz, quartzite, silica rock, silica sand, siliceous mica schist, tripoli.
 <sup>4</sup> Borates, cyanite, graphite, lithium minerals (amblygonite, lepidolite, and spodumeno), mineral pigments, tantalum, vermiculite.

## TABLE 7 .- 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]

and the second s	ca	ÁL.	1				RLECTRO	ENERGY
INDUSTRY	Anthra- cite	Bitumi- naus	Coira	Fuel oils	Gaso- line and kero- sone	Natural yas '	Pur- chased	Gener- ated by enter- prises reporting
All industries, total	Long tons 5, 223, 195	Short tons 8, 825, DD7		Thou- sand gallons 189, 985	Thou- sand gallons 16, 566	Million cu. jl. 25, 530	Thou- sand kwhrs. b, 382, 178	Thou- sand kwhrs. 2, 080, 812
Coel: Anthraoite. Bituminous. Copper. Icon ore. Lead. Zine. Gold, loide. Gold, placer. Limestone. Granite. Basalt. Phosphate rock. Sand and gravel. Sulphur and pyrites. Other industries.	$ \begin{array}{r}     134 \\     52, 448 \\     4, 760 \\     59, 783 \\     5 \\     44, 080 \\     5, 401 \\     1, 096 \\     3, 804 \\ \end{array} $	28, 893 4, 524, 467 1, 006, 821 804, 815 1731, 059 46, 859 119, 278 805, 238 75, 454 75, 454 75, 454 75, 934 71, 079 807, 588 650, 714	30, 301 7, 859 85, 953 382 15 208 4, 574 245 702 2 133 6, 522	37 712 89, 614 2, 300 971 2, 021 506 1, 449 527 24, 158 16, 911 6, 109 19, 491	92 755 421 507 108 262 136 4 3, 617 555 102 5, 812 20 3, 406	1 203 1 2 132 784 6 118 118 14 1295 23,073 969	470, 248 2, 044, 349 758, 119 375, 636 447, 702 196, 949 52, 428 67, 618 294, 931 56, 884 30, 746 109, 803 237, 879 2, 735 236, 251	476, 429 404, 541 734, 514 49, 735 50, 718 54, 746 56, 637 916 37, D57 943 50, 792 7, 505 55, 454 29, 135

<sup>4</sup> Figures include data for 111,000,000 onbic feet of manufactured gas consumed in industries as follows: Coal, bituminous, 56,000,000; iron ore, 2,000,000; sand and gravel, 53,000,000. \*Includes less than 1,000,000 cubic feet of manufactured gas.

TABLE	8.—CONSUMPTION	OF	FUEL	AND	ELECTRIC	ENERGY,	BY STATES;	1929
	· /		[See her	adnote,	Table 7]			

	0	одт. 		1	]	1	ELECTRIC	ENERGY
STATE	Anthra- cite	Bitumi- nous	Coke	Fuel oils	Gasa- line and kero- sene	Natural gas 1	Pur- chased	Gener- ated by enter- prises reporting
United States, total	Long tons 6, 223, 195	Shori tons 8, 825, 007	Shart tons 136,898	Thou- sand gallons 189, 985	Thou- sond gailons 10, 580	Million cu. ft. 25, 598	Thou- sand kwkrs. 5, 382, 178	Thou- sand kwhrs. 2,030, 812
Alabama Arizona California Colorado Plorida	77 7	295, 848 4, 124 2, 816 259, 954 36, 386	18, 480 357 63	160 87, 524 13, 102 133 26, 801	97 335 1,846 101 412	397 4	234, 765 132, 244 184, 572 93, 207 106, 917	49, 142 451, 024 2, 595 16, 587 52, 209
Illinois Indiana Kentueky Michigan Michigan		1, 180, 205 458, 842 541, 146 1, 002, 107 469, 807	750 2,004 28,280	725 102 224 1,040 465	772 311 325 780 435	102	184, 265 103, 570 175, 731 174, 004 107, 430	$\begin{array}{r} 41,557\\ 3,027\\ 55,829\\ 222,403\\ 4,421 \end{array}$
Missouri Montaaa Nevada New Mexico New York	110 7	245, 036 138, 104 114, 931 239, 643 128, 617	96 48 847 982	1,063 229 2,464 1,921 1,242	415 115 198 08 1, 260	11 	206, 835 317, 575 43, 231 16, 824 98, 350	71, 992 3, 515 77, 090 110, 852 7, 684
Ohio Ponnsylvania Texas Utah Weet Virginia Other States	903 38	380, 009 1, 307, 243 54, 082 100, 744 567, 467 1, 287, 396	405 22, 469 50 4, 942 56, 215	928 2, 329 12, 343 357 76 17, 197	861 1, 548 802 183 75 5, 687	20 100 123,258 123,258 13,549	125, 158 1, 279, 191 17, 009 468, 894 536, 108 777, 294	8, 172 600, 581 19, 402 661 113, 539 166, 239

<sup>1</sup> Figures include data for 111,000,000 cubic feet of manufactured gas, consumed in States as follows: Texas, 35,000,000; West Virgínia, 14,000,000; other States, 62,000,000.

· · · · · · · · · · · · · · · · · · ·									
	- 		PERS	ONS EN	GAGED	IN INDI	JSTRY	PRINCIPAL OF OPERA DEVELOP	TION AND
INDUSTRY	Num- ber of enter- prises	Num- ber of mines and quar- ries	Total (all classes)	Pro- prie- tors and firm mem-	of cor-		ago for the	Total	Salaries and wages Principal officers of
1999 - 19		 		bers	pora- tions <sup>1</sup>	ploy- ees 1	year)		corpora- tions 1
All industries, total	10, 135	11, 602	859, 346	4, 897	5, 800	42, 431	806, 418	Dollars 1,645,129,153	Dollars 24, 012, 277
COAL: Anthracite Bituminous METALS:	198 4, 976	4 303 5, 620	150, 494 482, 541	38 2, 983	163 2, 682	7, 492 18, 144	142, 801 458, 732	313, 400, 536 770, 236, 811	854, 016 9, 998, 679
Mierals: Copper Lead Zinc Gold, lode Silver Gold, placer Marganese Manganese Minor metals, total Bauxite Other <sup>6</sup>	155 148 174 67 32 40 19 20 9	180 208 171 204 184 74 37 40 21 30 11 10	48, 043 30, 707 15, 004 12, 799 5, 885 2, 838 680 1, 127 393 1, 419 679 740	76 9 53 25 89 25 18 10 4 1 3	$\begin{array}{c} 62\\ 22\\ 72\\ 74\\ 45\\ 22\\ 16\\ 11\\ 16\\ 7\\ 9\end{array}$	$\begin{array}{c} 3,403\\ 2,160\\ 872\\ 800\\ 372\\ 175\\ 68\\ 72\\ 24\\ 155\\ 69\\ 86\end{array}$	44, 502 28, 516 14, 007 11, 900 5, 353 2, 503 2, 503 578 1, 029 354 1, 244 602 642	$\begin{matrix} 145, 163, 728\\ 76, 097, 356\\ 41, 287, 387\\ 30, 503, 409\\ 15, 724, 187\\ 7, 499, 442\\ 2, 427, 001\\ 2, 381, 345\\ 606, 744\\ 4, 015, 174\\ 1, 189, 405\\ 2, 825, 769 \end{matrix}$	382,961 95,470 370,344 370,383 105,085 165,325 76,110 60,000 45,954 226,307 66,870 159,518
STONE: Limestono Granite Basalt Slate Marble Sandstone Miscellaneous	1,167408137120	1, 250 434 144 130 88 172 234	$\begin{array}{c} 35,582\\ 11,191\\ 3,439\\ 4,450\\ 3,594\\ 2,466\\ 2,244 \end{array}$	497 279 51 80 7 84 161	$ \begin{array}{r} 471\\229\\86\\83\\44\\51\\35\end{array} $	2, 314 646 249 183 193 175 207	32, 300 10, 037 3, 053 4, 098 3, 350 2, 150 1, 841	75. 033, 430 20, 047, 440 8, 080, 650 6, 017, 871 4, 988, 260 4, 581, 214 5, 008, 402	2, 334, 381 1, 100, 281 385, 429 209, 085 180, 859 190, 010 122, 500
OTHER NONMETALS: Abrasive materials 6 Asbestos Asphalt and bitumi-	30 11	36 11	533 211	8	12	51 16	$\frac{462}{195}$	904, 904 348, 580	68, 664
nous rock Barite Clay Feldspar Fluorspar Fuller's and filtering	$21 \\ 42 \\ 190 \\ 51 \\ 28$	$25 \\ 44 \\ 236 \\ 58 \\ 30$	1, 307 898 4, 560 695 1, 184	1 9 72 10 13	89 4 85 17 13	144 41 264 70 105	$1, 123 \\ 844 \\ 4, 139 \\ 598 \\ 1, 053$	2, 610, 666 1, 062, 721 6, 833, 353 1, 047, 663 2, 222, 333	286, 305 24, 800 274, 370 55, 370 02, 983
Gypsum Magnesite Mica	22 60 5 24	24 63 5 32	1,000 2,214 378 250	$\frac{2}{1}$	21 10 6 8	84 124 21 15	991 2, 078 351 220	2, 379, 008 4, 157, 610 1, 150, 652 354, 225	98, 537 31, 367 25, 900 31, 325
Millstones and pulp- stones	14 26 25 90 957 70 9 25	14 33 128 1, 165 73 10 28	194 3, 490 1, 125 1, 250 19, 915 1, 657 2, 505 632	3 2 19 249 8 1	9 5 60 968 22 8 23	18 282 70 140 2, 704 194 297 59	$164 \\ 3, 201 \\ 1, 030 \\ 1, 037 \\ 15, 094 \\ 1, 433 \\ 2, 109 \\ 550 \\ 104$	$\begin{array}{c} 384, 817\\ 7, 559, 204\\ 2, 808, 504\\ 2, 070, 458\\ 54, 678, 519\\ 3, 009, 537\\ 12, 261, 745\\ 1, 508, 062 \end{array}$	$\begin{array}{c} 30,800\\ 52,421\\ 117,110\\ 306,303\\ 4,827,487\\ 76,230\\ 90,300\\ 88,540\end{array}$
erals <sup>8</sup>	19	19	343		10	28	305	637, 983	18, 515

TABLE 9.-DETAILED STATISTICS, BY INDUSTRIES: 1929

See footnotes at end of table.

	1						
8	PRINCIPA	L EXPENSES O	F OPERATIO	N AND DEVE	LOPMENT(	continued	Ex- pendi-
INDUSTRY	Salaries an	d wages—Con		Cost of su chase	pplies, fuel d electric e	, and pur- nergy	tures for devel- op-
	Other salaried officers and em- ployees 1	Wage earners	Contract work	Supplies	Fuel	Purchased electric energy	ment (includ- ed in princi- pal ex- penses)
All industries, total	Dollars 97, 587, 563	Dollars 1, 091, 989, 848	Dollars 17, 056, 464	Dollars 293, 588, 383	Dollars 49, 145, 531	Dollars 71, 769, 087	Thou- sand dollars 76, 488
COAL: Anthracite Bituminous METALS:		220, 967, 059 574, 800, 072	6, 801, 808 1, 889, 627	43, 367, 491 106, 438, 396	7, 419, 721 7, 529, 305	6, 508, 527 30, 739, 381	7, 902 16, 646
Copper Lead Gold, lode Silver Gold, placer Marcury Manganese Minor motals, total.	$\begin{array}{c} 9,753,303\\ 5,042,814\\ 2,175,800\\ 2,127,881\\ 960,162\\ 442,103\\ 183,731\\ 159,708\\ 42,141\\ 371,018 \end{array}$	73, 199, 786 40, 905, 190 22, 917, 436 16, 274, 339 8, 655, 505 4, 326, 719 970, 010 1, 383, 603 392, 302 1, 506, 851	$\begin{array}{c} 2, 504, 008\\ 1, 553, 134\\ 1, 032, 085\\ 621, 478\\ 550, 148\\ 137, 070\\ 1, 708\\ 15, 202\\ 5, 824\\ 80, 490 \end{array}$	$\begin{array}{c} 43,095,395\\ 18,661,157\\ 10,877,787\\ 7,965,885\\ 4,112,480\\ 1,820,829\\ 690,173\\ 404,047\\ 130,510\\ 1,416,575\end{array}$	$\begin{array}{c} 9, 210, 052\\ 5, 332, 103\\ 080, 700\\ 855, 305\\ 436, 181\\ 121, 098\\ 1, 421\\ 229, 844\\ 32, 208\\ 108, 872 \end{array}$	$\begin{array}{c} 6,027,234\\ 4,007,488\\ 3,733,230\\ 2,369,198\\ 832,617\\ 484,798\\ 603,938\\ 68,851\\ 38,739\\ 208,071 \end{array}$	$\begin{array}{c} 22,151\\ 0,880\\ 5,660\\ 2,500\\ 3,739\\ 1,002\\ 76\\ 400\\ 40\\ 379\end{array}$
Bauxite Other 4	151, 805 219, 213	512, 606 994, 245	82, 243 4, 247	216, 234 1, 200, 341	121, 793 77, 079	37, 845 171, 126	13 306
STONE: Limestone Basalt Slate 2 <sup>24</sup> Marble Sandstone Miscellaneous	4, 854, 432 1, 481, 864 523, 604 410, 010 303, 384 331, 934 443, 123	$\begin{array}{c} 39, 188, 304 \\ 12, 639, 624 \\ 4, 498, 093 \\ 4, 884, 038 \\ 3, 201, 641 \\ 2, 626, 437 \\ 2, 405, 906 \end{array}$	418, 760 39, 273 31, 951 26, 574 18, 225 47, 505 52, 050	$\begin{array}{c} 20,735,780\\ 3,618,511\\ 2,201,847\\ 602,441\\ 553,619\\ 983,204\\ 1,628,968 \end{array}$	3, 606, 670 652, 642 388, 232 192, 247 156, 839 173, 252 188, 576	4, 795, 034 1, 109, 351 051, 404 441, 967 387, 793 222, 803 257, 213	1,459 1,003 231 134 298 270 223
OTHER NONMETALS: Abrasive materials <sup>1</sup> . Asbestos	98, 704 34, 280	491, 484 236, 789	37, 358 2, 000	144, 554 36, 201	56, 797 26, 756	7, 343 12, 560	67 93
Relation and intering	299, 258 76, 915 517, 605 128, 547 226, 934	1, 254, 835 648, 488 3, 757, 908 526, 896 1, 112, 322	84, 273 24, 484 20, 058 14, 240 10, 540	$517,712\\154,822\\1,493,092\\239,297\\626,500$	138, 500 57, 570 524, 782 21, 398 153, 448	38, 783 75, 686 244, 548 61, 909 23, 606	39 12 94 32 157
Gypsum Magnesite Mica	204, 380 275, 292 62, 301 26, 868	853, 228 2, 627, 733 465, 936 195, 142	350, 979 7, 004 85, 970	425, 011 794, 733 252, 178 65, 474	385, 350 130, 504 231, 375 17, 605	01, 577 284, 977 56, 992 17, 811	90 127 24 14
Millstones and pulp stones Phosphate rock Sand, glass Sand and gravel Silica ? Sulphur and pyrites. Tale and soapstone. Disculto rocke min	$\begin{array}{c} 66,406\\ 055,598\\ 160,560\\ 300,116\\ 5,918,757\\ 451,617\\ 864,698\\ 128,371 \end{array}$	$\begin{array}{r} 221, 318\\ 3, 303, 040\\ 1, 313, 503\\ 1, 200, 854\\ 22, 779, 984\\ 1, 677, 407\\ 3, 482, 606\\ 615, 355\end{array}$	20, 036 15, 000 121, 448 324, 718 3, 566 10, 269 16, 795	$\begin{array}{r} 42,841\\ 1,542,887\\ 675,203\\ 353,738\\ 11,016,672\\ 614,183\\ 3,330,850\\ 530,717\end{array}$	$\begin{array}{r} 3,700\\ 801,358\\ 282,405\\ 180,350\\ 3,989,503\\ 142,818\\ 4,433,427\\ 28,939\end{array}$	19, 692 1, 092, 004 304, 663 126, 643 4, 921, 398 139, 716 40, 586 99, 339	8 190 50 12 81 325 57
Miscellaneous min- erals <sup>8</sup>	02, 924	301, 197		167, 630	37, 060	50, 657	45

# TABLE 9.-DETAILED STATISTICS, BY INDUSTRIES: 1929-Continued

See footnotes at end of table.

TABLE 9.-DETAILED STATISTICS, BY INDUSTRIES: 1929-Continued

							· · · · · · · · · · · · · · · · · · ·	
	in and in the			MOVERS AN PUF		TRIC MOTOL ENERGY	IS DRI	VEN BY
	Value of	Machinery and other equip- ment pur-	-		Pr	ime mover	8	
INDUSTRY	products	chased during the year (total	Aggre- gate horse-	Total horse-	Stear	n engines		am tur- bines
Alexandro a constante a servição Alexandro Alexandro		cost)	power	of prime movers	Num- ber	Horse- power	Num ber	Horse- power
All industries, total_	Dollars 2,392,831,178	Dollars 84, 508, 448	7, 514, 843	22,743,025	14, 144	1, 737, 858	794	684, 878
COAL: Anthracite Bituminous METALS:	384, 854, 300 966, 693, 771	5, 579, 720 34, 947, 424	1, 041, 465 3, 124, 187	618, 042 721, 687	3, 286 4, 542	455, 327 544, 015	282 199	160, 424 145, 008
Markies Copper Icead Zinc Gold, lode Silver Gold, placer Marganese Manganese Minor metals, total Bauxite	44, 866, 026 17, 650, 174 8, 457, 263 3, 779, 241 2, 820, 166 1, 184, 561 6, 649, 976	$\begin{array}{c} 13,083,523\\ 3,593,941\\ 1,903,906\\ 1,847,978\\ 1,084,523\\ 423,704\\ 359,497\\ 618,185\\ 12,441\\ 239,253\\ 559\end{array}$	701, 791 498, 821 194, 380 163, 357 69, 829 28, 943 20, 280 5, 625 2, 342 13, 460	$\begin{array}{c} 366,863\\ 222,154\\ 38,234\\ 55,829\\ 31,486\\ 9,549\\ 589\\ 3,119\\ 177\\ 3,874\\ 104\end{array}$	326 845 43 33 80 12 16	156, 639 171, 232 7, 618 6, 019 7, 586 1, 109 389		189, 123 33, 017 19, 336 18, 252 4, 870 100
STONE: Limestone_ Granite_ Basalt_ Slate_ Marble_ Sandstone_ Miscellaneous_	4, 411, 084 117, 257, 784 30, 381, 373	95, 550 143, 703 5, 068, 756 655, 909 990, 467 206, 983 192, 776 130, 239 382, 895	5,711 7,758 535,466 108,217 63,881 33,817 30,198 28,935 28,627	2, 124 1, 750 198, 230 32, 144 18, 775 7, 941 6, 013 11, 370 9, 091	3 2 1, 310 500 143 158 71 128 130	$\begin{array}{r} 350\\ 250\\ 110, 561\\ 28, 332\\ 11, 407\\ 7, 289\\ 3, 365\\ 8, 909\\ 4, 776\\ \end{array}$	32 10 1 22 3	51, 387 1, 245 205 1, 425 225
OTHER NONMETALS: Abrasive materials <sup>4</sup> _Asbestos Asphalt and bitumi- nous rock Buita	$\substack{1,\ 411,\ 284\\397,\ 482}$	26, 692 89, 257	3, 828 2, 114	2, 927 095	36 3	1, 341 257		
nous rock Barite Clay Feldspar Fulorspar Fulorspar Fulorspar fulies's and filtering earths	5, 123, 836 1, 801, 314 10, 753, 445 1, 935, 335 2, 858, 344	182, 214 154, 065 458, 753 28, 100 139, 664	13, 109 6, 066 31, 877 6, 543 6, 513	10, 177 2, 608 20, 837 2, 531 6, 182	68 18 120 10 46	$5, 162 \\ 598 \\ 9, 923 \\ 1, 170 \\ 5, 477$	5	4, 989
Magnesite Mica Millstones and pulp-	4, 811, 629 5, 740, 188 2, 043, 905 516, 305	$\begin{array}{c} 98,012\\ 577,540\\ 44,236\\ 6,406\end{array}$	8, 221 26, 498 3, 197 1, 721	6, 775 5, 348 220 732	22 10 3 4	2, 725 1, 599 170 165	3	1, 400
Stories Phosphate rock Sand, glass Sand, molding Sand and gravel Silica 7 Sulphur and pyrites Tale and soupstone Miscellaneous num-	$\begin{array}{c} 620, 835\\ 13, 043, 769\\ 5, 359, 216\\ 4, 775, 957\\ 102, 311, 914\\ 4, 645, 142\\ 37, 126, 148\\ 2, 687, 953\end{array}$	$\begin{array}{c} 11, 130\\ 805, 128\\ 433, 067\\ 355, 514\\ 7, 173, 766\\ 266, 868\\ 1, 633, 726\\ 35, 309\end{array}$	$\begin{array}{c} 2, 517 \\ 104, 146 \\ 18, 215 \\ 14, 792 \\ 516, 745 \\ 11, 771 \\ 33, 932 \\ 10, 530 \end{array}$	614 46, 518 2, 193 7, 603 281, 097 4, 515 31, 643 3, 937	11 08 14 75 1, 653 32 291 11	$\begin{array}{r} 364\\7,370\\805\\4,038\\158,150\\2,312\\14,324\\535\end{array}$	15 3 2 10 40 5	37, 208 270 90 740 15, 424 20
erals <sup>8</sup>	3, 502, 876	66, 719	3, 978	610	0	540	••••	· · · · · · · · · ·

See footnotes at end of table.

TABLE 9.-DETAILED STATISTICS, BY INDUSTRIES: 1929-Continued

				ELECTRI ENERGY		s driven 106d		IC MOTORS			
	Prin	18 mover	s—Cor	tinued	Electr	ic motors	ENERG ATED B	Y DEN BY Y GENER- Y ENTER- REPORT-		CTRIC RATORS	
INDUSTRY	com	ernal- bustion gines	and	r wheels water bines		by pur- lenergy		NG			
	Num- ber	Horse- power	Num- bor	Horse- power	Num- ber	Horse- power	Num- ber	Horse- power	Num- ber	Kilo- watts	
All industries, total	4, 421	274, 208	125	46, 081	123, 811	4, 771, 818	34, 024	1, 352, 981	1, 609	¥ 736,480	
COAL: Anthracite Bituminous METALS:	98 425	2, 291 28, 004	5	4,660	6, 598 66, 581	423, 423 2, 402, 500	9, 917 14, 379	404, 164 420, 970	139 973	128, 395 271, 072	
Copper Iron ore Zinc Gold, lode Silver Gold, placer Mercury Manganese Minor metals, to	142 46 84 263 63 50 	19, 726 4, 005 7, 813 30, 758 4, 309 8, 080 3, 119 177	8 14 12 5 31 1 4	1, 375 13, 900 3, 467 800 14, 721 200 200	8,038 5,266 4,370 2,577 1,119 627 423 160 102	334, 928 276, 667 156, 146 107, 528 38, 343 19, 394 19, 691 2, 506 2, 165	4, 726 690 411 740 614 138 5 77	270, 205 40, 688 16, 422 17, 206 22, 211 2, 664 25 758	108 43 27 25 24 10 3 18	173, 765 41, 895 20, 703 10, 687 14, 472 2, 021 30 808	
tal Bauxite Other \$	21 8 13	2, 422 1, 762 660	7 2 5	852 12 840	430 125 305	9, 595 3, 587 6, 008	16 16	648 648	8 5 3	$1,452 \\ 1,075 \\ 377$	
STONE: Limostone Granite Basalt Salte Marble Sandstone Miscollaneous OTHER NONMETALS: Abrasive mate-	723 165 152 6 21 89 86	35, 233 6, 902 7, 308 331 1, 038 2, 236 4, 315	9 6 2 1 1	1,055 605 60 56 185	8,780 2,025 898 1,155 898 517 629	337, 230 76, 073 45, 106 25, 876 24, 185 17, 565 19, 436	429 221 8 3 6 12 6	20, 872 1, 776 350 75 172 294 113	$52 \\ 16 \\ 3 \\ 1 \\ 2 \\ 3 \\ 1 \\ 1$	16, 832 1, 412 92 100 45 142 75	
Abrasive mate- rials • Asbestos Asphalt and bitu-	38 16	1, 430 438	2	150	38 30	901 1,419	13 4	205 40	3 1	150 25	
minous rock Barite Clay Feldspar Flourspar Fuller's and filter-	74 36 178 47 56	5,015 1,950 5,745 986 705	1 2 1	150 180 375	67 96 718 150 23	2, 932 3, 368 11, 040 4, 012 331	59 8 85 26 120	3, 136 113 1, 011 381 2, 830	13 4 9 2 14	1, 785 185 862 350 2, 003	
ing earths Gypsum Magnesite Mica	31 43 3 14	2, 050 3, 719 50 482	<u>1</u> <u>3</u>	30 85	94 792 143 54	1, 440 21, 150 2, 977 989	171 107 6	2,000 1,930	8 12 1	1,376 1,233 125	
Millstones and pulpstones Phosphate rock Sand, glass Sand, molding Sand and gravel Silica '	5 9 24 78	250 1, 880 1, 118 2, 875 72, 207 2, 203			64 901 448 305 7, 732 476	1,90357,02811,0227,189285,6487,256	355 24 2 212 4	30, 966 716 40 6, 591 9	14 3 1 42 1	22, 722 360 25 3, 828 10	
Sulphur and pyri- tos Talc and soap-	36	1,895		0.077	108	2, 289	426 4	13, 528 750	18 1	8, 202 250	
stone Miscellaneous minerals <sup>8</sup>	17 3	407 70	.0 	2, 975	192 189	6, 593 8, 868	4		, 	2i)U	

Figures do not include data for salaried officers and employees of "Central Administrative" offices.

<sup>1</sup> Figures do not include data for salaried officers and employees of "Central Administrative" onces.
<sup>2</sup> Includes 208,826 horsepower reported for inactive prime movers.
<sup>3</sup> Includes 112,834 kilowatis reported for inactive generators.
<sup>4</sup> Collicries, 241; dredges, 42; washeries (culm-bank), 20.
<sup>5</sup> Molybenum, 2 enterprises; ittanium, 1; tungston, 12; vanadium, 2.
<sup>6</sup> 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 as h (pumicite), 7.
<sup>7</sup> Diatomaceous earth, 10 enterprises; ganister, 18; quartz, 0; quartzite, 2; silica rock, 6; silica sand, 14; siliceous mica schist, 6]; triboll, 8.
<sup>8</sup> Borates, 2 enterprises; cyanite, 2; graphite, 5; lithium minerals (amblygonite, lepidolite, and spodumene),4; mineral pigments, 4; tantalum, 1; vermiculite, 1.

			PER	SONS EN	IGAGED	IN INDU	STRY	PRINCIPAL I OF OPERAT DEVELO	NON AND
STATE	Num- ber of enter- prises	Num- ber of mines and quarries	Total (all classes)	Pro- prie- tors and firm mem- bers	Prin- cipal sal- aried ofli- cers of cor- pora- tions <sup>1</sup>	Other sal- aried officers and em- ploy- ees <sup>1</sup>	Wage earners (aver- age for the year)	Total	Salaries and wages Princi- pal offi- cers of corpora- tions 1
United States	10, 135	11,602	859, 346	4, 897	5, 600	42, 431	806,418	Dollars 1,645,129,153	Dollars 24, 012, 277
Alabama Arizona Arkansas California Colorado	222 133 128 367 314	255 138 137 441 343	33, 781 18, 134 5, 453 9, 323 15, 567	$ \begin{array}{r}     46 \\     68 \\     72 \\     157 \\     142 \end{array} $	148 18 99 160 136	1, 009 1, 481 252 958 727	31, 978 16, 507 5, 030 8, 048 14, 562	$\begin{array}{r} 40,183,907\\ 50,610,600\\ 7,537,064\\ 24,043,747\\ 33,565,310\end{array}$	744, 905 102, 725 331, 301 008, 608 610, 795
Connecticut. Delaware and Dis- trict of Columbia Florida. Georgia. Idaho	52 66 79 60	53 74 86 65	951 119 3, 583 4, 032 4, 505	19 16 31 22	28 46 67 30	88 10 348 207 227	816 104 3, 173 3, 727 4, 226	2, 103, 870 105, 348 8, 040, 664 5, 758, 404 12, 710, 864	128, 584 15, 081 210, 389 247, 852 123, 597
Illinois Indiana Iowa Kansas Kentucky		562 452 247 292 629	56, 302 18, 279 7, 812 7, 938 61, 241	303 295 190 249 210	349 173 115 75 480	2, 302 1, 069 343 317 2, 783	53, 378 16, 742 7, 164 7, 207 57, 818	$\begin{array}{c} 100,033,397\\ 34,440,044\\ 12,904,569\\ 14,603,926\\ 85,548,856 \end{array}$	$1,843,131\\806,517\\396,590\\205,081\\1,574,537$
Louisiana and Missis- sippi Mangand Maryland Massachusetts Michigan	198	34 56 130 104 191	927 1, 284 4, 978 2, 740 22, 287	29 45 46 24	42 21 84 66 104	82 64 271 209 1, 330	801 1, 170 4, 578 2, 419 20, 829	2, 116, 089 2, 218, 699 8, 655, 736 6, 578, 013 55, 501, 580	153, 700 77, 527 307, 101 328, 037 042, 478
Minnesota Missouri Montana Nebraska Nevada	146 408 145 24 104	172 439 173 48 107	12, 918 14, 689 15, 505 351 5, 281	27 241 80 4 55	09 181 48 12 55	1, 209 849 804 56 455	11, 613 13, 418 14, 627 270 4, 716	$\begin{array}{c} 37,000,341\\ 27,870,482\\ 30,806,811\\ 1,008,213\\ 10,824,017 \end{array}$	342, 407 524, 903 174, 597 70, 900 273, 980
New Hampshire New Jersey New Mexico New York North Carolina	36 117 69 261 118	39 138 89 298 129	643 4, 222 7, 522 7, 213 2, 843	19 20 35 89 77	14 110 17 166 45	41 450 484 526 155	509 3, 630 6, 986 6, 432 2, 566	$\begin{array}{c} 1,176,817\\ 10,128,201\\ 17,610,118\\ 20,163,410\\ 4,308,281 \end{array}$	$\begin{array}{r} 31,055\\306,727\\02,045\\1,273,458\\186,187\end{array}$
Ohio Oklahoma Oregon Pennsylvania Rhode Island	801 217 62 1, 814 14	864 281 65 4 2, 196 14	28, 846 11, 019 905 290, 787 301	503 60 29 913 11	200 124 22 913 12	902 550 78 12, 469 22	27, 001 10, 270 770 276, 402 256	45, 116, 584 23, 420, 418 2, 187, 046 551, 430, 423 074, 248	$\begin{array}{c}1,085,804\\740,910\\70,140\\3,026,953\\33,530\end{array}$
South Carolina South Dakota and North Dakota Tennessee Texas Utah	33 154 160 133 120	35 154 189 159 135	1, 423 2, 868 12, 848 7, 879 13, 098	7 126 51 46 29	27 21 110 127 87	01 160 742 662 800	1, 208 2, 552 11, 936 6, 544 12, 176	1, 951, 623 6, 571, 544 17, 410, 137 20, 670, 883 43, 674, 950	107, 160 84, 570 603, 680 570, 001 544, 323
Vermont Virginia Washington West Virginia Wisconsin Wyoming	105 190 103 740 147 56	129 208 121 891 161 73	$\begin{array}{c} 3,466\\ 16,091\\ 4,110\\ 106,747\\ 3,333\\ 5,552 \end{array}$	74 59 33 169 42 24	54 118 50 581 101 21	184 052 200 4, 575 283 225	3, 154 15, 202 3, 818 101, 422 2, 007 5, 282	$\begin{array}{c} 6, 294, 280\\ 22, 276, 090\\ 8, 841, 422\\ 176, 176, 036\\ 7, 827, 897\\ 13, 216, 206\end{array}$	312, 796 452, 472 107, 420 2, 294, 709 833, 941 86, 023

## TABLE 10.—PRODUCING ENTERPRISES—GENERAL STATISTICS IN DETAIL, BY STATES: 1929

<sup>1</sup> Figures do not include data for salaried officers and employees of "Central Administrative" offices.
<sup>4</sup> Includes 20 anthracite-culm washeries and 42 river dredges.

المركز المركز المركز المركز							
	PRINCIPAL	. EXPENSES OF	<b>OPERATION</b>	AND DEVELO	PMENT-00	ntinued	Expend- itures
STATE	Salaries a con	nd wages— tinued	i ,	Cost of sup chased	plies, fuel, electric en	and pur- ergy	for de- velop- ment (in-
	Other sal- aried oili- cers and employees <sup>1</sup>	Wage earn- ors	Contract   work	Supplies	Fuel	Purchased electric energy	cluded in princi- pal ex- penses)
United States	Dollars 97, 587, 563		Dollars 17, 056, 484	Dollars 293, 568, 383	Dollars 49, 145, 531	Dollars 71, 769, 087	Thou- sand dollars 78,488
Alabama Arizona Arkansas California Colorado	$\begin{array}{c} 3,176,770\\ 3,930,453\\ 478,189\\ 2,340,099\\ 1,695,093 \end{array}$	30, 938, 008 28, 290, 779 4, 917, 309 12, 270, 081 22, 374, 765	$\begin{array}{r} 95,072\\ 1,152,201\\ 106,600\\ 534,593\\ 530,454\end{array}$	8, 341, 394 17, 434, 645 1, 089, 489 6, 312, 482 5, 970, 812	760, 172 4, 145, 087 276, 480 768, 862 717, 083	2, 118, 646 1, 560, 776 337, 690 2, 048, 962 1, 659, 708	1,656 9,836 220 1,922 3,311
Connecticut Delaware and District	1	1, 307, 364	450	205, 285	120, 927	, 156, 051	44
Dolawaro and District of Columbia Florida Georgia Idaho	18, 270 770, 406 430, 544 545, 273	119, 704 3, 151, 530 2, 944, 216 7, 420, 255	27, 643 346, 259 124, 127	22, 403 1, 764, 720 974, 964 3, 486, 590	9, 040 963, 386 545, 873 166, 718	$10,870 \\ 1,146,590 \\ 268,786 \\ 844,304$	244 171 1,371
lllinois Indiana Iowa Kansas Kontucky	4, 808, 820 2, 206, 403 710, 580 761, 684	$\begin{array}{c} 73,777,064\\ 23,375,698\\ 0,317,398\\ 8,465,391\\ 62,788,640 \end{array}$	272, 685 113, 735 7, 641 214, 240 71, 736	$\begin{array}{c} 14,270,664\\ 5,144,408\\ 1,609,507\\ 3,553,429\\ 12,094,202 \end{array}$	2, 461, 224 860, 559 814, 449 360, 508 909, 957	3,409,809 1,878,634 542,404 1,072,993 3,095,216	2, 789 366 336 612 1, 643
Louisiana and Missis- sippi Maine Maryland Masschusotts Michigan	- 186,082 - 135,160 - 543,912 - 403,330	709, 803 1, 576, 518 4, 815, 704 4, 040, 320 28, 806, 325	5, 188 8, 160 397 20, 371 79, 057	515, 425 267, 117 2, 376, 924 1, 111, 884 15, 779, 147	205, 417 52, 538 276, 138 227, 440 4, 428, 842	281, 414 101, 673 335, 410 351, 519 2, 627, 471	1 67 115 137 5,039
Minesota Missouri Montana Nabraska Nevada		18, 180, 303 16, 326, 962 25, 807, 052 481, 368 8, 142, 634	$\begin{array}{c} 1,480,256\\ 136,808\\ 272,966\\ 5,490\\ 846,545 \end{array}$	9,454,474 5,836,202 8,144,794 179,096 5,274,219	2, 785, 705 843, 371 494, 086 35, 613 1, 071, 350	$\begin{array}{c} 1,873,823\\ 2,415,781\\ 1,929,386\\ 170,514\\ 592,172\end{array}$	4, 289
Now Hampshire Now Jersey Now Moxico New York North Carolina	79,693	772, 709 5, 400, 075 10, 118, 023 10, 029, 766 2, 303, 570	$\begin{array}{c} 6,288\\ 143,483\\ 116,882\\ 106,326\\ 678\end{array}$	1, 959, 779 4, 389, 541 5, 076, 105	46, 398 585, 428 1, 390, 622 917, 527 223, 206	1, 490, 649 212, 574	198
Ohio Oklahoma Oregon Ponnsylvania Rhode Island	$\begin{array}{c} 2, 105, 262 \\ 1, 193, 064 \\ 154, 632 \\ 30, 140, 203 \\ 30, 635 \end{array}$	$\begin{array}{c} 31,350,700\\ 13,616,561\\ 1,172,421\\ 403,057,768\\ 384,805\end{array}$	255,089	420, 572	11, 002, 011		13, 518
		1 000 000	7,950		1		
South Carolina South Dakota and North Dakota Tonnessoe Texas Utah	$\begin{array}{c c} & 480,025 \\ \hline & 1,434,404 \\ \hline & 1,020,100 \\ \hline & 2,108,045 \end{array}$	10, 915, 521	8,744 143,19 50,83 2,051,90	5 0,470,902	4, 978, 870 409, 92		711 545 7,742
Vermont	470, 632 1, 413, 581 467, 203 10, 135, 959 503, 187 544, 020	1.	27, 97 17, 08 21, 55	4 712,097 9 3,692,399 1 1,364,919 6 25,208,830 6 1,656,004	302, 22 360, 41 923, 31 267, 73	4 484,67 7 1,561,65 3 391,15 0 8,412,37 0 717,98 9 354,45	2 490

### TABLE 10.—PRODUCING ENTERPRISES—GENERAL STATISTICS IN DETAIL, BY STATES: 1929—Continued

120625-33-55

			PRIME	MOVERS AN PUR	D ELECT CHASED	RIC MOTOR ENERGY	S DRIV	EN BY
	Value of	Machinery and other equipment			Pr	lme movers	š	
STATE	products	purchased during the year (total cost)	Aggregate horse- power	horse-	Stear	n engines		um tur- bines
		-		power of prime movers	Num- ber	Horse- power	Num- bor	Horse- power
United States		Dollars 84, 508, 448	7, 514, 843	<sup>2</sup> 2,743,025	14, 144	1, 787, 858	794	684, 878
Alabama. Arizona Arkansas. California. Colorado.	54, 605, 658 116, 477, 536 11, 367, 754 38, 645, 889 41, 530, 446	1, 792, 511 7, 247, 585 618, 958 1, 787, 736 1, 796, 385	270, 615 202, 428 37, 624 155, 879 118, 330	54, 934 154, 894 14, 399 26, 306 32, 054	284 97 131 146 211	36, 595 30, 373 10, 752 9, 839 21, 336	9 17 1 16	14, 450 104, 943 20 7, 755
	4, 193, 403	252, 112	13, 622	3, 816	60	2,995		
Connecticut Delaware and District of Columbia Florida Georgia Idaho	268, 100 14, 014, 933 9, 611, 219 20, 745, 615	765, 513 187, 744 893, 396	901 110, 291 35, 515 07, 295	311 51, 864 18, 292 9, 079	9 86 107 6	261 7, 530 6, 823 852	21 7 2	38, 008 8, 558 2, 000
lllinois Indiana Iowa Kansas Kentuoky	132, 948, 261 48, 992, 786 16, 910, 280 22, 463, 509 103, 849, 625	$\begin{array}{c} 8,239,736\\ 1,595,089\\ 423,601\\ 980,380\\ 3,031,321 \end{array}$	439, 462 188, 735 54, 902 76, 888 317, 973	184, 273 60, 982 17, 675 20, 561 79, 404	1, 040 584 388 224 514	141, 981 55, 981 15, 019 16, 569 53, 348	36 8 	31, 981 1, 130 30 20, 883
Louisiana and Mississippi. Maine Maryland Massachusetts Michigan		209, 442 54, 562 457, 887 600, 905 3, 244, 270	20, 756 12, 076 34, 006 33, 417 305, 723	$10, 123 \\ 3, 176 \\ 12, 900 \\ 12, 992 \\ 243, 270$	30 31 146 163 465	5, 101 2, 328 11, 114 6, 820 148, 671	1 4 2 34	276 150 200 74, 115
Minnesota Missouri Montana Nebraska Nevada	2, 139, 767 26, 658, 631	2, 610, 345 1, 677, 139 1, 333, 952 189, 542 2, 042, 221	208, 741 165, 368 204, 090 10, 732 73, 395	110, 805 57, 706 18, 832 2, 280 44, 013	617 405 100 18 32	104, 776 20, 211 14, 410 991 5, 818	21 7 2	2, 407 17, 336 800 24, 005
New Hampshire New Jorsey New Mexico New York North Carolina	1, 562, 387 15, 789, 610 27, 141, 764 36, 045, 204 5, 981, 239	47, 402 822, 577 1, 196, 013 1, 709, 964 126, 135	5, 455 68, 584 90, 961 145, 995 22, 348	2, 250 38, 138 73, 007 50, 113 10, 544	39 140 80 337 156	1, 870 14, 404 35, 908 38, 523 7, 949	5 02 5	14, 262 31, 835 179
Ohio Oklahoma Oregon Pennsylvania Rhode Island	60, 095, 705 33, 139, 080 3, 512, 125 694, 975, 148 809, 381	2, 201, 751 950, 411 144, 863 15, 801, 390 16, 751	228, 121 106, 345 12, 707 2, 189, 218 4, 237	83, 510 37, 507 5, 069 873, 046 1, 322	658 151 51 4, 856 14	60, 708 13, 900 2, 480 633, 489 525	4 2 <i>335</i> 9	4, 420 100 212, 304 450
South Carolina South Dakota and North	3, 092, 967	152, 768	18, 470	4, 059	41	2, 407		
South Carolina South Dakota and North Dakota Tennessee Texus Utah	10, 827, 367 24, 186, 449 49, 758, 382 83, 098, 020	111, 016 1, 101, 964 2, 531, 838 4, 063, 429	35, 969 86, 257 82, 914 180, 321	27, 612 30, 434 62, 278 5, 609	$106 \\ 240 \\ 512 \\ 38$	8, 741 21, 946 29, 166 4, 205	2 29 54	3, 600 5, 015 10, 600
Vermont Virginia Washington Wesconsin W yoming	10, 275, 907 29, 540, 524 13, 366, 919 223, 930, 754 13, 103, 414 18, 817, 945	340, 218 1, 143, 027 489, 583 *8, 271, 684 685, 133 518, 154	39, 906 111, 921 47, 702 670, 544 67, 240 50, 885	4, 995 15, 435 10, 351 107, 923 17, 669 28, 144	71 162 60 308 73	4, 524 12, 350 6, 311 67, 494 8, 297 17, 152	6 2 38 1	170 400 32, 110 4, 189
Wyoming	18, 817, 045	518, 154	50, 855	28, 144	78 52	17, 152	12	10, 170

TABLE 10.—PRODUCING ENTERPRISES—GENERAL STATISTICS IN DETAIL, BY STATES: 1929—Continued

<sup>2</sup> Includes 203,825 horsepower reported for inactive prime movers.

	PRIME	MOVERS PURCH	AND E	LECTRIC N NERGY-	torors d continue	RIVEN BY	ELECTR	C MOTORS		
	Prim	e mover	s—Con	tinued		c motors	DRIV ENER ERA	EN BY GY GEN- TED BY	ELECTRIC GENERATORS	
STATE	com	ernal oustion gines	Water wheels and water turbines		driven by purchased energy		ENTERPRISES Reporting			
	Num- ber	Horse- power	Num- ber	Horse- power	Num- ber	Horse- power	Num- ber	Horse- power	Num- ber	Kilo- watts
United States	4, 421	274, 208	125	46, 081	123, 811	4, 771, 818	34, 024	1, 352, 981	1, 609	3 738,489
Alabama Arizona Arkansas California Colorado	$     \begin{array}{r}       51 \\       171 \\       47 \\       297 \\       42     \end{array} $	3, 880 19, 578 3, 635 15, 066 1, 929	$\begin{array}{c} & 2 \\ 12 \\ 10 \end{array}$	12 <sup>.</sup> 1, 381 1, 034	4,459 1,320 881 3,901 2,793	$215,681 \\ 47,534 \\ 23,225 \\ 129,573 \\ 86,270$	177 2,840 56 589	12, 125 167, 436 965 18, 450	28 70 6 12 66	$\begin{array}{r} 16, 339 \\ 100, 153 \\ 1, 095 \\ 1, 226 \\ 11, 286 \end{array}$
Connecticut. Delaware and District	18	821			240	9, 806	14	211	2	135
of Columbia Fiorida Georgia Idaho	4 87 45 23	50 6, 246 2, 511 1, 789	1 $2$ $17$	80 400 4, 438	7 979 498 1, 792	590 58, 427 17, 223 58, 216	443 144 79	32, 126 2, 875 1, 390	$     \begin{array}{c}       22 \\       10 \\       12     \end{array}   $	22, 958 2, 129 2, 036
filinois. Indiana. Iowa. Kansas. Kentucky	174 83 03 155 157	$10, 311 \\ 3, 871 \\ 2, 050 \\ 12, 062 \\ 5, 173$			7, 169 3, 909 1, 152 1, 323 7, 428	255, 189 127, 753 37, 227 47, 327 238, 569	3, 175 327 42 34 2, 029	78, 497 10, 260 1, 658 1, 146 50, 206	$172 \\ 45 \\ 10 \\ 7 \\ 140$	46, 454 8, 125 1, 190 505 33, 364
Louisiana and Missis- slopi Maine Maryland Massachusotts Michigan	48 20 36 99 119	5, 022 573 1, 656 5, 787 6, 584	 1 1 14	40 185 13, 900	$132 \\ 203 \\ 692 \\ 554 \\ 2,885$	10, 633 8, 900 21, 046 20, 425 152, 453	$2 \\ 104 \\ 26 \\ 1, 691$	266 2, 256 765 98, 450	$2 \\ 10 \\ 2 \\ 66$	200 1, 500 360 66, 883
Minnesota Missouri Montana Nobraska Novada	186 33 24	3, 287 11, 159 2, 961 1, 289 13, 430	3 2 3	335 055 700	2, 949 2, 894 2, 383 154 846	97, 936 107, 662 185, 267 8, 452 29, 382	820 400 68 569	3, 804 18, 232 3, 435 25, 825	$     \begin{array}{r}       12 \\       30 \\       4 \\      $	4,215 20,685 1,046 26,989
Now Hampshire Now Jersey Now Moxico Now York North Carolina	169 56 188	310 9, 482 5, 174 8, 416 1, 965	2 	70 90 2, 995 630	96 704 487 2,416 334	3, 196 30, 446 17, 954 95, 882 11, 804	7 367 1,215 105 91	$\begin{array}{r}150\\9,942\\44,392\\4,091\\1,500\end{array}$	$2 \\ 10 \\ 43 \\ 19 \\ 14$	90 11, 312 33, 054 7, 247 1, 424
Ohio. Oklahoma Oregon Pennsylvanla Rhode Izland	196 50 529	12, 382 23, 007 2, 289 20, 748 347	4 7	200 445	${ \begin{array}{c} 4,137\\ 1,889\\ 244\\ 31,377\\ 79 \end{array} }$	144, 611 68, 838 7, 688 1, 316, 172 2, 915	540 203 21 13, 080	16, 691 4, 931 151 566, 986	77 9 5 373	11, 167 5, 475 149 198, 089
South Carolina	39	1,652			317	14, 411			. 1	3
South Dakota and North Dakota Tennessee Texas Utah	279	2, 771 3, 478 16, 603 1, 364	9 2	12, 500	292 1, 526 641 6, 016	8, 357 55, 823 20, 636 174, 712	407 69 556 4		15 8 43 8	$12,102 \\ 2,255 \\ 10,778 \\ 689$
Vermont Virginia Washington West Virginia Wisconsin Wyoming	9 54 65 66 113	195 2, 185 3, 405 3, 810 4, 973 822	2 1 7 8 1	106 500 635 4,500 210	$1,351 \\ 2,502 \\ 988 \\ 14,810 \\ 1,359 \\ 643$	34, 911 96, 486 37, 351 562, 621 49, 571 22, 711	$\begin{array}{c c} & & 3 \\ & 101 \\ & & 20 \\ 2,787 \\ & 23 \\ 1,287 \end{array}$	91, 914 522	$2 \\ 15 \\ 10 \\ 169 \\ 0 \\ 27 \\ 1 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10$	818 54, 032

# TABLE 10.—PRODUCING ENTERPRISES—GENERAL STATISTICS IN DETAIL, BY STATES: 1929—Continued

<sup>3</sup> Includes 112,884 kilowatts reported for inactive generators.